

THE BOEING COMPANY

# INVESTIGATION OF APRON R AREA BOEING RENTON FACILITY, REV 1

SEPTEMBER 2024

## TECHNICAL MEMORANDUM





# INVESTIGATION OF APRON R AREA BOEING RENTON FACILITY TECHNICAL MEMORANDUM THE BOEING COMPANY

PROJECT NO.: PS24206850 TASK 7.01  
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## ACRONYMS AND ABBREVIATIONS

|                   |                                           |
|-------------------|-------------------------------------------|
| 1997 Agreed Order | Agreed Order No. DE 97HZ-N233             |
| 2013 Agreed Order | Agreed Order No. 8191                     |
| ARL               | Analytical Resources, LLC                 |
| bgs               | Below ground surface                      |
| Boeing            | The Boeing Company                        |
| Calibre           | CALIBRE Systems, Inc.                     |
| CAP               | Cleanup Action Plan                       |
| CLARC             | Cleanup Levels and Risk Calculation       |
| CUL               | Cleanup level                             |
| DNR               | Department of Natural Resources           |
| DRO               | diesel range organics                     |
| Ecology           | Washington State Department of Ecology    |
| EPA               | U.S. Environmental Protection Agency      |
| Facility          | Boeing Renton Facility                    |
| FOD               | Foreign object debris                     |
| Ft                | Feet                                      |
| HRO               | Heavy Oil Range Organics                  |
| IDW               | Investigation-derived waste               |
| MTCA              | Model Toxics Control Act                  |
| PAH               | Polycyclic aromatic hydrocarbons          |
| PDF               | portable document format                  |
| SVOCs             | Semi- volatile organic compounds          |
| Tech memo         | Technical memorandum                      |
| TPH               | Total petroleum hydrocarbons              |
| VOC               | Volatile organic compounds                |
| WSP               | WSP USA Environment & Infrastructure Inc. |
| µg/L              | Micrograms per liter                      |

# 1 INTRODUCTION

The Boeing Company (Boeing) conducted a field investigation to address historic releases of hazardous substances at the Boeing Renton Facility (Facility) located in the City of Renton, Washington, with Washington State Department of Ecology (Ecology) oversight. Boeing entered into Agreed Order No. DE 97HZ-N233 (1997 Agreed Order), with Ecology that was executed on November 3, 1997. Following completion of the Cleanup Action Plan (CAP), Boeing entered into Agreed Order No. 8191 (2013 Agreed Order) with Ecology dated January 2, 2013, to implement the CAP. Under the 2013 Agreed Order, Boeing is required to notify Ecology of any newly discovered release(s).

The general layout of the Facility is shown in Figure 1-1. Groundwater flows generally to the north across the entire Facility, toward Lake Washington (WSP, 2024).

This technical memorandum (tech memo) summarizes field investigation activities and laboratory results that were conducted in accordance with an approved Work Plan (Calibre 2024). This tech memo was initially drafted by CALIBRE Systems, Inc. (Calibre) in June 2024 and was finalized by WSP USA Environment & Infrastructure Inc. (WSP).

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## 1.1 BACKGROUND AND OBJECTIVES

In 2021, Boeing's construction contractor, Skanska, worked on various construction projects at the north end of the Facility, including the installation of a new stormwater system in the area of Apron R (Figure 1-2). In mid-June 2021, the Skanska construction team observed a potential petroleum hydrocarbon odor and sheen in shallow water within a small area of an excavation trench. Work was stopped while Skanska coordinated the next steps with Boeing.

Additional background information, including results of samples collected in 2021 and a review of historical information regarding current/prior use of the area (Calibre, 2021) (as previously summarized in the Work Plan [Calibre 2024]), is included as Appendix A and B.

The basic objectives for the soil and groundwater sampling in 2024 were to define the nature and extent of the potential petroleum hydrocarbon release observed in the Apron R construction excavation and to discuss any additional future investigation, action, or monitoring with Ecology. As noted in the project Work Plan (Calibre 2024), prior sampling from 2021 determined that a petroleum hydrocarbon release had occurred; at the time of the discovery of the release, Boeing had no knowledge of hydrocarbons being stored, used, or spilled in this area. In 2023, a review of records revealed that prior land use (at the former Shuffleton Power Plant) included storage and transfer of Bunker C fuel, at or near the construction location before Boeing acquired the property in the early 1960s. Historical photographs, maps, and other relevant information can be found in Appendix B.

## 2 PLANNING AND SAMPLING APPROACH

The investigation Work Plan (Calibre 2024) for the work described in this tech memo was submitted to Ecology and approved by Ecology on March 6, 2024. As described in the Work Plan, the sampling approach was to collect soil and groundwater samples using a direct-push rig to advance borings located in a radial pattern extending out from the Apron R excavation trench where the petroleum hydrocarbons (represented as total petroleum hydrocarbons [TPH] in the analytical program) were previously detected.

Two pre investigation site walks were completed in March 2024 with representatives from Cascade Drilling, Calibre, and Boeing Remediation to discuss the work requirements and scope, including logistics, safety considerations, access hours, and staging areas. Following the site walks, notification was provided to Boeing's Renton Facility management team to identify any subsurface utilities and coordinate exclusion within the planned work area.

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### 2.1 UTILITY CLEARANCE

Underground utility clearance (gas, water, sewer, power, communication lines, and other utilities) was completed prior to starting any intrusive work. The Utility Notification Center was notified more than 48 hours prior to initiation of intrusive work to find and mark utilities.

In addition, a private utility locating service was used to identify buried utilities on Boeing property within and nearby the planned work area prior to starting the intrusive work. Current utility maps for the area were provided to the private utility locating service. Using a combination of electric resistivity and ground penetrating radar, all located utilities were marked on the surface with spray paint. Known utilities in the immediate area are active water lines and storm drains, as identified on Figure 2-1.

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### 2.2 FOREIGN OBJECT DEBRIS CONTROL

The investigation area is in proximity to stored aircraft and equipment. Therefore, foreign object debris (FOD) awareness and prevention is a critical aspect of all work implemented. All activities performed in the vicinity of Apron R were completed in accordance with a FOD Awareness/Prevention Program and included safe housekeeping practices reflecting a "clean as you go" work environment.

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### 2.3 PERMITTING

All investigative drilling work was performed by a Cascade Drilling state-licensed driller, who obtained start-cards from Ecology. No other permits were required.

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### 2.4 SAMPLING APPROACH

As described in the Work Plan (Calibre 2024), the sampling approach was to collect grab samples of soil and groundwater using a direct-push rig. One of the key objectives of the sampling, as noted in Section 1, was to define the nature and extent of potential TPH contamination and bound the impacted area. The borings were planned in a radial pattern extending from the Apron R excavation trench where the TPH was detected.

The planned sampling locations from the Work Plan are shown on Figure 2-1 and listed in Table 2-1.

## 3 FIELD OPERATIONS

Following utility clearance at the sampling locations, the surface concrete was cored to enable soil and groundwater sampling with a direct-push rig. The field work was completed on March 18 and 19, 2024, at the sampling locations shown in Figure 2-1 and listed in Table 2-1.

A total of 10 sampling locations were completed in this investigation. The water table was at approximately 4 feet below ground surface (bgs). Each probe location was sampled to a depth of 8 feet bgs.

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### 3.1 FIELD OBSERVATIONS AND BORING LOGS

A geologist was on site during the drilling activities to observe and record soil descriptions and features and to collect samples. The soil description logs are provided in Appendix C.

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### 3.2 SOIL AND GROUNDWATER SAMPLING

The soil cores were logged by a Calibre field geologist using the Unified Soil Classification System methodology. The soil cores were field tested using a sheen test and screened for organic vapors with a calibrated photoionization detector. Soil samples were collected below the vadose zone at 4 and 8 feet bgs in each boring, representing saturated soil at the water table and 4 feet below the water table, respectively. Several field observations of petroleum odor and or sheen were noted in soils collected at the water table at locations 1NW, 1SE, 2NE, and 2NW (Appendix C).

Following the procedures outlined in the Work Plan, Calibre collected groundwater samples from two depths, 4 feet bgs, and 8 feet bgs, in each probe location (where feasible). The water samples were collected using a peristaltic pump from a direct-push screen point.

The samples included one trip blank (for volatile organic compounds [VOCs]) and one field duplicate collected from 4 feet bgs in boring 1NW.

The samples collected were placed in a cooler with ice and maintained in the custody of the field sampling team from the time of sample collection until the samples were transferred to Analytical Resources, LLC (ARL). Chain-of-custody forms were completed by Calibre and accompanied the samples to the laboratory.

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### 3.3 INVESTIGATION-DERIVED WASTE AND DEBRIS

The soil and water sampling described in this project generated the following debris and investigation-derived waste (IDW):

- Soil
- Groundwater
- Decontamination water
- Personal protective equipment

All IDW generated was handled and disposed of according to local, state, and federal laws, and applicable Boeing procedures. IDW generated during field activities was placed in Washington State Department of Transportation–approved 55-gallon drums or 5-gallon containers and temporarily stored on site. The waste management process for IDW followed standard operating procedures and it was coordinated with designated Boeing personnel.

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## 3.4 DEVIATIONS

The sampling team was able to sample each of the planned locations. The following deviations from the Work Plan occurred during field activities:

- Location 2NE was dry to 8 feet bgs. Groundwater samples were not collected from this boring.
- Locations 2E, 2SE, and 2NW were dry at 4 feet bgs. Shallow groundwater samples were not collected from these borings.

## 4 DATA COLLECTION AND MANAGEMENT

This section reviews the data collection, validation, and management processes during this investigation. The laboratory report with all analytical results is included in Appendix D.

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### 4.1 LABORATORY ANALYSIS

ARL analyzed the water and soil samples for the following analytes:

- Diesel range organics (DRO) and Heavy Oil Range Organics (HRO) by Ecology Method NW-TPHDx
- VOCs by EPA Method SW8260D.
- Semivolatile organic compounds (SVOCs) by the U.S. Environmental Protection Agency (EPA) Method SW8270E.

ARL completed the planned laboratory analysis for all samples provided. The analytical results were provided as a portable document format (PDF) laboratory report and as an electronic data deliverable.

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### 4.2 DATA VALIDATION

To ensure that the analytical data are of a known and acceptable quality, WSP performed a data quality review independent of the laboratory. The summary of this review is included in Appendix E. The data validation included a review of laboratory performance criteria and sample-specific criteria. The reviewer determined that the project objectives were met, and that the data are suitable for the intended purpose. The data quality review verified that:

- Sample numbers and analyses matched the chain-of-custody request; some missing details/clarification between the lab and sampling team were resolved via discussions.
  - Sample holding times were met. All samples were delivered to the lab with ice, the coolers exceeded recommended holding temperatures, but the samples were still cooling.
  - Field and laboratory blanks were performed at a suitable frequency and that no analytes were present in the blanks.
  - Field and laboratory duplicates, matrix spikes, and laboratory control samples were run at the proper frequency and that control limits were met.
  - Surrogate compound analyses were performed and that results met the criteria.
- 

### 4.3 DATA MANAGEMENT

All analytical characterization data were entered into and managed in the existing internal EQUIS database for use in conjunction with mapping tools to manage, summarize, and report the sampling data generated.

## 5 INVESTIGATION RESULTS

This section reviews the laboratory results obtained during this investigation in comparison to the potentially applicable standards from Ecology's CLARC tables (Ecology, 2024).

All existing cleanup levels (CULs) from the CAP for the Facility were established in the Feasibility Study and CAP using a site/area-specific process, which ultimately developed different CULs for each of area of concern/solid waste management units. The Apron R area was identified after finalization of the CAP, and site-specific CULs for the Apron R area have not been established. MTCA Methods A, B, and C values for both soil and groundwater were used for comparison based on availability in CLARC and applicability to the site, identified in Tables 5-1 through 5-8. Other comparison values referenced in CLARC are published in Ecology Implementation Memo 23 *Concentrations Protective of Aquatic Receptors in Surface Water* (Ecology 2021). Because of the known timeline of the observation of contamination in Apron R in 2021 (historical usage of the Shuffleton Plan fuel dock and underground piping dates back to ~1936), weathered DRO protective values were used for the screening of DRO concentrations in this report. The comparison values presented in this report are intended to provide a point of comparison for evaluation of the data. They are not approved site-specific CULs. Further evaluation of the site-specific conditions, land use, potential impacts to surface water, and relevant exposure pathways is needed to select site-specific CULs. This process must occur in consultation with Ecology.

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### 5.1 SOIL SAMPLING RESULTS

The analytical results for chemicals detected above the reporting limits in soil samples for TPH, VOCs, and SVOCs are shown in Tables 5-1, 5-2, and 5-3, respectively. Screening levels for soil, taken from the CLARC tables, are shown in Table 5-4. The complete tables of analytical results for soil samples, including those below the reporting limits, are tabulated in Appendix F. The values listed in Table 5-4 are presented as screening levels.

MTCA Method A soil TPH values listed on Table 5-4 are the only values presented for TPH in the CLARC tables. The TPH results for soil samples are presented in Figure 5-1. As displayed by shaded locations in Figure 5-1, TPH in soil exceeded the MTCA Method A values for DRO and HRO at two locations: 1NW (4 feet) (and the associated duplicate sample) and 2NW (4 feet). Six polycyclic aromatic hydrocarbons (PAHs) in soil samples exceeded the MTCA Method A Unrestricted Land Use and/or the Soil Protective of Groundwater value at the 1NW (4 feet) sample location and/or the associated duplicate sample: 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, benzo(a)pyrene, fluorene, and naphthalene. 1-Methylnaphthalene and 2-methylnaphthalene were also detected in the co-located groundwater sample, as described in the section below. No other analytes which exceeded the Soil Protective of Groundwater values also exceeded applicable MTCA groundwater criteria in the co-located groundwater samples. 1-Methylnaphthalene and 2-methylnaphthalene concentrations also exceeded Soil Protective of Groundwater values at several other locations. Exceedances at the following locations were observed:

- 1-Methylnaphthalene: 1NW (4 feet [and the associated duplicate sample] and 8 feet), 1SE (4 feet), 1SW (8 feet), 2E (4 feet and 8 feet) 2NW (4 feet), 2SE (4 feet).
- 2-Methylnaphthalene: 1NW (4 feet [and the associated duplicate sample], 1SE (4 feet), and 2NW (4 feet).

1-Methylnaphthalene and 2-methylnaphthalene were also detected in the co-located groundwater samples at the 1NW (4 feet and 8 feet) and 1SE (4 feet and 8 feet) locations. The concentration of 1-Methylnaphthalene detected in the primary soil sample collected at the 1NW (4 feet) location also exceeded the MTCA Method B Direct Contact Cancer screening level. Bis(2-ethylhexyl) phthalate exceeded the Soil Protective of Groundwater value at the 2NE (4 feet) location. Benzo(a)pyrene concentrations and the calculated toxicity equivalent concentrations exceeded CLARC values at 1NW (4 feet) (and the associated duplicate sample), 1SE (4 feet), 2NW (4 feet), and 2SE (4 feet). Isophorone exceeded the Soil Protective of Groundwater value in the duplicate for the 1NW (4 feet) location but was not detected in the co-located groundwater sample.

Two VOCs exceeded the CLARC values for soil Method A Unrestricted Land Use and/or the Soil Protective of Groundwater but were not detected in the respective co-located groundwater samples. Exceedances of the following VOCs were observed:

- Methylene chloride at 1SE (4 feet and 8 feet), 2SE (4 feet), and 2SW (4 feet).
- 1,2,4-Trimethylbenzene at 1NW (4 feet) (and the associated duplicate sample).

One of the CLARC values listed and evaluated, as applicable to soil, is based on soil protective of groundwater. All sampling described in this tech memo included co-located soil and groundwater samples. If the groundwater samples are below the applicable MTCA criteria, those groundwater data provide empirical evidence, consistent with WAC 173-340-747, that the concentrations detected in soil do not have an impact to groundwater above the established thresholds.

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## 5.2 GROUNDWATER SAMPLING RESULTS

The analytical results for groundwater samples with detections for TPH are shown in Table 5-5, VOCs in Table 5-6, and SVOCs in Table 5-7. The complete tables of analytical results for groundwater samples, including those below the reporting limits, are provided in Appendix F.

Screening level concentrations for groundwater, taken from the CLARC tables, are shown in Table 5-8. The values listed in Table 5-8 are presented as screening levels. The MTCA Method A values for TPH are the only values listed. The TPH results for groundwater samples are presented in Figure 5-2. TPH as DRO and/or HRO exceeded the comparison CLARC values at 1NW, 1SE, 1SW, 2SW, 2NW, and 2W. All TPH, benzene, and toluene detections in groundwater are lower than the values listed in Ecology Implementation Memo 23, with the exception of a combined DRO and HRO concentration of 6,100 micrograms per liter (µg/L) detected at 1NW (8 feet).

Detected VOC concentrations were below all CLARC comparison values listed for all VOC analytes. Five SVOCs and the polycyclic aromatic hydrocarbons toxicity equivalent exceeded the CLARC values at various locations. Exceedances of the following SVOCs were observed:

- Benzo(a)anthracene at the 1NE (4 feet) and 1NW (8 feet) locations.
- 1-Methylnaphthalene at the 1NW (4 feet and 8 feet) location.
- Bis(2-ethylhexyl) phthalate at the 2E (8 feet), 2NW (8 feet) and 2W (4 feet and 8 feet) locations.
- Chrysene at the 1NE (4 feet) and 1NW (8 feet) locations.

While all calculated groundwater benzo(a)pyrene toxicity equivalent values exceeded several screening levels, they are considered biased high. Interpretation of the results requires the following assumptions:

- Following the 2015 Memo 10 guidance, 1/2 of the laboratory detection limit was used in the TEQ calculations for all non-detect results. Screening levels for benzo(a)pyrene are particularly low and difficult to achieve with the best available laboratory technology. While the majority of the cPAH results are non-detect (including all groundwater benzo(a)pyrene results), the inclusion of 1/2 the laboratory detection limit for non-detect results has effectively skewed the calculations to potentially exhibit a positive bias.
- The groundwater samples were collected using direct push temporary wells, which are generally not designed, built, developed and/or purged as effectively as permanent wells. Sampling from direct-push temporary well points can result in entrainment of aquifer solids that might skew the apparent contamination concentrations in unfiltered groundwater samples higher. While data collected from groundwater samples obtained using direct-push temporary well points are useful for initial investigation purposes, they are not ideal for making decisions regarding remediation and/or cleanup actions due to the potential that the results may not be representative of the actual groundwater conditions.



## 6 CONCLUSION

The chemicals detected in this Apron R investigation are limited in areal extent, appear to represent a decades-old, historical release of Bunker C fuel associated with former fueling operations (dating back to at least 1936) for the former Shuffleton Power Plant and are not associated with Boeing's current or historical operations in this area.

The comparison values presented in this report are intended to provide a point of comparison for evaluation of the data. They are not Ecology-approved site-specific CULs. Additional evaluation of applicable MTCA criteria and consultation with Ecology are needed to select site-specific CULs, pending addition of the Apron R area to the Compliance Monitoring Program.

The current data are sufficient to define the nature and extent of TPH soil and groundwater contamination on Boeing-owned property in the vicinity of Apron R. However, because groundwater flows to the north towards Lake Washington, potential impacts to the northern DNR parcel were not investigated and are unknown. Boeing is currently coordinating with DNR to gain access to this parcel to perform a groundwater investigation.

## 7 RECOMMENDATIONS

To delineate the potential, offsite groundwater impacts, sampling of temporary, direct push groundwater sampling wells is proposed. The wells direct push locations are proposed to be installed between the investigation area of this memo (on Boeing property) and Lake Washington, with at least one location on the DNR property to the north. Boeing is currently coordinating with DNR for access to this parcel.

Upon Ecology's approval of this tech memo, and in coordination with Ecology and DNR, a work plan will be prepared to detail groundwater sampling procedures for this proposed offsite investigation. Ecology approval of the proposed offsite workplan will be obtained prior to conducting the subsequent offsite groundwater investigation. Based on the results from the initial round of offsite groundwater sampling, Boeing will coordinate with Ecology and DNR regarding any potential next steps.

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# TABLES



Table 2-1 - All Planned Sample Locations  
Boeing Renton Apron R Investigation

| <u>Soil Samples</u>                                    |              |    |                                                |                   |                    |
|--------------------------------------------------------|--------------|----|------------------------------------------------|-------------------|--------------------|
| Probe Location                                         | Depth (feet) |    | Diesel/Heavy Oil Range<br>Organics<br>NW-TPHDx | VOCs EPA<br>8260D | SVOCs EPA<br>8270E |
| 1NE                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 1SE                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 1SW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 1NW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 2NE                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 2E                                                     | 4            | 8  | 2                                              | 2                 | 2                  |
| 2SE                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 2SW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 2W                                                     | 4            | 8  | 2                                              | 2                 | 2                  |
| 2NW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
|                                                        |              |    |                                                |                   |                    |
| Total soil samples planned<br>including 1 duplicate    |              |    | 21                                             | 21                | 21                 |
| <u>Water Samples</u>                                   |              |    |                                                |                   |                    |
| Probe Location                                         | Depth (feet) |    | Diesel/Heavy Oil Range<br>Organics<br>NW-TPHDx | VOCs EPA<br>8260D | SVOCs EPA<br>8270E |
| 1NE                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 1SE                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 1SW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 1NW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 2NE                                                    | 4*           | 8* | 2                                              | 2                 | 2                  |
| 2E                                                     | 4*           | 8  | 2                                              | 2                 | 2                  |
| 2SE                                                    | 4*           | 8  | 2                                              | 2                 | 2                  |
| 2SW                                                    | 4            | 8  | 2                                              | 2                 | 2                  |
| 2W                                                     | 4            | 8  | 2                                              | 2                 | 2                  |
| 2NW                                                    | 4*           | 8  | 2                                              | 2                 | 2                  |
|                                                        |              |    |                                                |                   |                    |
| Total water samples planned<br>including 1 duplicate   |              |    | 20                                             | 20                | 20                 |
| Total water samples collected<br>including 1 duplicate |              |    | 16                                             | 16                | 16                 |

\*Sample borings were dry and no water samples could be collected (see description in text).

Note

Trip blanks were included and submitted to laboratory, per QA/QC plans, but not listed in this table.

Abbreviations

EPA: Environmental Protection Agency

VOCs: volatile organic compounds

SVOCs: semivolatile organic compounds

Table 5-1 - TPH in Soil, All Detections  
Boeing Renton Apron R Investigation

|                                                   |                     | Diesel Range Organics<br>(C12-C24) | Heavy Oil Range<br>Organics (C24-C38) | Sum of Diesel and<br>Heavy Range<br>Organics (C12-C38) |
|---------------------------------------------------|---------------------|------------------------------------|---------------------------------------|--------------------------------------------------------|
| Soil Method A Unrestricted Land Use (Table 740-1) |                     | 2000                               | 2000                                  | 2000                                                   |
| Date                                              | Location            |                                    |                                       |                                                        |
| 3/19/2024                                         | 1NE at 4 ft         | 11.3                               | 29                                    | 40.3                                                   |
| 3/19/2024                                         | 1NE at 8 ft         | < 7.43 U                           | 120                                   | 120 J                                                  |
| 3/19/2024                                         | 1NW at 4 ft         | 24900                              | 23200                                 | 48100                                                  |
| 3/19/2024                                         | 1NW at 8 ft         | 24.2                               | 492                                   | 516.2                                                  |
| 3/18/2024                                         | 1SE at 4 ft         | 819 J                              | 924 J                                 | 1,743 J                                                |
| 3/18/2024                                         | 1SE at 8 ft         | 10.0 J                             | 79.0 J                                | 89.0 J                                                 |
| 3/18/2024                                         | 1SW at 4 ft         | 12.5 J                             | 45.8 J                                | 58.3 J                                                 |
| 3/18/2024                                         | 1SW at 8 ft         | < 8.78 UJ                          | 76.3 J                                | 76.3                                                   |
| 3/19/2024                                         | 2E at 4 ft          | 20.6                               | 79.1                                  | 99.7                                                   |
| 3/19/2024                                         | 2E at 8 ft          | 25.9                               | 55.7                                  | 81.6                                                   |
| 3/19/2024                                         | 2NE at 4 ft         | 92.3 J                             | 292 J                                 | 384.3 J                                                |
| 3/19/2024                                         | 2NE at 8 ft         | < 6.43 U                           | 24.5                                  | 24.5                                                   |
| 3/19/2024                                         | 2NW at 4 ft         | 6860                               | 9310                                  | 16170                                                  |
| 3/19/2024                                         | 2NW at 8 ft         | < 7.86 U                           | 107                                   | 107                                                    |
| 3/18/2024                                         | 2SE at 4 ft         | 27.5 J                             | 213 J                                 | 240.5 J                                                |
| 3/18/2024                                         | 2SE at 8 ft         | 13.1 J                             | 87.4 J                                | 100.5 J                                                |
| 3/18/2024                                         | 2SW at 4 ft         | < 5.97 UJ                          | 16.3 J                                | 16.3 J                                                 |
| 3/18/2024                                         | 2SW at 8 ft         | 10.3 J                             | 61.4 J                                | 71.7 J                                                 |
| 3/19/2024                                         | 2W at 4 ft          | 17.1                               | 55.6                                  | 72.7                                                   |
| 3/19/2024                                         | 2W at 8 ft          | 7.01                               | 30.3                                  | 37.31                                                  |
| 3/19/2024                                         | DUP01 (1NW at 4 ft) | 22600 J                            | 26100 J                               | 48700 J                                                |

#### Notes

All analyses run via method NWTPH-DX

All results reported in mg/kg

Sum of DRO and HRO includes only detected results

Screening levels obtained from CLARC tables (Ecology 2024)

Red highlight indicates exceedance of one or more screening levels

#### Abbreviations

-- = not listed

mg/kg = milligrams per kilogram

TPH = total petroleum hydrocarbons

#### Qualifier Definitions

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

U = The analyte was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 5-2 - VOCs in Soil, All Detections  
Boeing Renton Apron R Investigation

|                                                                   |                     | 1,2,4-<br>Trimethylbenzene | 1,3,5-<br>Trimethylbenzene | 2-Butanone   | 4-Isopropyltoluene | Acetone  | Benzene      | Carbon Disulfide | Chloromethane | Ethylbenzene | Isopropyl benzene | m,p-Xylene   | Methylene Chloride | Naphthalene  | n-Butylbenzene | n-Propylbenzene | o-Xylene     | s-Butylbenzene | Toluene      | Total Xylenes |
|-------------------------------------------------------------------|---------------------|----------------------------|----------------------------|--------------|--------------------|----------|--------------|------------------|---------------|--------------|-------------------|--------------|--------------------|--------------|----------------|-----------------|--------------|----------------|--------------|---------------|
| Soil Method A Unrestricted Land Use (Table 740-1)                 |                     | --                         | --                         | --           | --                 | --       | 0.03         | --               | --            | 6            | --                | --           | 0.02               | 5            | --             | --              | --           | --             | 7            | 9             |
| Soil Method B Direct Contact Noncancer (Eq. 740-1)                |                     | 800                        | 800                        | 48000        | --                 | 72000    | 320          | 80000            | --            | 8000         | --                | 16000        | 480                | 1600         | 4000           | 8000            | 16000        | 8000           | 6400         | 16000         |
| Soil Method B Direct Contact Cancer (Eq. 740-2)                   |                     | --                         | --                         | --           | --                 | --       | 18           | --               | --            | --           | --                | --           | 94                 | --           | --             | --              | --           | --             | --           | --            |
| Soil Method C Direct Contact Noncancer (Eq. 745-1)                |                     | 35000                      | 35000                      | --           | --                 | 3200000  | 14000        | 350000           | --            | 350000       | --                | 700000       | 21000              | 70000        | 180000         | 350000          | 700000       | 350000         | 280000       | 700000        |
| Soil Method C Direct Contact Cancer (Eq. 745-2)                   |                     | --                         | --                         | --           | --                 | --       | 2400         | --               | --            | --           | --                | --           | 66000              | --           | --             | --              | --           | --             | --           | --            |
| Soil Protective of Groundwater Saturated (Eq. 747-1) see guidance |                     | 0.072                      | 0.071                      | 1.4          | --                 | 2.1      | 0.0017       | 0.25             | --            | 0.34         | --                | 0.77         | 0.0015             | 0.24         | 0.71           | 0.88            | 0.84         | 1.3            | 0.27         | 0.83          |
| Date                                                              | Location            |                            |                            |              |                    |          |              |                  |               |              |                   |              |                    |              |                |                 |              |                |              |               |
| 3/19/2024                                                         | 1NE at 4 ft         | < 0.00108 U                | < 0.00108 U                | < 0.00539 U  | < 0.00108 U        | 0.153    | 0.00031 J    | 0.00090 J        | 0.00085 J     | < 0.00108 U  | < 0.00108 U       | < 0.00216 U  | < 0.00539 U        | < 0.00539 U  | < 0.00108 U    | < 0.00108 U     | < 0.00108 U  | < 0.00108 U    | 0.00030 J    | < 0.00216 U   |
| 3/19/2024                                                         | 1NE at 8 ft         | < 0.00182 U                | < 0.00182 U                | 0.0135       | < 0.00182 U        | 0.158    | < 0.00182 U  | 0.00108 J        | < 0.00182 U   | < 0.00182 U  | < 0.00182 U       | < 0.00364 U  | < 0.00911 U        | < 0.00911 U  | < 0.00182 U    | < 0.00182 U     | < 0.00182 U  | < 0.00182 U    | < 0.00182 U  | < 0.00364 U   |
| 3/19/2024                                                         | 1NW at 4 ft         | 0.0754                     | 0.021                      | < 0.00834 U  | 0.00837 J          | 0.396 J  | 0.00092 J    | 0.00067 J        | < 0.00167 U   | 0.011        | 0.00313           | 0.038        | < 0.00834 U        | 0.15         | 0.00544        | 0.0059          | 0.0275       | 0.00225        | 0.0135 J     | 0.0655        |
| 3/19/2024                                                         | 1NW at 8 ft         | < 0.00235 U                | < 0.00235 U                | 0.00632 J    | < 0.00235 U        | 0.484    | < 0.00235 U  | < 0.00235 U      | < 0.00235 U   | < 0.00235 U  | < 0.00235 U       | < 0.00469 U  | < 0.0117 U         | < 0.0117 U   | < 0.00235 U    | < 0.00235 U     | < 0.00235 U  | < 0.00235 U    | < 0.00235 U  | < 0.00469 U   |
| 3/18/2024                                                         | 1SE at 4 ft         | 0.00603 J                  | 0.00055 J                  | 0.00969 J    | 0.0105 J           | 0.376 J  | 0.00063 J    | 0.00250 J        | < 0.00126 UJ  | < 0.00126 UJ | 0.00136 J         | 0.00065 J    | 0.0126 J           | 0.0474 J     | 0.00462 J      | 0.00269 J       | 0.00438 J    | 0.00187 J      | 0.00122 J    | 0.0503 J      |
| 3/18/2024                                                         | 1SE at 8 ft         | < 0.00177 UJ               | < 0.00177 UJ               | < 0.00884 UJ | < 0.00177 UJ       | 0.345 J  | < 0.00177 UJ | < 0.00177 UJ     | < 0.00177 UJ  | < 0.00177 UJ | < 0.00177 UJ      | < 0.00354 UJ | 0.117 J            | < 0.00884 UJ | < 0.00177 UJ   | < 0.00177 UJ    | < 0.00177 UJ | < 0.00177 UJ   | 0.00046 J    | < 0.00354 UJ  |
| 3/18/2024                                                         | 1SW at 4 ft         | < 0.00113 UJ               | < 0.00113 UJ               | < 0.00563 UJ | < 0.00113 UJ       | 0.129 J  | 0.00036 J    | 0.00090 J        | < 0.00113 UJ  | < 0.00113 UJ | < 0.00113 UJ      | < 0.00225 UJ | < 0.00563 UJ       | < 0.00563 UJ | < 0.00113 UJ   | < 0.00113 UJ    | < 0.00113 UJ | < 0.00113 UJ   | < 0.00113 UJ | < 0.00225 UJ  |
| 3/18/2024                                                         | 1SW at 8 ft         | < 0.00183 UJ               | < 0.00183 UJ               | 0.00704 J    | < 0.00183 UJ       | 0.0992 J | < 0.00183 UJ | < 0.00183 UJ     | < 0.00183 UJ  | < 0.00183 UJ | < 0.00183 UJ      | < 0.00365 UJ | < 0.00913 UJ       | < 0.00913 UJ | < 0.00183 UJ   | < 0.00183 UJ    | < 0.00183 UJ | < 0.00183 UJ   | < 0.00183 UJ | < 0.00365 UJ  |
| 3/19/2024                                                         | 2E at 4 ft          | < 0.00161 U                | < 0.00161 U                | 0.00469 J    | < 0.00161 U        | 0.104    | < 0.00161 U  | 0.00087 J        | < 0.00161 U   | < 0.00161 U  | < 0.00161 U       | < 0.00322 U  | < 0.00804 U        | < 0.00804 U  | < 0.00161 U    | < 0.00161 U     | < 0.00161 U  | < 0.00161 U    | 0.00056 J    | < 0.00322 U   |
| 3/19/2024                                                         | 2E at 8 ft          | < 0.00118 U                | < 0.00118 U                | 0.00457 J    | < 0.00118 U        | 0.094    | 0.00031 J    | 0.00166          | < 0.00118 U   | < 0.00118 U  | < 0.00118 U       | < 0.00235 U  | < 0.00588 U        | < 0.00588 U  | < 0.00118 U    | < 0.00118 U     | < 0.00118 U  | < 0.00118 U    | 0.00044 J    | < 0.00235 U   |
| 3/19/2024                                                         | 2NE at 4 ft         | < 0.00116 UJ               | < 0.00116 UJ               | 0.00365 J    | < 0.00116 UJ       | 0.281 J  | 0.00041 J    | 0.00271 J        | < 0.00116 UJ  | < 0.00116 UJ | < 0.00116 UJ      | < 0.00231 UJ | < 0.00578 UJ       | < 0.00578 UJ | < 0.00116 UJ   | < 0.00116 UJ    | < 0.00116 UJ | < 0.00116 UJ   | 0.00035 J    | < 0.00231 UJ  |
| 3/19/2024                                                         | 2NE at 8 ft         | < 0.00143 U                | < 0.00143 U                | 0.00503 J    | < 0.00143 U        | 0.119    | 0.00062 J    | < 0.00143 U      | < 0.00143 U   | < 0.00143 U  | < 0.00143 U       | < 0.00286 U  | < 0.00716 U        | < 0.00716 U  | < 0.00143 U    | < 0.00143 U     | < 0.00143 U  | < 0.00143 U    | 0.00039 J    | < 0.00286 U   |
| 3/19/2024                                                         | 2NW at 4 ft         | 0.0124                     | 0.0055                     | 0.00842      | 0.0044             | 0.281    | 0.00032 J    | < 0.00125 U      | < 0.00125 U   | 0.00132      | 0.00089 J         | 0.00536      | < 0.00624 U        | 0.0202       | < 0.00125 U    | 0.00139         | 0.00468      | 0.00137        | 0.00096 J    | 0.0100        |
| 3/19/2024                                                         | 2NW at 8 ft         | < 0.00150 U                | < 0.00150 U                | < 0.00748 U  | < 0.00150 U        | 0.124    | < 0.00150 U  | 0.00094 J        | < 0.00150 U   | < 0.00150 U  | < 0.00150 U       | < 0.00299 U  | < 0.00748 U        | < 0.00748 U  | < 0.00150 U    | < 0.00150 U     | < 0.00150 U  | < 0.00150 U    | < 0.00150 U  | < 0.00299 U   |
| 3/18/2024                                                         | 2SE at 4 ft         | < 0.00218 UJ               | < 0.00218 UJ               | 0.00798 J    | < 0.00218 UJ       | 0.129 J  | 0.00086 J    | 0.00268 J        | < 0.00218 UJ  | < 0.00218 UJ | < 0.00218 UJ      | < 0.00435 UJ | 0.0124 J           | < 0.0109 UJ  | < 0.00218 UJ   | < 0.00218 UJ    | < 0.00218 UJ | < 0.00218 UJ   | 0.00107 J    | < 0.00435 UJ  |
| 3/18/2024                                                         | 2SE at 8 ft         | < 0.00183 UJ               | < 0.00183 UJ               | 0.00646 J    | < 0.00183 UJ       | 0.152 J  | 0.00052 J    | 0.00064 J        | < 0.00183 UJ  | < 0.00183 UJ | < 0.00183 UJ      | < 0.00367 UJ | < 0.00917 UJ       | < 0.00917 UJ | < 0.00183 UJ   | < 0.00183 UJ    | < 0.00183 UJ | < 0.00183 UJ   | 0.00057 J    | < 0.00367 UJ  |
| 3/18/2024                                                         | 2SW at 4 ft         | < 0.00130 UJ               | < 0.00130 UJ               | < 0.00652 UJ | < 0.00130 UJ       | 0.0474 J | < 0.00130 UJ | < 0.00130 UJ     | < 0.00130 UJ  | < 0.00130 UJ | < 0.00130 UJ      | < 0.00261 UJ | 0.0519 J           | < 0.00652 UJ | < 0.00130 UJ   | < 0.00130 UJ    | < 0.00130 UJ | < 0.00130 UJ   | < 0.00130 UJ | < 0.00261 UJ  |
| 3/18/2024                                                         | 2SW at 8 ft         | < 0.00115 UJ               | < 0.00115 UJ               | 0.00307 J    | < 0.00115 UJ       | 0.0645 J | < 0.00115 UJ | 0.00380 J        | < 0.00115 UJ  | < 0.00115 UJ | < 0.00115 UJ      | < 0.00231 UJ | < 0.00576 UJ       | < 0.00576 UJ | < 0.00115 UJ   | < 0.00115 UJ    | < 0.00115 UJ | < 0.00115 UJ   | 0.00031 J    | < 0.00231 UJ  |
| 3/19/2024                                                         | 2W at 4 ft          | < 0.00120 U                | < 0.00120 U                | 0.00524 J    | < 0.00120 U        | 0.166    | 0.00036 J    | 0.00348          | < 0.00120 U   | < 0.00120 U  | < 0.00120 U       | < 0.00240 U  | < 0.00600 U        | < 0.00600 U  | < 0.00120 U    | < 0.00120 U     | < 0.00120 U  | < 0.00120 U    | < 0.00120 U  | < 0.00240 U   |
| 3/19/2024                                                         | 2W at 8 ft          | < 0.00150 U                | < 0.00150 U                | 0.00723 J    | < 0.00150 U        | 0.102    | < 0.00150 U  | 0.00096 J        | < 0.00150 U   | < 0.00150 U  | < 0.00150 U       | < 0.00301 U  | < 0.00752 U        | < 0.00752 U  | < 0.00150 U    | < 0.00150 U     | < 0.00150 U  | < 0.00150 U    | < 0.00150 U  | < 0.00301 U   |
| 3/19/2024                                                         | DUP01 (1NW at 4 ft) | 0.0855 J                   | 0.0259 J                   | < 0.0103 UJ  | 0.0131 J           | 0.6 J    | 0.00054 J    | < 0.00205 UJ     | < 0.00205 UJ  | 0.00888 J    | 0.00411 J         | 0.0315 J     | < 0.0103 UJ        | 0.136 J      | 0.00728 J      | 0.00717 J       | 0.0229 J     | 0.00406 J      | 0.00935 J    | 0.0544 J      |

Notes

All analyses run via method SW8260D

All results reported in mg/kg

Screening levels obtained from CLARC tables (Ecology 2024)

Red highlight indicates exceedance of one or more screening levels

Abbreviations

-- = not listed

mg/kg = milligrams per kilogram

VOCs = volatile organic compounds

Qualifier Definitions

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample

U = The analyte was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 5-3 - SVOCs in Soil, All Detections  
Boeing Renton Apron R Investigation

|                                                                   | 1-<br>Methylnaphthalene | 2-<br>Methylnaphthalene | 4-Methylphenol | Acenaphthene | Anthracene  | Benzo(a)anthracene | Benzo(a)pyrene | Benzo(a)pyrene TEQ <sup>1</sup> | Benzo(g,h,i)perylene | Benzoic Acid | Benzyl Alcohol | bis(2-Ethylhexyl)<br>phthalate | Carbazole   | Chrysene    | Dibenzofuran | Di-n-Butylphthalate | Fluoranthene | Fluorene    | Indeno(1,2,3-cd)<br>pyrene | Isophorone  | Naphthalene | Phenanthrene | Phenol      | Pyrene      | Total<br>Benzofluoranthenes |             |
|-------------------------------------------------------------------|-------------------------|-------------------------|----------------|--------------|-------------|--------------------|----------------|---------------------------------|----------------------|--------------|----------------|--------------------------------|-------------|-------------|--------------|---------------------|--------------|-------------|----------------------------|-------------|-------------|--------------|-------------|-------------|-----------------------------|-------------|
| Soil Method A Unrestricted Land Use (Table 740-1)                 | --                      | --                      | --             | --           | --          | --                 | 0.1            | 0.1                             | --                   | --           | --             | --                             | --          | --          | --           | --                  | --           | --          | --                         | --          | 5           | --           | --          | --          | --                          |             |
| Soil Method B Direct Contact Noncancer (Eq. 740-1)                | 5600                    | 320                     | --             | 4800         | 24000       | --                 | 24             | 24                              | --                   | 320000       | 8000           | 1600                           | --          | --          | 80           | 8000                | 3200         | 3200        | --                         | 16000       | 1600        | --           | 24000       | 2400        |                             |             |
| Soil Method B Direct Contact Cancer (Eq. 740-2)                   | 20                      | --                      | --             | --           | --          | --                 | 0.19           | 0.19                            | --                   | --           | --             | 71                             | --          | --          | --           | --                  | --           | --          | --                         | 1100        | --          | --           | --          | --          |                             |             |
| Soil Method C Direct Contact Noncancer (Eq. 745-1)                | 250000                  | 14000                   | --             | 210000       | 1100000     | --                 | 1100           | 1100                            | --                   | 14000000     | 350000         | 70000                          | --          | --          | 3500         | --                  | 140000       | 140000      | --                         | 700000      | 70000       | --           | 1100000     | 110000      |                             |             |
| Soil Method C Direct Contact Cancer (Eq. 745-2)                   | 2600                    | --                      | --             | --           | --          | --                 | 130            | 130                             | --                   | --           | --             | 9400                           | --          | --          | --           | 350000              | --           | --          | --                         | 140000      | --          | --           | --          | --          |                             |             |
| Soil Protective of Groundwater Saturated (Eq. 747-1) see guidance | 0.0024                  | 0.088                   | --             | 2.5          | 57          | --                 | 0.19           | 0.19                            | --                   | 18           | 0.49           | 0.67                           | --          | --          | 0.076        | 3                   | 32           | 2.6         | --                         | 0.032       | 0.24        | --           | 2.3         | 16          |                             |             |
| Location                                                          | Date                    | Date                    | Date           | Date         | Date        | Date               | Date           | Date                            | Date                 | Date         | Date           | Date                           | Date        | Date        | Date         | Date                | Date         | Date        | Date                       | Date        | Date        | Date         | Date        | Date        |                             |             |
| 3/19/2024                                                         | 1NE at 4 ft             | < 0.0200 U              | < 0.0200 U     | < 0.0200 U   | < 0.0200 U  | 0.0097 J           | 0.0064 J       | 0.0101                          | < 0.0200 U           | < 0.2 UJ     | < 0.0200 U     | < 0.0499 U                     | < 0.0200 UJ | 0.0124 J    | < 0.0200 U   | < 0.0200 U          | 0.0190 J     | < 0.0200 U  | < 0.0200 U                 | < 0.0200 U  | < 0.0200 U  | < 0.0200 U   | < 0.0200 U  | 0.0256      | < 0.0399 U                  |             |
| 3/19/2024                                                         | 1NE at 8 ft             | < 0.0200 U              | < 0.0200 U     | < 0.0200 U   | < 0.0200 U  | < 0.0200 U         | < 0.0200 U     | < 0.0200 U                      | < 0.0200 U           | 0.104 J      | < 0.0200 U     | < 0.0500 U                     | < 0.0200 UJ | < 0.0200 U  | < 0.0200 U   | < 0.0200 U          | < 0.0200 U   | < 0.0200 U  | < 0.0200 U                 | < 0.0200 U  | 0.0094 J    | < 0.0200 U   | < 0.0200 U  | < 0.0400 U  | < 0.0400 U                  |             |
| 3/19/2024                                                         | 1NW at 4 ft             | 21.7 J                  | 31.7 J         | < 0.499 U    | 5.86 J      | 4.82 J             | 3.56 J         | 2.88 J                          | 3.532                | 0.441 J      | < 0.499 U      | < 0.499 U                      | < 0.499 U   | < 0.499 U   | < 0.499 U    | < 0.499 U           | 2.55 J       | 5.99 J      | < 0.499 U                  | < 0.499 U   | 2.65 J      | 1.4 J        | < 0.499 U   | 10.7 J      | 2.00                        |             |
| 3/19/2024                                                         | 1NW at 8 ft             | 0.0143 J                | 0.0233         | < 0.0199 U   | < 0.0199 U  | < 0.0199 U         | < 0.0199 U     | < 0.0199 U                      | < 0.0199 U           | < 0.0199 U   | < 0.0199 U     | < 0.0199 U                     | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U   | < 0.0199 U          | < 0.0199 U   | < 0.0199 U  | < 0.0199 U                 | < 0.0199 U  | 0.0053 J    | 0.0131 J     | 0.0468      | 0.0288 J    | < 0.0399 U                  |             |
| 3/19/2024                                                         | 1SE at 4 ft             | 1.11 J                  | 1.39 J         | < 0.0997 U   | 0.281 J     | 0.569 J            | 0.596 J        | 0.458 J                         | 0.5924               | < 0.0997 UJ  | < 0.997 UJ     | < 0.0997 UJ                    | < 0.249 UJ  | < 0.0997 UJ | < 0.0997 UJ  | < 0.0997 UJ         | 0.587 J      | 0.543 J     | < 0.0997 UJ                | < 0.0997 UJ | 0.0605 J    | 1.8 J        | < 0.0997 UJ | 1.33 J      | 0.583 J                     |             |
| 3/19/2024                                                         | 1SE at 8 ft             | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ        | < 0.0199 UJ    | < 0.0199 UJ                     | < 0.0199 UJ          | 0.0792 J     | < 0.0199 UJ    | < 0.0199 UJ                    | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ         | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ | < 0.0398 UJ                 |             |
| 3/19/2024                                                         | 1SW at 4 ft             | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | 0.0131 J    | 0.0199 J           | 0.0117 J       | < 0.0199 UJ                     | 0.0061               | < 0.0199 UJ  | < 0.199 UJ     | < 0.0199 UJ                    | 0.0277 J    | < 0.0199 UJ | < 0.0152 J   | < 0.0199 UJ         | < 0.0199 UJ  | 0.134 J     | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | 0.0052 J     | 0.0608 J    | 0.0863 J    | < 0.0399 UJ                 | < 0.0399 UJ |
| 3/19/2024                                                         | 1SW at 8 ft             | 0.0080 J                | 0.0092 J       | < 0.0200 UJ  | < 0.0200 UJ | < 0.0200 UJ        | < 0.0200 UJ    | < 0.0200 UJ                     | 0.0051               | < 0.0200 UJ  | 0.0840 J       | < 0.0200 UJ                    | < 0.0500 UJ | < 0.0200 UJ | < 0.0200 UJ  | < 0.0200 UJ         | < 0.0200 UJ  | 0.0076 J    | < 0.0200 UJ                | < 0.0200 UJ | < 0.0200 UJ | 0.0150 J     | < 0.0200 UJ | 0.0137 J    | < 0.0400 UJ                 | < 0.0400 UJ |
| 3/19/2024                                                         | 2E at 4 ft              | 0.0055 J                | 0.0073 J       | < 0.0199 U   | < 0.0199 U  | < 0.0199 U         | < 0.0199 U     | < 0.0199 U                      | < 0.0199 U           | < 0.0199 U   | < 0.0199 U     | < 0.0199 U                     | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U   | < 0.0199 U          | < 0.0199 U   | < 0.0199 U  | < 0.0199 U                 | < 0.0199 U  | < 0.0199 UJ | < 0.0199 UJ  | 0.0128 J    | < 0.0398 UJ | < 0.0398 UJ                 |             |
| 3/19/2024                                                         | 2E at 8 ft              | 0.0061 J                | 0.0171 J       | < 0.0200 U   | 0.0118 J    | < 0.0200 U         | < 0.0200 U     | < 0.0200 U                      | 0.0051               | < 0.0200 U   | < 0.2 UJ       | < 0.0200 U                     | < 0.0499 UJ | < 0.0200 U  | 0.0068 J     | 0.0161 J            | < 0.0200 U   | 0.0136 J    | < 0.0200 U                 | < 0.0200 U  | < 0.0200 U  | 0.0097 J     | 0.0323      | < 0.0200 UJ | 0.0160 J                    | < 0.0399 UJ |
| 3/19/2024                                                         | 2NE at 4 ft             | < 0.0996 UJ             | < 0.0996 UJ    | < 0.0996 UJ  | < 0.0996 UJ | < 0.0996 UJ        | < 0.0996 UJ    | < 0.0996 UJ                     | 0.0256               | < 0.0996 UJ  | < 0.996 UJ     | < 0.0996 UJ                    | 1.69 J      | < 0.0996 UJ | 0.0411 J     | < 0.0996 UJ         | 0.0363 J     | 0.0515 J    | < 0.0996 UJ                | < 0.0996 UJ | < 0.0996 UJ | < 0.0996 UJ  | < 0.0996 UJ | 0.0638 J    | < 0.199 UJ                  | < 0.199 UJ  |
| 3/19/2024                                                         | 2NE at 8 ft             | < 0.0200 U              | 0.0046 J       | < 0.0200 U   | 0.0083 J    | 0.0076 J           | < 0.0200 U     | < 0.0200 U                      | 0.0051               | < 0.0200 U   | < 0.2 UJ       | < 0.0200 U                     | 0.0159 J    | < 0.0200 UJ | < 0.0200 U   | < 0.0200 U          | < 0.0200 U   | 0.0176 J    | < 0.0200 U                 | < 0.0200 U  | < 0.0200 U  | 0.0394       | < 0.0200 UJ | 0.0194 J    | < 0.0399 UJ                 | < 0.0399 UJ |
| 3/19/2024                                                         | 2NW at 4 ft             | 0.734                   | 0.921          | < 0.0199 U   | 0.203       | 0.295              | 0.198          | 0.12                            | 0.1467               | 0.0322       | < 0.199 UJ     | < 0.0199 U                     | < 0.0497 UJ | < 0.0199 UJ | 0.425        | < 0.0199 U          | < 0.0199 U   | 0.233       | < 0.0199 U                 | < 0.0199 U  | < 0.0199 U  | 0.853        | < 0.0199 UJ | 0.856       | < 0.0398 UJ                 | < 0.0398 UJ |
| 3/19/2024                                                         | 2NW at 8 ft             | < 0.0200 U              | 0.0061 J       | < 0.0200 UJ  | < 0.0200 UJ | < 0.0200 UJ        | < 0.0200 UJ    | < 0.0200 UJ                     | 0.0051               | < 0.0200 UJ  | 0.0847 J       | < 0.0200 UJ                    | 0.0181 J    | < 0.0200 UJ | 0.0082 J     | < 0.0200 UJ         | 0.0199 J     | 0.0199 J    | < 0.0200 UJ                | < 0.0200 UJ | < 0.0200 UJ | 0.0127 J     | < 0.0200 UJ | 0.0116 J    | < 0.0400 UJ                 | < 0.0400 UJ |
| 3/19/2024                                                         | 2SE at 4 ft             | 0.0067 J                | 0.0154 J       | 0.0170 J     | 0.0059 J    | 0.0110 J           | 0.0127 J       | 0.188 J                         | 0.169                | < 0.0199 UJ  | 0.0955 J       | < 0.0199 UJ                    | 0.0169 J    | < 0.0199 UJ | 0.0235 J     | 0.0416 J            | < 0.0199 UJ  | 0.0235 J    | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | 0.0246 J     | 0.0719 J    | < 0.0199 UJ | 0.0450 J                    | 0.0576 J    |
| 3/19/2024                                                         | 2SE at 8 ft             | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ        | < 0.0199 UJ    | < 0.0199 UJ                     | 0.0051               | < 0.0199 UJ  | 0.126 J        | < 0.0199 UJ                    | < 0.0499 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ         | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ | < 0.0399 UJ                 | < 0.0399 UJ |
| 3/19/2024                                                         | 2SW at 4 ft             | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ        | < 0.0199 UJ    | < 0.0199 UJ                     | 0.0051               | < 0.0199 UJ  | < 0.199 UJ     | < 0.0199 UJ                    | < 0.0497 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ         | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ | 0.0057 J                    | < 0.0398 UJ |
| 3/19/2024                                                         | 2SW at 8 ft             | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ        | < 0.0199 UJ    | < 0.0199 UJ                     | 0.0532 J             | 0.0563       | < 0.0199 UJ    | < 0.0199 UJ                    | < 0.0499 UJ | < 0.0199 UJ | 0.0156 J     | < 0.0199 UJ         | < 0.0199 UJ  | 0.0268 J    | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ | 0.0420 J                    | < 0.0399 UJ |
| 3/19/2024                                                         | 2W at 4 ft              | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ        | < 0.0199 UJ    | < 0.0199 UJ                     | 0.0063 J             | 0.0094       | < 0.0199 UJ    | < 0.0199 UJ                    | < 0.0199 UJ | < 0.0199 UJ | 0.0132 J     | < 0.0199 UJ         | < 0.0199 UJ  | 0.0167 J    | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ | 0.0248                      | < 0.0399 UJ |
| 3/19/2024                                                         | 2W at 8 ft              | < 0.0199 UJ             | < 0.0199 UJ    | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ        | < 0.0199 UJ    | < 0.0199 UJ                     | 0.0051               | < 0.0199 UJ  | < 0.199 UJ     | < 0.0199 UJ                    | < 0.0497 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ         | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ                | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ                 | < 0.0398 UJ |
| 3/19/2024                                                         | DUPO1 (DNW at 4 ft)     | 5.5 J                   | 8.05 J         | < 0.0199 R   | 1.08 J      | 1.03 J             | 1.22 J         | 0.591 J                         | 0.738                | 0.204 J      | < 0.199 R      | < 0.0199 UJ                    | < 0.0498 UJ | 0.239 J     | 1.58 J       | < 0.0199 UJ         | < 0.0199 UJ  | 0.797 J     | 1.01 J                     | 0.0729 J    | 0.0917 J    | 0.63 J       | 3.89 J      | < 0.0199 R  | 3.57 J                      | < 0.0399 UJ |

Notes

All analyses run via method SW8270E  
All results reported in mg/kg  
Screening levels obtained from CLARIC tables (Ecology 2024)  
Red highlight indicates exceedance of one or more screening levels

1. TEQ values calculated using Washington State Department of Ecology Implementation Memo 10 (Ecology, 2015), Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs). Publication No. 15-09-049 (April 2015).

Abbreviations

-- = not listed  
mg/kg = milligram per kilogram  
SVOCs = semivolatile organic compounds  
TEQ = Toxicity Equivalent  
Qualifier Definitions  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample  
U = The analyte was not detected above the reported sample quantitation limit.  
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.  
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.



Table 5-4  
Listing of CLARC Values for Analytes with Detections in Soil  
Boeing Renton Apron R Investigation

| Chemical Name               | Soil Method A<br>Unrestricted<br>Land Use<br>(Table 740-1)<br>(mg/kg) | Soil Method B<br>Direct<br>Contact<br>Noncancer<br>(Eq. 740-1)<br>(mg/kg) | Soil Method B<br>Direct<br>Contact<br>Cancer<br>(Eq. 740-2)<br>(mg/kg) | Soil Method C<br>Direct<br>Contact<br>Noncancer<br>(Eq. 745-1)<br>(mg/kg) | Soil Method C<br>Direct<br>Contact<br>Cancer<br>(Eq. 745-2)<br>(mg/kg) | Soil Protective of<br>Groundwater<br>Saturated<br>(Eq. 747-1)<br>see guidance<br>(mg/kg) | Sample Location with<br>highest detection | Highest<br>detection -<br>March 2024<br>(mg/kg) |
|-----------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|
| Acenaphthene                | --                                                                    | 4,800                                                                     | --                                                                     | 210,000                                                                   | --                                                                     | 2.5                                                                                      | 1NW at 4 ft                               | 5.55 J                                          |
| Acetone                     | --                                                                    | 72,000                                                                    | --                                                                     | 3,200,000                                                                 | --                                                                     | 2.10                                                                                     | DUP01 (1NW at 4 ft)                       | 0.6 J                                           |
| Anthracene                  | --                                                                    | 24,000                                                                    | --                                                                     | 1,100,000                                                                 | --                                                                     | 57.00                                                                                    | 1NW at 4 ft                               | 4.82 J                                          |
| Benzene                     | 0.030                                                                 | 320                                                                       | 18                                                                     | 14,000                                                                    | 2,400                                                                  | 0.0017                                                                                   | 1NW at 4 ft                               | 0.00092 J                                       |
| Benzo(a)pyrene              | 0.10                                                                  | 24                                                                        | 0.19                                                                   | 1,100                                                                     | 130                                                                    | 0.19                                                                                     | 1NW at 4 ft                               | 2.88 J                                          |
| Benzo(a)pyrene TEQ          | 0.10                                                                  | 24                                                                        | 0.19                                                                   | 1,100                                                                     | 130                                                                    | 0.19                                                                                     | 1NW at 4 ft                               | 3.532                                           |
| Benzoic acid                | --                                                                    | 320,000                                                                   | --                                                                     | 14,000,000                                                                | --                                                                     | 18.00                                                                                    | 1NW at 8 ft                               | 0.531 J                                         |
| Benzyl alcohol              | --                                                                    | 8,000                                                                     | --                                                                     | 350,000                                                                   | --                                                                     | 0.49                                                                                     | 1NW at 8 ft                               | 0.0435                                          |
| Bis(2-ethylhexyl) phthalate | --                                                                    | 1,600                                                                     | 71                                                                     | 70,000                                                                    | 9,400                                                                  | 0.67                                                                                     | 2NE at 4 ft                               | 1.69 J                                          |
| Carbon disulfide            | --                                                                    | 8,000                                                                     | --                                                                     | 350,000                                                                   | --                                                                     | 0.25                                                                                     | 2SW at 8 ft                               | 0.00380 J                                       |
| Dibenzofuran                | --                                                                    | 80                                                                        | --                                                                     | 3,500                                                                     | --                                                                     | 0.076                                                                                    | 2E at 8 ft                                | 0.0161 J                                        |
| Di-n-butylphthalate         | --                                                                    | 8,000                                                                     | --                                                                     | --                                                                        | 350000                                                                 | 3.00                                                                                     | 2SE at 4 ft                               | 0.0235 J                                        |
| Ethylbenzene                | 6.0                                                                   | 8,000                                                                     | --                                                                     | 350,000                                                                   | --                                                                     | 0.34                                                                                     | 1NW at 4 ft                               | 0.011                                           |
| Fluoranthene                | --                                                                    | 3,200                                                                     | --                                                                     | 140,000                                                                   | --                                                                     | 32.00                                                                                    | 1NW at 4 ft                               | 2.55 J                                          |
| Fluorene                    | --                                                                    | 3,200                                                                     | --                                                                     | 140,000                                                                   | --                                                                     | 2.6                                                                                      | 1NW at 4 ft                               | 5.09 J                                          |
| Isophorone                  | --                                                                    | 16,000                                                                    | 1100                                                                   | 700,000                                                                   | 140,000                                                                | 0.032                                                                                    | DUP01 (1NW at 4 ft)                       | 0.0917 J                                        |
| Methyl ethyl ketone         | --                                                                    | 48,000                                                                    | --                                                                     | 2,100,000                                                                 | --                                                                     | 1.40                                                                                     | 1NE at 8 ft                               | 0.0135                                          |
| Methylene chloride          | 0.020                                                                 | 480                                                                       | 94                                                                     | 21,000                                                                    | 66,000                                                                 | 0.0015                                                                                   | 1SE at 8 ft                               | 0.117 J                                         |
| 1-Methylnaphthalene         | --                                                                    | 5,600                                                                     | 20                                                                     | 250,000                                                                   | 2,600                                                                  | 0.0024                                                                                   | 1NW at 4 ft                               | 21.7 J                                          |
| 2-Methylnaphthalene         | --                                                                    | 320                                                                       | --                                                                     | 14,000                                                                    | --                                                                     | 0.0880                                                                                   | 1NW at 4 ft                               | 31.7 J                                          |
| Naphthalene                 | 5.0                                                                   | 1,600                                                                     | --                                                                     | 70,000                                                                    | --                                                                     | 0.24                                                                                     | 1NW at 4 ft                               | 2.65 J                                          |
| n-Butylbenzene              | --                                                                    | 4,000                                                                     | --                                                                     | 180,000                                                                   | --                                                                     | 0.71                                                                                     | DUP01 (1NW at 4 ft)                       | 0.00728 J                                       |
| n-Propylbenzene             | --                                                                    | 8,000                                                                     | --                                                                     | 350,000                                                                   | --                                                                     | 0.88                                                                                     | DUP01 (1NW at 4 ft)                       | 0.00717 J                                       |
| Phenol                      | --                                                                    | 24,000                                                                    | --                                                                     | 1,100,000                                                                 | --                                                                     | 2.30                                                                                     | 1NW at 8 ft                               | 0.0468                                          |
| Pyrene                      | --                                                                    | 2,400                                                                     | --                                                                     | 110,000                                                                   | --                                                                     | 16                                                                                       | 1NW at 4 ft                               | 10.7 J                                          |
| s-Butylbenzene              | --                                                                    | 8,000                                                                     | --                                                                     | 350,000                                                                   | --                                                                     | 1                                                                                        | DUP01 (1NW at 4 ft)                       | 0.00406 J                                       |
| Toluene                     | 7.0                                                                   | 6,400                                                                     | --                                                                     | 280,000                                                                   | --                                                                     | 0.27                                                                                     | 1NW at 4 ft                               | 0.0135 J                                        |
| TPH, diesel range organics  | 2,000                                                                 | --                                                                        | --                                                                     | --                                                                        | --                                                                     | --                                                                                       | 1NW at 4 ft                               | 24900                                           |
| TPH, heavy oils             | 2,000                                                                 | --                                                                        | --                                                                     | --                                                                        | --                                                                     | --                                                                                       | DUP01 (1NW at 4 ft)                       | 26100 J                                         |
| Trimethylbenzene;1,2,4-     | --                                                                    | 800                                                                       | --                                                                     | 35,000                                                                    | --                                                                     | 0.072                                                                                    | DUP01 (1NW at 4 ft)                       | 0.0855 J                                        |
| Trimethylbenzene;1,3,5-     | --                                                                    | 800                                                                       | --                                                                     | 35,000                                                                    | --                                                                     | 0.071                                                                                    | DUP01 (1NW at 4 ft)                       | 0.0259 J                                        |
| Xylene;m-                   | --                                                                    | 16,000                                                                    | --                                                                     | 700,000                                                                   | --                                                                     | 0.77                                                                                     | 1NW at 4 ft                               | 0.038                                           |
| Xylene;o-                   | --                                                                    | 16,000                                                                    | --                                                                     | 700,000                                                                   | --                                                                     | 0.84                                                                                     | 1NW at 4 ft                               | 0.0275                                          |
| Xylene;p-                   | --                                                                    | 16,000                                                                    | --                                                                     | 700,000                                                                   | --                                                                     | 0.96                                                                                     | 1NW at 4 ft                               | 0.038                                           |
| Xylenes                     | 9.0                                                                   | 16,000                                                                    | --                                                                     | 700,000                                                                   | --                                                                     | 0.83                                                                                     | 1NW at 4 ft                               | 0.0655                                          |

**Abbreviations**

mg/kg = milligrams per kilogram

TPH = total petroleum hydrocarbons

Table 5-5 - TPH in Groundwater, All Detections  
Boeing Renton Apron R Investigation

|                                                                                                                           |                     | Diesel Range Organics<br>(C12-C24) | Heavy Oil Range<br>Organics (C24-C38) | Sum of Diesel and<br>Heavy Range Organics<br>(C12-C38) |
|---------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------|---------------------------------------|--------------------------------------------------------|
| Ground Water Method A (Table 720-1)                                                                                       |                     | 500                                | 500                                   | 500                                                    |
| TPH - Concentrations Protective of Aquatic Receptors in Surface Water from<br>Ecology Implementation Memo 23 <sup>1</sup> |                     | 3000                               | 3000                                  | 3000                                                   |
| Date                                                                                                                      | Location            |                                    |                                       |                                                        |
| 3/19/2024                                                                                                                 | 1NE at 4 ft         | 239 J+                             | < 200 U                               | 239 J+                                                 |
| 3/19/2024                                                                                                                 | 1NE at 8 ft         | 436 J+                             | < 200 U                               | 436 J+                                                 |
| 3/19/2024                                                                                                                 | 1NW at 4 ft         | 311 J+                             | 730                                   | 1,041 J+                                               |
| 3/19/2024                                                                                                                 | 1NW at 8 ft         | 2860 J+                            | 3240                                  | 6,100 J+                                               |
| 3/18/2024                                                                                                                 | 1SE at 4 ft         | 171 J+                             | < 200 UJ                              | 171 J+                                                 |
| 3/18/2024                                                                                                                 | 1SE at 8 ft         | 940 J+                             | 845 J                                 | 1,785 J+                                               |
| 3/18/2024                                                                                                                 | 1SW at 4 ft         | 319 J+                             | 362 J                                 | 681 J+                                                 |
| 3/18/2024                                                                                                                 | 1SW at 8 ft         | 216 J+                             | < 200 UJ                              | 216 J+                                                 |
| 3/19/2024                                                                                                                 | 2E at 8 ft          | 171 J+                             | 295                                   | 466 J+                                                 |
| 3/19/2024                                                                                                                 | 2NW at 8 ft         | 463 J+                             | 571                                   | 1,034 J+                                               |
| 3/18/2024                                                                                                                 | 2SE at 8 ft         | 111 J+                             | < 200 UJ                              | 111 J+                                                 |
| 3/18/2024                                                                                                                 | 2SW at 4 ft         | 281 J+                             | 610 J                                 | 891 J+                                                 |
| 3/18/2024                                                                                                                 | 2SW at 8 ft         | 119 J+                             | < 200 UJ                              | 119 J+                                                 |
| 3/19/2024                                                                                                                 | 2W at 4 ft          | 147 J+                             | 375                                   | 522 J+                                                 |
| 3/19/2024                                                                                                                 | 2W at 8 ft          | 124 J+                             | < 200 U                               | 124 J+                                                 |
| 3/19/2024                                                                                                                 | DUP01 (1NW at 4 ft) | 333 J+                             | 821 J                                 | 1,154 J+                                               |

Notes

All analyses run via method NWTPH-DX

All results report in µg/L

Screening levels obtained from CLARC tables (Ecology 2024)

Sum of DRO and HRO includes only detected results

Red highlight indicates exceedance of one or more screening levels

1. There are no published state (173-201A) or federal (CWA 304) surface water aquatic life protective criteria for TPH. In their absence, protective concentrations were derived from studies published by Ecology's Environmental Assessment Program, and published in Implementation Memo #23 (IM 23). Ecology's IM 23 provides gasoline and diesel range organic concentrations that are protective of aquatic receptors in marine and fresh surface waters. Protective values are provided for TPH, benzene, ethylbenzene, toluene, and xylenes (BTEX). These values can be applied at any MTCA cleanup site.

Abbreviations

-- = not listed

µg/L = micrograms per liter

TPH = total petroleum hydrocarbons

Qualifier Definitions

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The reported value was an estimated value with a positive bias.

U = The analyte was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Table 5-6 - VOCs in Groundwater, All Detections  
Boeing Renton Apron R Investigation

|                                                             |                     | 4-Isopropyl Toluene | Acetone   | Benzene   | Carbon Disulfide | Naphthalene | Toluene   |
|-------------------------------------------------------------|---------------------|---------------------|-----------|-----------|------------------|-------------|-----------|
| Surface Water Method B Noncancer (Eq. 730-1)                |                     | --                  | --        | 2000      | --               | 4900        | 19000     |
| Surface Water Method B Cancer (Eq. 730-2)                   |                     | --                  | --        | 23        | --               | --          | --        |
| Surface Water Human Health Fresh Water 173-201A WAC         |                     | --                  | --        | 0.44      | --               | --          | 180       |
| Surface Water Human Health Fresh Water 40 CFR 131.45        |                     | --                  | --        | --        | --               | --          | 72        |
| Surface Water Human Health Fresh Water CWA §304             |                     | --                  | --        | 0.58      | --               | --          | 57        |
| Ground Water Method A (Table 720-1)                         |                     | --                  | --        | 5         | --               | 160         | 1000      |
| Ground Water Method B Noncancer (Eq. 720-1)                 |                     | --                  | 7200      | 32        | 800              | 160         | 640       |
| Ground Water Method B Cancer (Eq. 720-2)                    |                     | --                  | --        | 0.8       | --               | --          | --        |
| Ground Water WA State Maximum Contaminant Level 246-290 WAC |                     | --                  | --        | 5         | --               | --          | 1000      |
| Date                                                        | Location            |                     |           |           |                  |             |           |
| 3/19/2024                                                   | 1NE at 4 ft         | < 0.20 U            | 6.69      | < 0.20 U  | 0.12 J           | < 0.50 U    | 0.06 J    |
| 3/19/2024                                                   | 1NE at 8 ft         | < 0.20 U            | < 5.00 U  | < 0.20 U  | < 0.20 U         | < 0.50 U    | < 0.20 U  |
| 3/19/2024                                                   | 1NW at 4 ft         | < 0.20 U            | < 5.00 U  | < 0.20 U  | < 0.20 U         | < 0.50 U    | < 0.20 U  |
| 3/19/2024                                                   | 1NW at 8 ft         | 0.08 J              | 2.11 J    | < 0.20 U  | < 0.20 U         | < 0.50 U    | 0.05 J    |
| 3/18/2024                                                   | 1SE at 4 ft         | < 0.20 UJ           | < 5.00 UJ | < 0.20 UJ | < 0.20 UJ        | < 0.50 UJ   | 0.08 J    |
| 3/18/2024                                                   | 1SE at 8 ft         | < 0.20 UJ           | 3.19 J    | < 0.20 UJ | 0.15 J           | 0.37 J      | 0.08 J    |
| 3/18/2024                                                   | 1SW at 4 ft         | < 0.20 UJ           | 2.67 J    | < 0.20 UJ | 0.08 J           | < 0.50 UJ   | < 0.20 UJ |
| 3/18/2024                                                   | 1SW at 8 ft         | < 0.20 UJ           | 2.60 J    | < 0.20 UJ | < 0.20 UJ        | < 0.50 UJ   | < 0.20 UJ |
| 3/19/2024                                                   | 2E at 8 ft          | < 0.20 U            | 3.32 J    | < 0.20 U  | 0.17 J           | < 0.50 U    | 0.06 J    |
| 3/19/2024                                                   | 2NW at 8 ft         | 0.33                | 3.55 J    | < 0.20 U  | < 0.20 U         | 1.46        | 0.05 J    |
| 3/18/2024                                                   | 2SE at 8 ft         | < 0.20 UJ           | < 5.00 UJ | < 0.20 UJ | < 0.20 UJ        | < 0.50 UJ   | < 0.20 UJ |
| 3/18/2024                                                   | 2SW at 4 ft         | < 0.20 UJ           | 6.96 J    | 0.06 J    | 0.15 J           | < 0.50 UJ   | 0.10 J    |
| 3/18/2024                                                   | 2SW at 8 ft         | < 0.20 UJ           | 4.03 J    | < 0.20 UJ | 0.16 J           | < 0.50 UJ   | 0.05 J    |
| 3/19/2024                                                   | 2W at 4 ft          | < 0.20 U            | 5.87      | < 0.20 U  | < 0.20 U         | < 0.50 U    | 0.05 J    |
| 3/19/2024                                                   | 2W at 8 ft          | < 0.20 U            | 2.87 J    | < 0.20 U  | 0.08 J           | < 0.50 U    | < 0.20 U  |
| 3/19/2024                                                   | DUP01 (1NW at 4 ft) | < 0.20 UJ           | 2.92 J    | < 0.20 UJ | < 0.20 UJ        | < 0.50 UJ   | < 0.20 UJ |

#### Notes

All analyses run via method SW8260D

All results reported in µg/L

Screening levels obtained from CLARC tables (Ecology 2024)

1. There are no published state (173-201A) or federal (CWA 304) surface water aquatic life protective criteria for TPH. In their absence, protective concentrations were derived from studies published by Ecology's Environmental Assessment Program, and published in Implementation Memo #23 (IM 23). Ecology's IM 23 provides gasoline and diesel range organic concentrations that are protective of aquatic receptors in marine and fresh surface waters. Protective values are provided for TPH, benzene, ethylbenzene, toluene, and xylenes (BTEX). These values can be applied at any MTCA cleanup site.

Red highlight indicates exceedance of one or more screening levels

#### Abbreviations

-- = not listed

µg/L = micrograms per liter

VOCs = volatile organic compounds

#### Qualifier Definitions

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample

U = The analyte was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

concentration of the analyte in the sample

Table 5-7 SVOCs in Groundwater, All Detections  
Boeing Renton Apron R Investigation

|                                                                             |                     | 1-<br>Methylnaphthalene | 2-<br>Methylnaphthalene | Acenaphthene | Benzo(a)anthracene | Benzo(a)pyrene TEQ <sup>2</sup> | Benzoic Acid | bis (2-Ethylhexyl)<br>phthalate | Chrysene | Fluoranthene | Fluorene | Naphthalene | Phenanthrene | Pyrene   |
|-----------------------------------------------------------------------------|---------------------|-------------------------|-------------------------|--------------|--------------------|---------------------------------|--------------|---------------------------------|----------|--------------|----------|-------------|--------------|----------|
| Surface Water Method B Noncancer (Eq. 730-1)                                |                     | --                      | --                      | 640          | --                 | 26                              | --           | 400                             | --       | 90           | 3500     | 4900        | --           | 2600     |
| Surface Water Method B Cancer (Eq. 730-2)                                   |                     | --                      | --                      | --           | --                 | 0.035                           | --           | 3.6                             | --       | --           | --       | --          | --           | --       |
| Surface Water Human Health Fresh Water 173-201A WAC                         |                     | --                      | --                      | 110          | 0.014              | 0.0014                          | --           | 0.23                            | 1.4      | 16           | 420      | --          | --           | 310      |
| Surface Water Human Health Fresh Water 40 CFR 131.45                        |                     | --                      | --                      | 30           | 0.00016            | 0.000016                        | --           | 0.045                           | 0.016    | 6            | 10       | --          | --           | 8        |
| Surface Water Human Health Fresh Water CWA §304                             |                     | --                      | --                      | 70           | 0.0012             | 0.00012                         | --           | 0.32                            | 0.12     | 20           | 50       | --          | --           | 20       |
| Ground Water Method A (Table 720-1)                                         |                     | --                      | --                      | --           | --                 | 0.1                             | --           | --                              | --       | --           | --       | 160         | --           | --       |
| Ground Water Method B Noncancer (Eq. 720-1)                                 |                     | 560                     | 32                      | 480          | --                 | 4.8                             | 64000        | 320                             | --       | 640          | 320      | 160         | --           | 240      |
| Ground Water Method B Cancer (Eq. 720-2)                                    |                     | 0.86                    | --                      | --           | --                 | 0.023                           | --           | 6.3                             | --       | --           | --       | --          | --           | --       |
| Ground Water WA State Maximum Contaminant<br>Level 246-290 WAC <sup>1</sup> |                     | --                      | --                      | --           | --                 | 0.2                             | --           | 6                               | --       | --           | --       | --          | --           | --       |
| Date                                                                        | Location            |                         |                         |              |                    |                                 |              |                                 |          |              |          |             |              |          |
| 3/19/2024                                                                   | 1NE at 4 ft         | < 3.0 U                 | < 3.0 U                 | < 3.0 U      | 0.7 J              | 0.633                           | < 60.0 U     | < 9.0 U                         | 0.8 J    | 1.7 J        | < 3.0 U  | < 3.0 U     | < 3.0 U      | 1.6 J    |
| 3/19/2024                                                                   | 1NE at 8 ft         | < 1.0 U                 | < 1.0 U                 | 0.3 J        | < 1.0 U            | 0.181                           | < 20.0 U     | < 3.0 U                         | < 1.0 U  | 0.8 J        | < 1.0 U  | < 1.0 U     | < 1.0 U      | 0.7 J    |
| 3/19/2024                                                                   | 1NW at 4 ft         | 1.2 J                   | 1.5 J                   | < 3.0 U      | < 3.0 U            | 0.593                           | < 60.0 U     | < 9.0 U                         | < 3.0 U  | < 3.0 U      | < 3.0 U  | < 3.0 U     | 0.8 J        | < 3.0 U  |
| 3/19/2024                                                                   | 1NW at 8 ft         | 3.4                     | 3.8                     | 0.7 J        | 0.8 J              | 0.646                           | < 60.0 U     | < 9.0 U                         | 1.1 J    | < 3.0 U      | 0.7 J    | < 3.0 U     | 1.8 J        | 1.5 J    |
| 3/18/2024                                                                   | 1SE at 4 ft         | < 1.0 UJ                | 0.2 J                   | < 1.0 UJ     | < 1.0 UJ           | 0.181                           | < 20.0 UJ    | < 3.0 UJ                        | < 1.0 UJ | < 1.0 UJ     | < 1.0 UJ | < 1.0 UJ    | < 1.0 UJ     | < 1.0 UJ |
| 3/18/2024                                                                   | 1SE at 8 ft         | 0.8 J                   | 0.7 J                   | < 3.0 UJ     | < 3.0 UJ           | 0.593                           | < 60.0 UJ    | < 9.0 UJ                        | < 3.0 UJ | < 3.0 UJ     | < 3.0 UJ | < 3.0 UJ    | 0.8 J        | < 3.0 UJ |
| 3/18/2024                                                                   | 1SW at 4 ft         | < 3.0 UJ                | < 3.0 UJ                | < 3.0 UJ     | < 3.0 UJ           | 0.593                           | < 60.0 UJ    | < 9.0 UJ                        | < 3.0 UJ | < 3.0 UJ     | < 3.0 UJ | < 3.0 UJ    | < 3.0 UJ     | < 3.0 UJ |
| 3/18/2024                                                                   | 1SW at 8 ft         | < 1.0 UJ                | < 1.0 UJ                | < 1.0 UJ     | < 1.0 UJ           | 0.181                           | < 20.0 UJ    | < 3.0 UJ                        | < 1.0 UJ | < 1.0 UJ     | < 1.0 UJ | < 1.0 UJ    | < 1.0 UJ     | < 1.0 UJ |
| 3/19/2024                                                                   | 2E at 8 ft          | < 3.0 U                 | < 3.0 U                 | < 3.0 U      | < 3.0 U            | 0.593                           | < 60.0 U     | 3.0 J                           | < 3.0 U  | < 3.0 U      | < 3.0 U  | < 3.0 U     | < 3.0 U      | < 3.0 U  |
| 3/19/2024                                                                   | 2NW at 8 ft         | < 1.0 U                 | < 1.0 U                 | < 1.0 U      | < 1.0 U            | 0.181                           | < 20.0 U     | 0.5 J                           | < 1.0 U  | < 1.0 U      | < 1.0 U  | 1.0         | < 1.0 U      | < 1.0 U  |
| 3/18/2024                                                                   | 2SE at 8 ft         | < 1.0 UJ                | < 1.0 UJ                | < 1.0 UJ     | < 1.0 UJ           | 0.181                           | 2.8 J        | < 3.0 UJ                        | < 1.0 UJ | < 1.0 UJ     | < 1.0 UJ | < 1.0 UJ    | < 1.0 UJ     | < 1.0 UJ |
| 3/18/2024                                                                   | 2SW at 4 ft         | < 3.0 UJ                | < 3.0 UJ                | < 3.0 UJ     | < 3.0 UJ           | 0.593                           | < 60.0 UJ    | < 9.0 UJ                        | < 3.0 UJ | < 3.0 UJ     | < 3.0 UJ | < 3.0 UJ    | < 3.0 UJ     | < 3.0 UJ |
| 3/18/2024                                                                   | 2SW at 8 ft         | < 1.0 UJ                | < 1.0 UJ                | < 1.0 UJ     | < 1.0 UJ           | 0.181                           | < 20.0 UJ    | < 3.0 UJ                        | < 1.0 UJ | < 1.0 UJ     | < 1.0 UJ | < 1.0 UJ    | 0.2 J        | < 1.0 UJ |
| 3/19/2024                                                                   | 2W at 4 ft          | < 3.0 U                 | < 3.0 U                 | < 3.0 U      | < 3.0 U            | 0.593                           | < 60.0 U     | 1.3 J                           | < 3.0 U  | < 3.0 U      | < 3.0 U  | < 3.0 U     | < 3.0 U      | < 3.0 U  |
| 3/19/2024                                                                   | 2W at 8 ft          | < 1.0 U                 | < 1.0 U                 | < 1.0 U      | < 1.0 U            | 0.181                           | < 20.0 U     | 0.6 J                           | < 1.0 U  | < 1.0 U      | < 1.0 U  | < 1.0 U     | < 1.0 U      | < 1.0 U  |
| 3/19/2024                                                                   | DUP01 (1NW at 4 ft) | < 3.0 UJ                | 1.0 J                   | < 3.0 UJ     | < 3.0 UJ           | 0.593                           | < 60.0 UJ    | < 9.0 UJ                        | < 3.0 UJ | < 3.0 UJ     | < 3.0 UJ | < 3.0 UJ    | < 3.0 UJ     | < 3.0 UJ |

Notes

All analyses run via method SW8270E

All results reported in µg/L

Screening levels obtained from CLARC tables (Ecology 2024)

Red highlight indicates exceedance of one or more screening levels

Light red highlight indicates a calculated benzo(a)pyrene TEQ value which exceeds one or more CLARC values potentially due high-biased skew from using non-detect values not displayed on this table during calculations and technological limitations. See section 5.2 of report text for more details.

1. There are no published state (173-201A) or federal (CWA 304) surface water aquatic life protective criteria for TPH. In their absence, protective concentrations were derived from studies published by Ecology's Environmental Assessment Program, and published in Implementation Memo #23 (IM 23). Ecology's IM 23 provides gasoline and diesel range organic concentrations that are protective of aquatic receptors in marine and fresh surface waters. Protective values are provided for TPH, benzene, ethylbenzene, toluene, and xylenes (BTEX). These values can be applied at any MTCA cleanup site.

2. TEQ values calculated using Washington State Department of Ecology Implementation Memo 10 (Ecology, 2015), Evaluating the Human Health Toxicity of Carcinogenic PAHs (cPAHs) Using Toxicity Equivalency Factors (TEFs). Publication No. 15-09-049 (April 2015).

Abbreviations

-- = not listed

µg/L = micrograms per liter

SVOCs = semivolatile organic compounds

Qualifier Definitions

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample

U = The analyte was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.  
concentration of the analyte in the sample

Table 5-8  
Listing of CLARC Values for Analytes with Detections in Groundwater  
Boeing Apron R Investigation

| Chemical Name                      | Surface Water<br>Method B<br>Noncancer<br>(Eq. 730-1)<br>(µg/L) | Surface Water<br>Method B Cancer<br>(Eq. 730-2)<br>(µg/L) | Surface<br>Water<br>Human Health<br>Fresh Water<br>173-201A WAC<br>(µg/L) | Surface<br>Water<br>Human Health<br>Fresh Water<br>40 CFR 131.45<br>(µg/L) | Surface<br>Water<br>Human Health<br>Fresh Water<br>CWA §304<br>(µg/L) | Ground<br>Water<br>Method A<br>(Table 720-1)<br>(µg/L) | Ground<br>Water<br>Method B<br>Noncancer<br>(Eq. 720-1)<br>(µg/L) | Ground<br>Water<br>Method B<br>Cancer<br>(Eq. 720-2)<br>(µg/L) | Ground<br>Water<br>WA State<br>Maximum<br>Contaminant<br>Level<br>246-290 WAC<br>(µg/L) | TPH - Concentrations<br>Protective of Aquatic<br>Receptors in Surface<br>Water from Ecology<br>Implementation<br>Memo 23<br>Freshwater µg/L | Sample<br>Location with<br>highest<br>detection | Highest<br>detection -<br>March 2024<br>(µg/L) |
|------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| Benzo(a)anthracene                 | --                                                              | --                                                        | 0.014                                                                     | 0.00016                                                                    | 0.0012                                                                | --                                                     | --                                                                | --                                                             | --                                                                                      | --                                                                                                                                          | 1NW at 8 ft                                     | 0.8 J                                          |
| Benzo(a)pyrene (TEQ)               | 26                                                              | 0.035                                                     | 0.0014                                                                    | 0.000016                                                                   | 0.00012                                                               | 0.10                                                   | 4.8                                                               | 0.023                                                          | 0.20                                                                                    | --                                                                                                                                          | 1NW at 8 ft                                     | 0.646                                          |
| Chrysene                           | --                                                              | --                                                        | 1.40                                                                      | 0.016                                                                      | 0.12                                                                  | --                                                     | --                                                                | --                                                             | --                                                                                      | --                                                                                                                                          | 1NW at 8 ft                                     | 1.1 J                                          |
| Acenaphthene                       | 640                                                             | --                                                        | 110                                                                       | 30                                                                         | 70                                                                    | --                                                     | 480                                                               | --                                                             | --                                                                                      | --                                                                                                                                          | 1NW at 8 ft                                     | 0.7 J                                          |
| Fluoranthene                       | 90                                                              | --                                                        | 16                                                                        | 6                                                                          | 20                                                                    | --                                                     | 640                                                               | --                                                             | --                                                                                      | --                                                                                                                                          | 1NE at 4 ft                                     | 1.7 J                                          |
| Fluorene                           | 3,500                                                           | --                                                        | 420                                                                       | 10                                                                         | 50                                                                    | --                                                     | 320                                                               | --                                                             | --                                                                                      | --                                                                                                                                          | 1NW at 8 ft                                     | 0.7 J                                          |
| Methyl naphthalene;1-              | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | --                                                     | 560                                                               | 0.86                                                           | --                                                                                      | --                                                                                                                                          | 1NW at 8 ft                                     | 3.40                                           |
| Methyl naphthalene;2-              | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | --                                                     | 32                                                                | --                                                             | --                                                                                      | --                                                                                                                                          | 1NW at 8 ft                                     | 3.80                                           |
| Naphthalene                        | 4,900                                                           | --                                                        | --                                                                        | --                                                                         | --                                                                    | 160                                                    | 160                                                               | --                                                             | --                                                                                      | --                                                                                                                                          | 2NW at 8 ft                                     | 1.46                                           |
| Pyrene                             | 2,600                                                           | --                                                        | 310                                                                       | 8                                                                          | 20                                                                    | --                                                     | 240                                                               | --                                                             | --                                                                                      | --                                                                                                                                          | 1NE at 4 ft                                     | 1.6 J                                          |
| TPH, diesel range organics         | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | 500                                                    | --                                                                | --                                                             | --                                                                                      | 3,000                                                                                                                                       | 1NW at 8 ft                                     | 2860 J+                                        |
| TPH, heavy oil                     | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | 500                                                    | --                                                                | --                                                             | --                                                                                      | 3,000                                                                                                                                       | 1NW at 8 ft                                     | 3,240                                          |
| Bis(2-ethylhexyl) phthalate (DEHP) | 400                                                             | 3.6                                                       | 0.23                                                                      | 0.045                                                                      | 0.320                                                                 | --                                                     | 320                                                               | 6.3                                                            | 6                                                                                       | --                                                                                                                                          | 2E at 8 ft                                      | 3.0 J                                          |
| Benzoic acid                       | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | --                                                     | 64,000                                                            | --                                                             | --                                                                                      | --                                                                                                                                          | 2SE at 8 ft                                     | 2.8 J                                          |
| Acetone                            | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | --                                                     | 7,200                                                             | --                                                             | --                                                                                      | --                                                                                                                                          | 2SW at 4 ft                                     | 6.96 J                                         |
| Carbon disulfide                   | --                                                              | --                                                        | --                                                                        | --                                                                         | --                                                                    | --                                                     | 800                                                               | --                                                             | --                                                                                      | --                                                                                                                                          | 2E at 8 ft                                      | 0.17 J                                         |
| Benzene                            | 2,000                                                           | 23                                                        | 0.44                                                                      | --                                                                         | 0.580                                                                 | 5                                                      | 32                                                                | 0.80                                                           | 5                                                                                       | 10                                                                                                                                          | 2SW at 4 ft                                     | 0.06 J                                         |
| Toluene                            | 19,000                                                          | --                                                        | 180                                                                       | 72                                                                         | 57                                                                    | 1000                                                   | 640                                                               | --                                                             | 1000                                                                                    | 53                                                                                                                                          | 2SW at 4 ft                                     | 0.10 J                                         |

**Note**

There are no published state (173-201A) or federal (CWA 304) surface water aquatic life protective criteria for TPH. In their absence, protective concentrations were derived from studies published by Ecology's Environmental Assessment Program, and published in Implementation Memo #23 (IM 23). Ecology's IM 23 provides gasoline and diesel range organic concentrations that are protective of aquatic receptors in marine and fresh surface waters. Protective values are provided for TPH, benzene, ethylbenzene, toluene, and xylenes (BTEX). These values can be applied at any MTCA cleanup site.

**Abbreviations**

µg/L = micrograms per liter

TPH = total petroleum hydrocarbons

# FIGURES





LAKE WASHINGTON

APRON R AREA

DEPARTMENT OF NATURAL  
RESOURCES PARCEL

AOC-001, 002

AOC-003

4-82 BLDG.

RCRA FACILITY BOUNDARY

AOC-004

AOC-060

BUILDING 4-78/79 SWMU/AOC Group

AOC-090

RENTON  
MUNICIPAL  
AIRPORT

APRON A

SWMU-168

SWMU-172, 174

FORMER FUEL FARM  
AOC GROUP

LEGEND



GENERAL LOCATION OF SWMUs AND AOCs

SWMU/AOC SOLID WASTE MANAGEMENT UNIT/AREA OF CONCERN



FACILITY BOUNDARY

RENTON SWMU AND AOC LOCATIONS

Boeing Renton Facility  
Renton, Washington

|        |                |                        |
|--------|----------------|------------------------|
| By: SD | Date: 08/22/24 | Project No. PS24206850 |
|--------|----------------|------------------------|

WSP USA  
Environment & Infrastructure Inc.

Figure 1-1



0 400 800  
APPROXIMATE SCALE IN FEET

Plot Date: 08/22/24 - 2:23pm, Plotted by: USSD715014  
Drawing Path: X:\USUSPD\800-POR\ClientData\AMEC US OFFICES\KIRKLAND\PS24206850 - Boeing Renton\dwg\, Drawing Name: Figure 1 - Site Map.dwg



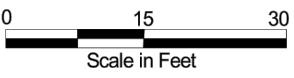
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Drawing Path: X:\USDPDX800-POR\ClientData\AMEC US OFFICES\KIRKLAND\PS24206850 - Boeing Renton.dwg, Drawing Name: Boeing Renton Apron R.dwg



Excavation area in Apron R



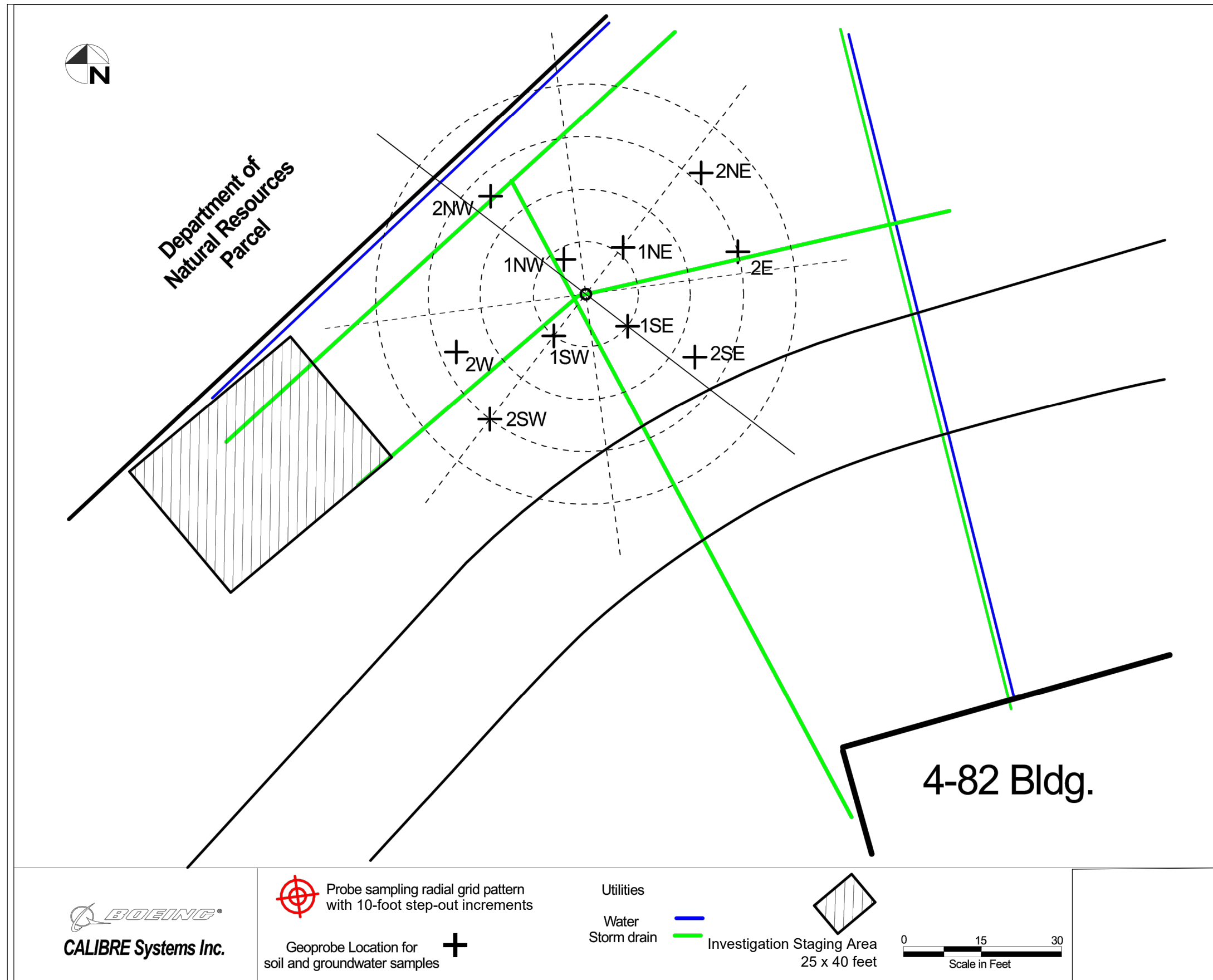
Aerial photo taken in 2021 at the time the excavation was open



|                                              |                |                        |
|----------------------------------------------|----------------|------------------------|
| APRON R AREA WITHIN RENTON FACILITY          |                |                        |
| Boeing Renton Facility<br>Renton, Washington |                |                        |
| By: SD                                       | Date: 09/03/24 | Project No. PS24206850 |
| WSP USA<br>Environment & Infrastructure Inc. |                | Figure 1-2             |



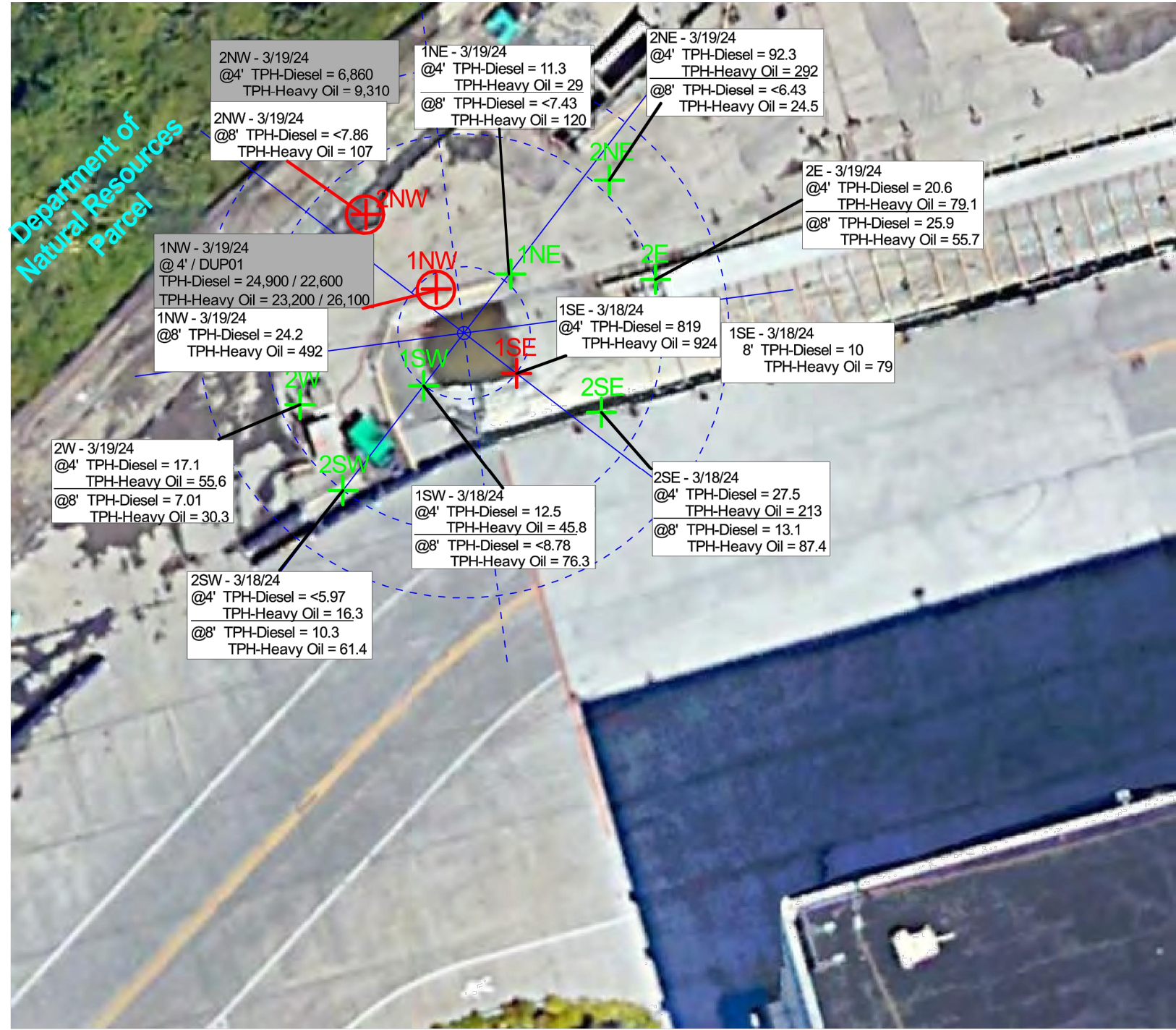
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Drawing Path: X:\USDPDX800-POR\ClientData\AMEC US OFFICES\KIRKLAND\PS24206850 - Boeing Renton.dwg, Drawing Name: Boeing Renton Apron R.dwg



| PROBE LOCATIONS IN APRON R AREA              |                |                        |
|----------------------------------------------|----------------|------------------------|
| Boeing Renton Facility<br>Renton, Washington |                |                        |
| By: SD                                       | Date: 09/03/24 | Project No. PS24206850 |
| WSP USA<br>Environment & Infrastructure Inc. |                | Figure 2-1             |



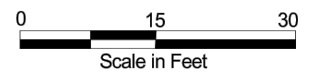
Plot Date: 09/03/24 - 9:21am, Plotted by: USSD715014  
Drawing Path: X:\USDPD\800-POR\ClientData\AMEC US OFFICES\KIRKLAND\PS24206850 - Boeing Renton.dwg, Drawing Name: Boeing Renton Apron R.dwg



Geoprobe Location with petroleum odor +  
Geoprobe Location with no odor +

Soil sample collection pattern 10' and 30' from excavation pit.

TPH analytical results for soil  
All results in mg/kg  
Samples collected on 3/18/24 and 3/19/24  
Shaded boxes exceed MTCA Method A  
Soil Level for TPH-Diesel Range = 2,000 mg/kg



TPH-Dx IN SOIL DIESEL AND HEAVY OIL

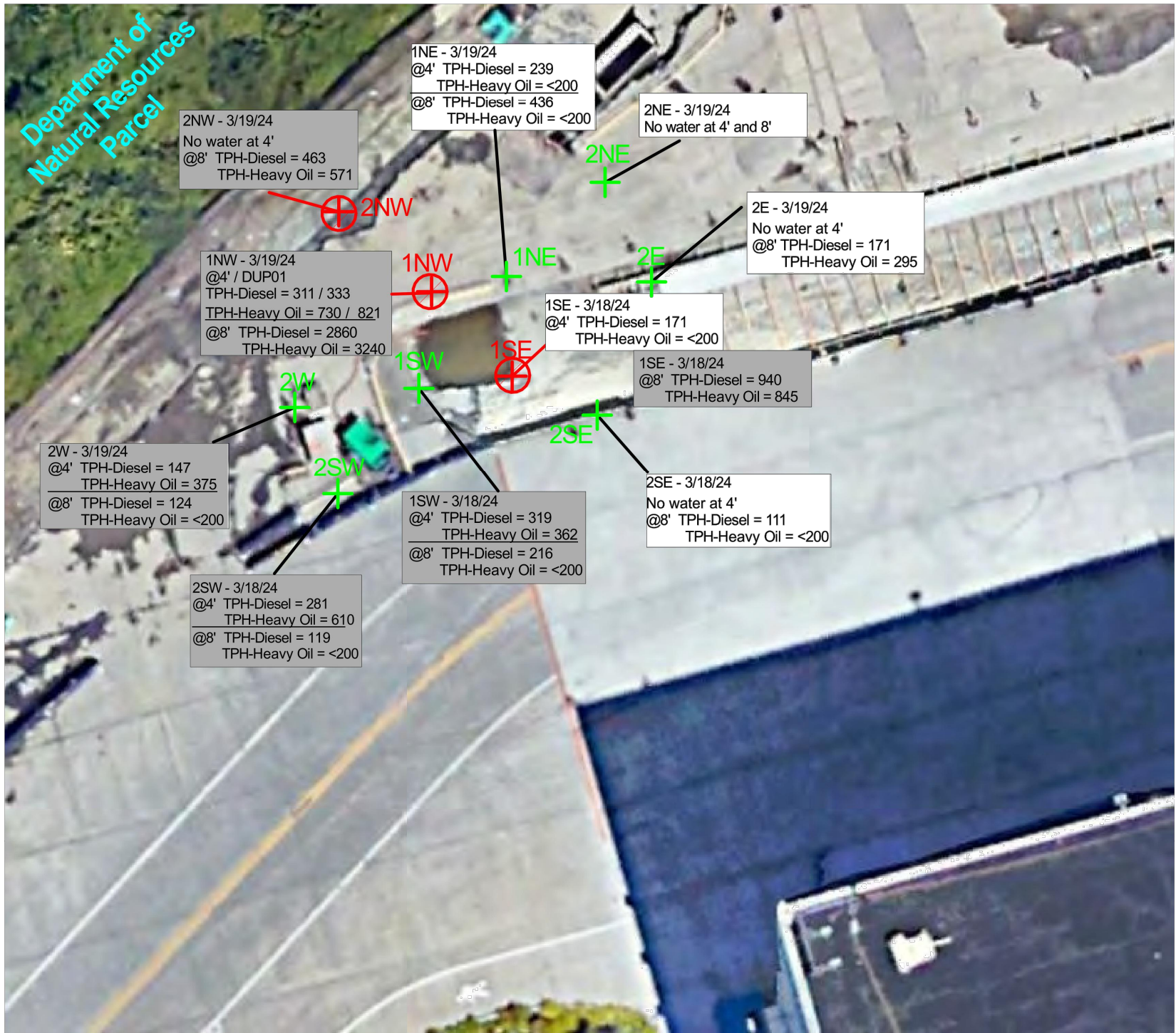
Boeing Renton Facility  
Renton, Washington

|                                              |                |                        |
|----------------------------------------------|----------------|------------------------|
| By: SD                                       | Date: 09/03/24 | Project No. PS24206850 |
| WSP USA<br>Environment & Infrastructure Inc. |                | Figure 5-1             |





Plot Date: 09/03/24 - 9:21am. Plotted by: USSD715014  
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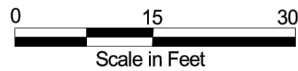


Geoprobe Location +  
with petroleum odor

Geoprobe Location +  
with no odor

Results for water  
All results in ug/L  
Samples collected on 3/18/24 and 3/19/24 where water was present

Shaded boxes exceed MTCA Method A/B Groundwater  
for TPH-Diesel Range = 500 ug/L



TPH-Dx IN WATER  
DIESEL AND HEAVY OIL

Boeing Renton Facility  
Renton, Washington

|                                              |                |                        |
|----------------------------------------------|----------------|------------------------|
| By: SD                                       | Date: 09/03/24 | Project No. PS24206850 |
| WSP USA<br>Environment & Infrastructure Inc. |                | Figure 5-2             |

# APPENDIX

## A EXCERPTS FROM 2024 WORK PLAN



## OF-3-Soil samples all analytes

| Volatiles by EPA 82060D |                                       |                       |      |
|-------------------------|---------------------------------------|-----------------------|------|
| Date                    | Parameter                             | Concentration (µg/kg) | Flag |
| 6/21/2021               | Carbon Disulfide                      | 1.68                  |      |
| 6/21/2021               | Acetone                               | 96.9                  |      |
| 6/21/2021               | 1,2,4-Trimethylbenzene                | 0.47J                 | J    |
| 6/21/2021               | Benzene                               | 0.59J                 | J    |
| 6/21/2021               | Toluene                               | 0.61J                 | J    |
| 6/21/2021               | 4-Isopropyl Toluene                   | 0.71J                 | J    |
| 6/21/2021               | 2-Pentanone                           | 3.10J                 | J    |
| 6/21/2021               | 2-Butanone                            | 6.43J                 | J    |
| 6/21/2021               | Tetrachloroethene                     | <0.26                 | U    |
| 6/21/2021               | Chlorobenzene                         | <0.28                 | U    |
| 6/21/2021               | 2-Chlorotoluene                       | <0.29                 | U    |
| 6/21/2021               | Ethylbenzene                          | <0.3                  | U    |
| 6/21/2021               | 1,2-Dichloroethane                    | <0.31                 | U    |
| 6/21/2021               | 1,3-Dichloropropane                   | <0.31                 | U    |
| 6/21/2021               | n-Propylbenzene                       | <0.31                 | U    |
| 6/21/2021               | o-Xylene                              | <0.32                 | U    |
| 6/21/2021               | s-Butylbenzene                        | <0.32                 | U    |
| 6/21/2021               | 1,3-Dichlorobenzene                   | <0.33                 | U    |
| 6/21/2021               | Bromobenzene                          | <0.33                 | U    |
| 6/21/2021               | Styrene                               | <0.33                 | U    |
| 6/21/2021               | t-Butylbenzene                        | <0.33                 | U    |
| 6/21/2021               | 1,3,5-Trimethylbenzene                | <0.34                 | U    |
| 6/21/2021               | Bromodichloromethane                  | <0.34                 | U    |
| 6/21/2021               | cis-1,2-Dichloroethene                | <0.34                 | U    |
| 6/21/2021               | Methyl tert-butyl Ether               | <0.34                 | U    |
| 6/21/2021               | Trichloroethene                       | <0.34                 | U    |
| 6/21/2021               | cis-1,3-Dichloropropene               | <0.35                 | U    |
| 6/21/2021               | Isopropyl Benzene                     | <0.35                 | U    |
| 6/21/2021               | 1,1,2-Trichloroethane                 | <0.36                 | U    |
| 6/21/2021               | Dibromochloromethane                  | <0.36                 | U    |
| 6/21/2021               | 1,1,2,2-Tetrachloroethane             | <0.37                 | U    |
| 6/21/2021               | n-Butylbenzene                        | <0.37                 | U    |
| 6/21/2021               | 1,1-Dichloroethane                    | <0.38                 | U    |
| 6/21/2021               | 1,1-Dichloropropene                   | <0.38                 | U    |
| 6/21/2021               | Chloroform                            | <0.38                 | U    |
| 6/21/2021               | 4-Chlorotoluene                       | <0.39                 | U    |
| 6/21/2021               | 1,2-Dibromoethane                     | <0.41                 | U    |
| 6/21/2021               | 2,2-Dichloropropane                   | <0.41                 | U    |
| 6/21/2021               | Carbon tetrachloride                  | <0.42                 | U    |
| 6/21/2021               | 1,2-Dichloropropane                   | <0.44                 | U    |
| 6/21/2021               | Vinyl Chloride                        | <0.45                 | U    |
| 6/21/2021               | 1,1,1,2-Tetrachloroethane             | <0.47                 | U    |
| 6/21/2021               | Dibromomethane                        | <0.47                 | U    |
| 6/21/2021               | 1,1-Dichloroethene                    | <0.49                 | U    |
| 6/21/2021               | Chloromethane                         | <0.51                 | U    |
| 6/21/2021               | Bromomethane                          | <0.52                 | U    |
| 6/21/2021               | Bromochloromethane                    | <0.53                 | U    |
| 6/21/2021               | Dichlorodifluoromethane               | <0.54                 | U    |
| 6/21/2021               | trans-1,3-Dichloropropene             | <0.55                 | U    |
| 6/21/2021               | 1,4-Dichlorobenzene                   | <0.57                 | U    |
| 6/21/2021               | Bromoform                             | <0.62                 | U    |
| 6/21/2021               | m,p-Xylene                            | <0.66                 | U    |
| 6/21/2021               | trans-1,2-Dichloroethene              | <0.7                  | U    |
| 6/21/2021               | 1,1,1-Trichloroethane                 | <0.8                  | U    |
| 6/21/2021               | 1,2-Dichlorobenzene                   | <0.87                 | U    |
| 6/21/2021               | Xylenes, total                        | <0.93                 | U    |
| 6/21/2021               | 1,1,2-Trichloro-1,2,2-Trifluoroethane | <1.13                 | U    |
| 6/21/2021               | Iodomethane                           | <1.21                 | U    |
| 6/21/2021               | Trichlorofluoromethane                | <1.3                  | U    |
| 6/21/2021               | Chloroethane                          | <1.66                 | U    |
| 6/21/2021               | 2-Hexanone                            | <1.7                  | U    |
| 6/21/2021               | 4-Methyl-2-Pentanone                  | <1.82                 | U    |
| 6/21/2021               | 1,2,3-Trichloropropane                | <2                    | U    |
| 6/21/2021               | Acrolein                              | <2.34                 | U    |
| 6/21/2021               | Hexachloro-1,3-Butadiene              | <2.4                  | U    |
| 6/21/2021               | 1,2,4-Trichlorobenzene                | <2.42                 | U    |
| 6/21/2021               | Acrylonitrile                         | <2.64                 | U    |
| 6/21/2021               | 1,2,3-Trichlorobenzene                | <3.1                  | U    |
| 6/21/2021               | 1,2-Dibromo-3-chloropropane           | <3.15                 | U    |
| 6/21/2021               | Naphthalene                           | <3.28                 | U    |
| 6/21/2021               | trans-1,4-Dichloro 2-Butene           | <3.67                 | U    |
| 6/21/2021               | 2-Chloroethyl vinyl ether             | <4.02                 | U    |
| 6/21/2021               | Vinyl Acetate                         | <4.34                 | U    |
| 6/21/2021               | Methylene Chloride                    | <5.82                 | U    |

## OF-3-Soil samples all analytes

| Semi volatiles by EPA 8270E |                              |                       |      |
|-----------------------------|------------------------------|-----------------------|------|
| Date                        | Parameter                    | Concentration (µg/kg) | Flag |
| 6/21/2021                   | Chrysene                     | 3280                  |      |
| 6/21/2021                   | Phenanthrene                 | 4260                  |      |
| 6/21/2021                   | Pyrene                       | 5640                  |      |
| 6/21/2021                   | 1-Methylnaphthalene          | 6260                  |      |
| 6/21/2021                   | 2-Methylnaphthalene          | 8210                  |      |
| 6/21/2021                   | Acenaphthene                 | 1010J                 | J    |
| 6/21/2021                   | Fluorene                     | 1400J                 | J    |
| 6/21/2021                   | Anthracene                   | 1550J                 | J    |
| 6/21/2021                   | Benzo(a)anthracene           | 1790J                 | J    |
| 6/21/2021                   | Benzo(a)pyrene               | 935J                  | J    |
| 6/21/2021                   | Isophorone                   | <400                  | U    |
| 6/21/2021                   | 2-Chlorophenol               | <427                  | U    |
| 6/21/2021                   | Carbazole                    | <439                  | U    |
| 6/21/2021                   | Naphthalene                  | <445                  | U    |
| 6/21/2021                   | 1,4-Dichlorobenzene          | <465                  | U    |
| 6/21/2021                   | 1,3-Dichlorobenzene          | <468                  | U    |
| 6/21/2021                   | 1,2,4-Trichlorobenzene       | <474                  | U    |
| 6/21/2021                   | Phenol                       | <480                  | U    |
| 6/21/2021                   | 2,4-Dimethylphenol           | <483                  | U    |
| 6/21/2021                   | bis(2-chloroethyl) ether     | <504                  | U    |
| 6/21/2021                   | N-Nitrosodiphenylamine       | <504                  | U    |
| 6/21/2021                   | Bis(2-Chloroethoxy)methane   | <516                  | U    |
| 6/21/2021                   | Dibenzofuran                 | <543                  | U    |
| 6/21/2021                   | 1,2-Dichlorobenzene          | <549                  | U    |
| 6/21/2021                   | 2,2'-Oxybis(1-chloropropane) | <558                  | U    |
| 6/21/2021                   | Hexachlorobutadiene          | <561                  | U    |
| 6/21/2021                   | Hexachloroethane             | <561                  | U    |
| 6/21/2021                   | Hexachlorobenzene            | <564                  | U    |
| 6/21/2021                   | Di-n-Octylphthalate          | <570                  | U    |
| 6/21/2021                   | 4-Bromophenyl phenyl ether   | <576                  | U    |
| 6/21/2021                   | 4-Chlorophenylphenyl ether   | <612                  | U    |
| 6/21/2021                   | N-Nitroso-di-n-Propylamine   | <621                  | U    |
| 6/21/2021                   | Diethyl phthalate            | <624                  | U    |
| 6/21/2021                   | Acenaphthylene               | <629                  | U    |
| 6/21/2021                   | 2-Chloronaphthalene          | <635                  | U    |
| 6/21/2021                   | 4-Methylphenol               | <668                  | U    |
| 6/21/2021                   | 2-Methylphenol               | <695                  | U    |
| 6/21/2021                   | bis(2-Ethylhexyl)phthalate   | <713                  | U    |
| 6/21/2021                   | Butylbenzylphthalate         | <734                  | U    |
| 6/21/2021                   | Dibenzo(a,h)anthracene       | <734                  | U    |
| 6/21/2021                   | Nitrobenzene                 | <764                  | U    |
| 6/21/2021                   | Benzo(g,h,i)perylene         | <773                  | U    |
| 6/21/2021                   | Dimethylphthalate            | <791                  | U    |
| 6/21/2021                   | Indeno(1,2,3-cd)pyrene       | <805                  | U    |
| 6/21/2021                   | Benzo(a)fluoranthene, Total  | <970                  | U    |
| 6/21/2021                   | Di-n-Butylphthalate          | <987                  | U    |
| 6/21/2021                   | Fluoranthene                 | <1240                 | U    |
| 6/21/2021                   | 4-Nitrophenol                | <1440                 | U    |
| 6/21/2021                   | Hexachlorocyclopentadiene    | <1860                 | U    |
| 6/21/2021                   | 2-Nitrophenol                | <1890                 | U    |
| 6/21/2021                   | 2,4-Dichlorophenol           | <2230                 | U    |
| 6/21/2021                   | 2,4-Dinitrophenol            | <2310                 | U    |
| 6/21/2021                   | Benzyl Alcohol               | <2590                 | U    |
| 6/21/2021                   | 3,3'-Dichlorobenzidine       | <2660                 | U    |
| 6/21/2021                   | 2,4-Dinitrotoluene           | <2860                 | U    |
| 6/21/2021                   | 2,6-Dinitrotoluene           | <2860                 | U    |
| 6/21/2021                   | Pentachlorophenol            | <2880                 | U    |
| 6/21/2021                   | 4-Chloroaniline              | <2980                 | U    |
| 6/21/2021                   | 4-Nitroaniline               | <3040                 | U    |
| 6/21/2021                   | 3-Nitroaniline               | <3100                 | U    |
| 6/21/2021                   | 4-Chloro-3-Methylphenol      | <3430                 | U    |
| 6/21/2021                   | 2-Nitroaniline               | <3580                 | U    |
| 6/21/2021                   | 4,6-Dinitro-2-methylphenol   | <3640                 | U    |
| 6/21/2021                   | 2,4,6-Trichlorophenol        | <4240                 | U    |
| 6/21/2021                   | 2,4,5-Trichlorophenol        | <4470                 | U    |
| 6/21/2021                   | Benzoic acid                 | <7490                 | U    |



OF-3-Soil samples all analytes

| Metals by EPA 6020B |           |                       |      |
|---------------------|-----------|-----------------------|------|
| SampleDate          | Parameter | Concentration (mg/kg) | Flag |
| 6/21/2021           | Silver    | 0.0358                |      |
| 6/21/2021           | Arsenic   | 4.48                  |      |
| 6/21/2021           | Barium    | 69.5                  |      |
| 6/21/2021           | Cadmium   | 0.516                 |      |
| 6/21/2021           | Chromium  | 25.3                  |      |
| 6/21/2021           | Lead      | 15.96                 |      |
| 6/21/2021           | Selenium  | 0.568                 |      |
| 6/21/2021           | Mercury   | 0.0666                |      |

## OF-3- surface of water column sample - all analytes

| Hydrocarbons by EPA 1664B |                                    |                         |      |
|---------------------------|------------------------------------|-------------------------|------|
| Date                      | Parameter                          | Concentration<br>(µg/L) | Flag |
| 6/21/2021                 | HEM Polar Oil & Grease             | 55                      |      |
| 6/21/2021                 | SGT-HEM NP Oil & Grease            | 55                      |      |
| 6/21/2021                 | HEM Oil & Grease                   | 110                     |      |
| Hydrocarbons by NWTPH     |                                    |                         |      |
| Date                      | Parameter                          | Concentration<br>(µg/L) | Flag |
| 6/21/2021                 | Diesel Range Organics (C12-C24)    | 7.4                     |      |
| 6/21/2021                 | Motor Oil Range Organics (C24-C38) | 13.2                    |      |
| 6/21/2021                 | Gasoline Range Organics (Tol-Nap)  | ND                      | U    |
| Metals by EPA 200.8       |                                    |                         |      |
| Date                      | Parameter                          | Concentration<br>(µg/L) | Flag |
| 6/21/2021                 | Arsenic                            | 2.89                    |      |
| 6/21/2021                 | Barium                             | 178                     |      |
| 6/21/2021                 | Cadmium                            | 1.15                    |      |
| 6/21/2021                 | Chromium                           | 23.2                    |      |
| 6/21/2021                 | Lead                               | 15.7                    |      |
| 6/21/2021                 | Selenium                           | <0.5                    | U    |
| 6/21/2021                 | Silver                             | <0.1                    | U    |
| 6/21/2021                 | Mercury                            | 0.67                    |      |
| Other SM 2540 F-97        |                                    |                         |      |
| Date                      | Parameter                          | Concentration<br>(µg/L) | Flag |
| 6/21/2021                 | Settleable Solids                  | 2.7                     |      |
| Other SM 4500-H+ B-00     |                                    |                         |      |
| Date                      | Parameter                          | Concentration<br>(µg/L) | Flag |
| 6/21/2021                 | pH                                 | 7.14                    |      |

## OF-3- surface of water column sample - all analytes

| Volatiles by EPA 82060D |                                       |                         |      |
|-------------------------|---------------------------------------|-------------------------|------|
| Date                    | Parameter                             | Concentration<br>(µg/L) | Flag |
| 6/21/2021               | Acetone                               | 6.42                    |      |
| 6/21/2021               | Toluene                               | 0.12J                   | J    |
| 6/21/2021               | 1,1,1,2-Tetrachloroethane             | <0.09                   | U    |
| 6/21/2021               | 1,1,1-Trichloroethane                 | <0.08                   | U    |
| 6/21/2021               | 1,1,2,2-Tetrachloroethane             | <0.1                    | U    |
| 6/21/2021               | 1,1,2-Trichloro-1,2,2-Trifluoroethane | <0.11                   | U    |
| 6/21/2021               | 1,1,2-Trichloroethane                 | <0.1                    | U    |
| 6/21/2021               | 1,1-Dichloroethane                    | <0.09                   | U    |
| 6/21/2021               | 1,1-Dichloroethene                    | <0.08                   | U    |
| 6/21/2021               | 1,1-Dichloropropene                   | <0.09                   | U    |
| 6/21/2021               | 1,2,3-Trichlorobenzene                | <0.25                   | U    |
| 6/21/2021               | 1,2,3-Trichloropropane                | <0.16                   | U    |
| 6/21/2021               | 1,2,4-Trichlorobenzene                | <0.21                   | U    |
| 6/21/2021               | 1,2,4-Trimethylbenzene                | <0.1                    | U    |
| 6/21/2021               | 1,2-Dibromo-3-chloropropane           | <0.39                   | U    |
| 6/21/2021               | 1,2-Dibromoethane                     | <0.09                   | U    |
| 6/21/2021               | 1,2-Dichlorobenzene                   | <0.08                   | U    |
| 6/21/2021               | 1,2-Dichloroethane                    | <0.08                   | U    |
| 6/21/2021               | 1,2-Dichloropropane                   | <0.07                   | U    |
| 6/21/2021               | 1,3,5-Trimethylbenzene                | <0.07                   | U    |
| 6/21/2021               | 1,3-Dichlorobenzene                   | <0.08                   | U    |
| 6/21/2021               | 1,3-Dichloropropane                   | <0.07                   | U    |
| 6/21/2021               | 1,4-Dichlorobenzene                   | <0.1                    | U    |
| 6/21/2021               | 2,2-Dichloropropane                   | <0.11                   | U    |
| 6/21/2021               | 2-Butanone                            | <1.77                   | U    |
| 6/21/2021               | 2-Chloroethyl vinyl ether             | <0.55                   | U    |
| 6/21/2021               | 2-Chlorotoluene                       | <0.06                   | U    |
| 6/21/2021               | 2-Hexanone                            | <2.06                   | U    |
| 6/21/2021               | 2-Pentanone                           | <2.34                   | U    |
| 6/21/2021               | 4-Chlorotoluene                       | <0.06                   | U    |
| 6/21/2021               | 4-Isopropyl Toluene                   | <0.08                   | U    |
| 6/21/2021               | 4-Methyl-2-Pentanone                  | <1.9                    | U    |
| 6/21/2021               | Acrolein                              | <2.7                    | U    |
| 6/21/2021               | Acrylonitrile                         | <0.4                    | U    |
| 6/21/2021               | Benzene                               | <0.05                   | U    |
| 6/21/2021               | Bromobenzene                          | <0.07                   | U    |
| 6/21/2021               | Bromochloromethane                    | <0.09                   | U    |
| 6/21/2021               | Bromodichloromethane                  | <0.09                   | U    |
| 6/21/2021               | Bromoform                             | <0.15                   | U    |
| 6/21/2021               | Bromomethane                          | <0.74                   | U    |
| 6/21/2021               | Carbon Disulfide                      | <0.12                   | U    |
| 6/21/2021               | Carbon tetrachloride                  | <0.09                   | U    |
| 6/21/2021               | Chlorobenzene                         | <0.06                   | U    |
| 6/21/2021               | Chloroethane                          | <0.18                   | U    |
| 6/21/2021               | Chloroform                            | <0.05                   | U    |
| 6/21/2021               | Chloromethane                         | <0.27                   | U    |
| 6/21/2021               | cis-1,2-Dichloroethene                | <0.08                   | U    |
| 6/21/2021               | cis-1,3-Dichloropropene               | <0.09                   | U    |
| 6/21/2021               | Dibromochloromethane                  | <0.09                   | U    |
| 6/21/2021               | Dibromomethane                        | <0.06                   | U    |
| 6/21/2021               | Dichlorodifluoromethane               | <0.13                   | U    |
| 6/21/2021               | Ethylbenzene                          | <0.05                   | U    |
| 6/21/2021               | Hexachloro-1,3-Butadiene              | <0.41                   | U    |
| 6/21/2021               | Iodomethane                           | <0.43                   | U    |
| 6/21/2021               | Isopropyl Benzene                     | <0.07                   | U    |
| 6/21/2021               | m,p-Xylene                            | <0.14                   | U    |
| 6/21/2021               | Methyl tert-butyl Ether               | <0.14                   | U    |
| 6/21/2021               | Methylene Chloride                    | <0.53                   | U    |
| 6/21/2021               | Naphthalene                           | <0.27                   | U    |
| 6/21/2021               | n-Butylbenzene                        | <0.18                   | U    |
| 6/21/2021               | n-Propylbenzene                       | <0.07                   | U    |
| 6/21/2021               | o-Xylene                              | <0.08                   | U    |
| 6/21/2021               | s-Butylbenzene                        | <0.06                   | U    |
| 6/21/2021               | Styrene                               | <0.09                   | U    |
| 6/21/2021               | t-Butylbenzene                        | <0.07                   | U    |
| 6/21/2021               | Tetrachloroethene                     | <0.09                   | U    |
| 6/21/2021               | trans-1,2-Dichloroethene              | <0.07                   | U    |
| 6/21/2021               | trans-1,3-Dichloropropene             | <0.09                   | U    |
| 6/21/2021               | trans-1,4-Dichloro 2-Butene           | <0.6                    | U    |
| 6/21/2021               | Trichloroethene                       | <0.07                   | U    |
| 6/21/2021               | Trichlorofluoromethane                | <0.13                   | U    |
| 6/21/2021               | Vinyl Acetate                         | <0.12                   | U    |
| 6/21/2021               | Vinyl Chloride                        | <0.08                   | U    |
| 6/21/2021               | Xylenes, total                        | <0.22                   | U    |

## OF-3- surface of water column sample - all analytes

| Semi volatiles by EPA 8270E |                              |                      |      |
|-----------------------------|------------------------------|----------------------|------|
| Date                        | Parameter                    | Concentration (µg/L) | Flag |
| 6/21/2021                   | Phenanthrene                 | 17.4J                | J    |
| 6/21/2021                   | Chrysene                     | 19.3J                | J    |
| 6/21/2021                   | Pyrene                       | 29.4J                | J    |
| 6/21/2021                   | 1,2,4-Trichlorobenzene       | <9.5                 | U    |
| 6/21/2021                   | 1,2-Dichlorobenzene          | <9.3                 | U    |
| 6/21/2021                   | 1,3-Dichlorobenzene          | <8.4                 | U    |
| 6/21/2021                   | 1,4-Dichlorobenzene          | <8.6                 | U    |
| 6/21/2021                   | 1-Methylnaphthalene          | <8.1                 | U    |
| 6/21/2021                   | 2,2'-Oxybis(1-chloropropane) | <15.9                | U    |
| 6/21/2021                   | 2,4,5-Trichlorophenol        | <54.1                | U    |
| 6/21/2021                   | 2,4,6-Trichlorophenol        | <58.4                | U    |
| 6/21/2021                   | 2,4-Dichlorophenol           | <55.8                | U    |
| 6/21/2021                   | 2,4-Dimethylphenol           | <31.1                | U    |
| 6/21/2021                   | 2,4-Dinitrophenol            | <146                 | U    |
| 6/21/2021                   | 2,4-Dinitrotoluene           | <58.6                | U    |
| 6/21/2021                   | 2,6-Dinitrotoluene           | <63.7                | U    |
| 6/21/2021                   | 2-Chloronaphthalene          | <14.2                | U    |
| 6/21/2021                   | 2-Chlorophenol               | <11                  | U    |
| 6/21/2021                   | 2-Methylnaphthalene          | <7.1                 | U    |
| 6/21/2021                   | 2-Methylphenol               | <10                  | U    |
| 6/21/2021                   | 2-Nitroaniline               | <59.8                | U    |
| 6/21/2021                   | 2-Nitrophenol                | <15.1                | U    |
| 6/21/2021                   | 3,3'-Dichlorobenzidine       | <48.6                | U    |
| 6/21/2021                   | 3-Nitroaniline               | <65.1                | U    |
| 6/21/2021                   | 4,6-Dinitro-2-methylphenol   | <150                 | U    |
| 6/21/2021                   | 4-Bromophenyl phenyl ether   | <10.4                | U    |
| 6/21/2021                   | 4-Chloro-3-Methylphenol      | <60                  | U    |
| 6/21/2021                   | 4-Chloroaniline              | <58.1                | U    |
| 6/21/2021                   | 4-Chlorophenylphenyl ether   | <11.3                | U    |
| 6/21/2021                   | 4-Methylphenol               | <13.2                | U    |
| 6/21/2021                   | 4-Nitroaniline               | <58.2                | U    |
| 6/21/2021                   | 4-Nitrophenol                | <30.2                | U    |
| 6/21/2021                   | Acenaphthene                 | <8.9                 | U    |
| 6/21/2021                   | Acenaphthylene               | <10.3                | U    |
| 6/21/2021                   | Anthracene                   | <12                  | U    |
| 6/21/2021                   | Benzo(a)anthracene           | <12                  | U    |
| 6/21/2021                   | Benzo(a)pyrene               | <14.6                | U    |
| 6/21/2021                   | Benzo(g,h,i)perylene         | <13.8                | U    |
| 6/21/2021                   | Benzo(a)fluoranthene, Total  | <24.9                | U    |
| 6/21/2021                   | Benzoic acid                 | <103                 | U    |
| 6/21/2021                   | Benzyl Alcohol               | <29.1                | U    |
| 6/21/2021                   | Bis(2-Chloroethoxy)methane   | <17.8                | U    |
| 6/21/2021                   | bis(2-chloroethyl) ether     | <10.7                | U    |
| 6/21/2021                   | bis(2-Ethylhexyl)phthalate   | <15.8                | U    |
| 6/21/2021                   | Butylbenzylphthalate         | <11.9                | U    |
| 6/21/2021                   | Carbazole                    | <17.9                | U    |
| 6/21/2021                   | Dibenzo(a,h)anthracene       | <12.9                | U    |
| 6/21/2021                   | Dibenzofuran                 | <8                   | U    |
| 6/21/2021                   | Diethyl phthalate            | <12.7                | U    |
| 6/21/2021                   | Dimethylphthalate            | <11.8                | U    |
| 6/21/2021                   | Di-n-Butylphthalate          | <15                  | U    |
| 6/21/2021                   | Di-n-Octylphthalate          | <10.9                | U    |
| 6/21/2021                   | Fluoranthene                 | <12.5                | U    |
| 6/21/2021                   | Fluorene                     | <10.3                | U    |
| 6/21/2021                   | Hexachlorobenzene            | <12.5                | U    |
| 6/21/2021                   | Hexachlorobutadiene          | <4.2                 | U    |
| 6/21/2021                   | Hexachlorocyclopentadiene    | <75.9                | U    |
| 6/21/2021                   | Hexachloroethane             | <8.7                 | U    |
| 6/21/2021                   | Indeno(1,2,3-cd)pyrene       | <11.9                | U    |
| 6/21/2021                   | Isophorone                   | <14.3                | U    |
| 6/21/2021                   | Naphthalene                  | <7.4                 | U    |
| 6/21/2021                   | Nitrobenzene                 | <12.5                | U    |
| 6/21/2021                   | N-Nitroso-di-n-Propylamine   | <6.4                 | U    |
| 6/21/2021                   | N-Nitrosodiphenylamine       | <12.2                | U    |
| 6/21/2021                   | Pentachlorophenol            | <77.3                | U    |
| 6/21/2021                   | Phenol                       | <6.4                 | U    |

## OF-3- middle of water column sample - all analytes

| Hydrocarbons by EPA 1664B |                                    |                      |      |
|---------------------------|------------------------------------|----------------------|------|
| Date                      | Parameter                          | Concentration (µg/L) | Flag |
| 6/21/2021                 | HEM Oil & Grease                   | <5                   | U    |
| 6/21/2021                 | HEM Polar Oil & Grease             | <5                   | U    |
| 6/21/2021                 | SGT-HEM NP Oil & Grease            | <5                   | U    |
| Hydrocarbons by NWTPH     |                                    |                      |      |
| Date                      | Parameter                          | Concentration (µg/L) | Flag |
| 6/21/2021                 | Diesel Range Organics (C12-C24)    | 0.382                |      |
| 6/21/2021                 | Motor Oil Range Organics (C24-C38) | 0.524                |      |
| 6/21/2021                 | Gasoline Range Organics (Tol-Nap)  | <100                 | U    |

| Metals by EPA 200.8 |           |                      |      |
|---------------------|-----------|----------------------|------|
| Date                | Parameter | Concentration (µg/L) | Flag |
| 6/21/2021           | Arsenic   | 3.07                 |      |
| 6/21/2021           | Barium    | 13.2                 |      |
| 6/21/2021           | Cadmium   | 0.091                |      |
| 6/21/2021           | Chromium  | 1.2                  |      |
| 6/21/2021           | Lead      | 1.36                 |      |
| 6/21/2021           | Selenium  | 1.79                 |      |
| 6/21/2021           | Silver    | <0.1                 | U    |
| 6/21/2021           | Mercury   | 0.14                 |      |

| Other SM 2540 F-97 |                   |                      |      |
|--------------------|-------------------|----------------------|------|
| Date               | Parameter         | Concentration (µg/L) | Flag |
| 6/21/2021          | Settleable Solids | <0.1                 | U    |

| Other SM 4500-H+ B-00 |           |                      |      |
|-----------------------|-----------|----------------------|------|
| Date                  | Parameter | Concentration (µg/L) | Flag |
| 6/21/2021             | pH        | 6.96                 |      |

## OF-3- middle of water column sample - all analytes

| Volatiles by EPA 82060D |                                       |                      |      |
|-------------------------|---------------------------------------|----------------------|------|
| Date                    | Parameter                             | Concentration (µg/L) | Flag |
| 6/21/2021               | Benzene                               | <0.05                | U    |
| 6/21/2021               | Chloroform                            | <0.05                | U    |
| 6/21/2021               | Ethylbenzene                          | <0.05                | U    |
| 6/21/2021               | Toluene                               | <0.05                | U    |
| 6/21/2021               | 2-Chlorotoluene                       | <0.06                | U    |
| 6/21/2021               | 4-Chlorotoluene                       | <0.06                | U    |
| 6/21/2021               | Chlorobenzene                         | <0.06                | U    |
| 6/21/2021               | Dibromomethane                        | <0.06                | U    |
| 6/21/2021               | s-Butylbenzene                        | <0.06                | U    |
| 6/21/2021               | 1,2-Dichloropropane                   | <0.07                | U    |
| 6/21/2021               | 1,3,5-Trimethylbenzene                | <0.07                | U    |
| 6/21/2021               | 1,3-Dichloropropane                   | <0.07                | U    |
| 6/21/2021               | Bromobenzene                          | <0.07                | U    |
| 6/21/2021               | Isopropyl Benzene                     | <0.07                | U    |
| 6/21/2021               | n-Propylbenzene                       | <0.07                | U    |
| 6/21/2021               | t-Butylbenzene                        | <0.07                | U    |
| 6/21/2021               | trans-1,2-Dichloroethene              | <0.07                | U    |
| 6/21/2021               | Trichloroethene                       | <0.07                | U    |
| 6/21/2021               | 1,1,1-Trichloroethane                 | <0.08                | U    |
| 6/21/2021               | 1,1-Dichloroethene                    | <0.08                | U    |
| 6/21/2021               | 1,2-Dichlorobenzene                   | <0.08                | U    |
| 6/21/2021               | 1,2-Dichloroethane                    | <0.08                | U    |
| 6/21/2021               | 1,3-Dichlorobenzene                   | <0.08                | U    |
| 6/21/2021               | 4-Isopropyl Toluene                   | <0.08                | U    |
| 6/21/2021               | cis-1,2-Dichloroethene                | <0.08                | U    |
| 6/21/2021               | o-Xylene                              | <0.08                | U    |
| 6/21/2021               | Vinyl Chloride                        | <0.08                | U    |
| 6/21/2021               | 1,1,1,2-Tetrachloroethane             | <0.09                | U    |
| 6/21/2021               | 1,1-Dichloroethane                    | <0.09                | U    |
| 6/21/2021               | 1,1-Dichloropropene                   | <0.09                | U    |
| 6/21/2021               | 1,2-Dibromoethane                     | <0.09                | U    |
| 6/21/2021               | Bromochloromethane                    | <0.09                | U    |
| 6/21/2021               | Bromodichloromethane                  | <0.09                | U    |
| 6/21/2021               | Carbon tetrachloride                  | <0.09                | U    |
| 6/21/2021               | cis-1,3-Dichloropropene               | <0.09                | U    |
| 6/21/2021               | Dibromochloromethane                  | <0.09                | U    |
| 6/21/2021               | Styrene                               | <0.09                | U    |
| 6/21/2021               | Tetrachloroethene                     | <0.09                | U    |
| 6/21/2021               | trans-1,3-Dichloropropene             | <0.09                | U    |
| 6/21/2021               | 1,1,2,2-Tetrachloroethane             | <0.1                 | U    |
| 6/21/2021               | 1,1,2-Trichloroethane                 | <0.1                 | U    |
| 6/21/2021               | 1,2,4-Trimethylbenzene                | <0.1                 | U    |
| 6/21/2021               | 1,4-Dichlorobenzene                   | <0.1                 | U    |
| 6/21/2021               | 1,1,2-Trichloro-1,2,2-Trifluoroethane | <0.11                | U    |
| 6/21/2021               | 2,2-Dichloropropane                   | <0.11                | U    |
| 6/21/2021               | Carbon Disulfide                      | <0.12                | U    |
| 6/21/2021               | Vinyl Acetate                         | <0.12                | U    |
| 6/21/2021               | Dichlorodifluoromethane               | <0.13                | U    |
| 6/21/2021               | Trichlorofluoromethane                | <0.13                | U    |
| 6/21/2021               | m,p-Xylene                            | <0.14                | U    |
| 6/21/2021               | Methyl tert-butyl Ether               | <0.14                | U    |
| 6/21/2021               | Bromoform                             | <0.15                | U    |
| 6/21/2021               | 1,2,3-Trichloropropane                | <0.16                | U    |
| 6/21/2021               | Chloroethane                          | <0.18                | U    |
| 6/21/2021               | n-Butylbenzene                        | <0.18                | U    |
| 6/21/2021               | 1,2,4-Trichlorobenzene                | <0.21                | U    |
| 6/21/2021               | Xylenes, total                        | <0.22                | U    |
| 6/21/2021               | 1,2,3-Trichlorobenzene                | <0.25                | U    |
| 6/21/2021               | Chloromethane                         | <0.27                | U    |
| 6/21/2021               | Naphthalene                           | <0.27                | U    |
| 6/21/2021               | 1,2-Dibromo-3-chloropropane           | <0.39                | U    |
| 6/21/2021               | Acrylonitrile                         | <0.4                 | U    |
| 6/21/2021               | Hexachloro-1,3-Butadiene              | <0.41                | U    |
| 6/21/2021               | Iodomethane                           | <0.43                | U    |
| 6/21/2021               | Methylene Chloride                    | <0.53                | U    |
| 6/21/2021               | 2-Chloroethyl vinyl ether             | <0.55                | U    |
| 6/21/2021               | trans-1,4-Dichloro 2-Butene           | <0.6                 | U    |
| 6/21/2021               | Bromomethane                          | <0.74                | U    |
| 6/21/2021               | 2-Butanone                            | <1.77                | U    |
| 6/21/2021               | 4-Methyl-2-Pentanone                  | <1.9                 | U    |
| 6/21/2021               | 2-Hexanone                            | <2.06                | U    |
| 6/21/2021               | 2-Pentanone                           | <2.34                | U    |
| 6/21/2021               | Acrolein                              | <2.7                 | U    |
| 6/21/2021               | Acetone                               | <4.33                | U    |



## OF-3- middle of water column sample - all analytes

| Semi volatiles by EPA 8270E |                              |                      |      |
|-----------------------------|------------------------------|----------------------|------|
| Date                        | Parameter                    | Concentration (µg/L) | Flag |
| 6/21/2021                   | Chrysene                     | 0.6J                 | J    |
| 6/21/2021                   | Pyrene                       | 0.7J                 | J    |
| 6/21/2021                   | Hexachlorobutadiene          | <0.1                 | U    |
| 6/21/2021                   | 2-Methylnaphthalene          | <0.2                 | U    |
| 6/21/2021                   | Naphthalene                  | <0.2                 | U    |
| 6/21/2021                   | N-Nitroso-di-n-Propylamine   | <0.2                 | U    |
| 6/21/2021                   | Phenanthrene                 | <0.2                 | U    |
| 6/21/2021                   | Phenol                       | <0.2                 | U    |
| 6/21/2021                   | 1,2,4-Trichlorobenzene       | <0.3                 | U    |
| 6/21/2021                   | 1,2-Dichlorobenzene          | <0.3                 | U    |
| 6/21/2021                   | 1,3-Dichlorobenzene          | <0.3                 | U    |
| 6/21/2021                   | 1,4-Dichlorobenzene          | <0.3                 | U    |
| 6/21/2021                   | 1-Methylnaphthalene          | <0.3                 | U    |
| 6/21/2021                   | 2-Methylphenol               | <0.3                 | U    |
| 6/21/2021                   | 4-Bromophenyl phenyl ether   | <0.3                 | U    |
| 6/21/2021                   | Acenaphthene                 | <0.3                 | U    |
| 6/21/2021                   | Acenaphthylene               | <0.3                 | U    |
| 6/21/2021                   | Dibenzofuran                 | <0.3                 | U    |
| 6/21/2021                   | Fluorene                     | <0.3                 | U    |
| 6/21/2021                   | Hexachloroethane             | <0.3                 | U    |
| 6/21/2021                   | 2-Chlorophenol               | <0.4                 | U    |
| 6/21/2021                   | 4-Chlorophenylphenyl ether   | <0.4                 | U    |
| 6/21/2021                   | 4-Methylphenol               | <0.4                 | U    |
| 6/21/2021                   | Anthracene                   | <0.4                 | U    |
| 6/21/2021                   | Benzo(a)anthracene           | <0.4                 | U    |
| 6/21/2021                   | bis(2-chloroethyl) ether     | <0.4                 | U    |
| 6/21/2021                   | Butylbenzylphthalate         | <0.4                 | U    |
| 6/21/2021                   | Dibenzo(a,h)anthracene       | <0.4                 | U    |
| 6/21/2021                   | Diethyl phthalate            | <0.4                 | U    |
| 6/21/2021                   | Dimethylphthalate            | <0.4                 | U    |
| 6/21/2021                   | Di-n-Octylphthalate          | <0.4                 | U    |
| 6/21/2021                   | Fluoranthene                 | <0.4                 | U    |
| 6/21/2021                   | Hexachlorobenzene            | <0.4                 | U    |
| 6/21/2021                   | Indeno(1,2,3-cd)pyrene       | <0.4                 | U    |
| 6/21/2021                   | Nitrobenzene                 | <0.4                 | U    |
| 6/21/2021                   | N-Nitrosodiphenylamine       | <0.4                 | U    |
| 6/21/2021                   | 2,2'-Oxybis(1-chloropropane) | <0.5                 | U    |
| 6/21/2021                   | 2-Chloronaphthalene          | <0.5                 | U    |
| 6/21/2021                   | 2-Nitrophenol                | <0.5                 | U    |
| 6/21/2021                   | Benzo(a)pyrene               | <0.5                 | U    |
| 6/21/2021                   | Benzo(g,h,i)perylene         | <0.5                 | U    |
| 6/21/2021                   | bis(2-Ethylhexyl)phthalate   | <0.5                 | U    |
| 6/21/2021                   | Di-n-Butylphthalate          | <0.5                 | U    |
| 6/21/2021                   | Isophorone                   | <0.5                 | U    |
| 6/21/2021                   | Bis(2-Chloroethoxy)methane   | <0.6                 | U    |
| 6/21/2021                   | Carbazole                    | <0.6                 | U    |
| 6/21/2021                   | Benzo(a)fluoranthene, Total  | <0.8                 | U    |
| 6/21/2021                   | 2,4-Dimethylphenol           | <1                   | U    |
| 6/21/2021                   | 4-Nitrophenol                | <1                   | U    |
| 6/21/2021                   | Benzyl Alcohol               | <1                   | U    |
| 6/21/2021                   | 3,3'-Dichlorobenzidine       | <1.6                 | U    |
| 6/21/2021                   | 2,4,5-Trichlorophenol        | <1.8                 | U    |
| 6/21/2021                   | 2,4,6-Trichlorophenol        | <1.9                 | U    |
| 6/21/2021                   | 2,4-Dichlorophenol           | <1.9                 | U    |
| 6/21/2021                   | 4-Chloroaniline              | <1.9                 | U    |
| 6/21/2021                   | 4-Nitroaniline               | <1.9                 | U    |
| 6/21/2021                   | 2,4-Dinitrotoluene           | <2                   | U    |
| 6/21/2021                   | 2-Nitroaniline               | <2                   | U    |
| 6/21/2021                   | 4-Chloro-3-Methylphenol      | <2                   | U    |
| 6/21/2021                   | 2,6-Dinitrotoluene           | <2.1                 | U    |
| 6/21/2021                   | 3-Nitroaniline               | <2.2                 | U    |
| 6/21/2021                   | Hexachlorocyclopentadiene    | <2.5                 | U    |
| 6/21/2021                   | Pentachlorophenol            | <2.6                 | U    |
| 6/21/2021                   | Benzoic acid                 | <3.4                 | U    |
| 6/21/2021                   | 2,4-Dinitrophenol            | <4.9                 | U    |
| 6/21/2021                   | 4,6-Dinitro-2-methylphenol   | <5                   | U    |

# APPENDIX

## **B** HISTORICAL PHOTOGRAPHS AND MAPS IN THE AREA OF APRON R AND OTHER RELEVANT INFORMATION



Photo 1. Aerial photo from 1936 of the area, this pre-dates Boeing and is all as farmland. Important structures in the photo are the Shuffleton power plant with the associated fueling dock and two large oil tanks.



Photo 2. Aerial photo from approximately 1960 of the area containing a portion of the current Boeing Renton Facility. Important structures in the photo include the presence of the fueling dock (bottom left) and two large oil tanks for Shuffleton power plant, with associated pump house and containment berms. The pipelines are above ground by the tanks as they bend over the berms and 2 fuel lines appear to be above ground to the fueling dock. Some type of structure exists on land at end of the fueling dock and is included on 1967 drawings. This 1960 aerial photo is before Boeing Buildings 4-81/82 and Apron R were constructed in 1967.







Photo 4. 1967 details from Boeing Construction drawing of Building 4-81/82 with overlay on the 1936 aerial photo of the Shuffleton Power plant and associated infrastructure, highlighted in purple.





Photo 5. 2013 Aerial photo of Apron R and Building 4-81/82. The Shuffleton cooling water discharge canal is visible in the image. The prior cooling water discharge canal is important as its construction was part of the dismantling of the fueling dock and filling the DNR lease land in 1967 (completed by PSE).



Photo 6. 2014 Aerial photo of Apron R and Building 4-81/82. The storm drain outfall is visible during the removal of the cooling water discharge channel from the Shuffleton Power plant (this work was completed by others at the start of the Southport redevelopment)





Photo 7. 2015 Aerial photo of Apron R and Building 4-81/82. With a visible excavation line in the DNR lease parcel (leased to PSE) where the storm water drain has been buried. The location of the storm water lines to outfall would have crossed path with any historical lines from the prior Shuffleton refueling dock.

DEPARTMENT OF ECOLOGY  
*Toxics Cleanup Program*

Memorandum

March 12, 2018

TO: TCP Files for PSE Shuffleton Steam Plant, Shuffleton Substation, and DNR Lease Area

FROM: Donna Musa, Toxics Cleanup Program, Northwest Regional Office

SUBJECT: Recommendation for Site and File Reorganization

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Ecology's Integrated Site Information System (ISIS) database indicates only one "site" for the multiple parcel property known as PSE Shuffleton Substation. After a review of the site files (see attached PSE Shuffleton Summary: Site History), it has been determined that there are three separate areas of contamination, not one, as previously reflected in ISIS and Ecology site files.

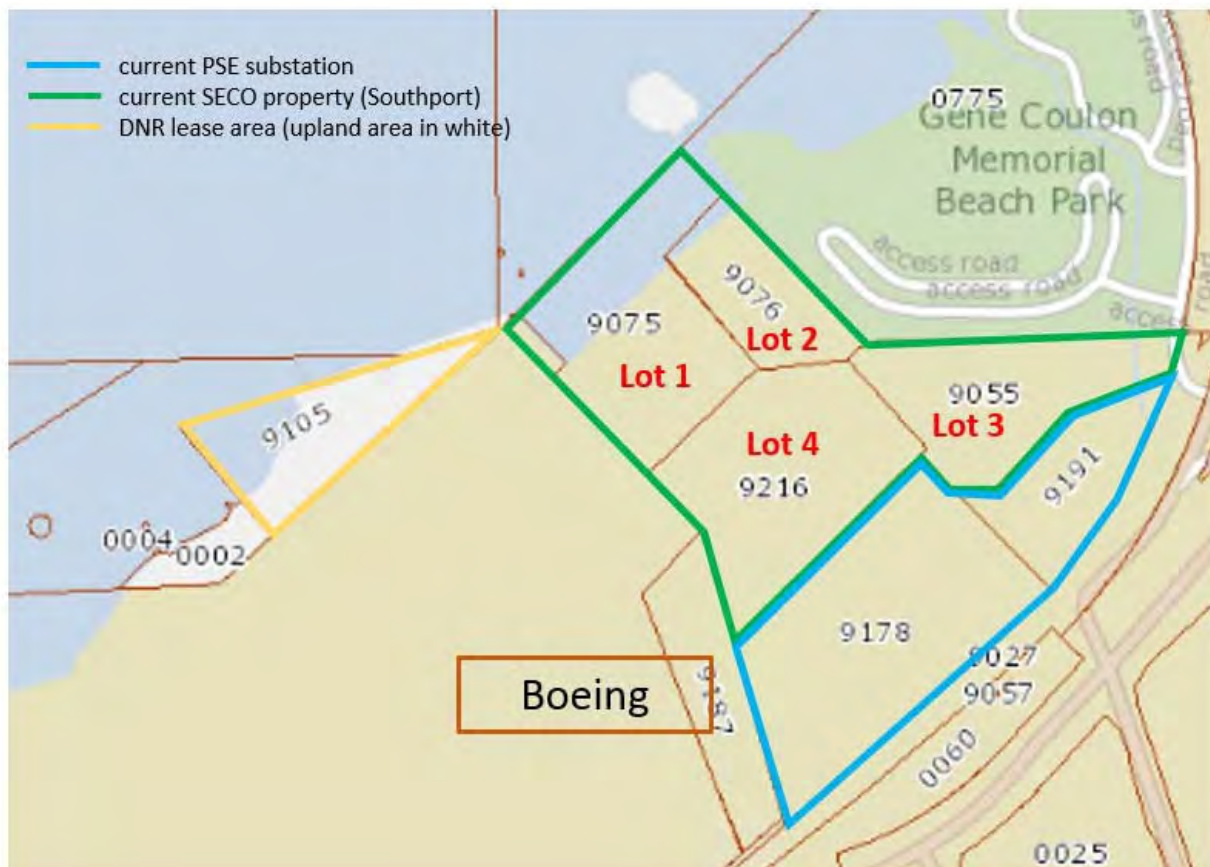
Ecology will be updating the ISIS database and site files to reflect the following:

- 1) PSE Shuffleton Substation  
Also known as: PSE Shuffleton Complex, Puget Sound Power & Light  
Address: 1095 Lake Washington Blvd N, Renton  
Parcels: 0823059178, 0823059191  
Facility Site ID: 14655  
Cleanup Site ID: 6716  
UST ID: 8530  
Historic LUST Release ID: 301394  
Site Status: Cleanup Started
- 2) PSE Shuffleton Steam Plant  
Also known as: PSE Shuffleton Complex, Southport, SECO  
Address: 1101 Lake Washington Blvd N, Renton  
Parcels: 0523059075, 0523059076, 0823059055, 0823059216  
Facility Site ID: 82611157  
Cleanup Site ID: 14483  
Unit 1: Lots 1-3, NW0149, NFA on 9/20/99  
Unit 2: Lot 4, NW0461, NFA on 12/23/00  
Site Status: No Further Action
- 3) PSE Shuffleton DNR Lease Area  
Address: N/A  
Parcel: 0723059105  
Facility Site ID: 82611157  
Cleanup Site ID: 14484  
Site Status: No Further Action (6/26/00)

## SITE HISTORY

The Puget Sound Energy Shuffleton site housed two main facilities: a steam plant on the northern portion of the site and a substation on the southern portion of the site. The steam plant portion of the property also contained other associated buildings, including a pump house, analytical laboratory, and storage buildings. The steam plant was functional daily until the mid-1950s, and remained functional in a standby status until 1989. The steam plant and associated buildings were demolished in the mid-1990s, at which point remediation of this portion of the site began prior to sale of the property. The substation portion of the site remains a functioning PSE property to the present.

The former steam plant portion of the property was divided into four regions, referred to as Lots 1-4. These regions correspond to current parcel numbers 0523059075, 0523059076, 0823059055, and 0823059216. The current Shuffleton substation property includes parcel numbers 0823059178 and 0823059191. A DNR lease area along Lake Washington was historically held by PSE. The DNR area primarily borders the Boeing property to the west of the site, and is approximately designated by current parcel 0723059105. Lots 1-4 were sold to SECO Development in 1999. Current property boundaries are indicated in the figure below.



**CLEANUP ACTIVITIES PRIOR TO NFA LETTERS**

The upland site first entered VCP in 1998 (VCP # NW0149). Multiple meetings are documented as being attended by PSE, consulting, and Ecology staff to discuss cleanup while remedial actions were being performed. The focus of the cleanup was Lots 1-4, and not the section of the property that was to remain PSE property. Chemicals of concern in this area included TPH, PAH, PCB, arsenic, and lead in soil, with areas of contamination located near areas of former plant activity. Groundwater was also characterized during remedial activities, and the only chemical present at elevated concentrations was arsenic. Based on information from other sites in the area, this was attributed to high natural background concentrations of arsenic in the region and not attributed to site activities.

Primary remediation activities were completed in 1999 (VCP # NW0149). Following this, an NFA letter was issued by Ecology on September 20, 1999 for soil and groundwater on Lots 1, 2, and 3. One remaining area of petroleum contaminated soil remained on Lot 4, and it was decided that this area would be addressed during construction activities when the soil would be accessible. Remediation was completed on Lot 4 in 2000 (VCP # NW0461), and an NFA letter for Lot 4 soil was issued on December 23, 2000. Groundwater conditions on Lot 4 had not been reported to differ from Lots 1-3, so it is unclear why different media were included in the two NFA letters.

The portion of the site to be retained by PSE was not well characterized during remedial activities. One soil sampling area on Lot 3 (EZ-11) extended across boundaries into the substation property. Soil on the SECO property were cleaned up, and contaminated soil on the PSE property were left in place due to difficulties in accessibility. Multiple reports were submitted documenting the removal of USTs near the former pump island, including LUST #3865 (UST #8530), and the cleanup of contaminated soil in this area. The DNR lease area was addressed separately from the steam plant and substation property. In 1966-1967, while they held the DNR lease, PSE created the upland portion of the lease area with dredged Lake Washington fill, and were therefore responsible for cleaning up any contamination prior to ending their lease. An NFA letter for the upland portion of the DNR lease area was issued on June 26, 2000.

**CLEANUP ACTIVITIES SINCE NFA LETTERS**

The only cleanup activity reported to Ecology on Lots 1-4 since 2000 was the discovery and cleanup of a small area of Bunker C fuel oil contaminated soil. This was discovered on Lot 4 during construction activities in 2001 and removed. On the PSE substation, multiple remediated spills have been reported. Details on these spills are in the table below.



| <u>DATE OF REPORT</u> | <u>TYPE OF SPILL</u> | <u>ERTS#</u> |
|-----------------------|----------------------|--------------|
| October 2001          | mineral oil          | 520270       |
| February 2002         | mineral oil          |              |
| March 2002            | mineral oil          | 525102       |
| May 2007              | mineral oil          |              |
| January 2014          | mineral oil          | 645655       |
| April 2014            | diesel               | 647602       |
| October 2014          | mineral oil          | 651666       |
| November 2016         | mineral oil          | 665783       |
| April 2017            | mineral oil          | 670760       |

#### **CURRENT QUERY REGARDING NFA FOR LOTS 1-4**

On December 20, 2017, FloydSnider submitted a letter to Ecology on behalf of SECO Development inquiring about a change in site status from NFA to Cleanup Started. They believe that this change in designation was related to a mineral oil spill reported on the PSE substation property in February 2017. This spill was designated NFA during the Initial Investigation. For this spill, a new site ID (CSID 14410) was created for the substation property; all cleanup activities from both the SECO property and the substation prior to this had been recorded in the original PSE Shuffleton cleanup site (CSID 6716). They inquired both about reestablishing the NFA for the site, and the possibility of splitting the sites to designate incidents on SECO property from those on the PSE substation property.

From notes from meetings attended by Ecology and PSE as part of the VCP cleanup process, it appears that separation of the sites was considered before cleanup began. To expedite cleanup, it was decided to leave it as one site with the option to separate the sites at a later date. Historically, there has been a clear difference in the level of cleanup activities on the SECO vs substation properties. Contamination on the SECO property has, to date, all been attributable to historic PSE contamination. In contrast, the substation property is still active and has reported a number of spills and cleanups that are unrelated to activities on the SECO property. Current tax parcel boundaries capture the designation between the two sites well, and would provide a good basis for site delineation.

# APPENDIX

## C BORING LOGS



## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                  |
|---------------------------------------------|-------------------------------|----------------------------------------|----------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>1NE</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                  |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/19/2024                |                                  |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/19/2024             |                                  |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                  |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                  |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                  |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                  |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                  |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                          |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                |
| 0-1'  |                          |                 |                            |                                              | SW       | Concrete 16"                             |
| 2'    |                          |                 |                            |                                              |          |                                          |
| 3'    |                          |                 |                            |                                              |          | Fill                                     |
| 4'    |                          |                 |                            | 150 ppb, no sheen,                           |          |                                          |
| 5'    | Soil+GW                  |                 |                            | no odor                                      |          | Grey poorly sorted sand , fine to coarse |
| 6'    |                          |                 |                            |                                              |          |                                          |
| 7'    |                          |                 |                            |                                              |          |                                          |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, no sheen, no odor                     |          | Grey clay with organic material          |
| 9'    |                          |                 |                            |                                              |          |                                          |
| 10'   |                          |                 |                            |                                              |          |                                          |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                                   |                                    |                           |
|---------------------------------------------|-----------------------------------|------------------------------------|---------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>                   | <b>SHEET</b><br>1 of 1             | <b>BORING NO.:</b><br>1NW |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>           | <b>TOTAL DEPTH:</b><br>8 ft bgs    |                           |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL              | <b>BEGUN:</b> 3/19/2024            |                           |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh              | <b>FINISHED:</b> 3/19/2024         |                           |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60      | <b>GROUND ELEV.:</b> ~10 ft        |                           |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b>     | <b>GROUND WATER (DEPTH/ELEV.):</b> |                           |
| <b>SAMPLER TYPE:</b> liner                  | <b>TOP OF ROCK (DEPTH/ELEV.):</b> |                                    |                           |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' | <b>HAMMER WEIGHT:</b> NA          |                                    |                           |
|                                             | <b>HAMMER FALL:</b> NA            |                                    |                           |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                                                          |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|--------------------------------------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                                                |
| 0-1'  |                          |                 |                            |                                              |          | Concrete 16"                                                             |
| 2'    |                          |                 |                            |                                              |          | Fill                                                                     |
| 3'    |                          |                 |                            |                                              |          |                                                                          |
| 4'    |                          |                 |                            | 6500 ppb, sheen,                             |          |                                                                          |
| 5'    | Soil+GW<br>Dup           |                 |                            | petroleum odor<br>31500 ppb, sheen           | SC       | Grey clayey sand silt with lots of organic material -<br>Tar consistency |
| 6'    |                          |                 |                            | Petroleum odor -sticky<br>Tar                | SW       | Grey poorly sorted sand fining with depth towards SP sand                |
| 7'    |                          |                 |                            |                                              |          |                                                                          |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, no sheen, no odor                     | CL       | Grey silty clay with organics                                            |
| 9'    |                          |                 |                            |                                              |          |                                                                          |
| 10'   |                          |                 |                            |                                              |          |                                                                          |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                  |
|---------------------------------------------|-------------------------------|----------------------------------------|----------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>1SE</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                  |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/18/2024                |                                  |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/18/2024             |                                  |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                  |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                  |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                  |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                  |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                  |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |                                 |                                        |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|---------------------------------|----------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG                        | STRATIGRAPHIC DESCRIPTION              |
| 0-1'  |                          |                 |                            |                                              | CL/ML<br><br>SW<br><br>ML<br>CL | Concrete 16"                           |
| 1'    |                          |                 |                            |                                              |                                 |                                        |
| 2'    |                          |                 |                            |                                              |                                 | Fill                                   |
| 3'    |                          |                 |                            |                                              |                                 |                                        |
| 4'    |                          |                 |                            | 2200 ppb, sheen,                             |                                 | Grey/brown silty clay                  |
| 5'    | Gw+soil                  |                 |                            | Petroleum odor                               |                                 |                                        |
| 6'    |                          |                 |                            | 5 ppb, No sheen, no odor                     |                                 | Grey poorly sorted sand fine to coarse |
| 7'    |                          |                 |                            |                                              |                                 |                                        |
| 8'    | Gw+soil                  |                 |                            | 0 ppb, No sheen, no odor                     |                                 | Grey silt                              |
| 9'    |                          |                 |                            |                                              |                                 | Dark brown clay with roots             |
| 10'   |                          |                 |                            |                                              |                                 |                                        |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core



## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                  |
|---------------------------------------------|-------------------------------|----------------------------------------|----------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>1SW</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                  |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/18/2024                |                                  |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/18/2024             |                                  |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                  |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                  |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                  |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                  |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                  |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                           |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|-------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                 |
| 0-1'  |                          |                 |                            |                                              |          | Concrete 16"                              |
| 2'    |                          |                 |                            |                                              |          |                                           |
| 3'    |                          |                 |                            |                                              |          | Fill                                      |
| 4'    |                          |                 |                            |                                              |          |                                           |
| 5'    | Gw+soil                  |                 |                            | 0 ppb, no sheen, no odor                     | SP       | Brown fine sand with silt                 |
| 6'    |                          |                 |                            | 0 ppb, no sheen, no odor                     | SW       | Grey poorly sorted sand fine to coarse    |
| 7'    |                          |                 |                            |                                              |          | - Getting coarser with depth              |
| 8'    | Gw+soil                  |                 |                            | 0 ppb, no sheen, no odor                     | ML/CL    | Rocks/gravel zone                         |
| 9'    |                          |                 |                            |                                              |          | Grey silty clay with wood chips and roots |
| 10'   |                          |                 |                            |                                              |          |                                           |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                 |
|---------------------------------------------|-------------------------------|----------------------------------------|---------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>2E</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                 |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/19/2024                |                                 |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/19/2024             |                                 |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                 |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                 |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                 |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                 |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                 |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                              |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION    |
| 0-1'  |                          |                 |                            |                                              |          | Concrete 16"                 |
| 2'    |                          |                 |                            |                                              |          |                              |
| 3'    |                          |                 |                            |                                              |          | Fill                         |
| 4'    |                          |                 |                            |                                              |          |                              |
| 5'    | Soil                     |                 |                            | 0 ppb, no sheen, no odor                     | ML/CL    | Grey silty clay              |
| 6'    |                          |                 |                            |                                              |          |                              |
| 7'    |                          |                 |                            |                                              | SP       | Grey sorted fine-medium sand |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, no sheen, no odor                     | SW       | Grey poorly sorted sand      |
| 9'    |                          |                 |                            |                                              |          |                              |
| 10'   |                          |                 |                            |                                              |          |                              |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                  |
|---------------------------------------------|-------------------------------|----------------------------------------|----------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>2NE</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                  |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/19/2024                |                                  |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/19/2024             |                                  |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                  |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                  |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                  |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                  |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                  |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                              |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|----------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                    |
| 0-1'  |                          |                 |                            |                                              | ML       | Concrete 16"                                 |
| 1'    |                          |                 |                            |                                              |          |                                              |
| 2'    |                          |                 |                            |                                              |          | Fill                                         |
| 3'    |                          |                 |                            |                                              |          |                                              |
| 4'    |                          |                 |                            |                                              |          |                                              |
| 5'    | Soil                     |                 |                            | 9200 ppb, sheen, petroleum odor              |          | Grey silt with clay and some fine sand - dry |
| 6'    |                          |                 |                            | 150 ppb, no sheen no odor                    |          | Increasing clay content and roots with depth |
| 7'    |                          |                 |                            |                                              |          |                                              |
| 8'    | Soil                     |                 |                            | 0 ppb, no sheen, no odor                     |          | Grey clay with fine sand, silt and roots     |
| 9'    |                          |                 |                            |                                              |          |                                              |
| 10'   |                          |                 |                            |                                              | CL       |                                              |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                                   |                                    |                           |
|---------------------------------------------|-----------------------------------|------------------------------------|---------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>                   | <b>SHEET</b><br>1 of 1             | <b>BORING NO.:</b><br>2NW |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>           | <b>TOTAL DEPTH:</b><br>8 ft bgs    |                           |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL              | <b>BEGUN:</b> 3/19/2024            |                           |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh              | <b>FINISHED:</b> 3/19/2024         |                           |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60      | <b>GROUND ELEV.:</b> ~10 ft        |                           |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b>     | <b>GROUND WATER (DEPTH/ELEV.):</b> |                           |
| <b>SAMPLER TYPE:</b> liner                  | <b>TOP OF ROCK (DEPTH/ELEV.):</b> |                                    | <b>HAMMER WEIGHT:</b> NA  |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' | <b>HAMMER FALL:</b> NA            |                                    |                           |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                                                             |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|-----------------------------------------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                                                   |
| 0-1'  |                          |                 |                            |                                              |          | Concrete 16"                                                                |
| 2'    |                          |                 |                            |                                              |          | Fill                                                                        |
| 3'    |                          |                 |                            |                                              |          |                                                                             |
| 4'    |                          |                 |                            | 16500 ppb, sheen,                            |          |                                                                             |
| 5'    | Soil+GW<br>Dup           |                 |                            | petroleum odor<br>16900 ppb, sheen           | CL       | Grey clay with sand silt with lots of organic material -<br>Tar consistency |
| 6'    |                          |                 |                            | Petroleum odor -sticky<br>Tar                | SP<br>CL | Grey sorted medium sand 3"<br>Grey clay with organics                       |
| 7'    |                          |                 |                            |                                              |          |                                                                             |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, no sheen, no odor                     | SP<br>CL | Grey sorted medium sand 3"<br>Grey clay with organics                       |
| 9'    |                          |                 |                            |                                              |          |                                                                             |
| 10'   |                          |                 |                            |                                              |          |                                                                             |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                    |                           |
|---------------------------------------------|-------------------------------|------------------------------------|---------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1             | <b>BORING NO.:</b><br>2SE |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br>8 ft bgs    |                           |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/18/2024            |                           |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/18/2024         |                           |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft        |                           |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b> |                           |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>  |                           |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA           |                           |
|                                             |                               | <b>HAMMER FALL:</b> NA             |                           |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                                                                                                                |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                                                                                                      |
| 0-1'  |                          |                 |                            |                                              |          | Concrete 16"                                                                                                                   |
| 2'    |                          |                 |                            |                                              |          | Fill                                                                                                                           |
| 3'    |                          |                 |                            |                                              |          |                                                                                                                                |
| 4'    |                          |                 |                            | 0 ppb, No sheen, no odor                     | CL/ML PT | Grey silty clay with some fine sand with 3" of organic material (wood and roots) in between the silty clay with some fine sand |
| 5'    | Soil                     |                 |                            |                                              | CL/ML    |                                                                                                                                |
| 6'    |                          |                 |                            | 0 ppb, No sheen, no odor                     | SW       | Grey poorly sorted sand fine to coarse                                                                                         |
| 7'    |                          |                 |                            |                                              |          |                                                                                                                                |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, No sheen, no odor                     | CL/ML    | Grey/brown silty clay                                                                                                          |
| 9'    |                          |                 |                            |                                              |          |                                                                                                                                |
| 10'   |                          |                 |                            |                                              |          |                                                                                                                                |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                  |
|---------------------------------------------|-------------------------------|----------------------------------------|----------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>2SW</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                  |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/18/2024                |                                  |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/18/2024             |                                  |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                  |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                  |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                  |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                  |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                  |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                                                                          |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|------------------------------------------------------------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION                                                                |
| 0-1'  |                          |                 |                            |                                              | SP<br>SW | Concrete 16"                                                                             |
| 2'    |                          |                 |                            |                                              |          |                                                                                          |
| 3'    |                          |                 |                            |                                              |          | Fill<br>Carbon sand?                                                                     |
| 4'    |                          |                 |                            | 0 ppb, no sheen,                             |          |                                                                                          |
| 5'    | Soil+GW                  |                 |                            | no odor                                      |          | Brown fine sand with silt<br>Grey poorly sorted sand fine to coarse<br>Only 10% recovery |
| 6'    |                          |                 |                            | 0 ppb, no sheen, no odor                     |          |                                                                                          |
| 7'    |                          |                 |                            |                                              |          |                                                                                          |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, no sheen, no odor                     |          |                                                                                          |
| 9'    |                          |                 |                            |                                              |          |                                                                                          |
| 10'   |                          |                 |                            |                                              |          |                                                                                          |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core



## CALIBRE Systems

## GEOLOGIC BORING LOG

|                                             |                               |                                        |                                 |
|---------------------------------------------|-------------------------------|----------------------------------------|---------------------------------|
| <b>PROJECT:</b> Boeing Renton               | <b>JOB NO.:</b>               | <b>SHEET</b><br>1 of 1                 | <b>BORING NO.:</b><br><b>2W</b> |
| <b>PROJECT LOCATION:</b><br>Renton, WA      | <b>BORING LOCATION:</b>       | <b>TOTAL DEPTH:</b><br><b>8 ft bgs</b> |                                 |
| <b>DRILL CONTRACTOR:</b> Cascade            | <b>GEOLOGIST:</b> RL          | <b>BEGUN:</b> 3/19/2024                |                                 |
| <b>DRILL RIG:</b> Geoprobe                  | <b>DRILLER:</b> Josh          | <b>FINISHED:</b> 3/19/2024             |                                 |
| <b>HOLE SIZE:</b> 8"                        | <b>WEATHER:</b> Sunny and 60  | <b>GROUND ELEV.:</b> ~10 ft            |                                 |
| <b>DRILLING METHOD:</b> Direct Push         | <b>DRILLING FLUID/SOURCE:</b> | <b>GROUND WATER (DEPTH/ELEV.):</b>     |                                 |
| <b>SAMPLER TYPE:</b> liner                  |                               | <b>TOP OF ROCK (DEPTH/ELEV.):</b>      |                                 |
| <b>SAMPLER LENGTH AND DIAM.:</b> 1.25" x 5' |                               | <b>HAMMER WEIGHT:</b> NA               |                                 |
|                                             |                               | <b>HAMMER FALL:</b> NA                 |                                 |

| DEPTH | SAMPLE TYPE/DEPTH/NUMBER | Sample Interval | Graphic Driven - Recovered | Location Figure                              |          |                                        |
|-------|--------------------------|-----------------|----------------------------|----------------------------------------------|----------|----------------------------------------|
|       |                          |                 |                            | NOTES:<br>(PRODUCT, ODOR, OVA READING, ETC.) | USCS LOG | STRATIGRAPHIC DESCRIPTION              |
| 0-1'  |                          |                 |                            |                                              |          | Concrete 16"                           |
| 2'    |                          |                 |                            |                                              |          | Fill                                   |
| 3'    |                          |                 |                            |                                              |          |                                        |
| 4'    |                          |                 |                            | 0 ppb, no sheen,                             | SP       | Grey sorted fine sand with silt        |
| 5'    | Soil+GW                  |                 |                            | no odor                                      |          |                                        |
| 6'    |                          |                 |                            |                                              | ML       | Grey silt with clay                    |
| 7'    |                          |                 |                            |                                              | SW       | Grey poorly sorted sand fine to coarse |
| 8'    | Soil+GW                  |                 |                            | 0 ppb, no sheen, no odor                     | CL/ML    | Grey silt clay with organic material   |
| 9'    |                          |                 |                            |                                              |          |                                        |
| 10'   |                          |                 |                            |                                              |          |                                        |

## FROM 0 TO 10 FT

PID = Photo ionization detector; field samples screened with PID over split-spoon sample when opened with calibrated PID.

GSA = Sample for grain size analysis

TA = Target analytes: VOC, SVOC, Metals, TSS

SAMPLE TYPES: SS = SPLIT SPOON, MP = MACRO PISTON, CC = Continuous Core

# APPENDIX

**D**

DATA

VALIDATION





## MEMO

**TO:** Kathleen Goodman, Project Manager  
**FROM:** Caitlin Riechmann  
**SUBJECT:** Summary Data Quality Review  
March 2024 Boeing Renton Groundwater Sampling  
Apron R  
ARI Group Number: 24C0437  
**DATE:** June 17, 2024  
**CC:** Project File

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## BACKGROUND

This memo presents the summary data quality review of 17 groundwater samples, including one groundwater field duplicate and one trip blank, and 21 soil samples, including one soil field duplicate, collected on March 18 and 19, 2024.

## RESULTS

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) by U.S. Environmental Protection Agency (EPA) Method 8260D with selected ion monitoring;
- Semivolatile organic compounds (SVOCs) by EPA Method 8270E; and
- Total petroleum hydrocarbons in the diesel and motor oil ranges (TPH-D and TPH-MO) by Ecology Method NWTPH-Dx.

The samples and the analyses conducted on the samples are summarized in Table 1.

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, 2020a and b).



ARI received the samples on March 19, 2024. The temperature of the coolers was recorded upon receipt and all coolers were above the maximum acceptable temperature of 6 degrees Celsius (°C). The COC lists a total cooler count of 3, but the laboratory received 4 total coolers. According to the cooler receipt form, one of the containers for the soil sample 2SW 4 031824 was unlabeled. ARI determined which sample the container belonged to through process of elimination and proceeded with analysis. According to the cooler receipt form, the sample container label for sample 1SE 4 031824 listed a collection time of 10:00, while the COC listed a collection time of 11:00. ARI logged the sample per the COC.

## **ORGANIC ANALYSES**

Samples were analyzed for VOCs, SVOCs, TPH-D, and TPH-MO. Laboratory data were evaluated for the following parameters:

### **1. PRESERVATION AND HOLDING TIMES – ACCEPTABLE EXCEPT AS NOTED:**

The temperature of all four coolers upon receipt at ARI were above the maximum acceptable temperature, at 9.6°C, 11.8°C, 11.3°C, and 8.2°C.

- WSP J qualified the detected and UJ qualified the non-detect results from samples 1SE-4-031824 (solid and water), 1SE-8-031824 (solid and water), 1SW-4-031824 (solid and water), 1SW-8-031824 (solid and water), 2NE-4-031924, 2SE-4-031824, 2SE-8-031824 (solid and water), 2SW-4-031824 (solid and water), 2SW-8-031824 (solid and water), and DUP01-031924 (solid and water) because they were received at an elevated receipt temperature and sampled more than eight hours before receipt at the lab. (J/UJ, TH6)

The remaining samples were collected less than eight hours before receipt at the laboratory, likely did not have sufficient time to reach thermal equilibrium with the ice in the coolers, and data were not qualified based on the elevated sample receipt temperatures.

### **2. BLANKS – ACCEPTABLE EXCEPT AS NOTED:**

1,2,4 Trimethylbenzene was detected at a concentration of 0.05 microgram per liter (µg/L) in the laboratory blank associated with the analysis of water samples 1NE-4-031924, 1NE-8-031924, 1NW-4-031924, 1NW-8-031924, 2E-8-031924, 2NW-8-031924, 2SW-4-031824, 2SW-8-031824, 2W-4-031924, 2W-8-031924, and DUP01-031924. Data limitations are summarized below.

- WSP U qualified the 1,2,4 trimethylbenzene results from samples 1NW-8-031924 and 2NW-8-031924 at the RL of 0.20 µg/L because the detected concentrations were less than the RL. (U, MB)
- 1,2,4 Trimethylbenzene was not detected in the remaining associated samples and data usability is not adversely affected by the blank detection.

### **3. SURROGATES – ACCEPTABLE EXCEPT AS NOTED:**

Recoveries of the surrogate compounds 2-fluorophenol (10.3%), phenol-d<sub>5</sub> (9.50%), 2-chlorophenol-d<sub>4</sub> (12.2%), 1,2-dichlorobenzene-d<sub>4</sub> (14.6%), nitrobenzene-d<sub>5</sub> (25.6%), 2-fluorobiphenyl (30.5%), 2,4,6-tribromophenol (12.3%), and p-terphenyl-d<sub>14</sub> (20.9%) were low in the standard analysis of soil sample DUP01-031924. Data limitations are summarized below.

- WSP R qualified and rejected the acid extractable compounds (phenols and benzoic acid) from the associated sample due to extremely low surrogate recoveries. (R, LS)

- WSP J qualified the detected and UJ qualified the non detect base extractable compounds from the associated sample due to low surrogate recoveries. (J/UJ, LS)

The surrogate compound o-terphenyl was not recovered in the 1:100 dilution analysis of soil samples DUP01 031924 and 1NW-4-031924 due to sample matrix interference. No data were qualified based on low surrogate recoveries.

The surrogate compounds 2-fluorophenol, phenol-d<sub>5</sub>, 2-chlorophenol-d<sub>4</sub>, 1,2-dichlorobenzene-d<sub>4</sub>, nitrobenzene-d<sub>5</sub>, 2-fluorobiphenyl, 2,4,6-tribromophenol, and p-terphenyl-d<sub>14</sub> were not recovered in the 1:25 dilution analysis of soil sample DUP01-031924 and the 1:20 dilution analysis of soil sample 2NW-4-031924 due to sample matrix interference. No data were qualified based on low surrogate recoveries.

#### 4. LCS/LCSD – ACCEPTABLE EXCEPT AS NOTED:

4-Chloroaniline (1.93%, 0%), 3,3'-dichlorobenzidine (13.9%, 15.3%), n-nitrosodiphenylamine (56.1%, 63.5%), and n-nitrosodi-n-propylamine (50.5%, LCS) recoveries were low in the LCS and/or LCSD associated with the analysis of water samples 1NE-4-031924, 1NE-8-031924, 1NW-4-031924, 1NW-8-031924, 1SE-4-031824, 1SE-8-031824, 1S- 4-031824, 1SW-8-031824, 2E-8-031924, 2NW-8-031924, 2SE-8-031824, 2SW-4-031824, 2SW-8-031824, 2W-4-031924, 2W-8-031924, and DUP01-031924. Additionally, the RPD between hexachlorobutadiene results was high at 32.60%. Data limitations are summarized below.

- WSP R qualified and rejected the non-detect 4-chloroaniline results from the associated samples because of the extremely low LCS recoveries. (R, LL)
- WSP UJ qualified the non-detect 3,3'-dichlorobenzidine, n-nitrosodiphenylamine, and n-nitrosodi-n-propylamine results from the associated samples due to potential low analytical bias. (UJ, LL)
- Hexachlorobutadiene was not detected in the associated samples and data usability is not adversely affected by potential analytical imprecision.

Benzoic acid and 2,4-dimethylphenol recoveries were low at 38.1% and 21.8%, respectively, in the LCSD associated with the analysis of soil samples 1N- 4-031924, 1NE-8-031924, 1NW-8-031924, 2NW-4-031924, 2NW-8-031924, 2W-4-031924, 2W-8-031924, and DUP01-031924. Additionally, the RPD between 4,6-dinitro-2-methylphenol was high at 80.40%. Data limitations are summarized below.

- WSP J qualified the detected and UJ qualified the non-detect benzoic acid and 2,4-dimethylphenol results from samples 1NE-4-031924, 1NE-8-031924, 1NW-8-031924, 2NW-4-031924, 2NW-8-031924, 2W-4-031924, and 2W-8-031924 due to potential low analytical bias. (J /UJ, LL)
- The benzoic acid and 2,4-dimethylphenol results from soil sample DUP01-031924 were previously rejected due to extremely low surrogate recoveries and the data were not additionally qualified.
- 4,6-Dinitro-2-methylphenol was not detected in the associated samples and data usability is not adversely affected by potential analytical imprecision.

TPH D recovery was high at 126% in the LCS associated with the analysis of water samples 1NE-4-031924, 1NE-8-031924, 1NW-4-031924, 1NW-8-031924, 1SE-4-031824, 1SE-8-31824, 1SW-4-031824, 1SW-8-031824, 2E-8-031924, 2NW-8-031924, 2SE-8-031824, 2SW-4-031824, 2SW-8-031824, 2W-4-031924, 2W-8-031924, and DUP01-031924. WSP J+ qualified the detected TPH D results from the associated samples due to potential high analytical bias. (J+, HL)

1,2,4-Trichlorobenzene (132%), hexachloro-1,3-butadiene (146%), and 1,2,3-trichlorobenzene (138%) recoveries were high in the LCSD associated with the analysis of water samples 1SE-4-031824, 1SE-8-031824, 1SW-4-031824, 1SW-8-031824, and 2SE-8-031824. Additionally, The RPD between trichlorofluoromethane results was high at 42.8%. Data limitations are summarized below.



- 1,2,3-Trichlorobenzene, 1,2,4-trichlorobenzene, and hexachloro-1,3-butadiene were not detected in the associated samples and data usability is not adversely affected by potential high analytical bias.
- Trichlorofluoromethane was not detected in the associated samples and data usability is not adversely affected by potential analytical imprecision.

## 5. MS/MSD – ACCEPTABLE

Extra volume was not submitted for analysis of MS/MSD samples.

## 6. FIELD DUPLICATES – ACCEPTABLE, EXCEPT AS NOTED.

Two field duplicates were submitted for each analysis during this sampling event, meeting the project frequency requirement of five percent, or one for every 20 samples. Primary and duplicate results are summarized in Table 2. The project specific control limit for field duplicate relative percent differences (RPDs) is 30 percent for concentrations greater than five times the reporting limit. The field duplicate RPDs were within the control limits, with the following exceptions.

RPDs between acetone (41%), toluene (36%), 4-isopropyltoluene (44%), naphthalene (SVOC [123%]), 2-methylnaphthalene (119%), acenaphthene (135%), fluorene (134%), phenanthrene (113%), anthracene (130%), fluoranthene (105%), pyrene (100%), benzo(a)anthracene (98%), chrysene (112%), benzo(a)pyrene (132%), and 1-methylnaphthalene (119%) results were high in soil sample 1NW-4-031924 and its field duplicate DUP01-03192024. WSP J qualified the detected acetone, toluene, 4-isopropyltoluene, naphthalene, 2-methylnaphthalene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(a)pyrene, and 1-methylnaphthalene results from sample 1NW-4-031924 and its field duplicate DUP01-03192024 due to potential sampling and/or analytical imprecision. (J, FD)

## 7. REPORTING LIMITS AND LABORATORY FLAGS – ACCEPTABLE EXCEPT AS NOTED:

According to the laboratory, pyrene recovery was high in the CCV associated with the analysis of soil samples 1NW-4-031924 and 1SE-4-031824. WSP J qualified the detected pyrene results from the associated samples due to potential high analytical bias. (J, CH)

According to the laboratory, carbazole recovery was high in the CCV associated with the analysis of soil sample DUP01-031924. WSP J qualified the detected carbazole result from the associated sample due to potential high analytical bias. (J, CH)

According to the laboratory, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, hexachloro-1,3-butadiene, naphthalene, and trichlorofluoromethane recoveries were high in the CCV associated with the analysis of water samples 1SE-4-031824, 1SE-8-031824, 1SW-4-031824, 1SW-8-031824, and 2SE-8-031824. WSP J qualified the detected and per the NFGs, UJ qualified the non-detect 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, hexachloro-1,3-butadiene, naphthalene, and trichlorofluoromethane results from the associated samples due to high CCV recoveries. (J/UJ, CH)

According to the laboratory, acrolein recovery was low, and 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and hexachloro-1,3-butadiene recoveries were high in the CCV associated with the analysis of water samples 1NE-4-031924, 1NE-8-031924, 1NW-4-031924, 1NW-8-031924, 2E-8-031924, 2NW-8-031924, 2SW-4-031824, 2S-8-031824, 2W-4-031924, 2W-8-031924, and DUP01-031924. Data limitations are summarized below.

- WSP UJ qualified the non-detect acrolein results from the associated samples due to potential low analytical bias. (UJ, LC)



- Per the NFGs, WSP UJ qualified the non-detect 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and hexachloro-1,3-butadiene recoveries from the associated samples due to high CCV recoveries. (UJ, CH)

According to the laboratory, 2-chloroethyl vinyl ether recovery was high in the CCV associated with the analysis of soil samples 2NW-4-031924 and 2W-4-031924. Per the NFGs, WSP UJ qualified the non-detect 2-chloroethyl vinyl ether results from the associated samples due to high CCV recovery. (UJ, CH)

According to the laboratory, 2-chloroethyl vinyl ether and iodomethane recoveries were low, and trichlorofluoromethane recovery was high in the CCV associated with the analysis of soil sample 2NW-8-031924. Data limitations are summarized below.

- WSP UJ qualified the non-detect 2-chloroethyl vinyl ether and iodomethane results from the associated sample due to potential low analytical bias. (UJ, LC)
- Per the NFGs, WSP UJ qualified the non-detect trichlorofluoromethane result from the associated sample due to high CCV recovery. (UJ, CH)

According to the laboratory, 2,4-dinitrophenol recovery was low and 4,6-dinitro-2-methylphenol recovery was high in the CCV associated with the analysis of water samples 1N-4-031924, 1NE-8-031924, 1NW-4-031924, 1NW-8-031924, 1SE-4-031824, 1SE-8-031824, 1SW-4-031824, 1SW-8-031824, 2E-8-031924, 2NW-8-031924, 2SE-8-031824, 2SW-4-031824, 2SW-8-031824, 2W-4-031924, 2W-8-031924, and DUP01-031924. Data limitations are summarized below.

- WSP UJ qualified the non-detect 2,4-dinitrophenol results from the associated samples due to potential low analytical bias. (UJ, LC)
- Per the NFGs, WSP UJ qualified the non-detect 4,6-dinitro-2-methylphenol results from the associated samples due to high CCV recovery. (UJ, CH)

According to the laboratory, 4 nitroaniline recovery was high in the CCV associated with the analysis of soil samples 1NW-4-031924, 1SE-4-031824, 1SE-8-031824, 1SW-4-031824, 1SW-8-031824, 2E-4-031924, 2E-8-031924, 2NE-4-031924, 2NE-8-031924, 2SE-4-031824, 2SE-8-031824, 2SW-4-031824, and 2SW-8-031824. Per the NFGs, WSP UJ qualified the non-detect 4 nitroaniline results from the associated samples due to high CCV recovery (UJ, CH)

According to the laboratory, 2,4-dinitrophenol recovery was low, and 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dinitrotoluene, 2-nitrophenol, 3,3'-dichlorobenzidine, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-nitroaniline, carbazole, and n-nitroso-di-n-propylamine recoveries were high in the CCV associated with the analysis of soil samples 1NE-4-031924, 1NE-8-031924, 1NW-8-031924, 2NW-4-031924, 2NW-8-031924, 2W-4-031924, 2W-8-031924, and DUP01-031924. Data limitations are summarized below.

- WSP UJ qualified the non-detect 2,4-dinitrophenol results from the associated samples due to potential low analytical bias. (UJ, LC)
- WSP J qualified the detected and per the NFGs, UJ qualified the non-detect 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dinitrotoluene, 2-nitrophenol, 3,3'-dichlorobenzidine, 3-nitroaniline, 4,6-dinitro-2-methylphenol, 4-nitroaniline, carbazole, and n-nitroso-di-n-propylamine results from the associated samples due to high CCV recovery. (UJ, CH)

ARI J qualified results when the detected result was less than the reporting limit. WSP agrees that these results are quantitatively uncertain and has maintained ARI's J qualifiers. (J, DL)

## OVERALL ASSESSMENT OF DATA

Table 3 summarizes the data assessment. The completeness of work order number 24C0437 is 99.4 percent. The usefulness of these data was evaluated based on EPA guidance documents listed in the introduction to this report. Some problems were identified, and analytical performance was generally within specified limits. The



data meet the project's data quality objectives, with the exception of acid extractable analytes from soil sample DUP01-031924, which were rejected due to extremely low surrogate recoveries and the 4-chloroaniline results from water samples 1NE-4-031924, 1NE-8-031924, 1NW 4 031924, 1NW-8-031924, 1SE-4-031824, 1SE-8-031824, 1SW-4-031824, 1SW-8-031824, 2E 8 031924, 2NW-8-031924, 2SE-8-031824, 2SW-4-031824, 2SW-8-031824, 2W-4-031924, 2W-8-031924, and DUP01-031924 which were rejected because the analyte could not be recovered from the associated LCS.

## 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), 2020a, U.S. EPA National Functional Guidelines for Organic Superfund Methods Data Review: EPA 540-R-20-005, November.

**Table 1**  
**Field Samples Submitted to Pace Analytical**  
**Boeing Renton Apron R**

| Field Sample Identification | Matrix | Collection Date and Time | Laboratory Sample Identification | Requested Analyses | Notes                           |
|-----------------------------|--------|--------------------------|----------------------------------|--------------------|---------------------------------|
| 2SE-4-031824                | Solid  | 3/18/2024 10:00          | 24C0437-01                       | all                |                                 |
| 2SE-8-031824                | Solid  | 3/18/2024 10:30          | 24C0437-02                       | all                |                                 |
| 2SE-8-031824                | Water  | 3/18/2024 10:30          | 24C0437-03                       | all                |                                 |
| 1SE-4-031824                | Solid  | 3/18/2024 11:00          | 24C0437-04                       | all                |                                 |
| 1SE-4-031824                | Water  | 3/18/2024 11:00          | 24C0437-05                       | all                |                                 |
| 1SE-8-031824                | Solid  | 3/18/2024 11:30          | 24C0437-06                       | all                |                                 |
| 1SE-8-031824                | Water  | 3/18/2024 11:30          | 24C0437-07                       | all                |                                 |
| 1SW-4-031824                | Solid  | 3/18/2024 12:00          | 24C0437-08                       | all                |                                 |
| 1SW-4-031824                | Water  | 3/18/2024 12:00          | 24C0437-09                       | all                |                                 |
| 1SW-8-031824                | Solid  | 3/18/2024 13:15          | 24C0437-10                       | all                |                                 |
| 1SW-8-031824                | Water  | 3/18/2024 13:15          | 24C0437-11                       | all                |                                 |
| 2SW-4-031824                | Solid  | 3/18/2024 14:00          | 24C0437-12                       | all                |                                 |
| 2SW-4-031824                | Water  | 3/18/2024 14:00          | 24C0437-13                       | all                |                                 |
| 2SW-8-031824                | Solid  | 3/18/2024 16:00          | 24C0437-14                       | all                |                                 |
| 2SW-8-031824                | Water  | 3/18/2024 16:00          | 24C0437-15                       | all                |                                 |
| 2NE-4-031924                | Solid  | 3/19/2024 8:00           | 24C0437-16                       | all                |                                 |
| 2NE-8-031924                | Solid  | 3/19/2024 8:45           | 24C0437-17                       | all                |                                 |
| 2E-4-031924                 | Solid  | 3/19/2024 9:30           | 24C0437-18                       | all                |                                 |
| 2E-8-031924                 | Solid  | 3/19/2024 9:50           | 24C0437-19                       | all                |                                 |
| 2E-8-031924                 | Water  | 3/19/2024 9:50           | 24C0437-20                       | all                |                                 |
| 1NW-4-031924                | Solid  | 3/19/2024 11:00          | 24C0437-21                       | all                |                                 |
| 1NE-4-031924                | Solid  | 3/19/2024 10:30          | 24C0437-22                       | all                |                                 |
| 1NE-4-031924                | Water  | 3/19/2024 10:30          | 24C0437-23                       | all                |                                 |
| 1NW-4-031924                | Water  | 3/19/2024 11:00          | 24C0437-24                       | all                |                                 |
| 1NE-8-031924                | Solid  | 3/19/2024 11:30          | 24C0437-25                       | all                |                                 |
| 1NE-8-031924                | Water  | 3/19/2024 11:30          | 24C0437-26                       | all                |                                 |
| DUP01-031924                | Water  | 3/19/2024 8:00           | 24C0437-27                       | all                | Field Duplicate of 1NW-4-031924 |
| DUP01-031924                | Solid  | 3/19/2024 8:00           | 24C0437-28                       | all                | Field Duplicate of 1NW-4-031924 |
| 2W-4-031924                 | Water  | 3/19/2024 13:00          | 24C0437-29                       | all                |                                 |
| 1NW-8-031924                | Solid  | 3/19/2024 12:30          | 24C0437-30                       | all                |                                 |
| 1NW-8-031924                | Water  | 3/19/2024 12:30          | 24C0437-31                       | all                |                                 |
| 2W-8-031924                 | Solid  | 3/19/2024 14:00          | 24C0437-32                       | all                |                                 |
| 2W-8-031924                 | Water  | 3/19/2024 14:00          | 24C0437-33                       | all                |                                 |
| 2NW-4-031924                | Solid  | 3/19/2024 14:30          | 24C0437-34                       | all                |                                 |
| 2NW-8-031924                | Solid  | 3/19/2024 15:30          | 24C0437-35                       | all                |                                 |
| 2NW-8-031924                | Water  | 3/19/2024 15:30          | 24C0437-36                       | all                |                                 |
| TRIP BLANK                  | Water  | 3/18/2024 10:00          | 24C0437-37                       | VOCs               | Trip Blank                      |
| 2W-4-031924                 | Solid  | 3/19/2024 13:00          | 24C0437-38                       | all                |                                 |

**Table 2**  
**Field Duplicate Detections**  
**Boeing Renton Apron R**

| Analyte                                        | Method   | Average Reporting Limit | Primary Result | Duplicate Result | RPD  | Notes |
|------------------------------------------------|----------|-------------------------|----------------|------------------|------|-------|
| Samples 1NW-4-031924 and DUP01-03192024 (soil) |          |                         |                |                  |      |       |
| Acetone                                        | 8260D    | 18.6 µg/kg              | 396            | 600              | 41%  | J-FD  |
| Carbon disulfide                               | 8260D    | 1.86 µg/kg              | 0.67 J         | 2.05 U           | NC   | ± RL  |
| Benzene                                        | 8260D    | 1.86 µg/kg              | 0.92 J         | 0.54 J           | 52%  | ± RL  |
| Toluene                                        | 8260D    | 1.86 µg/kg              | 13.5           | 9.35             | 36%  | J-FD  |
| Ethylbenzene                                   | 8260D    | 1.86 µg/kg              | 11.0           | 8.88             | 21%  |       |
| m,p-Xylene                                     | 8260D    | 3.72 µg/kg              | 38             | 31.5             | 19%  |       |
| o-Xylene                                       | 8260D    | 1.86 µg/kg              | 27.5           | 22.9             | 18%  |       |
| Total Xylenes                                  | 8260D    | 3.72 µg/kg              | 65.5           | 54.4             | 19%  |       |
| n-Propylbenzene                                | 8260D    | 1.86 µg/kg              | 5.90           | 7.17             | 19%  |       |
| Isopropyl benzene                              | 8260D    | 1.86 µg/kg              | 3.13           | 4.11             | 27%  |       |
| 1,3,5-Trimethylbenzene                         | 8260D    | 1.86 µg/kg              | 21.0           | 25.9             | 21%  |       |
| 1,2,4-Trimethylbenzene                         | 8260D    | 1.86 µg/kg              | 75.4           | 85.5             | 13%  |       |
| s-Butylbenzene                                 | 8260D    | 1.86 µg/kg              | 2.25           | 4.06             | 57%  | ± RL  |
| 4-Isopropyl toluene                            | 8260D    | 1.86 µg/kg              | 8.37           | 13.1             | 44%  | J-FD  |
| n-Butylbenzene                                 | 8260D    | 1.86 µg/kg              | 5.44           | 7.28             | 29%  |       |
| Naphthalene                                    | 8260D    | 9.32 µg/kg              | 150            | 136              | 10%  |       |
| Isophorone                                     | 8270E    | 259.5 µg/kg             | 499 U          | 91.7             | NC   | NA    |
| Naphthalene                                    | 8270E    | 259.5 µg/kg             | 2,650          | 630              | 123% | J-FD  |
| 2-Methylnaphthalene                            | 8270E    | 498.5 µg/kg             | 31,700         | 8,050            | 119% | J-FD  |
| Acenaphthene                                   | 8270E    | 259.5 µg/kg             | 5,550          | 1,080            | 135% | J-FD  |
| Fluorene                                       | 8270E    | 259.5 µg/kg             | 5,090          | 1,010            | 134% | J-FD  |
| Phenanthrene                                   | 8270E    | 498.5 µg/kg             | 14,000         | 3,890            | 113% | J-FD  |
| Anthracene                                     | 8270E    | 259.5 µg/kg             | 4,820          | 1,030            | 130% | J-FD  |
| Carbazole                                      | 8270E    | 259.5 µg/kg             | 499 U          | 239              | NC   | NA    |
| Fluoranthene                                   | 8270E    | 259.5 µg/kg             | 2,550          | 797              | 105% | J-FD  |
| Pyrene                                         | 8270E    | 498.5 µg/kg             | 10,700         | 3,570            | 100% | J-FD  |
| Benzo(a)anthracene                             | 8270E    | 259.5 µg/kg             | 3,560          | 1,220            | 98%  | J-FD  |
| Chrysene                                       | 8270E    | 259.5 µg/kg             | 5,620          | 1,580            | 112% | J-FD  |
| Total benzofluoranthenes                       | 8270E    | 519.0 µg/kg             | 2,000          | 39.9 U           | NC   | NA    |
| Benzo(a)pyrene                                 | 8270E    | 259.5 µg/kg             | 2,880          | 591              | 132% | J-FD  |
| Indeno(1,2,3-cd)pyrene                         | 8270E    | 259.5 µg/kg             | 499 U          | 72.9             | NC   | NA    |
| Benzo(g,h,i)perylene                           | 8270E    | 259.5 µg/kg             | 441            | 204              | 73%  | ± RL  |
| 1-Methylnaphthalene                            | 8270E    | 498.5 µg/kg             | 21,700         | 5,500            | 119% | J-FD  |
| TPH-D                                          | NWTPH-Dx | 6435 mg/kg              | 24,900         | 22,600           | 10%  |       |
| TPH-MO                                         | NWTPH-Dx | 12850 mg/kg             | 23,200         | 26,100           | 12%  |       |

**Table 2**  
**Field Duplicate Detections**  
**Boeing Renton Apron R**

| Analyte                                         | Method   | Average Reporting Limit | Primary Result | Duplicate Result | RPD | Notes |
|-------------------------------------------------|----------|-------------------------|----------------|------------------|-----|-------|
| Samples 1NW-4-031924 and DUP01-03192024 (water) |          |                         |                |                  |     |       |
| Acetone                                         | 8260D    | 5.00 µg/L               | 5.00 U         | 2.92 J           | NC  | ± RL  |
| 2-Methylnaphthalene                             | 8270E    | 3.0 µg/L                | 1.5 J          | 1.0 J            | 40% | ± RL  |
| Phenanthrene                                    | 8270E    | 3.0 µg/L                | 0.8 J          | 3.0 U            | NC  | ± RL  |
| 1-Methylnaphthalene                             | 8270E    | 3.0 µg/L                | 1.2 J          | 3.0 U            | NC  | ± RL  |
| TPH-D                                           | NWTPH-Dx | 0.100 mg/L              | 0.311          | 0.333            | 7%  |       |
| TPH-MO                                          | NWTPH-Dx | 0.200 mg/L              | 0.730          | 0.821            | 12% |       |

**Notes:**

µg/kg = micrograms per kilogram

µg/L = micrograms per liter

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

NC = not calculable

TPH-D = total petroleum hydrocarbons (diesel range)

TPH-MO = total petroleum hydrocarbons (motor oil range)

**Qualifier:**

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

**Reason Code:**

FD = Imprecision between primary and field duplicate results.

NA = It is not possible to assess field duplicate precision for this analyte because the detection in the primary sample was too low to be reported in the diluted duplicate sample or vice versa.

± RL = the difference between analyte concentrations is less than the reporting limit, indicating acceptable sampling and analytical precision.

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| 1NE-4-031924          | NWTPH-DX          | Diesel/#2 Fuel             | 0.239 mg/L    | J+        | HL          |
| 1NE-4-031924          | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NE-4-031924          | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NE-4-031924          | SW8260D           | Acrolein                   | 5.00 µg/L     | UJ        | LC          |
| 1NE-4-031924          | SW8260D           | Carbon Disulfide           | 0.12 µg/L     | J         | DL          |
| 1NE-4-031924          | SW8260D           | Hexachlorobutadiene        | 2.00 µg/L     | UJ        | CH          |
| 1NE-4-031924          | SW8260D           | Toluene                    | 0.06 µg/L     | J         | DL          |
| 1NE-4-031924          | SW8270D           | 2,4-Dinitrophenol          | 60.0 µg/L     | UJ        | LC          |
| 1NE-4-031924          | SW8270D           | 3,3'-Dichlorobenzidine     | 15.0 µg/L     | UJ        | LL          |
| 1NE-4-031924          | SW8270D           | 4,6-Dinitro-2-Methylphenol | 30.0 µg/L     | UJ        | CH          |
| 1NE-4-031924          | SW8270D           | 4-Chloroaniline            | 15.0 µg/L     | R         | LL          |
| 1NE-4-031924          | SW8270D           | Benzo(a)anthracene         | 0.70 µg/L     | J         | DL          |
| 1NE-4-031924          | SW8270D           | Chrysene                   | 0.80 µg/L     | J         | DL          |
| 1NE-4-031924          | SW8270D           | Fluoranthene               | 1.7 µg/L      | J         | DL          |
| 1NE-4-031924          | SW8270D           | N-Nitroso-Di-N-Propylamine | 3.0 µg/L      | UJ        | LL          |
| 1NE-4-031924          | SW8270D           | N-Nitrosodiphenylamine     | 3.0 µg/L      | UJ        | LL          |
| 1NE-4-031924          | SW8270D           | Pyrene                     | 1.6 µg/L      | J         | DL          |
| 1NE-4-031924_SO       | SW8260D           | Benzene                    | 0.31 µg/kg    | J         | DL          |
| 1NE-4-031924_SO       | SW8260D           | Carbon Disulfide           | 0.9 µg/kg     | J         | DL          |
| 1NE-4-031924_SO       | SW8260D           | Chloromethane              | 0.85 µg/kg    | J         | DL          |
| 1NE-4-031924_SO       | SW8260D           | Toluene                    | 0.30 µg/kg    | J         | DL          |
| 1NE-4-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol      | 99.9 µg/kg    | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 2,4-Dichlorophenol         | 99.9 µg/kg    | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 2,4-Dimethylphenol         | 99.9 µg/kg    | UJ        | LL          |
| 1NE-4-031924_SO       | SW8270D           | 2,4-Dinitrophenol          | 200 µg/kg     | UJ        | LC          |
| 1NE-4-031924_SO       | SW8270D           | 2,4-Dinitrotoluene         | 99.9 µg/kg    | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 2-Nitrophenol              | 20 µg/kg      | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine     | 99.9 µg/kg    | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 3-Nitroaniline             | 99.9 µg/kg    | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol | 200 µg/kg     | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | 4-Nitroaniline             | 99.9 µg/kg    | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | Benzo(a)anthracene         | 9.7 µg/kg     | J         | DL          |
| 1NE-4-031924_SO       | SW8270D           | Benzo(a)pyrene             | 6.4 µg/kg     | J         | DL          |
| 1NE-4-031924_SO       | SW8270D           | Benzoic Acid               | 200 µg/kg     | UJ        | LL          |
| 1NE-4-031924_SO       | SW8270D           | Carbazole                  | 20 µg/kg      | UJ        | CH          |
| 1NE-4-031924_SO       | SW8270D           | Chrysene                   | 12.4 µg/kg    | J         | DL          |
| 1NE-4-031924_SO       | SW8270D           | Fluoranthene               | 19 µg/kg      | J         | DL          |
| 1NE-4-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine | 20 µg/kg      | UJ        | CH          |
| 1NE-8-031924          | NWTPH-DX          | Diesel/#2 Fuel             | 0.436 mg/L    | J+        | HL          |
| 1NE-8-031924          | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NE-8-031924          | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NE-8-031924          | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| 1NE-8-031924          | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 1NE-8-031924          | SW8270D           | 2,4-Dinitrophenol          | 20 µg/L       | UJ        | LC          |
| 1NE-8-031924          | SW8270D           | 3,3'-Dichlorobenzidine     | 5.0 µg/L      | UJ        | LL          |
| 1NE-8-031924          | SW8270D           | 4,6-Dinitro-2-Methylphenol | 10 µg/L       | UJ        | CH          |
| 1NE-8-031924          | SW8270D           | 4-Chloroaniline            | 5.0 µg/L      | R         | LL          |
| 1NE-8-031924          | SW8270D           | Acenaphthene               | 0.30 µg/L     | J         | DL          |
| 1NE-8-031924          | SW8270D           | Fluoranthene               | 0.80 µg/L     | J         | DL          |
| 1NE-8-031924          | SW8270D           | N-Nitroso-Di-N-Propylamine | 1.0 µg/L      | UJ        | LL          |
| 1NE-8-031924          | SW8270D           | N-Nitrosodiphenylamine     | 1.0 µg/L      | UJ        | LL          |
| 1NE-8-031924          | SW8270D           | Pyrene                     | 0.70 µg/L     | J         | DL          |
| 1NE-8-031924_SO       | SW8260D           | Carbon Disulfide           | 1.08 µg/kg    | J         | DL          |
| 1NE-8-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol      | 99.9 µg/kg    | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 2,4-Dichlorophenol         | 99.9 µg/kg    | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 2,4-Dimethylphenol         | 99.9 µg/kg    | UJ        | LL          |
| 1NE-8-031924_SO       | SW8270D           | 2,4-Dinitrophenol          | 200 µg/kg     | UJ        | LC          |
| 1NE-8-031924_SO       | SW8270D           | 2,4-Dinitrotoluene         | 99.9 µg/kg    | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 2-Methylnaphthalene        | 5.2 µg/kg     | J         | DL          |
| 1NE-8-031924_SO       | SW8270D           | 2-Nitrophenol              | 20 µg/kg      | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine     | 99.9 µg/kg    | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 3-Nitroaniline             | 99.9 µg/kg    | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol | 200 µg/kg     | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | 4-Nitroaniline             | 99.9 µg/kg    | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | Benzoic Acid               | 104 µg/kg     | J-        | LL, DL      |
| 1NE-8-031924_SO       | SW8270D           | Carbazole                  | 20 µg/kg      | UJ        | CH          |
| 1NE-8-031924_SO       | SW8270D           | Naphthalene                | 9.4 µg/kg     | J         | DL          |
| 1NE-8-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine | 20 µg/kg      | UJ        | CH          |
| 1NW-4-031924          | NWTPH-DX          | Diesel/#2 Fuel             | 0.311 mg/L    | J+        | HL          |
| 1NW-4-031924          | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NW-4-031924          | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NW-4-031924          | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |
| 1NW-4-031924          | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 1NW-4-031924          | SW8270D           | 1-Methylnaphthalene        | 1.2 µg/L      | J         | DL          |
| 1NW-4-031924          | SW8270D           | 2,4-Dinitrophenol          | 60 µg/L       | UJ        | LC          |
| 1NW-4-031924          | SW8270D           | 2-Methylnaphthalene        | 1.5 µg/L      | J         | DL          |
| 1NW-4-031924          | SW8270D           | 3,3'-Dichlorobenzidine     | 15 µg/L       | UJ        | LL          |
| 1NW-4-031924          | SW8270D           | 4,6-Dinitro-2-Methylphenol | 30 µg/L       | UJ        | CH          |
| 1NW-4-031924          | SW8270D           | 4-Chloroaniline            | 15 µg/L       | R         | LL          |
| 1NW-4-031924          | SW8270D           | N-Nitroso-Di-N-Propylamine | 3.0 µg/L      | UJ        | LL          |
| 1NW-4-031924          | SW8270D           | N-Nitrosodiphenylamine     | 3.0 µg/L      | UJ        | LL          |
| 1NW-4-031924          | SW8270D           | Phenanthrene               | 0.80 µg/L     | J         | DL          |
| 1NW-4-031924_SO       | SW8260D           | 4-Isopropyltoluene         | 8.37 µg/kg    | J         | FD          |
| 1NW-4-031924_SO       | SW8260D           | Acetone                    | 396 µg/kg     | J         | FD          |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| 1NW-4-031924_SO       | SW8260D           | Benzene                    | 0.92 µg/kg    | J         | DL          |
| 1NW-4-031924_SO       | SW8260D           | Carbon Disulfide           | 0.67 µg/kg    | J         | DL          |
| 1NW-4-031924_SO       | SW8260D           | Toluene                    | 13.5 µg/kg    | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | 1-Methylnaphthalene        | 21,700 µg/kg  | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | 2-Methylnaphthalene        | 31,700 µg/kg  | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | 4-Nitroaniline             | 2,500 µg/kg   | UJ        | CH          |
| 1NW-4-031924_SO       | SW8270D           | Acenaphthene               | 5,550 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Anthracene                 | 4,820 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Benzo(a)anthracene         | 3,560 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Benzo(a)pyrene             | 2,880 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Benzo(g,h,i)perylene       | 441 µg/kg     | J         | DL          |
| 1NW-4-031924_SO       | SW8270D           | Chrysene                   | 5,620 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Fluoranthene               | 2,550 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Fluorene                   | 5,090 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Naphthalene                | 2,650 µg/kg   | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Phenanthrene               | 14,000 µg/kg  | J         | FD          |
| 1NW-4-031924_SO       | SW8270D           | Pyrene                     | 10,700 µg/kg  | J         | FD, CH      |
| 1NW-8-031924          | NWTPH-DX          | Diesel/#2 Fuel             | 2.86 mg/L     | J+        | HL          |
| 1NW-8-031924          | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NW-8-031924          | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 1NW-8-031924          | SW8260D           | 1,2,4-Trimethylbenzene     | 0.20 µg/L     | U         | MB          |
| 1NW-8-031924          | SW8260D           | 4-Isopropyltoluene         | 0.08 µg/L     | J         | DL          |
| 1NW-8-031924          | SW8260D           | Acetone                    | 2.11 µg/L     | J         | DL          |
| 1NW-8-031924          | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |
| 1NW-8-031924          | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 1NW-8-031924          | SW8260D           | Toluene                    | 0.05 µg/L     | J         | DL          |
| 1NW-8-031924          | SW8270D           | 2,4-Dinitrophenol          | 60 µg/L       | UJ        | LC          |
| 1NW-8-031924          | SW8270D           | 3,3'-Dichlorobenzidine     | 15 µg/L       | UJ        | LL          |
| 1NW-8-031924          | SW8270D           | 4,6-Dinitro-2-Methylphenol | 30 µg/L       | UJ        | CH          |
| 1NW-8-031924          | SW8270D           | 4-Chloroaniline            | 15 µg/L       | R         | LL          |
| 1NW-8-031924          | SW8270D           | Acenaphthene               | 0.70 µg/L     | J         | DL          |
| 1NW-8-031924          | SW8270D           | Benzo(a)anthracene         | 0.80 µg/L     | J         | DL          |
| 1NW-8-031924          | SW8270D           | Chrysene                   | 1.1 µg/L      | J         | DL          |
| 1NW-8-031924          | SW8270D           | Fluorene                   | 0.70 µg/L     | J         | DL          |
| 1NW-8-031924          | SW8270D           | N-Nitroso-Di-N-Propylamine | 3.0 µg/L      | UJ        | LL          |
| 1NW-8-031924          | SW8270D           | N-Nitrosodiphenylamine     | 3.0 µg/L      | UJ        | LL          |
| 1NW-8-031924          | SW8270D           | Phenanthrene               | 1.8 µg/L      | J         | DL          |
| 1NW-8-031924          | SW8270D           | Pyrene                     | 1.5 µg/L      | J         | DL          |
| 1NW-8-031924_SO       | SW8260D           | 2-Butanone                 | 6.32 µg/kg    | J         | DL          |
| 1NW-8-031924_SO       | SW8270D           | 1-Methylnaphthalene        | 14.3 µg/kg    | J         | DL          |
| 1NW-8-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol      | 99.7 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | 2,4-Dichlorophenol         | 99.7 µg/kg    | UJ        | CH          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1NW-8-031924_SO       | SW8270D           | 2,4-Dimethylphenol             | 99.7 µg/kg    | UJ        | LL          |
| 1NW-8-031924_SO       | SW8270D           | 2,4-Dinitrophenol              | 199 µg/kg     | UJ        | LC          |
| 1NW-8-031924_SO       | SW8270D           | 2,4-Dinitrotoluene             | 99.7 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | 2-Nitrophenol                  | 19.9 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine         | 99.7 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | 3-Nitroaniline                 | 99.7 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol     | 199 µg/kg     | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | 4-Nitroaniline                 | 99.7 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | Benzoic Acid                   | 531 µg/kg     | J-        | LL          |
| 1NW-8-031924_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate     | 21.1 µg/kg    | J         | DL          |
| 1NW-8-031924_SO       | SW8270D           | Carbazole                      | 19.9 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | Naphthalene                    | 5.3 µg/kg     | J         | DL          |
| 1NW-8-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine     | 19.9 µg/kg    | UJ        | CH          |
| 1NW-8-031924_SO       | SW8270D           | Phenanthrene                   | 13.1 µg/kg    | J         | DL          |
| 1NW-8-031924_SO       | SW8270D           | Pyrene                         | 8.8 µg/kg     | J         | DL          |
| 1SE-4-031824          | NWTPH-DX          | Diesel/#2 Fuel                 | 0.171 mg/L    | J+        | TH6, HL     |
| 1SE-4-031824          | NWTPH-DX          | Motor Oil                      | 0.20 mg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1,1-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1,2-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1-Dichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,1-Dichloropropene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2,3-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SE-4-031824          | SW8260D           | 1,2,3-Trichloropropane         | 0.50 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2,4-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SE-4-031824          | SW8260D           | 1,2,4-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane    | 0.50 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2-Dibromoethane              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 2-Chloroethylvinylether        | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 2-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SE-4-031824          | SW8260D           | 2-Hexanone                  | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 2-Pentanone                 | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 4-Chlorotoluene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 4-Isopropyltoluene          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK) | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Acetone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Acrolein                    | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Acrylonitrile               | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Benzene                     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Bromobenzene                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Bromochloromethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Bromodichloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Bromoform                   | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Bromomethane                | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Carbon Disulfide            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Carbon Tetrachloride        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Chlorobenzene               | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Chloroethane                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Chloroform                  | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Chloromethane               | 0.50 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | cis-1,2-Dichloroethene      | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | cis-1,3-Dichloropropene     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Dibromochloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Dibromomethane              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Dichlorodifluoromethane     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Ethylbenzene                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Hexachlorobutadiene         | 2.0 µg/L      | UJ        | TH6, CH     |
| 1SE-4-031824          | SW8260D           | Iodomethane                 | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Isopropylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | m+p-Xylene                  | 0.40 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Methyl t-butyl ether        | 0.50 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Methylene Chloride          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Naphthalene                 | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SE-4-031824          | SW8260D           | n-Butylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | n-Propylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | o-Xylene                    | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | sec-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Styrene                     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | tert-Butylbenzene           | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Tetrachloroethene           | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Toluene                     | 0.08 µg/L     | J         | TH6, DL     |
| 1SE-4-031824          | SW8260D           | Total Xylenes               | 0.60 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SE-4-031824          | SW8260D           | trans-1,2-Dichloroethene     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | trans-1,3-Dichloropropene    | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | trans-1,4-Dichloro-2-butene  | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Trichloroethene              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Trichlorofluoromethane       | 0.20 µg/L     | UJ        | TH6, CH     |
| 1SE-4-031824          | SW8260D           | Vinyl Acetate                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8260D           | Vinyl Chloride               | 0.20 µg/L     | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 1,2,4-Trichlorobenzene       | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 1,2-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 1,3-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 1,4-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 1-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,4-Dichlorophenol           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,4-Dimethylphenol           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,4-Dinitrophenol            | 20 µg/L       | UJ        | TH6, LC     |
| 1SE-4-031824          | SW8270D           | 2,4-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2,6-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2-Chloronaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2-Chlorophenol               | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2-Methylnaphthalene          | 0.20 µg/L     | J         | TH6, DL     |
| 1SE-4-031824          | SW8270D           | 2-Methylphenol               | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 2-Nitrophenol                | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 3,3'-Dichlorobenzidine       | 5.0 µg/L      | UJ        | TH6, LL     |
| 1SE-4-031824          | SW8270D           | 3-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 10 µg/L       | UJ        | TH6, CH     |
| 1SE-4-031824          | SW8270D           | 4-Bromophenyl-phenylether    | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 4-Chloro-3-methylphenol      | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 4-Chloroaniline              | 5.0 µg/L      | R         | LL          |
| 1SE-4-031824          | SW8270D           | 4-Chlorophenyl-phenylether   | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 4-Methylphenol               | 2.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 4-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | 4-Nitrophenol                | 10 µg/L       | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Acenaphthene                 | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Acenaphthylene               | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Anthracene                   | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Benzo(a)anthracene           | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Benzo(a)pyrene               | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Benzo(g,h,i)perylene         | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SE-4-031824          | SW8270D           | Benzoic Acid                | 20 µg/L       | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Benzyl Alcohol              | 2.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | bis(2-Chloroethoxy) Methane | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether   | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate  | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Butylbenzylphthalate        | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Carbazole                   | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Chrysene                    | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Dibenz(a,h)anthracene       | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Dibenzofuran                | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Diethylphthalate            | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Dimethylphthalate           | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Di-n-Butylphthalate         | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Di-n-Octyl phthalate        | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Fluoranthene                | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Fluorene                    | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Hexachlorobenzene           | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Hexachlorobutadiene         | 3.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Hexachlorocyclopentadiene   | 5.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Hexachloroethane            | 2.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Isophorone                  | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Naphthalene                 | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Nitrobenzene                | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 1.0 µg/L      | UJ        | TH6, LL     |
| 1SE-4-031824          | SW8270D           | N-Nitrosodiphenylamine      | 1.0 µg/L      | UJ        | TH6, LL     |
| 1SE-4-031824          | SW8270D           | Pentachlorophenol           | 10 µg/L       | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Phenanthrene                | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Phenol                      | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Pyrene                      | 1.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824          | SW8270D           | Total Benzofluoranthenes    | 2.0 µg/L      | UJ        | TH6         |
| 1SE-4-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel              | 819 mg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | NWTPH-DX          | Motor Oil                   | 924 mg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane   | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1,1-Trichloroethane       | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane   | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1,2-Trichloroethane       | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1-Dichloroethane          | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1-Dichloroethene          | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,1-Dichloropropene         | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene      | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2,3-Trichloropropane      | 2.53 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SE-4-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 6.03 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2-Dibromoethane              | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2-Dichlorobenzene            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2-Dichloroethane             | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,2-Dichloropropane            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 0.55 µg/kg    | J         | TH6, DL     |
| 1SE-4-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 2.53 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 2-Butanone                     | 9.69 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 2-Hexanone                     | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 2-Pentanone                    | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 10.5 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Acetone                        | 376 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Acrolein                       | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Acrylonitrile                  | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Benzene                        | 0.63 µg/kg    | J         | TH6, DL     |
| 1SE-4-031824_SO       | SW8260D           | Bromobenzene                   | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Bromochloromethane             | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Bromodichloromethane           | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Bromoform                      | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Bromomethane                   | 2.53 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Carbon Disulfide               | 2.5 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Carbon Tetrachloride           | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Chlorobenzene                  | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Chloroethane                   | 2.53 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Chloroform                     | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Chloromethane                  | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | cis-1,2-Dichloroethene         | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | cis-1,3-Dichloropropene        | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Dibromochloromethane           | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Dibromomethane                 | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Dichlorodifluoromethane        | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Ethylbenzene                   | 1.26 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SE-4-031824_SO       | SW8260D           | Hexachlorobutadiene          | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Iodomethane                  | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Isopropylbenzene             | 1.36 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | m+p-Xylene                   | 0.65 µg/kg    | J         | TH6, DL     |
| 1SE-4-031824_SO       | SW8260D           | Methyl t-butyl ether         | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Methylene Chloride           | 12.6 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Naphthalene                  | 47.4 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | n-Butylbenzene               | 4.62 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | n-Propylbenzene              | 2.69 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | o-Xylene                     | 4.38 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | sec-Butylbenzene             | 1.87 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Styrene                      | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | tert-Butylbenzene            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Tetrachloroethene            | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Toluene                      | 1.22 µg/kg    | J         | TH6, DL     |
| 1SE-4-031824_SO       | SW8260D           | Total Xylenes                | 5.03 µg/kg    | J         | TH6         |
| 1SE-4-031824_SO       | SW8260D           | trans-1,2-Dichloroethene     | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Trichloroethene              | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Trichlorofluoromethane       | 2.53 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Vinyl Acetate                | 6.32 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8260D           | Vinyl Chloride               | 1.26 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 1,110 µg/kg   | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,4-Dichlorophenol           | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,4-Dimethylphenol           | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,4-Dinitrophenol            | 997 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,4-Dinitrotoluene           | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2,6-Dinitrotoluene           | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2-Chloronaphthalene          | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2-Chlorophenol               | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2-Methylnaphthalene          | 1,390 µg/kg   | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2-Methylphenol               | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2-Nitroaniline               | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 2-Nitrophenol                | 99.7 µg/kg    | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SE-4-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine      | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 3-Nitroaniline              | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol  | 997 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether   | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol     | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4-Chloroaniline             | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether  | 249 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4-Methylphenol              | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | 4-Nitroaniline              | 499 µg/kg     | UJ        | TH6, CH     |
| 1SE-4-031824_SO       | SW8270D           | 4-Nitrophenol               | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Acenaphthene                | 281 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Acenaphthylene              | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Anthracene                  | 569 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Benzo(a)anthracene          | 596 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Benzo(a)pyrene              | 458 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Benzo(g,h,i)perylene        | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Benzoic Acid                | 997 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Benzyl Alcohol              | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 249 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 249 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Butylbenzylphthalate        | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Carbazole                   | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Chrysene                    | 851 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Dibenzofuran                | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Diethylphthalate            | 249 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Dimethylphthalate           | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Fluoranthene                | 587 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Fluorene                    | 543 µg/kg     | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Hexachlorobenzene           | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Hexachlorobutadiene         | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Hexachlorocyclopentadiene   | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Hexachloroethane            | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Isophorone                  | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Naphthalene                 | 60.5 µg/kg    | J         | TH6, DL     |
| 1SE-4-031824_SO       | SW8270D           | Nitrobenzene                | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine  | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | N-Nitrosodiphenylamine      | 99.7 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SE-4-031824_SO       | SW8270D           | Pentachlorophenol              | 499 µg/kg     | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Phenanthrene                   | 1,800 µg/kg   | J         | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Phenol                         | 99.7 µg/kg    | UJ        | TH6         |
| 1SE-4-031824_SO       | SW8270D           | Pyrene                         | 1,330 µg/kg   | J         | TH6, CH     |
| 1SE-4-031824_SO       | SW8270D           | Total Benzofluoranthenes       | 583 µg/kg     | J         | TH6         |
| 1SE-8-031824          | NWTPH-DX          | Diesel/#2 Fuel                 | 0.94 mg/L     | J+        | TH6, HL     |
| 1SE-8-031824          | NWTPH-DX          | Motor Oil                      | 0.845 mg/L    | J         | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1,1-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1,2-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1-Dichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,1-Dichloropropene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2,3-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SE-8-031824          | SW8260D           | 1,2,3-Trichloropropane         | 0.50 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2,4-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SE-8-031824          | SW8260D           | 1,2,4-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane    | 0.50 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2-Dibromoethane              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 2-Chloroethylvinylether        | 1.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 2-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 2-Hexanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 2-Pentanone                    | 5.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 4-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 4-Isopropyltoluene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 5.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Acetone                        | 3.19 µg/L     | J         | TH6, DL     |
| 1SE-8-031824          | SW8260D           | Acrolein                       | 5.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Acrylonitrile                  | 1.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Benzene                        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Bromobenzene                   | 0.20 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SE-8-031824          | SW8260D           | Bromochloromethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Bromodichloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Bromoform                   | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Bromomethane                | 1.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Carbon Disulfide            | 0.15 µg/L     | J         | TH6, DL     |
| 1SE-8-031824          | SW8260D           | Carbon Tetrachloride        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Chlorobenzene               | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Chloroethane                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Chloroform                  | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Chloromethane               | 0.50 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | cis-1,2-Dichloroethene      | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | cis-1,3-Dichloropropene     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Dibromochloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Dibromomethane              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Dichlorodifluoromethane     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Ethylbenzene                | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Hexachlorobutadiene         | 2.0 µg/L      | UJ        | TH6, CH     |
| 1SE-8-031824          | SW8260D           | Iodomethane                 | 1.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Isopropylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | m+p-Xylene                  | 0.40 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Methyl t-butyl ether        | 0.50 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Methylene Chloride          | 1.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Naphthalene                 | 0.37 µg/L     | J         | TH6, CH, DL |
| 1SE-8-031824          | SW8260D           | n-Butylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | n-Propylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | o-Xylene                    | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | sec-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Styrene                     | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | tert-Butylbenzene           | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Tetrachloroethene           | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Toluene                     | 0.08 µg/L     | J         | TH6, DL     |
| 1SE-8-031824          | SW8260D           | Total Xylenes               | 0.60 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | trans-1,2-Dichloroethene    | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | trans-1,3-Dichloropropene   | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | trans-1,4-Dichloro-2-butene | 1.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Trichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Trichlorofluoromethane      | 0.20 µg/L     | UJ        | TH6, CH     |
| 1SE-8-031824          | SW8260D           | Vinyl Acetate               | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8260D           | Vinyl Chloride              | 0.20 µg/L     | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 1,2,4-Trichlorobenzene      | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 1,2-Dichlorobenzene         | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 1,3-Dichlorobenzene         | 3.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SE-8-031824          | SW8270D           | 1,4-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 1-Methylnaphthalene          | 0.80 µg/L     | J         | TH6, DL     |
| 1SE-8-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 15 µg/L       | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2,4-Dichlorophenol           | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2,4-Dimethylphenol           | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2,4-Dinitrophenol            | 60 µg/L       | UJ        | TH6, LC     |
| 1SE-8-031824          | SW8270D           | 2,4-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2,6-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2-Chloronaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2-Chlorophenol               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2-Methylnaphthalene          | 0.70 µg/L     | J         | TH6, DL     |
| 1SE-8-031824          | SW8270D           | 2-Methylphenol               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 2-Nitrophenol                | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 3,3'-Dichlorobenzidine       | 15 µg/L       | UJ        | TH6, LL     |
| 1SE-8-031824          | SW8270D           | 3-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 30 µg/L       | UJ        | TH6, CH     |
| 1SE-8-031824          | SW8270D           | 4-Bromophenyl-phenylether    | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 4-Chloro-3-methylphenol      | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 4-Chloroaniline              | 15 µg/L       | R         | LL          |
| 1SE-8-031824          | SW8270D           | 4-Chlorophenyl-phenylether   | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 4-Methylphenol               | 6.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 4-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | 4-Nitrophenol                | 30 µg/L       | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Acenaphthene                 | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Acenaphthylene               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Anthracene                   | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Benzo(a)anthracene           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Benzo(a)pyrene               | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Benzo(g,h,i)perylene         | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Benzoic Acid                 | 60 µg/L       | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Benzyl Alcohol               | 6.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | bis(2-Chloroethoxy) Methane  | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether    | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate   | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Butylbenzylphthalate         | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Carbazole                    | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Chrysene                     | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Dibenz(a,h)anthracene        | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Dibenzofuran                 | 3.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SE-8-031824          | SW8270D           | Diethylphthalate            | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Dimethylphthalate           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Di-n-Butylphthalate         | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Di-n-Octyl phthalate        | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Fluoranthene                | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Fluorene                    | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Hexachlorobenzene           | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Hexachlorobutadiene         | 9.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Hexachlorocyclopentadiene   | 15 µg/L       | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Hexachloroethane            | 6.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Isophorone                  | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Naphthalene                 | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Nitrobenzene                | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 3.0 µg/L      | UJ        | TH6, LL     |
| 1SE-8-031824          | SW8270D           | N-Nitrosodiphenylamine      | 3.0 µg/L      | UJ        | TH6, LL     |
| 1SE-8-031824          | SW8270D           | Pentachlorophenol           | 30 µg/L       | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Phenanthrene                | 0.80 µg/L     | J         | TH6, DL     |
| 1SE-8-031824          | SW8270D           | Phenol                      | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Pyrene                      | 3.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824          | SW8270D           | Total Benzofluoranthenes    | 6.0 µg/L      | UJ        | TH6         |
| 1SE-8-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel              | 10 mg/kg      | J         | TH6         |
| 1SE-8-031824_SO       | NWTPH-DX          | Motor Oil                   | 79 mg/kg      | J         | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane   | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1,1-Trichloroethane       | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane   | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1,2-Trichloroethane       | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1-Dichloroethane          | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1-Dichloroethene          | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,1-Dichloropropene         | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene      | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2,3-Trichloropropane      | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene      | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene      | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2-Dibromoethane           | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2-Dichlorobenzene         | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2-Dichloroethane          | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,2-Dichloropropane         | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene      | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,3-Dichlorobenzene         | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 1,3-Dichloropropane         | 1.77 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SE-8-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 2-Butanone                     | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 2-Hexanone                     | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 2-Pentanone                    | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Acetone                        | 345 µg/kg     | J         | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Acrolein                       | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Acrylonitrile                  | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Benzene                        | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Bromobenzene                   | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Bromochloromethane             | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Bromodichloromethane           | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Bromoform                      | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Bromomethane                   | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Carbon Disulfide               | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Carbon Tetrachloride           | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Chlorobenzene                  | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Chloroethane                   | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Chloroform                     | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Chloromethane                  | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | cis-1,2-Dichloroethene         | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | cis-1,3-Dichloropropene        | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Dibromochloromethane           | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Dibromomethane                 | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Dichlorodifluoromethane        | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Ethylbenzene                   | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Hexachlorobutadiene            | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Iodomethane                    | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Isopropylbenzene               | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | m+p-Xylene                     | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Methyl t-butyl ether           | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Methylene Chloride             | 117 µg/kg     | J         | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Naphthalene                    | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | n-Butylbenzene                 | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | n-Propylbenzene                | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | o-Xylene                       | 1.77 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SE-8-031824_SO       | SW8260D           | sec-Butylbenzene             | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Styrene                      | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | tert-Butylbenzene            | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Tetrachloroethene            | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Toluene                      | 0.46 µg/kg    | J         | TH6, DL     |
| 1SE-8-031824_SO       | SW8260D           | Total Xylenes                | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | trans-1,2-Dichloroethene     | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Trichloroethene              | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Trichlorofluoromethane       | 3.54 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Vinyl Acetate                | 8.84 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8260D           | Vinyl Chloride               | 1.77 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,4-Dichlorophenol           | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,4-Dimethylphenol           | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,4-Dinitrophenol            | 199 µg/kg     | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,4-Dinitrotoluene           | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2,6-Dinitrotoluene           | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2-Chloronaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2-Chlorophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2-Nitroaniline               | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 2-Nitrophenol                | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine       | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 3-Nitroaniline               | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 199 µg/kg     | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether    | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol      | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4-Chloroaniline              | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether   | 49.8 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | 4-Nitroaniline               | 99.6 µg/kg    | UJ        | TH6, CH     |
| 1SE-8-031824_SO       | SW8270D           | 4-Nitrophenol                | 99.6 µg/kg    | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SE-8-031824_SO       | SW8270D           | Acenaphthene                | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Acenaphthylene              | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Anthracene                  | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Benzo(a)anthracene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Benzo(a)pyrene              | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Benzo(g,h,i)perylene        | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Benzoic Acid                | 79.2 µg/kg    | J         | TH6, DL     |
| 1SE-8-031824_SO       | SW8270D           | Benzyl Alcohol              | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 49.8 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 20 µg/kg      | J         | TH6, DL     |
| 1SE-8-031824_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Carbazole                   | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Chrysene                    | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Diethylphthalate            | 49.8 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Fluoranthene                | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Fluorene                    | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Hexachlorobenzene           | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Hexachlorobutadiene         | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Hexachlorocyclopentadiene   | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Hexachloroethane            | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Isophorone                  | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Naphthalene                 | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Nitrobenzene                | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine  | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | N-Nitrosodiphenylamine      | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Pentachlorophenol           | 99.6 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Phenanthrene                | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Phenol                      | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Pyrene                      | 19.9 µg/kg    | UJ        | TH6         |
| 1SE-8-031824_SO       | SW8270D           | Total Benzofluoranthenes    | 39.8 µg/kg    | UJ        | TH6         |
| 1SW-4-031824          | NWTPH-DX          | Diesel/#2 Fuel              | 0.319 mg/L    | J+        | TH6, HL     |
| 1SW-4-031824          | NWTPH-DX          | Motor Oil                   | 0.362 mg/L    | J         | TH6         |
| 1SW-4-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,1,1-Trichloroethane       | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane   | 0.20 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SW-4-031824          | SW8260D           | 1,1,2-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,1-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,1-Dichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,1-Dichloropropene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2,3-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SW-4-031824          | SW8260D           | 1,2,3-Trichloropropane         | 0.50 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2,4-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SW-4-031824          | SW8260D           | 1,2,4-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane    | 0.50 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2-Dibromoethane              | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 2-Chloroethylvinylether        | 1.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 2-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 2-Hexanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 2-Pentanone                    | 5.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 4-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 4-Isopropyltoluene             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 5.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Acetone                        | 2.67 µg/L     | J         | TH6, DL     |
| 1SW-4-031824          | SW8260D           | Acrolein                       | 5.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Acrylonitrile                  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Benzene                        | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Bromobenzene                   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Bromochloromethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Bromodichloromethane           | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Bromoform                      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Bromomethane                   | 1.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Carbon Disulfide               | 0.08 µg/L     | J         | TH6, DL     |
| 1SW-4-031824          | SW8260D           | Carbon Tetrachloride           | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Chlorobenzene                  | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Chloroethane                   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Chloroform                     | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Chloromethane                  | 0.50 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SW-4-031824          | SW8260D           | cis-1,2-Dichloroethene       | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | cis-1,3-Dichloropropene      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Dibromochloromethane         | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Dibromomethane               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Dichlorodifluoromethane      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Ethylbenzene                 | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Hexachlorobutadiene          | 2.0 µg/L      | UJ        | TH6, CH     |
| 1SW-4-031824          | SW8260D           | Iodomethane                  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Isopropylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | m+p-Xylene                   | 0.40 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Methyl t-butyl ether         | 0.50 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Methylene Chloride           | 1.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Naphthalene                  | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SW-4-031824          | SW8260D           | n-Butylbenzene               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | n-Propylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | o-Xylene                     | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | sec-Butylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Styrene                      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | tert-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Tetrachloroethene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Toluene                      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Total Xylenes                | 0.60 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | trans-1,2-Dichloroethene     | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | trans-1,3-Dichloropropene    | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | trans-1,4-Dichloro-2-butene  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Trichloroethene              | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Trichlorofluoromethane       | 0.20 µg/L     | UJ        | TH6, CH     |
| 1SW-4-031824          | SW8260D           | Vinyl Acetate                | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8260D           | Vinyl Chloride               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 1,2,4-Trichlorobenzene       | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 1,2-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 1,3-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 1,4-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 1-Methylnaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 15 µg/L       | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,4-Dichlorophenol           | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,4-Dimethylphenol           | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,4-Dinitrophenol            | 60 µg/L       | UJ        | TH6, LC     |
| 1SW-4-031824          | SW8270D           | 2,4-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2,6-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SW-4-031824          | SW8270D           | 2-Chloronaphthalene         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2-Chlorophenol              | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2-Methylnaphthalene         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2-Methylphenol              | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2-Nitroaniline              | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 2-Nitrophenol               | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 3,3'-Dichlorobenzidine      | 15 µg/L       | UJ        | TH6, LL     |
| 1SW-4-031824          | SW8270D           | 3-Nitroaniline              | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol  | 30 µg/L       | UJ        | TH6, CH     |
| 1SW-4-031824          | SW8270D           | 4-Bromophenyl-phenylether   | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 4-Chloro-3-methylphenol     | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 4-Chloroaniline             | 15 µg/L       | R         | LL          |
| 1SW-4-031824          | SW8270D           | 4-Chlorophenyl-phenylether  | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 4-Methylphenol              | 6.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 4-Nitroaniline              | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | 4-Nitrophenol               | 30 µg/L       | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Acenaphthene                | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Acenaphthylene              | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Anthracene                  | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Benzo(a)anthracene          | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Benzo(a)pyrene              | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Benzo(g,h,i)perylene        | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Benzoic Acid                | 60 µg/L       | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Benzyl Alcohol              | 6.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | bis(2-Chloroethoxy) Methane | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether   | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate  | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Butylbenzylphthalate        | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Carbazole                   | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Chrysene                    | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Dibenz(a,h)anthracene       | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Dibenzofuran                | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Diethylphthalate            | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Dimethylphthalate           | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Di-n-Butylphthalate         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Di-n-Octyl phthalate        | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Fluoranthene                | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Fluorene                    | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Hexachlorobenzene           | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Hexachlorobutadiene         | 9.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Hexachlorocyclopentadiene   | 15 µg/L       | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Hexachloroethane            | 6.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SW-4-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Isophorone                     | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Naphthalene                    | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Nitrobenzene                   | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine     | 3.0 µg/L      | UJ        | TH6, LL     |
| 1SW-4-031824          | SW8270D           | N-Nitrosodiphenylamine         | 3.0 µg/L      | UJ        | TH6, LL     |
| 1SW-4-031824          | SW8270D           | Pentachlorophenol              | 30 µg/L       | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Phenanthrene                   | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Phenol                         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Pyrene                         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824          | SW8270D           | Total Benzofluoranthenes       | 6.0 µg/L      | UJ        | TH6         |
| 1SW-4-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel                 | 12.5 mg/kg    | J         | TH6         |
| 1SW-4-031824_SO       | NWTPH-DX          | Motor Oil                      | 45.8 mg/kg    | J         | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane      | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1,1-Trichloroethane          | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane      | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1,2-Trichloroethane          | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1-Dichloroethane             | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1-Dichloroethene             | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,1-Dichloropropene            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2,3-Trichloropropane         | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2-Dibromoethane              | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2-Dichlorobenzene            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2-Dichloroethane             | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,2-Dichloropropane            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 2-Butanone                     | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 2-Hexanone                     | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 2-Pentanone                    | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 1.13 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SW-4-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK) | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Acetone                     | 129 µg/kg     | J         | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Acrolein                    | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Acrylonitrile               | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Benzene                     | 0.36 µg/kg    | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8260D           | Bromobenzene                | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Bromochloromethane          | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Bromodichloromethane        | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Bromoform                   | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Bromomethane                | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Carbon Disulfide            | 0.9 µg/kg     | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8260D           | Carbon Tetrachloride        | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Chlorobenzene               | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Chloroethane                | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Chloroform                  | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Chloromethane               | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | cis-1,2-Dichloroethene      | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | cis-1,3-Dichloropropene     | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Dibromochloromethane        | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Dibromomethane              | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Dichlorodifluoromethane     | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Ethylbenzene                | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Hexachlorobutadiene         | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Iodomethane                 | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Isopropylbenzene            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | m+p-Xylene                  | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Methyl t-butyl ether        | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Methylene Chloride          | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Naphthalene                 | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | n-Butylbenzene              | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | n-Propylbenzene             | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | o-Xylene                    | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | sec-Butylbenzene            | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Styrene                     | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | tert-Butylbenzene           | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Tetrachloroethene           | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Toluene                     | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Total Xylenes               | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | trans-1,2-Dichloroethene    | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | trans-1,3-Dichloropropene   | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Trichloroethene             | 1.13 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SW-4-031824_SO       | SW8260D           | Trichlorofluoromethane       | 2.25 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Vinyl Acetate                | 5.63 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8260D           | Vinyl Chloride               | 1.13 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,4-Dichlorophenol           | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,4-Dimethylphenol           | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,4-Dinitrophenol            | 199 µg/kg     | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,4-Dinitrotoluene           | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2,6-Dinitrotoluene           | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2-Chloronaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2-Chlorophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2-Nitroaniline               | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 2-Nitrophenol                | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine       | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 3-Nitroaniline               | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 199 µg/kg     | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether    | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol      | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4-Chloroaniline              | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether   | 49.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | 4-Nitroaniline               | 99.7 µg/kg    | UJ        | TH6, CH     |
| 1SW-4-031824_SO       | SW8270D           | 4-Nitrophenol                | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Acenaphthene                 | 13.1 µg/kg    | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8270D           | Acenaphthylene               | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Anthracene                   | 19.9 µg/kg    | J         | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Benzo(a)anthracene           | 11.7 µg/kg    | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8270D           | Benzo(a)pyrene               | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Benzo(g,h,i)perylene         | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Benzoic Acid                 | 199 µg/kg     | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Benzyl Alcohol               | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane  | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether    | 49.9 µg/kg    | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SW-4-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 27.7 µg/kg    | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Carbazole                   | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Chrysene                    | 15.2 µg/kg    | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Diethylphthalate            | 49.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Fluoranthene                | 134 µg/kg     | J         | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Fluorene                    | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Hexachlorobenzene           | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Hexachlorobutadiene         | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Hexachlorocyclopentadiene   | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Hexachloroethane            | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Isophorone                  | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Naphthalene                 | 5.2 µg/kg     | J         | TH6, DL     |
| 1SW-4-031824_SO       | SW8270D           | Nitrobenzene                | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine  | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | N-Nitrosodiphenylamine      | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Pentachlorophenol           | 99.7 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Phenanthrene                | 60.8 µg/kg    | J         | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Phenol                      | 19.9 µg/kg    | UJ        | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Pyrene                      | 86.3 µg/kg    | J         | TH6         |
| 1SW-4-031824_SO       | SW8270D           | Total Benzofluoranthenes    | 39.9 µg/kg    | UJ        | TH6         |
| 1SW-8-031824          | NWTPH-DX          | Diesel/#2 Fuel              | 0.216 mg/L    | J+        | TH6, HL     |
| 1SW-8-031824          | NWTPH-DX          | Motor Oil                   | 0.20 mg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1,1-Trichloroethane       | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1,2-Trichloroethane       | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1-Dichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1-Dichloroethene          | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,1-Dichloropropene         | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,2,3-Trichlorobenzene      | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SW-8-031824          | SW8260D           | 1,2,3-Trichloropropane      | 0.50 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,2,4-Trichlorobenzene      | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SW-8-031824          | SW8260D           | 1,2,4-Trimethylbenzene      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane | 0.50 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,2-Dibromoethane           | 0.20 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SW-8-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 2-Chloroethylvinylether        | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 2-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 2-Hexanone                     | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 2-Pentanone                    | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 4-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 4-Isopropyltoluene             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Acetone                        | 2.6 µg/L      | J         | TH6, DL     |
| 1SW-8-031824          | SW8260D           | Acrolein                       | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Acrylonitrile                  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Benzene                        | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Bromobenzene                   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Bromochloromethane             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Bromodichloromethane           | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Bromoform                      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Bromomethane                   | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Carbon Disulfide               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Carbon Tetrachloride           | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Chlorobenzene                  | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Chloroethane                   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Chloroform                     | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Chloromethane                  | 0.50 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | cis-1,2-Dichloroethene         | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | cis-1,3-Dichloropropene        | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Dibromochloromethane           | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Dibromomethane                 | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Dichlorodifluoromethane        | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Ethylbenzene                   | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Hexachlorobutadiene            | 2.0 µg/L      | UJ        | TH6, CH     |
| 1SW-8-031824          | SW8260D           | Iodomethane                    | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Isopropylbenzene               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | m+p-Xylene                     | 0.40 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SW-8-031824          | SW8260D           | Methyl t-butyl ether         | 0.50 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Methylene Chloride           | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Naphthalene                  | 0.50 µg/L     | UJ        | TH6, CH     |
| 1SW-8-031824          | SW8260D           | n-Butylbenzene               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | n-Propylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | o-Xylene                     | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | sec-Butylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Styrene                      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | tert-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Tetrachloroethene            | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Toluene                      | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Total Xylenes                | 0.60 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | trans-1,2-Dichloroethene     | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | trans-1,3-Dichloropropene    | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | trans-1,4-Dichloro-2-butene  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Trichloroethene              | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Trichlorofluoromethane       | 0.20 µg/L     | UJ        | TH6, CH     |
| 1SW-8-031824          | SW8260D           | Vinyl Acetate                | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8260D           | Vinyl Chloride               | 0.20 µg/L     | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 1,2,4-Trichlorobenzene       | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 1,2-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 1,3-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 1,4-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 1-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,4-Dichlorophenol           | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,4-Dimethylphenol           | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,4-Dinitrophenol            | 20 µg/L       | UJ        | TH6, LC     |
| 1SW-8-031824          | SW8270D           | 2,4-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2,6-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2-Chloronaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2-Chlorophenol               | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2-Methylphenol               | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 2-Nitrophenol                | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 3,3'-Dichlorobenzidine       | 5.0 µg/L      | UJ        | TH6, LL     |
| 1SW-8-031824          | SW8270D           | 3-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 10 µg/L       | UJ        | TH6, CH     |
| 1SW-8-031824          | SW8270D           | 4-Bromophenyl-phenylether    | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SW-8-031824          | SW8270D           | 4-Chloro-3-methylphenol     | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 4-Chloroaniline             | 5.0 µg/L      | R         | LL          |
| 1SW-8-031824          | SW8270D           | 4-Chlorophenyl-phenylether  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 4-Methylphenol              | 2.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 4-Nitroaniline              | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | 4-Nitrophenol               | 10 µg/L       | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Acenaphthene                | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Acenaphthylene              | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Anthracene                  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Benzo(a)anthracene          | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Benzo(a)pyrene              | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Benzo(g,h,i)perylene        | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Benzoic Acid                | 20 µg/L       | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Benzyl Alcohol              | 2.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | bis(2-Chloroethoxy) Methane | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether   | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate  | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Butylbenzylphthalate        | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Carbazole                   | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Chrysene                    | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Dibenz(a,h)anthracene       | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Dibenzofuran                | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Diethylphthalate            | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Dimethylphthalate           | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Di-n-Butylphthalate         | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Di-n-Octyl phthalate        | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Fluoranthene                | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Fluorene                    | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Hexachlorobenzene           | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Hexachlorobutadiene         | 3.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Hexachlorocyclopentadiene   | 5.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Hexachloroethane            | 2.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Isophorone                  | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Naphthalene                 | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Nitrobenzene                | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 1.0 µg/L      | UJ        | TH6, LL     |
| 1SW-8-031824          | SW8270D           | N-Nitrosodiphenylamine      | 1.0 µg/L      | UJ        | TH6, LL     |
| 1SW-8-031824          | SW8270D           | Pentachlorophenol           | 10 µg/L       | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Phenanthrene                | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Phenol                      | 1.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824          | SW8270D           | Pyrene                      | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 1SW-8-031824          | SW8270D           | Total Benzofluoranthenes       | 2.0 µg/L      | UJ        | TH6         |
| 1SW-8-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel                 | 8.78 mg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | NWTPH-DX          | Motor Oil                      | 76.3 mg/kg    | J         | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1,1-Trichloroethane          | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1,2-Trichloroethane          | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1-Dichloroethane             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1-Dichloroethene             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,1-Dichloropropene            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2,3-Trichloropropane         | 3.65 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2-Dibromoethane              | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2-Dichlorobenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2-Dichloroethane             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,2-Dichloropropane            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 3.65 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 2-Butanone                     | 7.04 µg/kg    | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 2-Hexanone                     | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 2-Pentanone                    | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Acetone                        | 99.2 µg/kg    | J         | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Acrolein                       | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Acrylonitrile                  | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Benzene                        | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Bromobenzene                   | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Bromochloromethane             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Bromodichloromethane           | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Bromoform                      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Bromomethane                   | 3.65 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 1SW-8-031824_SO       | SW8260D           | Carbon Disulfide             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Carbon Tetrachloride         | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Chlorobenzene                | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Chloroethane                 | 3.65 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Chloroform                   | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Chloromethane                | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | cis-1,2-Dichloroethene       | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | cis-1,3-Dichloropropene      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Dibromochloromethane         | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Dibromomethane               | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Dichlorodifluoromethane      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Ethylbenzene                 | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Hexachlorobutadiene          | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Iodomethane                  | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Isopropylbenzene             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | m+p-Xylene                   | 3.65 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Methyl t-butyl ether         | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Methylene Chloride           | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Naphthalene                  | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | n-Butylbenzene               | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | n-Propylbenzene              | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | o-Xylene                     | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | sec-Butylbenzene             | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Styrene                      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | tert-Butylbenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Tetrachloroethene            | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Toluene                      | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Total Xylenes                | 3.65 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | trans-1,2-Dichloroethene     | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Trichloroethene              | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Trichlorofluoromethane       | 3.65 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Vinyl Acetate                | 9.13 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8260D           | Vinyl Chloride               | 1.83 µg/kg    | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 8.0 µg/kg     | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 100 µg/kg     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 1SW-8-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol       | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2,4-Dichlorophenol          | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2,4-Dimethylphenol          | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2,4-Dinitrophenol           | 200 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2,4-Dinitrotoluene          | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2,6-Dinitrotoluene          | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2-Chloronaphthalene         | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2-Chlorophenol              | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2-Methylnaphthalene         | 9.2 µg/kg     | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8270D           | 2-Methylphenol              | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2-Nitroaniline              | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 2-Nitrophenol               | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine      | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 3-Nitroaniline              | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol  | 200 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether   | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol     | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4-Chloroaniline             | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether  | 50 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4-Methylphenol              | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | 4-Nitroaniline              | 100 µg/kg     | UJ        | TH6, CH     |
| 1SW-8-031824_SO       | SW8270D           | 4-Nitrophenol               | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Acenaphthene                | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Acenaphthylene              | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Anthracene                  | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Benzo(a)anthracene          | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Benzo(a)pyrene              | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Benzo(g,h,i)perylene        | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Benzoic Acid                | 84 µg/kg      | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8270D           | Benzyl Alcohol              | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 50 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 50 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Butylbenzylphthalate        | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Carbazole                   | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Chrysene                    | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Dibenzofuran                | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Diethylphthalate            | 50 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Dimethylphthalate           | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 20 µg/kg      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| 1SW-8-031824_SO       | SW8270D           | Fluoranthene               | 7.6 µg/kg     | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8270D           | Fluorene                   | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Hexachlorobenzene          | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Hexachlorobutadiene        | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Hexachlorocyclopentadiene  | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Hexachloroethane           | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene     | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Isophorone                 | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Naphthalene                | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Nitrobenzene               | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | N-Nitrosodiphenylamine     | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Pentachlorophenol          | 100 µg/kg     | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Phenanthrene               | 15 µg/kg      | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8270D           | Phenol                     | 20 µg/kg      | UJ        | TH6         |
| 1SW-8-031824_SO       | SW8270D           | Pyrene                     | 13.7 µg/kg    | J         | TH6, DL     |
| 1SW-8-031824_SO       | SW8270D           | Total Benzofluoranthenes   | 40 µg/kg      | UJ        | TH6         |
| 2E-4-031924_SO        | SW8260D           | 2-Butanone                 | 4.69 µg/kg    | J         | DL          |
| 2E-4-031924_SO        | SW8260D           | Carbon Disulfide           | 0.87 µg/kg    | J         | DL          |
| 2E-4-031924_SO        | SW8260D           | Toluene                    | 0.56 µg/kg    | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | 1-Methylnaphthalene        | 5.5 µg/kg     | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | 2-Methylnaphthalene        | 7.3 µg/kg     | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | 4-Nitroaniline             | 99.5 µg/kg    | UJ        | CH          |
| 2E-4-031924_SO        | SW8270D           | bis(2-Ethylhexyl)phthalate | 14.2 µg/kg    | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | Chrysene                   | 8.8 µg/kg     | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | Di-n-Butylphthalate        | 6.6 µg/kg     | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | Fluoranthene               | 10.6 µg/kg    | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | Naphthalene                | 6.5 µg/kg     | J         | DL          |
| 2E-4-031924_SO        | SW8270D           | Pyrene                     | 12.8 µg/kg    | J         | DL          |
| 2E-8-031924           | NWTPH-DX          | Diesel/#2 Fuel             | 0.171 mg/L    | J+        | HL          |
| 2E-8-031924           | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 2E-8-031924           | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 2E-8-031924           | SW8260D           | Acetone                    | 3.32 µg/L     | J         | DL          |
| 2E-8-031924           | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |
| 2E-8-031924           | SW8260D           | Carbon Disulfide           | 0.17 µg/L     | J         | DL          |
| 2E-8-031924           | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 2E-8-031924           | SW8260D           | Toluene                    | 0.06 µg/L     | J         | DL          |
| 2E-8-031924           | SW8270D           | 2,4-Dinitrophenol          | 60 µg/L       | UJ        | LC          |
| 2E-8-031924           | SW8270D           | 3,3'-Dichlorobenzidine     | 15 µg/L       | UJ        | LL          |
| 2E-8-031924           | SW8270D           | 4,6-Dinitro-2-Methylphenol | 30 µg/L       | UJ        | CH          |
| 2E-8-031924           | SW8270D           | 4-Chloroaniline            | 15 µg/L       | R         | LL          |
| 2E-8-031924           | SW8270D           | bis(2-Ethylhexyl)phthalate | 3.0 µg/L      | J         | DL          |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2E-8-031924           | SW8270D           | N-Nitroso-Di-N-Propylamine     | 3.0 µg/L      | UJ        | LL          |
| 2E-8-031924           | SW8270D           | N-Nitrosodiphenylamine         | 3.0 µg/L      | UJ        | LL          |
| 2E-8-031924_SO        | SW8260D           | 2-Butanone                     | 4.57 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8260D           | Benzene                        | 0.31 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8260D           | Toluene                        | 0.44 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | 1-Methylnaphthalene            | 6.1 µg/kg     | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | 2-Methylnaphthalene            | 17.1 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | 4-Nitroaniline                 | 99.8 µg/kg    | UJ        | CH          |
| 2E-8-031924_SO        | SW8270D           | Acenaphthene                   | 11.8 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | Chrysene                       | 6.8 µg/kg     | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | Dibenzofuran                   | 16.1 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | Fluoranthene                   | 13.6 µg/kg    | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | Naphthalene                    | 9.7 µg/kg     | J         | DL          |
| 2E-8-031924_SO        | SW8270D           | Pyrene                         | 16 µg/kg      | J         | DL          |
| 2NE-4-031924_SO       | NWTPH-DX          | Diesel/#2 Fuel                 | 92.3 mg/kg    | J         | TH6         |
| 2NE-4-031924_SO       | NWTPH-DX          | Motor Oil                      | 292 mg/kg     | J         | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane      | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1,1-Trichloroethane          | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane      | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1,2-Trichloroethane          | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1-Dichloroethane             | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1-Dichloroethene             | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,1-Dichloropropene            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2,3-Trichloropropane         | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2-Dibromoethane              | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2-Dichlorobenzene            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2-Dichloroethane             | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,2-Dichloropropane            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,3-Dichloropropane            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 2,2-Dichloropropane            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 2-Butanone                     | 3.65 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8260D           | 2-Chloroethylvinylether        | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 2-Chlorotoluene                | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 2-Hexanone                     | 5.78 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2NE-4-031924_SO       | SW8260D           | 2-Pentanone                 | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 4-Chlorotoluene             | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 4-Isopropyltoluene          | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK) | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Acetone                     | 281 µg/kg     | J         | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Acrolein                    | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Acrylonitrile               | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Benzene                     | 0.41 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8260D           | Bromobenzene                | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Bromochloromethane          | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Bromodichloromethane        | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Bromoform                   | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Bromomethane                | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Carbon Disulfide            | 2.71 µg/kg    | J         | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Carbon Tetrachloride        | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Chlorobenzene               | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Chloroethane                | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Chloroform                  | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Chloromethane               | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | cis-1,2-Dichloroethene      | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | cis-1,3-Dichloropropene     | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Dibromochloromethane        | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Dibromomethane              | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Dichlorodifluoromethane     | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Ethylbenzene                | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Hexachlorobutadiene         | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Iodomethane                 | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Isopropylbenzene            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | m+p-Xylene                  | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Methyl t-butyl ether        | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Methylene Chloride          | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Naphthalene                 | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | n-Butylbenzene              | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | n-Propylbenzene             | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | o-Xylene                    | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | sec-Butylbenzene            | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Styrene                     | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | tert-Butylbenzene           | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Tetrachloroethene           | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Toluene                     | 0.35 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8260D           | Total Xylenes               | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | trans-1,2-Dichloroethene    | 1.16 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2NE-4-031924_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Trichloroethene              | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Trichlorofluoromethane       | 2.31 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Vinyl Acetate                | 5.78 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8260D           | Vinyl Chloride               | 1.16 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 1,2-Dichlorobenzene          | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 1,3-Dichlorobenzene          | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 1,4-Dichlorobenzene          | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 1-Methylnaphthalene          | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,4-Dichlorophenol           | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,4-Dimethylphenol           | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,4-Dinitrophenol            | 996 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,4-Dinitrotoluene           | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2,6-Dinitrotoluene           | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2-Chloronaphthalene          | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2-Chlorophenol               | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2-Methylnaphthalene          | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2-Methylphenol               | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2-Nitroaniline               | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 2-Nitrophenol                | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine       | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 3-Nitroaniline               | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 996 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4-Bromophenyl-phenylether    | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4-Chloro-3-methylphenol      | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4-Chloroaniline              | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4-Chlorophenyl-phenylether   | 249 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4-Methylphenol               | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | 4-Nitroaniline               | 498 µg/kg     | UJ        | TH6, CH     |
| 2NE-4-031924_SO       | SW8270D           | 4-Nitrophenol                | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Acenaphthene                 | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Acenaphthylene               | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Anthracene                   | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Benzo(a)anthracene           | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Benzo(a)pyrene               | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Benzo(g,h,i)perylene         | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Benzoic Acid                 | 996 µg/kg     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2NE-4-031924_SO       | SW8270D           | Benzyl Alcohol              | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 249 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 1,690 µg/kg   | J         | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Butylbenzylphthalate        | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Carbazole                   | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Chrysene                    | 41.1 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8270D           | Dibenz(a,h)anthracene       | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Dibenzofuran                | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Diethylphthalate            | 249 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Dimethylphthalate           | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Di-n-Butylphthalate         | 36.3 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8270D           | Di-n-Octyl phthalate        | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Fluoranthene                | 51.5 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8270D           | Fluorene                    | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Hexachlorobenzene           | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Hexachlorobutadiene         | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Hexachlorocyclopentadiene   | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Hexachloroethane            | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Isophorone                  | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Naphthalene                 | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Nitrobenzene                | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine  | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | N-Nitrosodiphenylamine      | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Pentachlorophenol           | 498 µg/kg     | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Phenanthrene                | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Phenol                      | 99.6 µg/kg    | UJ        | TH6         |
| 2NE-4-031924_SO       | SW8270D           | Pyrene                      | 63.8 µg/kg    | J         | TH6, DL     |
| 2NE-4-031924_SO       | SW8270D           | Total Benzofluoranthenes    | 199 µg/kg     | UJ        | TH6         |
| 2NE-8-031924_SO       | SW8260D           | 2-Butanone                  | 5.03 µg/kg    | J         | DL          |
| 2NE-8-031924_SO       | SW8260D           | Benzene                     | 0.62 µg/kg    | J         | DL          |
| 2NE-8-031924_SO       | SW8260D           | Toluene                     | 0.39 µg/kg    | J         | DL          |
| 2NE-8-031924_SO       | SW8270D           | 2-Methylnaphthalene         | 4.6 µg/kg     | J         | DL          |
| 2NE-8-031924_SO       | SW8270D           | 4-Nitroaniline              | 99.9 µg/kg    | UJ        | CH          |
| 2NE-8-031924_SO       | SW8270D           | Acenaphthene                | 8.3 µg/kg     | J         | DL          |
| 2NE-8-031924_SO       | SW8270D           | Anthracene                  | 7.6 µg/kg     | J         | DL          |
| 2NE-8-031924_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 15.9 µg/kg    | J         | DL          |
| 2NE-8-031924_SO       | SW8270D           | Fluoranthene                | 17.6 µg/kg    | J         | DL          |
| 2NE-8-031924_SO       | SW8270D           | Pyrene                      | 19.4 µg/kg    | J         | DL          |
| 2NW-4-031924_SO       | SW8260D           | 2-Chloroethylvinylether     | 6.24 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8260D           | Benzene                     | 0.32 µg/kg    | J         | DL          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| 2NW-4-031924_SO       | SW8260D           | Isopropylbenzene           | 0.89 µg/kg    | J         | DL          |
| 2NW-4-031924_SO       | SW8260D           | Toluene                    | 0.96 µg/kg    | J         | DL          |
| 2NW-4-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol      | 99.4 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 2,4-Dichlorophenol         | 99.4 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 2,4-Dimethylphenol         | 99.4 µg/kg    | UJ        | LL          |
| 2NW-4-031924_SO       | SW8270D           | 2,4-Dinitrophenol          | 199 µg/kg     | UJ        | LC          |
| 2NW-4-031924_SO       | SW8270D           | 2,4-Dinitrotoluene         | 99.4 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 2-Nitrophenol              | 19.9 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine     | 99.4 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 3-Nitroaniline             | 99.4 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol | 199 µg/kg     | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | 4-Nitroaniline             | 99.4 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | Benzoic Acid               | 199 µg/kg     | UJ        | LL          |
| 2NW-4-031924_SO       | SW8270D           | Carbazole                  | 19.9 µg/kg    | UJ        | CH          |
| 2NW-4-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine | 19.9 µg/kg    | UJ        | CH          |
| 2NW-8-031924          | NWTPH-DX          | Diesel/#2 Fuel             | 0.463 mg/L    | J+        | HL          |
| 2NW-8-031924          | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 2NW-8-031924          | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 2NW-8-031924          | SW8260D           | 1,2,4-Trimethylbenzene     | 0.10 µg/L     | U         | MB          |
| 2NW-8-031924          | SW8260D           | Acetone                    | 3.55 µg/L     | J         | DL          |
| 2NW-8-031924          | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |
| 2NW-8-031924          | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 2NW-8-031924          | SW8260D           | Toluene                    | 0.05 µg/L     | J         | DL          |
| 2NW-8-031924          | SW8270D           | 2,4-Dinitrophenol          | 20 µg/L       | UJ        | LC          |
| 2NW-8-031924          | SW8270D           | 3,3'-Dichlorobenzidine     | 5.0 µg/L      | UJ        | LL          |
| 2NW-8-031924          | SW8270D           | 4,6-Dinitro-2-Methylphenol | 10 µg/L       | UJ        | CH          |
| 2NW-8-031924          | SW8270D           | 4-Chloroaniline            | 5.0 µg/L      | R         | LL          |
| 2NW-8-031924          | SW8270D           | bis(2-Ethylhexyl)phthalate | 0.50 µg/L     | J         | DL          |
| 2NW-8-031924          | SW8270D           | N-Nitroso-Di-N-Propylamine | 1.0 µg/L      | UJ        | LL          |
| 2NW-8-031924          | SW8270D           | N-Nitrosodiphenylamine     | 1.0 µg/L      | UJ        | LL          |
| 2NW-8-031924_SO       | SW8260D           | 2-Chloroethylvinylether    | 7.48 µg/kg    | UJ        | LC          |
| 2NW-8-031924_SO       | SW8260D           | Carbon Disulfide           | 0.94 µg/kg    | J         | DL          |
| 2NW-8-031924_SO       | SW8260D           | Iodomethane                | 1.5 µg/kg     | UJ        | LC          |
| 2NW-8-031924_SO       | SW8260D           | Trichlorofluoromethane     | 2.99 µg/kg    | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol      | 100 µg/kg     | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 2,4-Dichlorophenol         | 100 µg/kg     | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 2,4-Dimethylphenol         | 100 µg/kg     | UJ        | LL          |
| 2NW-8-031924_SO       | SW8270D           | 2,4-Dinitrophenol          | 200 µg/kg     | UJ        | LC          |
| 2NW-8-031924_SO       | SW8270D           | 2,4-Dinitrotoluene         | 100 µg/kg     | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 2-Methylnaphthalene        | 6.1 µg/kg     | J         | DL          |
| 2NW-8-031924_SO       | SW8270D           | 2-Nitrophenol              | 20 µg/kg      | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine     | 100 µg/kg     | UJ        | CH          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2NW-8-031924_SO       | SW8270D           | 3-Nitroaniline                 | 100 µg/kg     | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol     | 200 µg/kg     | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | 4-Nitroaniline                 | 100 µg/kg     | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | Benzoic Acid                   | 84.7 µg/kg    | J-        | LL, DL      |
| 2NW-8-031924_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate     | 18.1 µg/kg    | J         | DL          |
| 2NW-8-031924_SO       | SW8270D           | Carbazole                      | 20 µg/kg      | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | Chrysene                       | 8.2 µg/kg     | J         | DL          |
| 2NW-8-031924_SO       | SW8270D           | Fluoranthene                   | 10.9 µg/kg    | J         | DL          |
| 2NW-8-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine     | 20 µg/kg      | UJ        | CH          |
| 2NW-8-031924_SO       | SW8270D           | Phenanthrene                   | 12.7 µg/kg    | J         | DL          |
| 2NW-8-031924_SO       | SW8270D           | Pyrene                         | 11.6 µg/kg    | J         | DL          |
| 2SE-4-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel                 | 27.5 mg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | NWTPH-DX          | Motor Oil                      | 213 mg/kg     | J         | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane      | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1,1-Trichloroethane          | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane      | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1,2-Trichloroethane          | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1-Dichloroethane             | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1-Dichloroethene             | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,1-Dichloropropene            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2,3-Trichloropropane         | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2-Dibromoethane              | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2-Dichlorobenzene            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2-Dichloroethane             | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,2-Dichloropropane            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 2-Butanone                     | 7.98 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 2-Chlorotoluene                | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 2-Hexanone                     | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 2-Pentanone                    | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 4-Chlorotoluene                | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 2.18 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SE-4-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK) | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Acetone                     | 129 µg/kg     | J         | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Acrolein                    | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Acrylonitrile               | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Benzene                     | 0.86 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8260D           | Bromobenzene                | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Bromochloromethane          | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Bromodichloromethane        | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Bromoform                   | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Bromomethane                | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Carbon Disulfide            | 2.68 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Carbon Tetrachloride        | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Chlorobenzene               | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Chloroethane                | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Chloroform                  | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Chloromethane               | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | cis-1,2-Dichloroethene      | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | cis-1,3-Dichloropropene     | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Dibromochloromethane        | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Dibromomethane              | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Dichlorodifluoromethane     | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Ethylbenzene                | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Hexachlorobutadiene         | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Iodomethane                 | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Isopropylbenzene            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | m+p-Xylene                  | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Methyl t-butyl ether        | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Methylene Chloride          | 12.4 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Naphthalene                 | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | n-Butylbenzene              | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | n-Propylbenzene             | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | o-Xylene                    | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | sec-Butylbenzene            | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Styrene                     | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | tert-Butylbenzene           | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Tetrachloroethene           | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Toluene                     | 1.07 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8260D           | Total Xylenes               | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | trans-1,2-Dichloroethene    | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | trans-1,3-Dichloropropene   | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Trichloroethene             | 2.18 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SE-4-031824_SO       | SW8260D           | Trichlorofluoromethane       | 4.35 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Vinyl Acetate                | 10.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8260D           | Vinyl Chloride               | 2.18 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 6.7 µg/kg     | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,4-Dichlorophenol           | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,4-Dimethylphenol           | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,4-Dinitrophenol            | 199 µg/kg     | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,4-Dinitrotoluene           | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2,6-Dinitrotoluene           | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2-Chloronaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2-Chlorophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2-Methylnaphthalene          | 15.4 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | 2-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2-Nitroaniline               | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 2-Nitrophenol                | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine       | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 3-Nitroaniline               | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 199 µg/kg     | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether    | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol      | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 4-Chloroaniline              | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether   | 49.8 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | 4-Methylphenol               | 17 µg/kg      | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | 4-Nitroaniline               | 99.6 µg/kg    | UJ        | TH6, CH     |
| 2SE-4-031824_SO       | SW8270D           | 4-Nitrophenol                | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Acenaphthene                 | 5.9 µg/kg     | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | Acenaphthylene               | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Anthracene                   | 11 µg/kg      | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | Benzo(a)anthracene           | 12.7 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | Benzo(a)pyrene               | 158 µg/kg     | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Benzo(g,h,i)perylene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Benzoic Acid                 | 95.5 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | Benzyl Alcohol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane  | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether    | 49.8 µg/kg    | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SE-4-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 16.8 µg/kg    | J         | TH6, DL     |
| 2SE-4-031824_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Carbazole                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Chrysene                    | 31.7 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Diethylphthalate            | 49.8 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 23.5 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Fluoranthene                | 41.6 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Fluorene                    | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Hexachlorobenzene           | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Hexachlorobutadiene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Hexachlorocyclopentadiene   | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Hexachloroethane            | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Isophorone                  | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Naphthalene                 | 24.6 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Nitrobenzene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine  | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | N-Nitrosodiphenylamine      | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Pentachlorophenol           | 99.6 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Phenanthrene                | 71.9 µg/kg    | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Phenol                      | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Pyrene                      | 45 µg/kg      | J         | TH6         |
| 2SE-4-031824_SO       | SW8270D           | Total Benzofluoranthenes    | 57.6 µg/kg    | J         | TH6         |
| 2SE-8-031824          | NWTPH-DX          | Diesel/#2 Fuel              | 0.111 mg/L    | J+        | TH6, HL     |
| 2SE-8-031824          | NWTPH-DX          | Motor Oil                   | 0.20 mg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane   | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1,1-Trichloroethane       | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane   | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1,2-Trichloroethane       | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1-Dichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1-Dichloroethene          | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,1-Dichloropropene         | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,2,3-Trichlorobenzene      | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SE-8-031824          | SW8260D           | 1,2,3-Trichloropropane      | 0.50 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,2,4-Trichlorobenzene      | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SE-8-031824          | SW8260D           | 1,2,4-Trimethylbenzene      | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane | 0.50 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,2-Dibromoethane           | 0.20 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2SE-8-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 2-Chloroethylvinylether        | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 2-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 2-Hexanone                     | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 2-Pentanone                    | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 4-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 4-Isopropyltoluene             | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Acetone                        | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Acrolein                       | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Acrylonitrile                  | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Benzene                        | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Bromobenzene                   | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Bromochloromethane             | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Bromodichloromethane           | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Bromoform                      | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Bromomethane                   | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Carbon Disulfide               | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Carbon Tetrachloride           | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Chlorobenzene                  | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Chloroethane                   | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Chloroform                     | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Chloromethane                  | 0.50 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | cis-1,2-Dichloroethene         | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | cis-1,3-Dichloropropene        | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Dibromochloromethane           | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Dibromomethane                 | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Dichlorodifluoromethane        | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Ethylbenzene                   | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Hexachlorobutadiene            | 2.0 µg/L      | UJ        | TH6, CH     |
| 2SE-8-031824          | SW8260D           | Iodomethane                    | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Isopropylbenzene               | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | m+p-Xylene                     | 0.40 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SE-8-031824          | SW8260D           | Methyl t-butyl ether         | 0.50 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Methylene Chloride           | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Naphthalene                  | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SE-8-031824          | SW8260D           | n-Butylbenzene               | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | n-Propylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | o-Xylene                     | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | sec-Butylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Styrene                      | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | tert-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Tetrachloroethene            | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Toluene                      | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Total Xylenes                | 0.60 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | trans-1,2-Dichloroethene     | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | trans-1,3-Dichloropropene    | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | trans-1,4-Dichloro-2-butene  | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Trichloroethene              | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Trichlorofluoromethane       | 0.20 µg/L     | UJ        | TH6, CH     |
| 2SE-8-031824          | SW8260D           | Vinyl Acetate                | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8260D           | Vinyl Chloride               | 0.20 µg/L     | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 1,2,4-Trichlorobenzene       | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 1,2-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 1,3-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 1,4-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 1-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,4-Dichlorophenol           | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,4-Dimethylphenol           | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,4-Dinitrophenol            | 20 µg/L       | UJ        | TH6, LC     |
| 2SE-8-031824          | SW8270D           | 2,4-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2,6-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2-Chloronaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2-Chlorophenol               | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2-Methylphenol               | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 2-Nitrophenol                | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 3,3'-Dichlorobenzidine       | 5.0 µg/L      | UJ        | TH6, LL     |
| 2SE-8-031824          | SW8270D           | 3-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 10 µg/L       | UJ        | TH6, CH     |
| 2SE-8-031824          | SW8270D           | 4-Bromophenyl-phenylether    | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SE-8-031824          | SW8270D           | 4-Chloro-3-methylphenol     | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 4-Chloroaniline             | 5.0 µg/L      | R         | LL          |
| 2SE-8-031824          | SW8270D           | 4-Chlorophenyl-phenylether  | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 4-Methylphenol              | 2.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 4-Nitroaniline              | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | 4-Nitrophenol               | 10 µg/L       | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Acenaphthene                | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Acenaphthylene              | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Anthracene                  | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Benzo(a)anthracene          | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Benzo(a)pyrene              | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Benzo(g,h,i)perylene        | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Benzoic Acid                | 2.8 µg/L      | J         | TH6, DL     |
| 2SE-8-031824          | SW8270D           | Benzyl Alcohol              | 2.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | bis(2-Chloroethoxy) Methane | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether   | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate  | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Butylbenzylphthalate        | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Carbazole                   | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Chrysene                    | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Dibenz(a,h)anthracene       | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Dibenzofuran                | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Diethylphthalate            | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Dimethylphthalate           | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Di-n-Butylphthalate         | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Di-n-Octyl phthalate        | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Fluoranthene                | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Fluorene                    | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Hexachlorobenzene           | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Hexachlorobutadiene         | 3.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Hexachlorocyclopentadiene   | 5.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Hexachloroethane            | 2.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Isophorone                  | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Naphthalene                 | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Nitrobenzene                | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 1.0 µg/L      | UJ        | TH6, LL     |
| 2SE-8-031824          | SW8270D           | N-Nitrosodiphenylamine      | 1.0 µg/L      | UJ        | TH6, LL     |
| 2SE-8-031824          | SW8270D           | Pentachlorophenol           | 10 µg/L       | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Phenanthrene                | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Phenol                      | 1.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824          | SW8270D           | Pyrene                      | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2SE-8-031824          | SW8270D           | Total Benzofluoranthenes       | 2.0 µg/L      | UJ        | TH6         |
| 2SE-8-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel                 | 13.1 mg/kg    | J         | TH6         |
| 2SE-8-031824_SO       | NWTPH-DX          | Motor Oil                      | 87.4 mg/kg    | J         | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane      | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1,1-Trichloroethane          | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane      | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1,2-Trichloroethane          | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1-Dichloroethane             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1-Dichloroethene             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,1-Dichloropropene            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2,3-Trichloropropane         | 3.67 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2-Dibromoethane              | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2-Dichlorobenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2-Dichloroethane             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,2-Dichloropropane            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 3.67 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 2-Butanone                     | 6.46 µg/kg    | J         | TH6, DL     |
| 2SE-8-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 2-Hexanone                     | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 2-Pentanone                    | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Acetone                        | 152 µg/kg     | J         | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Acrolein                       | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Acrylonitrile                  | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Benzene                        | 0.52 µg/kg    | J         | TH6, DL     |
| 2SE-8-031824_SO       | SW8260D           | Bromobenzene                   | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Bromochloromethane             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Bromodichloromethane           | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Bromoform                      | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Bromomethane                   | 3.67 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SE-8-031824_SO       | SW8260D           | Carbon Disulfide             | 0.64 µg/kg    | J         | TH6, DL     |
| 2SE-8-031824_SO       | SW8260D           | Carbon Tetrachloride         | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Chlorobenzene                | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Chloroethane                 | 3.67 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Chloroform                   | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Chloromethane                | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | cis-1,2-Dichloroethene       | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | cis-1,3-Dichloropropene      | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Dibromochloromethane         | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Dibromomethane               | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Dichlorodifluoromethane      | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Ethylbenzene                 | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Hexachlorobutadiene          | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Iodomethane                  | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Isopropylbenzene             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | m+p-Xylene                   | 3.67 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Methyl t-butyl ether         | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Methylene Chloride           | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Naphthalene                  | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | n-Butylbenzene               | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | n-Propylbenzene              | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | o-Xylene                     | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | sec-Butylbenzene             | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Styrene                      | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | tert-Butylbenzene            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Tetrachloroethene            | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Toluene                      | 0.57 µg/kg    | J         | TH6, DL     |
| 2SE-8-031824_SO       | SW8260D           | Total Xylenes                | 3.67 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | trans-1,2-Dichloroethene     | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Trichloroethene              | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Trichlorofluoromethane       | 3.67 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Vinyl Acetate                | 9.17 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8260D           | Vinyl Chloride               | 1.83 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.7 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SE-8-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol       | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,4-Dichlorophenol          | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,4-Dimethylphenol          | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,4-Dinitrophenol           | 199 µg/kg     | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,4-Dinitrotoluene          | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2,6-Dinitrotoluene          | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2-Chloronaphthalene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2-Chlorophenol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2-Methylnaphthalene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2-Methylphenol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 2-Nitrophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine      | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 3-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol  | 199 µg/kg     | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether   | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol     | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4-Chloroaniline             | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether  | 49.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4-Methylphenol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | 4-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6, CH     |
| 2SE-8-031824_SO       | SW8270D           | 4-Nitrophenol               | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Acenaphthene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Acenaphthylene              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Anthracene                  | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Benzo(a)anthracene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Benzo(a)pyrene              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Benzo(g,h,i)perylene        | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Benzoic Acid                | 126 µg/kg     | J         | TH6, DL     |
| 2SE-8-031824_SO       | SW8270D           | Benzyl Alcohol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 49.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 49.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Carbazole                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Chrysene                    | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Diethylphthalate            | 49.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2SE-8-031824_SO       | SW8270D           | Fluoranthene                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Fluorene                       | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Hexachlorobenzene              | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Hexachlorobutadiene            | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Hexachlorocyclopentadiene      | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Hexachloroethane               | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Isophorone                     | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Naphthalene                    | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Nitrobenzene                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine     | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | N-Nitrosodiphenylamine         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Pentachlorophenol              | 99.7 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Phenanthrene                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Phenol                         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Pyrene                         | 19.9 µg/kg    | UJ        | TH6         |
| 2SE-8-031824_SO       | SW8270D           | Total Benzofluoranthenes       | 39.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824          | NWTPH-DX          | Diesel/#2 Fuel                 | 0.281 mg/L    | J+        | TH6, HL     |
| 2SW-4-031824          | NWTPH-DX          | Motor Oil                      | 0.61 mg/L     | J         | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1,1-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1,2-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1-Dichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,1-Dichloropropene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2,3-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SW-4-031824          | SW8260D           | 1,2,3-Trichloropropane         | 0.50 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2,4-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SW-4-031824          | SW8260D           | 1,2,4-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane    | 0.50 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2-Dibromoethane              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SW-4-031824          | SW8260D           | 2-Chloroethylvinylether     | 1.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 2-Chlorotoluene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 2-Hexanone                  | 5.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 2-Pentanone                 | 5.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 4-Chlorotoluene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 4-Isopropyltoluene          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK) | 5.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Acetone                     | 6.96 µg/L     | J         | TH6         |
| 2SW-4-031824          | SW8260D           | Acrolein                    | 5.0 µg/L      | UJ        | TH6, LC     |
| 2SW-4-031824          | SW8260D           | Acrylonitrile               | 1.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Benzene                     | 0.06 µg/L     | J         | TH6, DL     |
| 2SW-4-031824          | SW8260D           | Bromobenzene                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Bromochloromethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Bromodichloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Bromoform                   | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Bromomethane                | 1.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Carbon Disulfide            | 0.15 µg/L     | J         | TH6, DL     |
| 2SW-4-031824          | SW8260D           | Carbon Tetrachloride        | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Chlorobenzene               | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Chloroethane                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Chloroform                  | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Chloromethane               | 0.50 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | cis-1,2-Dichloroethene      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | cis-1,3-Dichloropropene     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Dibromochloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Dibromomethane              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Dichlorodifluoromethane     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Ethylbenzene                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Hexachlorobutadiene         | 2.0 µg/L      | UJ        | TH6, CH     |
| 2SW-4-031824          | SW8260D           | Iodomethane                 | 1.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Isopropylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | m+p-Xylene                  | 0.40 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Methyl t-butyl ether        | 0.50 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Methylene Chloride          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Naphthalene                 | 0.50 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | n-Butylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | n-Propylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | o-Xylene                    | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | sec-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Styrene                     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | tert-Butylbenzene           | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Tetrachloroethene           | 0.20 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SW-4-031824          | SW8260D           | Toluene                      | 0.10 µg/L     | J         | TH6, DL     |
| 2SW-4-031824          | SW8260D           | Total Xylenes                | 0.60 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | trans-1,2-Dichloroethene     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | trans-1,3-Dichloropropene    | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | trans-1,4-Dichloro-2-butene  | 1.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Trichloroethene              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Trichlorofluoromethane       | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Vinyl Acetate                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8260D           | Vinyl Chloride               | 0.20 µg/L     | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 1,2,4-Trichlorobenzene       | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 1,2-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 1,3-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 1,4-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 1-Methylnaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 15 µg/L       | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,4-Dichlorophenol           | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,4-Dimethylphenol           | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,4-Dinitrophenol            | 60 µg/L       | UJ        | TH6, LC     |
| 2SW-4-031824          | SW8270D           | 2,4-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2,6-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2-Chloronaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2-Chlorophenol               | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2-Methylnaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2-Methylphenol               | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 2-Nitrophenol                | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 3,3'-Dichlorobenzidine       | 15 µg/L       | UJ        | TH6, LL     |
| 2SW-4-031824          | SW8270D           | 3-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 30 µg/L       | UJ        | TH6, CH     |
| 2SW-4-031824          | SW8270D           | 4-Bromophenyl-phenylether    | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 4-Chloro-3-methylphenol      | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 4-Chloroaniline              | 15 µg/L       | R         | LL          |
| 2SW-4-031824          | SW8270D           | 4-Chlorophenyl-phenylether   | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 4-Methylphenol               | 6.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 4-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | 4-Nitrophenol                | 30 µg/L       | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Acenaphthene                 | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Acenaphthylene               | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Anthracene                   | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Benzo(a)anthracene           | 3.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SW-4-031824          | SW8270D           | Benzo(a)pyrene              | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Benzo(g,h,i)perylene        | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Benzoic Acid                | 60 µg/L       | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Benzyl Alcohol              | 6.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | bis(2-Chloroethoxy) Methane | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether   | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate  | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Butylbenzylphthalate        | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Carbazole                   | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Chrysene                    | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Dibenz(a,h)anthracene       | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Dibenzofuran                | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Diethylphthalate            | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Dimethylphthalate           | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Di-n-Butylphthalate         | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Di-n-Octyl phthalate        | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Fluoranthene                | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Fluorene                    | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Hexachlorobenzene           | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Hexachlorobutadiene         | 9.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Hexachlorocyclopentadiene   | 15 µg/L       | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Hexachloroethane            | 6.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Isophorone                  | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Naphthalene                 | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Nitrobenzene                | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 3.0 µg/L      | UJ        | TH6, LL     |
| 2SW-4-031824          | SW8270D           | N-Nitrosodiphenylamine      | 3.0 µg/L      | UJ        | TH6, LL     |
| 2SW-4-031824          | SW8270D           | Pentachlorophenol           | 30 µg/L       | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Phenanthrene                | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Phenol                      | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Pyrene                      | 3.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824          | SW8270D           | Total Benzofluoranthenes    | 6.0 µg/L      | UJ        | TH6         |
| 2SW-4-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel              | 5.97 mg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | NWTPH-DX          | Motor Oil                   | 16.3 mg/kg    | J         | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane   | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1,1-Trichloroethane       | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane   | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1,2-Trichloroethane       | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1-Dichloroethane          | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1-Dichloroethene          | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,1-Dichloropropene         | 1.3 µg/kg     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2SW-4-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2,3-Trichloropropane         | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2-Dibromoethane              | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2-Dichlorobenzene            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2-Dichloroethane             | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,2-Dichloropropane            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 2-Butanone                     | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 2-Hexanone                     | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 2-Pentanone                    | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Acetone                        | 47.4 µg/kg    | J         | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Acrolein                       | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Acrylonitrile                  | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Benzene                        | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Bromobenzene                   | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Bromochloromethane             | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Bromodichloromethane           | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Bromoform                      | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Bromomethane                   | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Carbon Disulfide               | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Carbon Tetrachloride           | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Chlorobenzene                  | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Chloroethane                   | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Chloroform                     | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Chloromethane                  | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | cis-1,2-Dichloroethene         | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | cis-1,3-Dichloropropene        | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Dibromochloromethane           | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Dibromomethane                 | 1.3 µg/kg     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SW-4-031824_SO       | SW8260D           | Dichlorodifluoromethane      | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Ethylbenzene                 | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Hexachlorobutadiene          | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Iodomethane                  | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Isopropylbenzene             | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | m+p-Xylene                   | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Methyl t-butyl ether         | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Methylene Chloride           | 51.9 µg/kg    | J         | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Naphthalene                  | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | n-Butylbenzene               | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | n-Propylbenzene              | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | o-Xylene                     | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | sec-Butylbenzene             | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Styrene                      | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | tert-Butylbenzene            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Tetrachloroethene            | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Toluene                      | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Total Xylenes                | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | trans-1,2-Dichloroethene     | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Trichloroethene              | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Trichlorofluoromethane       | 2.61 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Vinyl Acetate                | 6.52 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8260D           | Vinyl Chloride               | 1.3 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,4-Dichlorophenol           | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,4-Dimethylphenol           | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,4-Dinitrophenol            | 199 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,4-Dinitrotoluene           | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2,6-Dinitrotoluene           | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2-Chloronaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2-Chlorophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SW-4-031824_SO       | SW8270D           | 2-Nitroaniline              | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 2-Nitrophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine      | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 3-Nitroaniline              | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol  | 199 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether   | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol     | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4-Chloroaniline             | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether  | 49.7 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4-Methylphenol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | 4-Nitroaniline              | 99.5 µg/kg    | UJ        | TH6, CH     |
| 2SW-4-031824_SO       | SW8270D           | 4-Nitrophenol               | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Acenaphthene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Acenaphthylene              | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Anthracene                  | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Benzo(a)anthracene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Benzo(a)pyrene              | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Benzo(g,h,i)perylene        | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Benzoic Acid                | 199 µg/kg     | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Benzyl Alcohol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 49.7 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 49.7 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Carbazole                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Chrysene                    | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Diethylphthalate            | 49.7 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Fluoranthene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Fluorene                    | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Hexachlorobenzene           | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Hexachlorobutadiene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Hexachlorocyclopentadiene   | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Hexachloroethane            | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Isophorone                  | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Naphthalene                 | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Nitrobenzene                | 19.9 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2SW-4-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine     | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | N-Nitrosodiphenylamine         | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Pentachlorophenol              | 99.5 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Phenanthrene                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Phenol                         | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-4-031824_SO       | SW8270D           | Pyrene                         | 5.7 µg/kg     | J         | TH6, DL     |
| 2SW-4-031824_SO       | SW8270D           | Total Benzofluoranthenes       | 39.8 µg/kg    | UJ        | TH6         |
| 2SW-8-031824          | NWTPH-DX          | Diesel/#2 Fuel                 | 0.119 mg/L    | J+        | TH6, HL     |
| 2SW-8-031824          | NWTPH-DX          | Motor Oil                      | 0.20 mg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1,1,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1,1-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1,2,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1,2-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1-Dichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,1-Dichloropropene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2,3-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SW-8-031824          | SW8260D           | 1,2,3-Trichloropropane         | 0.50 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2,4-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| 2SW-8-031824          | SW8260D           | 1,2,4-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2-Dibromo-3-chloropropane    | 0.50 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2-Dibromoethane              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 2-Butanone                     | 5.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 2-Chloroethylvinylether        | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 2-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 2-Hexanone                     | 5.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 2-Pentanone                    | 5.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 4-Chlorotoluene                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 4-Isopropyltoluene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 5.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Acetone                        | 4.03 µg/L     | J         | TH6, DL     |
| 2SW-8-031824          | SW8260D           | Acrolein                       | 5.0 µg/L      | UJ        | TH6, LC     |
| 2SW-8-031824          | SW8260D           | Acrylonitrile                  | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SW-8-031824          | SW8260D           | Benzene                     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Bromobenzene                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Bromochloromethane          | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Bromodichloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Bromoform                   | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Bromomethane                | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Carbon Disulfide            | 0.16 µg/L     | J         | TH6, DL     |
| 2SW-8-031824          | SW8260D           | Carbon Tetrachloride        | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Chlorobenzene               | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Chloroethane                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Chloroform                  | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Chloromethane               | 0.50 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | cis-1,2-Dichloroethene      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | cis-1,3-Dichloropropene     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Dibromochloromethane        | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Dibromomethane              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Dichlorodifluoromethane     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Ethylbenzene                | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Hexachlorobutadiene         | 2.0 µg/L      | UJ        | TH6, CH     |
| 2SW-8-031824          | SW8260D           | Iodomethane                 | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Isopropylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | m+p-Xylene                  | 0.40 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Methyl t-butyl ether        | 0.50 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Methylene Chloride          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Naphthalene                 | 0.50 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | n-Butylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | n-Propylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | o-Xylene                    | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | sec-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Styrene                     | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | tert-Butylbenzene           | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Tetrachloroethene           | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Toluene                     | 0.05 µg/L     | J         | TH6, DL     |
| 2SW-8-031824          | SW8260D           | Total Xylenes               | 0.60 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | trans-1,2-Dichloroethene    | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | trans-1,3-Dichloropropene   | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | trans-1,4-Dichloro-2-butene | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Trichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Trichlorofluoromethane      | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Vinyl Acetate               | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8260D           | Vinyl Chloride              | 0.20 µg/L     | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 1,2,4-Trichlorobenzene      | 1.0 µg/L      | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SW-8-031824          | SW8270D           | 1,2-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 1,3-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 1,4-Dichlorobenzene          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 1-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,4,5-Trichlorophenol        | 5.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,4,6-Trichlorophenol        | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,4-Dichlorophenol           | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,4-Dimethylphenol           | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,4-Dinitrophenol            | 20 µg/L       | UJ        | TH6, LC     |
| 2SW-8-031824          | SW8270D           | 2,4-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2,6-Dinitrotoluene           | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2-Chloronaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2-Chlorophenol               | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2-Methylnaphthalene          | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2-Methylphenol               | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 2-Nitrophenol                | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 3,3'-Dichlorobenzidine       | 5.0 µg/L      | UJ        | TH6, LL     |
| 2SW-8-031824          | SW8270D           | 3-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 10 µg/L       | UJ        | TH6, CH     |
| 2SW-8-031824          | SW8270D           | 4-Bromophenyl-phenylether    | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 4-Chloro-3-methylphenol      | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 4-Chloroaniline              | 5.0 µg/L      | R         | LL          |
| 2SW-8-031824          | SW8270D           | 4-Chlorophenyl-phenylether   | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 4-Methylphenol               | 2.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 4-Nitroaniline               | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | 4-Nitrophenol                | 10 µg/L       | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Acenaphthene                 | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Acenaphthylene               | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Anthracene                   | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Benzo(a)anthracene           | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Benzo(a)pyrene               | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Benzo(g,h,i)perylene         | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Benzoic Acid                 | 20 µg/L       | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Benzyl Alcohol               | 2.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | bis(2-Chloroethoxy) Methane  | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Bis-(2-Chloroethyl) Ether    | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | bis(2-Ethylhexyl)phthalate   | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Butylbenzylphthalate         | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Carbazole                    | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Chrysene                     | 1.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SW-8-031824          | SW8270D           | Dibenz(a,h)anthracene       | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Dibenzofuran                | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Diethylphthalate            | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Dimethylphthalate           | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Di-n-Butylphthalate         | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Di-n-Octyl phthalate        | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Fluoranthene                | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Fluorene                    | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Hexachlorobenzene           | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Hexachlorobutadiene         | 3.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Hexachlorocyclopentadiene   | 5.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Hexachloroethane            | 2.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Isophorone                  | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Naphthalene                 | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Nitrobenzene                | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 1.0 µg/L      | UJ        | TH6, LL     |
| 2SW-8-031824          | SW8270D           | N-Nitrosodiphenylamine      | 1.0 µg/L      | UJ        | TH6, LL     |
| 2SW-8-031824          | SW8270D           | Pentachlorophenol           | 10 µg/L       | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Phenanthrene                | 0.20 µg/L     | J         | TH6, DL     |
| 2SW-8-031824          | SW8270D           | Phenol                      | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Pyrene                      | 1.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824          | SW8270D           | Total Benzofluoranthenes    | 2.0 µg/L      | UJ        | TH6         |
| 2SW-8-031824_SO       | NWTPH-DX          | Diesel/#2 Fuel              | 10.3 mg/kg    | J         | TH6         |
| 2SW-8-031824_SO       | NWTPH-DX          | Motor Oil                   | 61.4 mg/kg    | J         | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane   | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1,1-Trichloroethane       | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane   | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1,2-Trichloroethane       | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1-Dichloroethane          | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1-Dichloroethene          | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,1-Dichloropropene         | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2,3-Trichlorobenzene      | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2,3-Trichloropropane      | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2,4-Trichlorobenzene      | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2,4-Trimethylbenzene      | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2-Dibromoethane           | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2-Dichlorobenzene         | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2-Dichloroethane          | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,2-Dichloropropane         | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,3,5-Trimethylbenzene      | 1.15 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2SW-8-031824_SO       | SW8260D           | 1,3-Dichlorobenzene            | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,3-Dichloropropane            | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 1,4-Dichlorobenzene            | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 2,2-Dichloropropane            | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 2-Butanone                     | 3.07 µg/kg    | J         | TH6, DL     |
| 2SW-8-031824_SO       | SW8260D           | 2-Chloroethylvinylether        | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 2-Chlorotoluene                | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 2-Hexanone                     | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 2-Pentanone                    | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 4-Chlorotoluene                | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 4-Isopropyltoluene             | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Acetone                        | 64.5 µg/kg    | J         | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Acrolein                       | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Acrylonitrile                  | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Benzene                        | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Bromobenzene                   | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Bromochloromethane             | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Bromodichloromethane           | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Bromoform                      | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Bromomethane                   | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Carbon Disulfide               | 3.8 µg/kg     | J         | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Carbon Tetrachloride           | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Chlorobenzene                  | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Chloroethane                   | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Chloroform                     | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Chloromethane                  | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | cis-1,2-Dichloroethene         | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | cis-1,3-Dichloropropene        | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Dibromochloromethane           | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Dibromomethane                 | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Dichlorodifluoromethane        | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Ethylbenzene                   | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Hexachlorobutadiene            | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Iodomethane                    | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Isopropylbenzene               | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | m+p-Xylene                     | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Methyl t-butyl ether           | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Methylene Chloride             | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Naphthalene                    | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | n-Butylbenzene                 | 1.15 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| 2SW-8-031824_SO       | SW8260D           | n-Propylbenzene              | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | o-Xylene                     | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | sec-Butylbenzene             | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Styrene                      | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | tert-Butylbenzene            | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Tetrachloroethene            | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Toluene                      | 0.31 µg/kg    | J         | TH6, DL     |
| 2SW-8-031824_SO       | SW8260D           | Total Xylenes                | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | trans-1,2-Dichloroethene     | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | trans-1,3-Dichloropropene    | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Trichloroethene              | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Trichlorofluoromethane       | 2.31 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Vinyl Acetate                | 5.76 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8260D           | Vinyl Chloride               | 1.15 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 1-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,4-Dichlorophenol           | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,4-Dimethylphenol           | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,4-Dinitrophenol            | 199 µg/kg     | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,4-Dinitrotoluene           | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2,6-Dinitrotoluene           | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2-Chloronaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2-Chlorophenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2-Methylnaphthalene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2-Nitroaniline               | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 2-Nitrophenol                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 3,3'-Dichlorobenzidine       | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 3-Nitroaniline               | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 199 µg/kg     | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 4-Bromophenyl-phenylether    | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 4-Chloro-3-methylphenol      | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 4-Chloroaniline              | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 4-Chlorophenyl-phenylether   | 49.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | 4-Methylphenol               | 19.9 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| 2SW-8-031824_SO       | SW8270D           | 4-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6, CH     |
| 2SW-8-031824_SO       | SW8270D           | 4-Nitrophenol               | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Acenaphthene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Acenaphthylene              | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Anthracene                  | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Benzo(a)anthracene          | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Benzo(a)pyrene              | 53.2 µg/kg    | J         | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Benzo(g,h,i)perylene        | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Benzoic Acid                | 199 µg/kg     | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Benzyl Alcohol              | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 49.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 49.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Carbazole                   | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Chrysene                    | 15.6 µg/kg    | J         | TH6, DL     |
| 2SW-8-031824_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Diethylphthalate            | 49.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Di-n-Butylphthalate         | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Fluoranthene                | 26.8 µg/kg    | J         | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Fluorene                    | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Hexachlorobenzene           | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Hexachlorobutadiene         | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Hexachlorocyclopentadiene   | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Hexachloroethane            | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Isophorone                  | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Naphthalene                 | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Nitrobenzene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine  | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | N-Nitrosodiphenylamine      | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Pentachlorophenol           | 99.7 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Phenanthrene                | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Phenol                      | 19.9 µg/kg    | UJ        | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Pyrene                      | 42 µg/kg      | J         | TH6         |
| 2SW-8-031824_SO       | SW8270D           | Total Benzofluoranthenes    | 39.9 µg/kg    | UJ        | TH6         |
| 2W-4-031924           | NWTPH-DX          | Diesel/#2 Fuel              | 0.147 mg/L    | J+        | HL          |
| 2W-4-031924           | SW8260D           | 1,2,3-Trichlorobenzene      | 0.50 µg/L     | UJ        | CH          |
| 2W-4-031924           | SW8260D           | 1,2,4-Trichlorobenzene      | 0.50 µg/L     | UJ        | CH          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| 2W-4-031924           | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |
| 2W-4-031924           | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 2W-4-031924           | SW8260D           | Toluene                    | 0.05 µg/L     | J         | DL          |
| 2W-4-031924           | SW8270D           | 2,4-Dinitrophenol          | 60 µg/L       | UJ        | LC          |
| 2W-4-031924           | SW8270D           | 3,3'-Dichlorobenzidine     | 15 µg/L       | UJ        | LL          |
| 2W-4-031924           | SW8270D           | 4,6-Dinitro-2-Methylphenol | 30 µg/L       | UJ        | CH          |
| 2W-4-031924           | SW8270D           | 4-Chloroaniline            | 15 µg/L       | R         | LL          |
| 2W-4-031924           | SW8270D           | bis(2-Ethylhexyl)phthalate | 1.3 µg/L      | J         | DL          |
| 2W-4-031924           | SW8270D           | N-Nitroso-Di-N-Propylamine | 3.0 µg/L      | UJ        | LL          |
| 2W-4-031924           | SW8270D           | N-Nitrosodiphenylamine     | 3.0 µg/L      | UJ        | LL          |
| 2W-4-031924_SO        | SW8260D           | 2-Butanone                 | 5.24 µg/kg    | J         | DL          |
| 2W-4-031924_SO        | SW8260D           | 2-Chloroethylvinylether    | 6.0 µg/kg     | UJ        | CH          |
| 2W-4-031924_SO        | SW8260D           | Benzene                    | 0.36 µg/kg    | J         | DL          |
| 2W-4-031924_SO        | SW8270D           | 2,4,6-Trichlorophenol      | 99.7 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 2,4-Dichlorophenol         | 99.7 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 2,4-Dimethylphenol         | 99.7 µg/kg    | UJ        | LL          |
| 2W-4-031924_SO        | SW8270D           | 2,4-Dinitrophenol          | 199 µg/kg     | UJ        | LC          |
| 2W-4-031924_SO        | SW8270D           | 2,4-Dinitrotoluene         | 99.7 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 2-Nitrophenol              | 19.9 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 3,3'-Dichlorobenzidine     | 99.7 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 3-Nitroaniline             | 99.7 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 4,6-Dinitro-2-Methylphenol | 199 µg/kg     | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | 4-Nitroaniline             | 99.7 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | Benzo(a)pyrene             | 6.3 µg/kg     | J         | DL          |
| 2W-4-031924_SO        | SW8270D           | Benzoic Acid               | 199 µg/kg     | UJ        | LL          |
| 2W-4-031924_SO        | SW8270D           | bis(2-Ethylhexyl)phthalate | 19.6 µg/kg    | J         | DL          |
| 2W-4-031924_SO        | SW8270D           | Carbazole                  | 19.9 µg/kg    | UJ        | CH          |
| 2W-4-031924_SO        | SW8270D           | Chrysene                   | 13.2 µg/kg    | J         | DL          |
| 2W-4-031924_SO        | SW8270D           | Fluoranthene               | 16.7 µg/kg    | J         | DL          |
| 2W-4-031924_SO        | SW8270D           | N-Nitroso-Di-N-Propylamine | 19.9 µg/kg    | UJ        | CH          |
| 2W-8-031924           | NWTPH-DX          | Diesel/#2 Fuel             | 0.124 mg/L    | J+        | HL          |
| 2W-8-031924           | SW8260D           | 1,2,3-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 2W-8-031924           | SW8260D           | 1,2,4-Trichlorobenzene     | 0.50 µg/L     | UJ        | CH          |
| 2W-8-031924           | SW8260D           | Acetone                    | 2.87 µg/L     | J         | DL          |
| 2W-8-031924           | SW8260D           | Acrolein                   | 5.0 µg/L      | UJ        | LC          |
| 2W-8-031924           | SW8260D           | Carbon Disulfide           | 0.08 µg/L     | J         | DL          |
| 2W-8-031924           | SW8260D           | Hexachlorobutadiene        | 2.0 µg/L      | UJ        | CH          |
| 2W-8-031924           | SW8270D           | 2,4-Dinitrophenol          | 20 µg/L       | UJ        | LC          |
| 2W-8-031924           | SW8270D           | 3,3'-Dichlorobenzidine     | 5.0 µg/L      | UJ        | LL          |
| 2W-8-031924           | SW8270D           | 4,6-Dinitro-2-Methylphenol | 10 µg/L       | UJ        | CH          |
| 2W-8-031924           | SW8270D           | 4-Chloroaniline            | 5.0 µg/L      | R         | LL          |
| 2W-8-031924           | SW8270D           | bis(2-Ethylhexyl)phthalate | 0.60 µg/L     | J         | DL          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| 2W-8-031924           | SW8270D           | N-Nitroso-Di-N-Propylamine     | 1.0 µg/L      | UJ        | LL          |
| 2W-8-031924           | SW8270D           | N-Nitrosodiphenylamine         | 1.0 µg/L      | UJ        | LL          |
| 2W-8-031924_SO        | SW8260D           | 2-Butanone                     | 7.23 µg/kg    | J         | DL          |
| 2W-8-031924_SO        | SW8260D           | Carbon Disulfide               | 0.96 µg/kg    | J         | DL          |
| 2W-8-031924_SO        | SW8270D           | 2,4,6-Trichlorophenol          | 99.5 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 2,4-Dichlorophenol             | 99.5 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 2,4-Dimethylphenol             | 99.5 µg/kg    | UJ        | LL          |
| 2W-8-031924_SO        | SW8270D           | 2,4-Dinitrophenol              | 199 µg/kg     | UJ        | LC          |
| 2W-8-031924_SO        | SW8270D           | 2,4-Dinitrotoluene             | 99.5 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 2-Nitrophenol                  | 19.9 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 3,3'-Dichlorobenzidine         | 99.5 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 3-Nitroaniline                 | 99.5 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 4,6-Dinitro-2-Methylphenol     | 199 µg/kg     | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | 4-Nitroaniline                 | 99.5 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | Benzoic Acid                   | 199 µg/kg     | UJ        | LL          |
| 2W-8-031924_SO        | SW8270D           | Carbazole                      | 19.9 µg/kg    | UJ        | CH          |
| 2W-8-031924_SO        | SW8270D           | N-Nitroso-Di-N-Propylamine     | 19.9 µg/kg    | UJ        | CH          |
| DUP01-031924          | NWTPH-DX          | Diesel/#2 Fuel                 | 0.333 mg/L    | J+        | TH6, HL     |
| DUP01-031924          | NWTPH-DX          | Motor Oil                      | 0.821 mg/L    | J         | TH6         |
| DUP01-031924          | SW8260D           | 1,1,1,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,1,1-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,1,2,2-Tetrachloroethane      | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,1,2-Trichloroethane          | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,1-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,1-Dichloroethene             | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,1-Dichloropropene            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2,3-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| DUP01-031924          | SW8260D           | 1,2,3-Trichloropropane         | 0.50 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2,4-Trichlorobenzene         | 0.50 µg/L     | UJ        | TH6, CH     |
| DUP01-031924          | SW8260D           | 1,2,4-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2-Dibromo-3-chloropropane    | 0.50 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2-Dibromoethane              | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2-Dichloroethane             | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,3,5-Trimethylbenzene         | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,3-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,3-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 1,4-Dichlorobenzene            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 112Trichloro122Trifluoroethane | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 2,2-Dichloropropane            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 2-Butanone                     | 5.00 µg/L     | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| DUP01-031924          | SW8260D           | 2-Chloroethylvinylether     | 1.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 2-Chlorotoluene             | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 2-Hexanone                  | 5.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 2-Pentanone                 | 5.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 4-Chlorotoluene             | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 4-Isopropyltoluene          | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | 4-Methyl-2-Pentanone (MIBK) | 5.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Acetone                     | 2.92 µg/L     | J         | TH6, DL     |
| DUP01-031924          | SW8260D           | Acrolein                    | 5.00 µg/L     | UJ        | TH6, LC     |
| DUP01-031924          | SW8260D           | Acrylonitrile               | 1.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Benzene                     | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Bromobenzene                | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Bromochloromethane          | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Bromodichloromethane        | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Bromoform                   | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Bromomethane                | 1.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Carbon Disulfide            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Carbon Tetrachloride        | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Chlorobenzene               | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Chloroethane                | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Chloroform                  | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Chloromethane               | 0.50 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | cis-1,2-Dichloroethene      | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | cis-1,3-Dichloropropene     | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Dibromochloromethane        | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Dibromomethane              | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Dichlorodifluoromethane     | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Ethylbenzene                | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Hexachlorobutadiene         | 2.00 µg/L     | UJ        | TH6, CH     |
| DUP01-031924          | SW8260D           | Iodomethane                 | 1.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Isopropylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | m+p-Xylene                  | 0.40 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Methyl t-butyl ether        | 0.50 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Methylene Chloride          | 1.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Naphthalene                 | 0.50 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | n-Butylbenzene              | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | n-Propylbenzene             | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | o-Xylene                    | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | sec-Butylbenzene            | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Styrene                     | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | tert-Butylbenzene           | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Tetrachloroethene           | 0.20 µg/L     | UJ        | TH6         |



**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| DUP01-031924          | SW8260D           | Toluene                      | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Total Xylenes                | 0.60 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | trans-1,2-Dichloroethene     | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | trans-1,3-Dichloropropene    | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | trans-1,4-Dichloro-2-butene  | 1.00 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Trichloroethene              | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Trichlorofluoromethane       | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Vinyl Acetate                | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8260D           | Vinyl Chloride               | 0.20 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 1,2,4-Trichlorobenzene       | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 1,2-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 1,3-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 1,4-Dichlorobenzene          | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 1-Methylnaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,4,5-Trichlorophenol        | 15.0 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,4,6-Trichlorophenol        | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,4-Dichlorophenol           | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,4-Dimethylphenol           | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,4-Dinitrophenol            | 60.0 µg/L     | UJ        | TH6, LC     |
| DUP01-031924          | SW8270D           | 2,4-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2,6-Dinitrotoluene           | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2-Chloronaphthalene          | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2-Chlorophenol               | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2-Methylnaphthalene          | 1.0 µg/L      | J         | TH6, DL     |
| DUP01-031924          | SW8270D           | 2-Methylphenol               | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 2-Nitrophenol                | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 3,3'-Dichlorobenzidine       | 15.0 µg/L     | UJ        | TH6, LL     |
| DUP01-031924          | SW8270D           | 3-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 4,6-Dinitro-2-Methylphenol   | 30.0 µg/L     | UJ        | TH6, CH     |
| DUP01-031924          | SW8270D           | 4-Bromophenyl-phenylether    | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 4-Chloro-3-methylphenol      | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 4-Chloroaniline              | 15.0 µg/L     | R         | LL          |
| DUP01-031924          | SW8270D           | 4-Chlorophenyl-phenylether   | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 4-Methylphenol               | 6.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 4-Nitroaniline               | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | 4-Nitrophenol                | 30.0 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Acenaphthene                 | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Acenaphthylene               | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Anthracene                   | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Benzo(a)anthracene           | 3.0 µg/L      | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| DUP01-031924          | SW8270D           | Benzo(a)pyrene              | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Benzo(g,h,i)perylene        | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Benzoic Acid                | 60.0 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Benzyl Alcohol              | 6.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | bis(2-Chloroethoxy) Methane | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Bis-(2-Chloroethyl) Ether   | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | bis(2-Ethylhexyl)phthalate  | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Butylbenzylphthalate        | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Carbazole                   | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Chrysene                    | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Dibenz(a,h)anthracene       | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Dibenzofuran                | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Diethylphthalate            | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Dimethylphthalate           | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Di-n-Butylphthalate         | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Di-n-Octyl phthalate        | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Fluoranthene                | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Fluorene                    | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Hexachlorobenzene           | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Hexachlorobutadiene         | 9.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Hexachlorocyclopentadiene   | 15.0 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Hexachloroethane            | 6.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Indeno(1,2,3-cd)pyrene      | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Isophorone                  | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Naphthalene                 | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Nitrobenzene                | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | N-Nitroso-Di-N-Propylamine  | 3.0 µg/L      | UJ        | TH6, LL     |
| DUP01-031924          | SW8270D           | N-Nitrosodiphenylamine      | 3.0 µg/L      | UJ        | TH6, LL     |
| DUP01-031924          | SW8270D           | Pentachlorophenol           | 30.0 µg/L     | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Phenanthrene                | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Phenol                      | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Pyrene                      | 3.0 µg/L      | UJ        | TH6         |
| DUP01-031924          | SW8270D           | Total Benzofluoranthenes    | 6.0 µg/L      | UJ        | TH6         |
| DUP01-031924_SO       | NWTPH-DX          | Diesel/#2 Fuel              | 22600 mg/kg   | J         | TH6         |
| DUP01-031924_SO       | NWTPH-DX          | Motor Oil                   | 26100 mg/kg   | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1,1,2-Tetrachloroethane   | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1,1-Trichloroethane       | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1,2,2-Tetrachloroethane   | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1,2-Trichloroethane       | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1-Dichloroethane          | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1-Dichloroethene          | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,1-Dichloropropene         | 2.05 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                        | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|--------------------------------|---------------|-----------|-------------|
| DUP01-031924_SO       | SW8260D           | 1,2,3-Trichlorobenzene         | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2,3-Trichloropropane         | 4.10 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2,4-Trichlorobenzene         | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2,4-Trimethylbenzene         | 85.5 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2-Dibromo-3-chloropropane    | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2-Dibromoethane              | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2-Dichlorobenzene            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2-Dichloroethane             | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,2-Dichloropropane            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,3,5-Trimethylbenzene         | 25.9 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,3-Dichlorobenzene            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,3-Dichloropropane            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 1,4-Dichlorobenzene            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 112Trichloro122Trifluoroethane | 4.10 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 2,2-Dichloropropane            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 2-Butanone                     | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 2-Chloroethylvinylether        | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 2-Chlorotoluene                | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 2-Hexanone                     | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 2-Pentanone                    | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 4-Chlorotoluene                | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | 4-Isopropyltoluene             | 13.1 µg/kg    | J         | TH6, FD     |
| DUP01-031924_SO       | SW8260D           | 4-Methyl-2-Pentanone (MIBK)    | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Acetone                        | 600 µg/kg     | J         | TH6, FD     |
| DUP01-031924_SO       | SW8260D           | Acrolein                       | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Acrylonitrile                  | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Benzene                        | 0.54 µg/kg    | J         | TH6, DL     |
| DUP01-031924_SO       | SW8260D           | Bromobenzene                   | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Bromochloromethane             | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Bromodichloromethane           | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Bromoform                      | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Bromomethane                   | 4.10 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Carbon Disulfide               | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Carbon Tetrachloride           | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Chlorobenzene                  | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Chloroethane                   | 4.10 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Chloroform                     | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Chloromethane                  | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | cis-1,2-Dichloroethene         | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | cis-1,3-Dichloropropene        | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Dibromochloromethane           | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Dibromomethane                 | 2.05 µg/kg    | UJ        | TH6         |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                      | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|------------------------------|---------------|-----------|-------------|
| DUP01-031924_SO       | SW8260D           | Dichlorodifluoromethane      | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Ethylbenzene                 | 8.88 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | Hexachlorobutadiene          | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Iodomethane                  | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Isopropylbenzene             | 4.11 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | m+p-Xylene                   | 31.5 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | Methyl t-butyl ether         | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Methylene Chloride           | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Naphthalene                  | 136 µg/kg     | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | n-Butylbenzene               | 7.28 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | n-Propylbenzene              | 7.17 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | o-Xylene                     | 22.9 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | sec-Butylbenzene             | 4.06 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | Styrene                      | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | tert-Butylbenzene            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Tetrachloroethene            | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Toluene                      | 9.35 µg/kg    | J         | TH6, FD     |
| DUP01-031924_SO       | SW8260D           | Total Xylenes                | 54.4 µg/kg    | J         | TH6         |
| DUP01-031924_SO       | SW8260D           | trans-1,2-Dichloroethene     | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | trans-1,3-Dichloropropene    | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | trans-1,4-Dichloro-2-butene  | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Trichloroethene              | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Trichlorofluoromethane       | 4.10 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Vinyl Acetate                | 10.3 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8260D           | Vinyl Chloride               | 2.05 µg/kg    | UJ        | TH6         |
| DUP01-031924_SO       | SW8270D           | 1,2,4-Trichlorobenzene       | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 1,2-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 1,3-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 1,4-Dichlorobenzene          | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 1-Methylnaphthalene          | 5500 µg/kg    | J         | TH6, FD     |
| DUP01-031924_SO       | SW8270D           | 2,2'-Oxybis(1-Chloropropane) | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 2,4,5-Trichlorophenol        | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 2,4,6-Trichlorophenol        | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 2,4-Dichlorophenol           | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 2,4-Dimethylphenol           | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 2,4-Dinitrophenol            | 199 µg/kg     | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 2,4-Dinitrotoluene           | 99.7 µg/kg    | UJ        | TH6, LS, CH |
| DUP01-031924_SO       | SW8270D           | 2,6-Dinitrotoluene           | 99.7 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 2-Chloronaphthalene          | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 2-Chlorophenol               | 19.9 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 2-Methylnaphthalene          | 8,050 µg/kg   | J         | TH6, FD     |
| DUP01-031924_SO       | SW8270D           | 2-Methylphenol               | 19.9 µg/kg    | R         | LS          |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                     | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|-----------------------------|---------------|-----------|-------------|
| DUP01-031924_SO       | SW8270D           | 2-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 2-Nitrophenol               | 19.9 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 3,3'-Dichlorobenzidine      | 99.7 µg/kg    | UJ        | TH6, LS, CH |
| DUP01-031924_SO       | SW8270D           | 3-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6, LS, CH |
| DUP01-031924_SO       | SW8270D           | 4,6-Dinitro-2-Methylphenol  | 199 µg/kg     | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 4-Bromophenyl-phenylether   | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 4-Chloro-3-methylphenol     | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 4-Chloroaniline             | 99.7 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 4-Chlorophenyl-phenylether  | 49.8 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | 4-Methylphenol              | 19.9 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | 4-Nitroaniline              | 99.7 µg/kg    | UJ        | TH6, LS, CH |
| DUP01-031924_SO       | SW8270D           | 4-Nitrophenol               | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | Acenaphthene                | 1080 µg/kg    | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Acenaphthylene              | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Anthracene                  | 1030 µg/kg    | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Benzo(a)anthracene          | 1220 µg/kg    | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Benzo(a)pyrene              | 591 µg/kg     | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Benzo(g,h,i)perylene        | 204 µg/kg     | J         | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Benzoic Acid                | 199 µg/kg     | R         | LS          |
| DUP01-031924_SO       | SW8270D           | Benzyl Alcohol              | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | bis(2-Chloroethoxy) Methane | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Bis-(2-Chloroethyl) Ether   | 49.8 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | bis(2-Ethylhexyl)phthalate  | 49.8 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Butylbenzylphthalate        | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Carbazole                   | 239 µg/kg     | J         | TH6, LS, CH |
| DUP01-031924_SO       | SW8270D           | Chrysene                    | 1580 µg/kg    | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Dibenz(a,h)anthracene       | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Dibenzofuran                | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Diethylphthalate            | 49.8 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Dimethylphthalate           | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Di-n-Butylphthalate         | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Di-n-Octyl phthalate        | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Fluoranthene                | 797 µg/kg     | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Fluorene                    | 1010 µg/kg    | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Hexachlorobenzene           | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Hexachlorobutadiene         | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Hexachlorocyclopentadiene   | 99.7 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Hexachloroethane            | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Indeno(1,2,3-cd)pyrene      | 72.9 µg/kg    | J         | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Isophorone                  | 91.7 µg/kg    | J         | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Naphthalene                 | 630 µg/kg     | J         | TH6, LS, FD |
| DUP01-031924_SO       | SW8270D           | Nitrobenzene                | 19.9 µg/kg    | UJ        | TH6, LS     |

**Table 3**  
**Qualifiers Added During Validation**  
**Boeing Renton Apron R**

| Sample Identification | Analytical Method | Analyte                    | Concentration | Qualifier | Reason Code |
|-----------------------|-------------------|----------------------------|---------------|-----------|-------------|
| DUP01-031924_SO       | SW8270D           | N-Nitroso-Di-N-Propylamine | 19.9 µg/kg    | UJ        | TH6, LS, CH |
| DUP01-031924_SO       | SW8270D           | N-Nitrosodiphenylamine     | 19.9 µg/kg    | UJ        | TH6, LS     |
| DUP01-031924_SO       | SW8270D           | Pentachlorophenol          | 99.7 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | Phenanthrene               | 3890 µg/kg    | J         | TH6, FD     |
| DUP01-031924_SO       | SW8270D           | Phenol                     | 19.9 µg/kg    | R         | LS          |
| DUP01-031924_SO       | SW8270D           | Pyrene                     | 3570 µg/kg    | J         | TH6, FD     |
| DUP01-031924_SO       | SW8270D           | Total Benzofluoranthenes   | 39.9 µg/kg    | UJ        | TH6, LS     |

**Notes:**

µg/kg = micrograms per kilogram

µg/L = micrograms per liter

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

TPH-D = total petroleum hydrocarbons (diesel range)

TPH-MO = total petroleum hydrocarbons (motor oil range)

**Qualifiers:**

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The reported value was an estimated value with a positive bias.

J- = The reported value was an estimated value with a negative bias.

R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

**Reason Codes:**

CH = High continuing calibration verification (CCV) recovery.

DL = Detected concentration is less than the reporting limit.

FD = Imprecision between primary and field duplicate results.

HL = High laboratory control sample (LCS) recovery. Result may be biased high.

LC = Low CCV recovery.

LL = Low LCS recovery. Result may be biased low.

LS = Low surrogate recovery.

MB = The analyte was detected in the sample and its associated laboratory blank and the concentration detected in the sample is less than five times the concentration detected in the blank.

TH6 = Elevated receipt temperature.

UC = Upper calibration level exceeded.

# APPENDIX

## **E** LABORATORY REPORTS



Appendix E  
Boeing Renton Apron R Investigation  
Full Analytical Results  
Soil Samples

| Analysis Method | Analyte                             | 1NE at 4 ft<br>3/19/2024 | 1NE at 8 ft<br>3/19/2024 | 1NW at 4 ft<br>3/19/2024 | 1NW at 8 ft<br>3/19/2024 | 1SE at 4 ft<br>3/18/2024 | 1SE at 8 ft<br>3/18/2024 | 1SW at 4 ft<br>3/19/2024 | 1SW at 8 ft<br>3/19/2024 | 2E at 4 ft<br>3/19/2024 | 2E at 8 ft<br>3/19/2024 | 2NE at 4 ft<br>3/19/2024 | 2NE at 8 ft<br>3/19/2024 | 2NW at 4 ft<br>3/19/2024 | 2NW at 8 ft<br>3/19/2024 | 2SE at 4 ft<br>3/18/2024 | 2SE at 8 ft<br>3/18/2024 | 2SW at 4 ft<br>3/18/2024 | 2SW at 8 ft<br>3/19/2024 | 2W at 4 ft<br>3/19/2024 | 2W at 8 ft<br>3/19/2024 | DUPO1 (1NW at 4 ft)<br>3/19/2024 |             |
|-----------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|----------------------------------|-------------|
| NWTPH-DX        | Diesel Range Organics (C12-C24)     | 11.3                     | < 7.43 U                 | 24.900                   | 24.2                     | 819 J                    | 10.0 J                   | 12.5 J                   | < 8.78 U                 | 20.6                    | 25.9                    | 92.3 J                   | < 6.43 U                 | 6.660                    | < 7.86 U                 | 27.5 J                   | 13.1 J                   | < 5.97 UJ                | 10.3 J                   | 17.1                    | 7.01                    | 22.600 J                         |             |
| NWTPH-DX        | Motor Oil Range Organics (C24-C38)  | 29.0                     | 120                      | 23.200                   | 492                      | 79.1                     | 92.4                     | 45.8 J                   | < 76.3 U                 | 107                     | 55.7                    | 29.2 J                   | 47.4 J                   | 9.310                    | 16.3 J                   | 21.3 J                   | 61.4 J                   | < 10.15 UJ               | 15.6                     | 17.6                    | 30.3                    | 26.100 J                         |             |
| SW8260D         | 1,1,1,2-Tetrachloroethane           | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00183 UJ             | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,1,1-Trichloroethane               | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00183 UJ             | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,1,2,2-Tetrachloroethane           | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00118 UJ            | < 0.00116 UJ            | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ             | < 0.00150 UJ            | < 0.00205 UJ            |                                  |             |
| SW8260D         | 1,1,2-Trichloroethane               | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00118 UJ            | < 0.00116 UJ            | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ             | < 0.00150 UJ            | < 0.00205 UJ            |                                  |             |
| SW8260D         | 1,1-Dichloroethane                  | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00118 UJ            | < 0.00116 UJ            | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ             | < 0.00150 UJ            | < 0.00205 UJ            |                                  |             |
| SW8260D         | 1,1-Dichloropropene                 | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00118 UJ            | < 0.00116 UJ            | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ             | < 0.00150 UJ            | < 0.00205 UJ            |                                  |             |
| SW8260D         | 1,2,3-Trichlorobenzene              | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 U              | < 0.00748 U              | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 U             | < 0.00752 U             | < 0.0103 UJ                      |             |
| SW8260D         | 1,2,3-Trichloropropane              | < 0.00216 U              | < 0.00354 U              | < 0.00364 U              | < 0.00469 U              | < 0.00253 UJ             | < 0.00354 UJ             | < 0.00225 UJ             | < 0.00332 UJ             | < 0.00245 UJ            | < 0.00235 UJ            | < 0.00231 UJ             | < 0.00286 UJ             | < 0.00250 UJ             | < 0.00299 UJ             | < 0.00435 UJ             | < 0.00367 UJ             | < 0.00261 UJ             | < 0.00231 UJ             | < 0.00240 UJ            | < 0.00301 UJ            | < 0.00410 UJ                     |             |
| SW8260D         | 1,2,4-Trichlorobenzene              | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 U              | < 0.00748 U              | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 U             | < 0.00752 U             | < 0.0103 UJ                      |             |
| SW8260D         | 1,2,4-Trimethylbenzene              | < 0.00108 U              | < 0.00182 U              | 0.0754                   | < 0.00235 U              | 0.06063 J                | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | 0.0124                   | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | 0.085 J                          |             |
| SW8260D         | 1,2-Dibromo-3-chloropropane         | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 U              | < 0.00748 U              | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 U             | < 0.00752 U             | < 0.0103 UJ                      |             |
| SW8260D         | 1,2-Dibromobenzene                  | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,2-Dichloroethane                  | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,2-Dichloropropane                 | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,2-Dichlorobenzene                 | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,3,5-Trimethylbenzene              | < 0.00108 U              | < 0.00182 U              | 0.0210                   | < 0.00235 U              | 0.005055 J               | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | 0.00550                  | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | 0.0259 J                         |             |
| SW8260D         | 1,3-Dichlorobenzene                 | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,3-Dichloropropane                 | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 1,4-Dichlorobenzene                 | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 112-Trichloro-1,2,2-Trifluoroethane | < 0.00216 U              | < 0.00364 U              | < 0.00334 U              | < 0.00469 U              | < 0.00253 UJ             | < 0.00354 UJ             | < 0.00225 UJ             | < 0.00332 UJ             | < 0.00245 UJ            | < 0.00235 UJ            | < 0.00231 UJ             | < 0.00286 UJ             | < 0.00250 UJ             | < 0.00299 UJ             | < 0.00435 UJ             | < 0.00367 UJ             | < 0.00261 UJ             | < 0.00231 UJ             | < 0.00240 UJ            | < 0.00301 UJ            | < 0.00410 UJ                     |             |
| SW8260D         | 2,2-Dichloropropane                 | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 U              | < 0.00748 U              | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 U             | < 0.00752 U             | < 0.0103 UJ                      |             |
| SW8260D         | 2-Butanone                          | < 0.00539 U              | 0.135                    | < 0.00969 J              | < 0.00884 U              | 0.00969 J                | < 0.00563 UJ             | 0.00704 J                | < 0.00469 UJ             | 0.00457 J               | < 0.00365 UJ            | 0.00365 J                | 0.00503 J                | 0.00798 J                | < 0.00448 UJ             | 0.00544 J                | 0.00646 J                | 0.00544 J                | 0.00307 J                | 0.00523 J               | 0.00723 J               | < 0.0103 UJ                      |             |
| SW8260D         | 2-Chloroethylethylether             | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 UJ             | < 0.00748 UJ             | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 UJ            | < 0.00752 UJ            | < 0.0103 UJ                      |             |
| SW8260D         | 2-Chlorotoluene                     | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 2-Hexanone                          | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 UJ             | < 0.00748 UJ             | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 UJ            | < 0.00752 UJ            | < 0.0103 UJ                      |             |
| SW8260D         | 2-Pentanone                         | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 UJ             | < 0.00748 UJ             | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 UJ            | < 0.00752 UJ            | < 0.0103 UJ                      |             |
| SW8260D         | 4-Chlorotoluene                     | < 0.00108 U              | < 0.00182 U              | < 0.00167 U              | < 0.00235 U              | < 0.00126 UJ             | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | < 0.00125 UJ             | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | < 0.00205 UJ                     |             |
| SW8260D         | 4-Isopropyltoluene                  | < 0.00108 U              | < 0.00182 U              | 0.00837 J                | < 0.00235 U              | 0.0105 J                 | < 0.00177 UJ             | < 0.00113 UJ             | < 0.00183 UJ             | < 0.00116 UJ            | < 0.00118 UJ            | < 0.00116 UJ             | < 0.00143 UJ             | 0.00440                  | < 0.00150 UJ             | < 0.00218 UJ             | < 0.00183 UJ             | < 0.00130 UJ             | < 0.00115 UJ             | < 0.00120 UJ            | < 0.00150 UJ            | 0.0131 J                         |             |
| SW8260D         | 4-Methyl-2-Pentanone (MIBK)         | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 UJ             | < 0.00748 UJ             | < 0.0109 UJ              | < 0.00917 UJ             | < 0.00652 UJ             | < 0.00576 UJ             | < 0.00600 UJ            | < 0.00752 UJ            | < 0.0103 UJ                      |             |
| SW8260D         | Acetone                             | 0.158                    | < 0.00911 U              | 0.158                    | < 0.00911 U              | 0.158                    | < 0.00911 U              | 0.158                    | < 0.00911 U              | 0.158                   | < 0.00911 U             | 0.158                    | < 0.00911 U              | 0.158                    | < 0.00911 U              | 0.158                    | < 0.00911 U              | 0.158                    | < 0.00911 U              | 0.158                   | < 0.00911 U             | < 0.00911 U                      | < 0.00911 U |
| SW8260D         | Acrolein                            | < 0.00539 U              | < 0.00911 U              | < 0.00834 U              | < 0.0117 U               | < 0.00632 UJ             | < 0.00884 UJ             | < 0.00563 UJ             | < 0.00913 UJ             | < 0.00804 U             | < 0.00588 U             | < 0.00578 UJ             | < 0.00716 U              | < 0.00624 UJ             | < 0.0                    |                          |                          |                          |                          |                         |                         |                                  |             |



Appendix E  
Boeing Renton Apron R Investigation  
Full Analytical Results  
Soil Samples

| Analytical Method | Analyte                    | 1NE at 4 ft | 1NE at 8 ft | 1NW at 4 ft | 1NW at 8 ft | 1SE at 4 ft | 1SE at 8 ft | 1SW at 4 ft | 1SW at 8 ft | 2E at 4 ft  | 2E at 8 ft  | 2NE at 4 ft | 2NE at 8 ft | 2NW at 4 ft | 2NW at 8 ft | 2SE at 4 ft | 2SE at 8 ft | 2SW at 4 ft | 2SW at 8 ft | 2W at 4 ft  | 2W at 8 ft  | DUP01 (1NW at 4 ft) |
|-------------------|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|
|                   |                            | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/19/2024   | 3/18/2024   | 3/18/2024   | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/19/2024   | 3/19/2024   |                     |
| SW8270E           | Dibenz(a,h)anthracene      | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 U  | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Dibenzofuran               | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | 0.0161 J    | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Diethylphthalate           | < 0.0499 U  | < 0.0500 U  | < 1.25 U    | < 0.0498 U  | < 0.249 UJ  | < 0.0498 UJ | < 0.0499 UJ | < 0.0500 UJ | < 0.0497 U  | < 0.0499 U  | < 0.249 UJ  | < 0.0499 U  | < 0.0497 U  | < 0.0500 U  | < 0.0498 UJ | < 0.0499 UJ | < 0.0497 UJ | < 0.0499 UJ | < 0.0498 U  | < 0.0497 U  | < 0.0498 UJ         |
| SW8270E           | Dimethylphthalate          | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Di-n-Butylphthalate        | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | 0.00660 J   | < 0.0200 U  | 0.0363 J    | < 0.0200 U  | < 0.0199 U  | < 0.0200 U  | 0.0235 J    | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Di-n-Octyl phthalate       | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Fluoranthene               | 0.0190 J    | < 0.0200 U  | 2.55 J      | < 0.0199 U  | 0.587 J     | < 0.0199 UJ | 0.134 J     | 0.00760 J   | 0.0106 J    | 0.0136 J    | 0.0515 J    | 0.0176 J    | 0.233       | 0.0109 J    | 0.0416 J    | < 0.0199 UJ | < 0.0199 UJ | 0.0268 J    | 0.0167 J    | < 0.0199 U  | 0.797 J             |
| SW8270E           | Fluorene                   | < 0.0200 U  | < 0.0200 U  | 5.09 J      | < 0.0199 U  | 0.543 J     | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | 0.330       | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | 1.01 J              |
| SW8270E           | Hexachlorobenzene          | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Hexachlorobutadiene        | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Hexachlorocyclopentadiene  | < 0.0999 U  | < 0.0999 U  | < 2.5 U     | < 0.0997 U  | < 0.499 UJ  | < 0.0996 UJ | < 0.0997 UJ | < 0.1 UJ    | < 0.0995 U  | < 0.0998 U  | < 0.498 UJ  | < 0.0999 U  | < 0.0994 U  | < 0.1 U     | < 0.0996 UJ | < 0.0997 UJ | < 0.0995 UJ | < 0.0997 UJ | < 0.0995 U  | < 0.0997 UJ | < 0.0995 UJ         |
| SW8270E           | Hexachloroethane           | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Indeno(1,2,3-cd)pyrene     | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Isophorone                 | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | 0.0917 J            |
| SW8270E           | Naphthalene                | < 0.0200 U  | 0.00940 J   | 2.65 J      | 0.00530 J   | 0.0605 J    | < 0.0199 UJ | 0.00520 J   | < 0.0200 UJ | 0.00650 J   | 0.00970 J   | < 0.0996 UJ | < 0.0200 U  | 0.142       | < 0.0200 U  | 0.0246 J    | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | 0.630 J             |
| SW8270E           | Nitrobenzene               | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | N-Nitroso-Di-N-Propylamine | < 0.0200 UJ | < 0.0200 UJ | < 0.499 U   | < 0.0199 UJ | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ         |
| SW8270E           | N-Nitrosodiphenylamine     | < 0.0200 U  | < 0.0200 U  | < 0.499 U   | < 0.0199 U  | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 U  | < 0.0200 U  | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 UJ         |
| SW8270E           | Pentachlorophenol          | < 0.0999 U  | < 0.0999 U  | < 2.5 U     | < 0.0997 UJ | < 0.499 UJ  | < 0.0996 UJ | < 0.0997 UJ | < 0.1 UJ    | < 0.0995 U  | < 0.0998 U  | < 0.498 UJ  | < 0.0999 U  | < 0.0994 U  | < 0.1 U     | < 0.0996 UJ | < 0.0997 UJ | < 0.0995 UJ | < 0.0997 UJ | < 0.0995 U  | < 0.0997 UJ | < 0.0995 UJ         |
| SW8270E           | Phenanthrene               | < 0.0200 U  | < 0.0200 U  | 14.0 J      | 0.0131 J    | 1.80 J      | < 0.0199 UJ | 0.0608 J    | 0.0150 J    | < 0.0199 UJ | 0.0323      | < 0.0996 UJ | 0.0394      | 0.853       | 0.0127 J    | 0.0719 J    | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | 3.89 J              |
| SW8270E           | Phenol                     | < 0.0200 U  | < 0.0200 U  | < 0.499 UJ  | 0.0468      | < 0.0997 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0199 UJ | < 0.0200 UJ | < 0.0996 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0200 U  | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 UJ | < 0.0199 U  | < 0.0199 U  | < 0.0199 R          |
| SW8270E           | Pyrene                     | 0.0256      | < 0.0200 U  | 10.7 J      | 0.00880 J   | 1.33 J      | < 0.0199 UJ | 0.0863 J    | 0.0137 J    | 0.0128 J    | 0.0160 J    | 0.0638 J    | 0.0194 J    | 0.856       | 0.0116 J    | 0.0450 J    | < 0.0199 UJ | 0.00570 J   | 0.0420 J    | < 0.0199 U  | < 0.0199 U  | 3.57 J              |
| SW8270E           | Total Benzofluoranthenes   | < 0.0399 U  | < 0.0400 U  | 2.00        | < 0.0399 U  | 0.583 J     | < 0.0398 UJ | < 0.0399 UJ | < 0.0400 UJ | < 0.0398 U  | < 0.0399 U  | < 0.199 UJ  | < 0.0399 U  | < 0.0398 U  | < 0.0400 U  | 0.0576 J    | < 0.0399 UJ | < 0.0398 UJ | < 0.0399 UJ | < 0.0399 U  | < 0.0398 U  | < 0.0399 UJ         |

**Notes**  
All results reported in mg/kg

**Abbreviations**  
-- = not listed  
mg/kg = milligrams per kilogram  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample  
J+ = The reported value was an estimated value with a positive bias  
J- = The reported value was an estimated value with a negative bias  
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.  
U = The analyte was not detected above the reported sample quantitation limit.  
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Appendix E  
Boeing Renton Apron R Investigation  
Full Analytical Results  
Water Samples

| Analytical Method | Analyte                            | 1NE at 4 ft | 1NE at 8 ft | 1NW at 4 ft | 1NW at 8 ft | 1SE at 4 ft | 1SE at 8 ft | 1SW at 4 ft | 1SW at 8 ft | 2E at 8 ft | 2NW at 8 ft | 2SE at 8 ft | 2SW at 4 ft | 2SW at 8 ft | 2W at 4 ft | 2W at 8 ft | DUP01 (1NW at 4 ft) |
|-------------------|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|------------|------------|---------------------|
|                   |                                    | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024  | 3/19/2024   | 3/19/2024   | 3/18/2024   | 3/19/2024   | 3/19/2024  | 3/19/2024  | 3/19/2024           |
| NWTPH-DX          | Diesel Range Organics (C12-C24)    | 239 J+      | 436 J+      | 311 J+      | 2,860 J+    | 171 J+      | 940 J+      | 319 J+      | 216 J+      | 171 J+     | 463 J+      | 111 J+      | 281 J+      | 119 J+      | 147 J+     | 124 J+     | 333 J+              |
| NWTPH-DX          | Motor Oil Range Organics (C24-C38) | < 200 U     | < 200 U     | 730         | 3,240       | < 200 UJ    | 845 J       | 362 J       | < 200 UJ    | 295        | 571         | < 200 UJ    | 610 J       | < 200 UJ    | 375        | < 200 UJ   | 821 J               |
| SW8260D           | 1,1,1,2-Tetrachloroethane          | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,1,1-Trichloroethane              | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,1,2,2-Tetrachloroethane          | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,1,2-Trichloroethane              | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,1-Dichloroethane                 | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,1-Dichloroethene                 | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,1-Dichloropropene                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 U   | < 0.20 U   | < 0.20 UJ           |
| SW8260D           | 1,2,3-Trichlorobenzene             | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ  | < 0.50 UJ           |
| SW8260D           | 1,2,3-Trichloropropane             | < 0.50 U    | < 0.50 U    | < 0.50 U    | < 0.50 U    | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ  | < 0.50 UJ           |
| SW8260D           | 1,2,4-Trichlorobenzene             | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ  | < 0.50 UJ           |
| SW8260D           | 1,2,4-Trimethylbenzene             | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,2-Dibromo-3-chloropropane        | < 0.50 U    | < 0.50 U    | < 0.50 U    | < 0.50 U    | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ  | < 0.50 UJ           |
| SW8260D           | 1,2-Dibromomethane                 | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,2-Dichlorobenzene                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,2-Dichloroethane                 | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,2-Dichloropropane                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,3,5-Trimethylbenzene             | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,3-Dichlorobenzene                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,3-Dichloropropane                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 1,4-Dichlorobenzene                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 112Trichloro122Trifluoroethane     | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 2,2-Dichloropropane                | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 2-Butanone                         | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 U   | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 U   | < 5.00 U   | < 5.00 UJ           |
| SW8260D           | 2-Chloroethylvinylether            | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 UJ   | < 1.00 UJ   | < 1.00 UJ   | < 1.00 UJ   | < 1.00 U   | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U   | < 1.00 U   | < 1.00 UJ           |
| SW8260D           | 2-Chlorotoluene                    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 2-Hexanone                         | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 U   | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 UJ   | < 5.00 U   | < 5.00 U   | < 5.00 UJ           |
| SW8260D           | 2-Pentanone                        | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 U   | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 U   | < 5.00 U   | < 5.00 UJ           |
| SW8260D           | 4-Chlorotoluene                    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 4-Isopropyltoluene                 | < 0.20 U    | < 0.20 U    | < 0.20 U    | 0.0800 J    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | 0.330       | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | 4-Methyl-2-Pentanone (MIBK)        | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 U   | < 5.00 U    | < 5.00 U    | < 5.00 UJ   | < 5.00 UJ   | < 5.00 U   | < 5.00 U   | < 5.00 UJ           |
| SW8260D           | Acetone                            | 6.69        | < 5.00 U    | < 5.00 U    | 2.11 J      | < 5.00 UJ   | 3.19 J      | 2.67 J      | 3.19 J      | 3.32 J     | 3.55 J      | < 5.00 UJ   | 6.96 J      | 4.03 J      | 5.87       | 2.92 J     | 2.92 J              |
| SW8260D           | Acrolein                           | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ  | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ   | < 5.00 UJ  | < 5.00 UJ  | < 5.00 UJ           |
| SW8260D           | Acrylonitrile                      | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 UJ   | < 1.00 UJ   | < 1.00 UJ   | < 1.00 UJ   | < 1.00 U   | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U   | < 1.00 U   | < 1.00 UJ           |
| SW8260D           | Benzene                            | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | 0.0600 J    | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Bromobenzene                       | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Bromochloromethane                 | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Bromodichloromethane               | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Bromoform                          | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Bromomethane                       | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 U    | < 1.00 UJ   | < 1.00 UJ   | < 1.00 UJ   | < 1.00 UJ   | < 1.00 U   | < 1.00 U    | < 1.00 U    | < 1.00 UJ   | < 1.00 UJ   | < 1.00 U   | < 1.00 U   | < 1.00 UJ           |
| SW8260D           | Carbon Disulfide                   | 0.120 J     | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | 0.150 J     | 0.0800 J    | < 0.20 UJ   | 0.170 J    | < 0.20 UJ   | 0.150 J     | < 0.20 UJ   | 0.160 J     | < 0.20 UJ  | 0.0800 J   | < 0.20 UJ           |
| SW8260D           | Carbon Tetrachloride               | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Chlorobenzene                      | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Chloroethane                       | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Chloroform                         | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Chloromethane                      | < 0.50 U    | < 0.50 U    | < 0.50 U    | < 0.50 U    | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ   | < 0.50 UJ  | < 0.50 UJ  | < 0.50 UJ           |
| SW8260D           | cis-1,2-Dichloroethene             | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | cis-1,3-Dichloropropene            | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 U    | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ   | < 0.20 UJ  | < 0.20 UJ  | < 0.20 UJ           |
| SW8260D           | Dibromochloromethane               | < 0.20 U    | < 0.2       |             |             |             |             |             |             |            |             |             |             |             |            |            |                     |

Appendix E  
Boeing Renton Apron R Investigation  
Full Analytical Results  
Water Samples

| Analytical Method | Analyte                     | 1NE at 4 ft | 1NE at 8 ft | 1NW at 4 ft | 1NW at 8 ft | 1SE at 4 ft | 1SE at 8 ft | 1SW at 4 ft | 1SW at 8 ft | 2E at 8 ft | 2NW at 8 ft | 2SE at 8 ft | 2SW at 4 ft | 2SW at 8 ft | 2W at 4 ft | 2W at 8 ft | DUP01 (1NW at 4 ft) |
|-------------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|------------|------------|---------------------|
|                   |                             | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/19/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024  | 3/19/2024   | 3/18/2024   | 3/18/2024   | 3/18/2024   | 3/19/2024  | 3/19/2024  | 3/19/2024           |
| SW8270E           | 2-Nitrophenol               | < 9.0 U     | < 3.0 U     | < 9.0 U     | < 9.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U    | < 9.0 UJ            |
| SW8270E           | 3,3'-Dichlorobenzidine      | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ   | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ   | < 15.0 UJ  | < 5.0 UJ    | < 5.0 UJ    | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ  | < 5.0 UJ   | < 15.0 UJ           |
| SW8270E           | 3-Nitroaniline              | < 9.0 U     | < 3.0 U     | < 9.0 U     | < 9.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U    | < 9.0 UJ            |
| SW8270E           | 4,6-Dinitro-2-Methylphenol  | < 30.0 UJ   | < 10.0 UJ   | < 30.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 UJ  | < 10.0 UJ   | < 10.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 UJ  | < 10.0 UJ  | < 30.0 UJ           |
| SW8270E           | 4-Bromophenyl-phenylether   | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | 4-Chloro-3-methylphenol     | < 9.0 U     | < 3.0 U     | < 9.0 U     | < 9.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U    | < 9.0 UJ            |
| SW8270E           | 4-Chloroaniline             | < 15.0 R    | < 5.0 R     | < 15.0 R    | < 15.0 R    | < 5.0 R     | < 15.0 R    | < 15.0 R    | < 5.0 R     | < 15.0 R   | < 5.0 R     | < 5.0 R     | < 15.0 R    | < 5.0 R     | < 15.0 R   | < 5.0 R    | < 15.0 R            |
| SW8270E           | 4-Chlorophenyl-phenylether  | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | 4-Methylphenol              | < 6.0 U     | < 2.0 U     | < 6.0 U     | < 6.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U    | < 6.0 UJ            |
| SW8270E           | 4-Nitroaniline              | < 9.0 U     | < 3.0 U     | < 9.0 U     | < 9.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U    | < 9.0 UJ            |
| SW8270E           | 4-Nitrophenol               | < 30.0 U    | < 10.0 U    | < 30.0 U    | < 30.0 U    | < 10.0 UJ   | < 30.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 U   | < 10.0 U    | < 10.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 U   | < 10.0 U   | < 30.0 UJ           |
| SW8270E           | Acenaphthene                | < 3.0 U     | 0.300 J     | < 3.0 U     | 0.700 J     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Acenaphthylene              | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Anthracene                  | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Benzo(a)anthracene          | 0.700 J     | < 1.0 U     | < 3.0 U     | 0.800 J     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Benzo(a)pyrene              | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Benzo(g,h,i)perylene        | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Benzoic Acid                | < 60.0 U    | < 20.0 U    | < 60.0 U    | < 60.0 U    | < 20.0 UJ   | < 60.0 UJ   | < 60.0 UJ   | < 20.0 UJ   | < 60.0 U   | < 20.0 U    | 2.80 J      | < 60.0 UJ   | < 20.0 UJ   | < 60.0 U   | < 20.0 U   | < 60.0 UJ           |
| SW8270E           | Benzyl Alcohol              | < 6.0 U     | < 2.0 U     | < 6.0 U     | < 6.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U    | < 6.0 UJ            |
| SW8270E           | bis(2-Chloroethoxy) Methane | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Bis-(2-Chloroethyl) Ether   | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | bis(2-Ethylhexyl)phthalate  | < 9.0 U     | < 3.0 U     | < 9.0 U     | < 9.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | 3.00 J     | 0.500 J     | < 3.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | 1.30 J     | 0.600 J    | < 9.0 UJ            |
| SW8270E           | Butylbenzylphthalate        | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Carbazole                   | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Chrysene                    | 0.800 J     | < 1.0 U     | < 3.0 U     | 1.10 J      | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Dibenzo(a,h)anthracene      | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Dibenzofuran                | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Diethylphthalate            | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Dimethylphthalate           | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Di-n-Butylphthalate         | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Di-n-Octyl phthalate        | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Fluoranthene                | 1.70 J      | 0.800 J     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Fluorene                    | < 3.0 U     | < 1.0 U     | < 3.0 U     | 0.700 J     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Hexachlorobenzene           | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Hexachlorobutadiene         | < 9.0 U     | < 3.0 U     | < 9.0 U     | < 9.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U     | < 3.0 UJ    | < 9.0 UJ    | < 3.0 UJ    | < 9.0 U    | < 3.0 U    | < 9.0 UJ            |
| SW8270E           | Hexachlorocyclopentadiene   | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ   | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ   | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ  | < 5.0 UJ    | < 5.0 UJ    | < 15.0 UJ   | < 5.0 UJ    | < 15.0 UJ  | < 5.0 UJ   | < 15.0 UJ           |
| SW8270E           | Hexachloroethane            | < 6.0 U     | < 2.0 U     | < 6.0 U     | < 6.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U    | < 6.0 UJ            |
| SW8270E           | Indeno(1,2,3-cd)pyrene      | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Isophorone                  | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Naphthalene                 | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | 1.00        | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Nitrobenzene                | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | N-Nitroso-Di-N-Propylamine  | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ   | < 1.0 UJ    | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ   | < 1.0 UJ   | < 3.0 UJ            |
| SW8270E           | N-Nitrosodiphenylamine      | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ   | < 1.0 UJ    | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 UJ   | < 1.0 UJ   | < 3.0 UJ            |
| SW8270E           | Pentachlorophenol           | < 30.0 U    | < 10.0 U    | < 30.0 U    | < 30.0 U    | < 10.0 UJ   | < 30.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 U   | < 10.0 U    | < 10.0 UJ   | < 30.0 UJ   | < 10.0 UJ   | < 30.0 U   | < 10.0 U   | < 30.0 UJ           |
| SW8270E           | Phenanthrene                | < 3.0 U     | < 1.0 U     | 0.800 J     | 1.80 J      | < 1.0 UJ    | 0.800 J     | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Phenol                      | < 3.0 U     | < 1.0 U     | < 3.0 U     | < 3.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Pyrene                      | 1.60 J      | 0.700 J     | < 3.0 U     | 1.50 J      | < 1.0 UJ    | < 3.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U     | < 1.0 UJ    | < 3.0 UJ    | < 1.0 UJ    | < 3.0 U    | < 1.0 U    | < 3.0 UJ            |
| SW8270E           | Total Benzofluoranthenes    | < 6.0 U     | < 2.0 U     | < 6.0 U     | < 6.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U     | < 2.0 UJ    | < 6.0 UJ    | < 2.0 UJ    | < 6.0 U    | < 2.0 U    | < 6.0 UJ            |

**Notes**  
All results reported in ug/L

**Abbreviations**  
-- = not listed  
mg/kg = milligrams per kilogram  
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample  
J+ = The reported value was an estimated value with a positive bias  
J- = The reported value was an estimated value with a negative bias  
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.  
U = The analyte was not detected above the reported sample quantitation limit.  
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

# APPENDIX

**F**

COMPLETE  
DATA TABLES



**Analytical Resources, LLC**  
Analytical Chemists and Consultants  
Tukwila, WA

09 May 2024

Tom McKeon  
CALIBRE

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RE: Boeing Renton (Boeing Renton)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)  
24C0437

Associated SDG ID(s)  
N/A

-----

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Kelly Bottem, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



# Chain of Custody Record & Laboratory Analysis Request

|                                        |                                                       |                                            |
|----------------------------------------|-------------------------------------------------------|--------------------------------------------|
| ARI Assigned Number:<br><b>24C0437</b> | Turn-around Requested:<br><b>Standard</b>             | Page: <b>1</b> of <b>4</b>                 |
| ARI Client Company:<br><b>CALIBRE</b>  | Phone:<br><b>425-241-8449</b>                         | Date: <b>3/18/24</b> Ice Present? <b>Y</b> |
| Client Contact:<br><b>Tom McKean</b>   | No. of Coolers: <b>3</b> Cooler Temps: <b>See CRF</b> |                                            |



Analytical Resources, LLC  
Analytical Chemists and Consultants  
4611 South 134th Place, Suite 100  
Tukwila, WA 98168  
206-695-6200 206-695-6201 (fax)

| Client Project Name:<br><b>Boring Renton</b> |         |                                     |        |                | Analysis Requested |                |               |  |  |  |  |  | Notes/Comments |  |
|----------------------------------------------|---------|-------------------------------------|--------|----------------|--------------------|----------------|---------------|--|--|--|--|--|----------------|--|
| Client Project #:                            |         | Samplers:<br><b>Russen T Nestle</b> |        |                | TPH-D              | SUOCs<br>8270E | VOCs<br>8260D |  |  |  |  |  |                |  |
| Sample ID                                    | Date    | Time                                | Matrix | No. Containers |                    |                |               |  |  |  |  |  |                |  |
| 2SE-4-031824                                 | 3/18/24 | 1000                                | Soil   | 4              | X                  | X              | X             |  |  |  |  |  |                |  |
| 2SE-8-031824                                 |         | 1030                                | Soil   | 4              | X                  | X              | X             |  |  |  |  |  |                |  |
| 2SE-8-031824                                 |         | 1030                                | GW     | 7              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SE-4-031824                                 |         | 1100                                | Soil   | 4              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SE-4-031824                                 |         | 1100                                | GW     | 7              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SE-8-031824                                 |         | 1130                                | Soil   | 4              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SE-8-031824                                 |         | 1130                                | GW     | 7              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SW-4-031824                                 |         | 1200                                | Soil   | 4              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SW-4-031824                                 |         | 1200                                | GW     | 7              | X                  | X              | X             |  |  |  |  |  |                |  |
| 1SW-8-031824                                 |         | 1315                                | Soil   | 4              | X                  | X              | X             |  |  |  |  |  |                |  |

|                               |                                                    |                                                |                                 |                             |
|-------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------|-----------------------------|
| Comments/Special Instructions | Relinquished by:<br>(Signature) <i>[Signature]</i> | Received by:<br>(Signature) <i>[Signature]</i> | Relinquished by:<br>(Signature) | Received by:<br>(Signature) |
|                               | Printed Name:<br><b>Justin Nestle</b>              | Printed Name:<br><b>Matthew Darny</b>          | Printed Name:                   | Printed Name:               |
|                               | Company:<br><b>CALIBRE</b>                         | Company:<br><b>AR LLC</b>                      | Company:                        | Company:                    |
|                               | Date & Time:<br><b>3/19/24 1616</b>                | Date & Time:<br><b>03/19/24 1616</b>           | Date & Time:                    | Date & Time:                |

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



# Chain of Custody Record & Laboratory Analysis Request

|                                           |  |                                        |  |                            |               |
|-------------------------------------------|--|----------------------------------------|--|----------------------------|---------------|
| ARI Assigned Number: <b>24C0437</b>       |  | Turn-around Requested: <b>Standard</b> |  | Page: <b>2</b> of <b>4</b> |               |
| ARI Client Company: <b>CALIBRE</b>        |  | Phone: <b>425-241-8444</b>             |  | Date: <b>3/18/24</b>       | Ice Present?  |
| Client Contact: <b>Tom McKee</b>          |  |                                        |  | No. of Coolers:            | Cooler Temps: |
| Client Project Name: <b>Boring Benton</b> |  |                                        |  | Analysis Requested         |               |
| Client Project #:                         |  | Samplers: <b>2 Lassen JVeste</b>       |  | Notes/Comments             |               |

| Sample ID    | Date    | Time | Matrix | No. Containers | TPH-D | SVOCs<br>8270E | VOCs<br>8260D |  |  |  |  |  |  |                                 |
|--------------|---------|------|--------|----------------|-------|----------------|---------------|--|--|--|--|--|--|---------------------------------|
| 1SW-8-031824 | 3/18/24 | 1315 | GW     | 7              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2SW-4-031824 | ↓       | 1400 | Soil   | 4              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2SW-4-031824 |         | 1400 | GW     | 5              | X     | X              | X             |  |  |  |  |  |  | limited water for TPH-D & SVOCs |
| 2SW-8-031824 |         | 1600 | Soil   | 4              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2SW-8-031824 |         | 1600 | GW     | 7              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2NE-4-031924 | 3/19/24 | 0800 | Soil   | 4              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2NE-8-031924 | ↓       | 0845 | Soil   | 4              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2E-4-031924  |         | 0930 | Soil   | 4              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2E-8-031924  |         | 0950 | Soil   | 4              | X     | X              | X             |  |  |  |  |  |  |                                 |
| 2E-8-031924  |         | 0950 | water  | 7              | X     | X              | X             |  |  |  |  |  |  |                                 |

|                               |                                                 |                                             |                              |                          |
|-------------------------------|-------------------------------------------------|---------------------------------------------|------------------------------|--------------------------|
| Comments/Special Instructions | Relinquished by: (Signature) <i>[Signature]</i> | Received by: (Signature) <i>[Signature]</i> | Relinquished by: (Signature) | Received by: (Signature) |
|                               | Printed Name: <b>Justin Naste</b>               | Printed Name: <b>Matthew Darns</b>          | Printed Name:                | Printed Name:            |
|                               | Company: <b>CALIBRE</b>                         | Company: <b>ARLLC</b>                       | Company:                     | Company:                 |
|                               | Date & Time: <b>3/19/24 1616</b>                | Date & Time: <b>03/19/24 1616</b>           | Date & Time:                 | Date & Time:             |



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# Chain of Custody Record & Laboratory Analysis Request

|                                        |                                           |                                   |
|----------------------------------------|-------------------------------------------|-----------------------------------|
| ARI Assigned Number:<br><b>24C0437</b> | Turn-around Requested:<br><b>Standard</b> | Page: <b>3</b> of <b>4</b>        |
| ARI Client Company:<br><b>CALIBRE</b>  | Phone:<br><b>425-241-8449</b>             | Date: <b>3/19/24</b> Ice Present? |
| Client Contact:<br><b>Tom McKee</b>    | No. of Coolers: Cooler Temps:             |                                   |



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Tukwila, WA 98168  
206-695-6200 206-695-6201 (fax)

| Client Project Name:<br><b>Boeing Renton</b> |                |                                      |              |                | Analysis Requested                                 |             |                                                |       |                                 |  |                             |  | Notes/Comments       |  |
|----------------------------------------------|----------------|--------------------------------------|--------------|----------------|----------------------------------------------------|-------------|------------------------------------------------|-------|---------------------------------|--|-----------------------------|--|----------------------|--|
| Client Project #:                            |                | Samplers:<br><b>2 Klassen JNesre</b> |              |                | TPH-D                                              | 8270E SVOCs | VOCs                                           | 8240D |                                 |  |                             |  |                      |  |
| Sample ID                                    | Date           | Time                                 | Matrix       | No. Containers |                                                    |             |                                                |       |                                 |  |                             |  |                      |  |
| <b>1NW-4-031924</b>                          | <b>3/19/24</b> | <b>1100</b>                          | <b>Soil</b>  | <b>4</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>1NE-4-031924</b>                          |                | <b>1030</b>                          | <b>Soil</b>  | <b>4</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>1NE-4-031924</b>                          |                | <b>1030</b>                          | <b>GW</b>    | <b>5</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  | <b>Limited water</b> |  |
| <b>1NW-4-031924</b>                          |                | <b>1100</b>                          | <b>GW</b>    | <b>7</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>1NE-8-031924</b>                          |                | <b>1130</b>                          | <b>Soil</b>  | <b>4</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>1NE-8-031924</b>                          |                | <b>1130</b>                          | <b>Water</b> | <b>7</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>DuP01-031924</b>                          |                | <b>0800</b>                          | <b>GW</b>    | <b>7</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>DuP01-031924</b>                          |                | <b>0800</b>                          | <b>Soil</b>  | <b>4</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>2W-4-031924</b>                           |                | <b>1300</b>                          | <b>Soil</b>  | <b>4</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  |                      |  |
| <b>2W-4-031924</b>                           |                | <b>1300</b>                          | <b>GW</b>    | <b>5</b>       | <b>X</b>                                           | <b>X</b>    | <b>X</b>                                       |       |                                 |  |                             |  | <b>Limited water</b> |  |
| Comments/Special Instructions                |                |                                      |              |                | Relinquished by:<br>(Signature) <b>[Signature]</b> |             | Received by:<br>(Signature) <b>[Signature]</b> |       | Relinquished by:<br>(Signature) |  | Received by:<br>(Signature) |  |                      |  |
|                                              |                |                                      |              |                | Printed Name:<br><b>Justin Nesre</b>               |             | Printed Name:<br><b>Matthew Nesre</b>          |       | Printed Name:                   |  | Printed Name:               |  |                      |  |
|                                              |                |                                      |              |                | Company:<br><b>CALIBRE</b>                         |             | Company:<br><b>ARL</b>                         |       | Company:                        |  | Company:                    |  |                      |  |
|                                              |                |                                      |              |                | Date & Time:<br><b>3/19/24 1616</b>                |             | Date & Time:<br><b>03/19/24 1616</b>           |       | Date & Time:                    |  | Date & Time:                |  |                      |  |

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# Chain of Custody Record & Laboratory Analysis Request

|                                              |                                    |                                           |  |                            |                         |                |
|----------------------------------------------|------------------------------------|-------------------------------------------|--|----------------------------|-------------------------|----------------|
| ARI Assigned Number:<br><b>24C0437</b>       |                                    | Turn-around Requested:<br><b>Standard</b> |  | Page: <b>4</b> of <b>4</b> |                         |                |
| ARI Client Company:<br><b>CALIBRE</b>        |                                    | Phone:<br><b>425-241-8449</b>             |  | Date:<br><b>3/19/24</b>    | Ice Present?<br><b></b> |                |
| Client Contact:<br><b>Tom McKee</b>          |                                    | No. of Coolers:<br><b></b>                |  | Cooler Temps:<br><b></b>   |                         |                |
| Client Project Name:<br><b>Boeing Renton</b> |                                    | Analysis Requested                        |  |                            |                         | Notes/Comments |
| Client Project #:                            | Samplers:<br><b>JNesth Rlassen</b> |                                           |  |                            |                         |                |

| Sample ID    | Date    | Time | Matrix | No. Containers | TPH-D | SUOCs | 8270E | VOCs | 8260D |  |  |  |  |  |
|--------------|---------|------|--------|----------------|-------|-------|-------|------|-------|--|--|--|--|--|
| 1NW-8-031924 | 3/19/24 | 1230 | Soil   | 4              | X     | X     |       | X    |       |  |  |  |  |  |
| 1NW-8-031924 |         | 1230 | Grw    | 7              | X     | X     |       | X    |       |  |  |  |  |  |
| 2W-8-031924  |         | 1400 | Soil   | 4              | X     | X     |       | X    |       |  |  |  |  |  |
| 2W-8-031924  |         | 1400 | Grw    | 7              | X     | X     |       | X    |       |  |  |  |  |  |
| 2NW-4-031924 |         | 1430 | Soil   | 4              | X     | X     |       | X    |       |  |  |  |  |  |
| 2NW-8-031924 |         | 1530 | Soil   | 4              | X     | X     |       | X    |       |  |  |  |  |  |
| 2NW8-031924  |         | 1530 | Grw    | 7              | X     | X     |       | X    |       |  |  |  |  |  |
| Trip Blank   |         |      |        |                |       |       |       |      |       |  |  |  |  |  |
|              |         |      |        |                |       |       |       |      |       |  |  |  |  |  |
|              |         |      |        |                |       |       |       |      |       |  |  |  |  |  |
|              |         |      |        |                |       |       |       |      |       |  |  |  |  |  |

|                               |                                                    |                                                |                                 |                             |
|-------------------------------|----------------------------------------------------|------------------------------------------------|---------------------------------|-----------------------------|
| Comments/Special Instructions | Relinquished by:<br>(Signature) <i>[Signature]</i> | Received by:<br>(Signature) <i>[Signature]</i> | Relinquished by:<br>(Signature) | Received by:<br>(Signature) |
|                               | Printed Name:<br><b>Justin Nesth</b>               | Printed Name:<br><b>Matthew Deane</b>          | Printed Name:                   | Printed Name:               |
|                               | Company:<br><b>CALIBRE</b>                         | Company:<br><b>AMU</b>                         | Company:                        | Company:                    |
|                               | Date & Time:<br><b>3/19/24 1616</b>                | Date & Time:<br><b>03/19/24 1616</b>           | Date & Time:                    | Date & Time:                |



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CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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ANALYTICAL REPORT FOR SAMPLES

| Sample ID    | Laboratory ID | Matrix | Date Sampled      | Date Received     |
|--------------|---------------|--------|-------------------|-------------------|
| 2SE-4-031824 | 24C0437-01    | Solid  | 18-Mar-2024 10:00 | 19-Mar-2024 16:16 |
| 2SE-8-031824 | 24C0437-02    | Solid  | 18-Mar-2024 10:30 | 19-Mar-2024 16:16 |
| 2SE-8-031824 | 24C0437-03    | Water  | 18-Mar-2024 10:30 | 19-Mar-2024 16:16 |
| 1SE-4-031824 | 24C0437-04    | Solid  | 18-Mar-2024 11:00 | 19-Mar-2024 16:16 |
| 1SE-4-031824 | 24C0437-05    | Water  | 18-Mar-2024 11:00 | 19-Mar-2024 16:16 |
| 1SE-8-031824 | 24C0437-06    | Solid  | 18-Mar-2024 11:30 | 19-Mar-2024 16:16 |
| 1SE-8-031824 | 24C0437-07    | Water  | 18-Mar-2024 11:30 | 19-Mar-2024 16:16 |
| 1SW-4-031824 | 24C0437-08    | Solid  | 18-Mar-2024 12:00 | 19-Mar-2024 16:16 |
| 1SW-4-031824 | 24C0437-09    | Water  | 18-Mar-2024 12:00 | 19-Mar-2024 16:16 |
| 1SW-8-031824 | 24C0437-10    | Solid  | 18-Mar-2024 13:15 | 19-Mar-2024 16:16 |
| 1SW-8-031824 | 24C0437-11    | Water  | 18-Mar-2024 13:15 | 19-Mar-2024 16:16 |
| 2SW-4-031824 | 24C0437-12    | Solid  | 18-Mar-2024 14:00 | 19-Mar-2024 16:16 |
| 2SW-4-031824 | 24C0437-13    | Water  | 18-Mar-2024 14:00 | 19-Mar-2024 16:16 |
| 2SW-8-031824 | 24C0437-14    | Solid  | 18-Mar-2024 16:00 | 19-Mar-2024 16:16 |
| 2SW-8-031824 | 24C0437-15    | Water  | 18-Mar-2024 16:00 | 19-Mar-2024 16:16 |
| 2NE-4-031924 | 24C0437-16    | Solid  | 19-Mar-2024 08:00 | 19-Mar-2024 16:16 |
| 2NE-8-031924 | 24C0437-17    | Solid  | 19-Mar-2024 08:45 | 19-Mar-2024 16:16 |
| 2E-4-031924  | 24C0437-18    | Solid  | 19-Mar-2024 09:30 | 19-Mar-2024 16:16 |
| 2E-8-031924  | 24C0437-19    | Solid  | 19-Mar-2024 09:50 | 19-Mar-2024 16:16 |
| 2E-8-031924  | 24C0437-20    | Water  | 19-Mar-2024 09:50 | 19-Mar-2024 16:16 |
| 1NW-4-031924 | 24C0437-21    | Solid  | 19-Mar-2024 11:00 | 19-Mar-2024 16:16 |
| 1NE-4-031924 | 24C0437-22    | Solid  | 19-Mar-2024 10:30 | 19-Mar-2024 16:16 |
| 1NE-4-031924 | 24C0437-23    | Water  | 19-Mar-2024 10:30 | 19-Mar-2024 16:16 |
| 1NW-4-031924 | 24C0437-24    | Water  | 19-Mar-2024 11:00 | 19-Mar-2024 16:16 |
| 1NE-8-031924 | 24C0437-25    | Solid  | 19-Mar-2024 11:30 | 19-Mar-2024 16:16 |
| 1NE-8-031924 | 24C0437-26    | Water  | 19-Mar-2024 11:30 | 19-Mar-2024 16:16 |
| DUP01-031924 | 24C0437-27    | Water  | 19-Mar-2024 08:00 | 19-Mar-2024 16:16 |
| DUP01-031924 | 24C0437-28    | Solid  | 19-Mar-2024 08:00 | 19-Mar-2024 16:16 |
| 2W-4-031924  | 24C0437-29    | Water  | 19-Mar-2024 13:00 | 19-Mar-2024 16:16 |
| 1NW-8-031924 | 24C0437-30    | Solid  | 19-Mar-2024 12:30 | 19-Mar-2024 16:16 |
| 1NW-8-031924 | 24C0437-31    | Water  | 19-Mar-2024 12:30 | 19-Mar-2024 16:16 |
| 2W-8-031924  | 24C0437-32    | Solid  | 19-Mar-2024 14:00 | 19-Mar-2024 16:16 |
| 2W-8-031924  | 24C0437-33    | Water  | 19-Mar-2024 14:00 | 19-Mar-2024 16:16 |
| 2NW-4-031924 | 24C0437-34    | Solid  | 19-Mar-2024 14:30 | 19-Mar-2024 16:16 |
| 2NW-8-031924 | 24C0437-35    | Solid  | 19-Mar-2024 15:30 | 19-Mar-2024 16:16 |
| 2NW-8-031924 | 24C0437-36    | Water  | 19-Mar-2024 15:30 | 19-Mar-2024 16:16 |
| TRIP BLANK   | 24C0437-37    | Water  | 18-Mar-2024 10:00 | 19-Mar-2024 16:16 |
| 2W-4-031924  | 24C0437-38    | Solid  | 19-Mar-2024 13:00 | 19-Mar-2024 16:16 |



CALIBRE

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Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

## Work Order Case Narrative

### Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control low in the CCALs and trichlorofluoromethane, naphthalene, hexachloro-1,3-Butadiene, 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene are out of control high. All associated samples that contain analyte have been flagged with a "Q" qualifier.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits with the exception of analytes flagged on the associated forms.

### Semivolatiles - EPA Method SW8270E

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control high in the CCALs and 2,4-Dinitrophenol, 4-Chloroaniline, benzoic acid, pentachlorophenol and hexachlorocyclopentadiene are out of control low. Samples that contain analyte have been flagged with a "Q" qualifier for the solids analysis.

Initial and continuing calibrations were within method requirements with the exception of all associated "Q" flagged analytes which are out of control high in the CCALs for the water analysis. Samples that contain analyte have been flagged with a "Q" qualifier for the solids analysis.

Internal standard areas were within limits with the exception of perylene-D12 which is outside the control limits in the original analysis of sample 24C0437-21 and perylene-D12, Chrysene-D12 and Di-n-Octylphthalate in samples 24C0437-28 and 24C0437-34. Samples were re-analyzed at dilutions.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms. The samples 24C0437-28 and 34 were re-analyzed at dilutions due to "E" qualified values and surrogate recoveries.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits with the exception of analytes flagged on the associated forms.



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx**

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits with the exception of surrogates flagged on the associated forms.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits with the exception of analytes flagged on the associated forms.





# Cooler Receipt Form

ARI Client: Calibre  
COC No(s): \_\_\_\_\_ NA  
Assigned ARI Job No: 24C0437

Project Name: Boeing Renton  
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_  
Tracking No: \_\_\_\_\_ NA

## Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO  
Were custody papers included with the cooler? YES YES NO  
Were custody papers properly filled out (ink, signed, etc.) YES YES NO  
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 9.6°C 11.8°C 11.3°C 8.1°C  
Time 1616  
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 5009708

Cooler Accepted by: MD Date: 03/19/24 Time: 1616

**Complete custody forms and attach all shipping documents**

## Log-In Phase:

Was a temperature blank included in the cooler? YES NO  
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_  
Was sufficient ice used (if appropriate)? NA YES NO  
How were bottles sealed in plastic bags? Individually Grouped Not  
Did all bottles arrive in good condition (unbroken)? YES NO  
Were all bottle labels complete and legible? YES NO  
Did the number of containers listed on COC match with the number of containers received? YES NO  
Did all bottle labels and tags agree with custody papers? YES NO  
Were all bottles used correct for the requested analyses? YES NO  
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO  
Were all VOC vials free of air bubbles? NA YES NO  
Was sufficient amount of sample sent in each bottle? YES NO  
Date VOC Trip Blank was made at ARI: NA 3/18  
Were the sample(s) split by ARI? NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: GD Date: 3/20/24 Time: 9:34 Labels checked by: MD

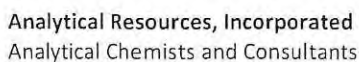
**\*\* Notify Project Manager of discrepancies or concerns \*\***

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
|                     |                  |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |

### Additional Notes, Discrepancies, & Resolutions:

C.O.C. lists 3 coolers, 4 coolers received  
\* 3 samples were labeled (VIA) 25w-4...; Doz CG jar [soil] was unlabeled [process of] elim.  
Sample container for "15E-4-031824" was sampled @ 10am, but listed @ 11am on COC. GD 3/20/24

By: MD Date: 03/19/24



# Cooler Temperature Compliance Form

Completed by: MD Date: 03/19/24 Time: 1619  
00070F Cooler Temperature Compliance Form Version 000  
3/3/09



CALIBRE

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Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**2SE-4-031824**  
**24C0437-01 (Solid)**

**Volatile Organic Compounds**

Method: EPA 8260D

Sampled: 03/18/2024 10:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 16:28

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-01 B

Preparation Batch: BMC0620

Sample Size: 4.11 g (wet)

Dry Weight: 2.30 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 55.92

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.82            | 2.18            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.73            | 2.18            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.61            | 4.35            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.71            | 4.35            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 2.12            | 4.35            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 3.81            | 10.9            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.84            | 4.35            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 13.8            | 21.8            | 129    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.81            | 2.18            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.97            | 2.18            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 9.49            | 10.9            | 12.4   | ug/kg |       |
| Acrylonitrile                         | 107-13-1   | 1        | 9.41            | 10.9            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.72            | 2.18            | 2.68   | ug/kg |       |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 1.14            | 2.18            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 7.08            | 10.9            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.62            | 2.18            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 5.31            | 10.9            | 7.98   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.67            | 2.18            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.56            | 2.18            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.63            | 2.18            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.86            | 2.18            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.30            | 2.18            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.61            | 2.18            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.68            | 2.18            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.51            | 2.18            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.36            | 2.18            | 0.86   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.55            | 2.18            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.72            | 2.18            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.56            | 2.18            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.77            | 2.18            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 6.56            | 10.9            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.97            | 10.9            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-4-031824

24C0437-01 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 16:28

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| cis-1,3-Dichloropropene     | 10061-01-5  | 1        | 0.57            | 2.18            | ND     | ug/kg | U     |
| Toluene                     | 108-88-3    | 1        | 0.54            | 2.18            | 1.07   | ug/kg | J     |
| trans-1,3-Dichloropropene   | 10061-02-6  | 1        | 0.89            | 2.18            | ND     | ug/kg | U     |
| 2-Hexanone                  | 591-78-6    | 1        | 2.77            | 10.9            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.58            | 2.18            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.51            | 2.18            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.43            | 2.18            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.58            | 2.18            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.67            | 2.18            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.45            | 2.18            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.49            | 2.18            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.77            | 2.18            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 1.07            | 4.35            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.52            | 2.18            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.52            | 4.35            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.54            | 2.18            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 1.01            | 2.18            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.60            | 2.18            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 3.26            | 4.35            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 5.99            | 10.9            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.51            | 2.18            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.54            | 2.18            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.57            | 2.18            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.47            | 2.18            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.64            | 2.18            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.55            | 2.18            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.55            | 2.18            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.58            | 2.18            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.52            | 2.18            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.63            | 2.18            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.53            | 2.18            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.94            | 2.18            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.61            | 2.18            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.42            | 2.18            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 5.13            | 10.9            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.96            | 10.9            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 9.08            | 10.9            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 5.36            | 10.9            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-4-031824

24C0437-01 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 16:28

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 1,2,3-Trichlorobenzene            | 87-61-6    | 1        | 5.05            | 10.9            | ND     | ug/kg | U     |
| Dichlorodifluoromethane           | 75-71-8    | 1        | 0.88            | 2.18            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether           | 1634-04-4  | 1        | 0.55            | 2.18            | ND     | ug/kg | U     |
| 2-Pentanone                       | 107-87-9   | 1        | 4.67            | 10.9            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 112    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 101    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 99.4   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 102    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-4-031824

24C0437-01 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 19:44

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-01 A 02

Preparation Batch: BMC0692

Sample Size: 17.96 g (wet)

Dry Weight: 10.04 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 55.92

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-01 A 02

Cleanup Batch: CMD0158

Initial Volume: 1 uL

Cleaned: 23-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.8            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | 17.0   | ug/kg | J     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.6            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.6            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | 24.6   | ug/kg |       |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | 95.5   | ug/kg | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.6            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.6            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | 15.4   | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.6            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.6            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.6            | 99.6            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.3            | 99.6            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SE-4-031824**

**24C0437-01 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 19:44

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.6            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | 5.9    | ug/kg | J     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.6            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.6            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.1            | 99.6            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.8            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.8            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.6            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.8            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 16.9            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.6            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | 71.9   | ug/kg |       |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | 11.0   | ug/kg | J     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | 23.5   | ug/kg |       |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 41.6   | ug/kg |       |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | 45.0   | ug/kg |       |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | 12.7   | ug/kg | J     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.6            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 31.7   | ug/kg |       |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.8            | 16.8   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.8            | 57.6   | ug/kg |       |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | 158    | ug/kg |       |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | 6.7    | ug/kg | J     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 55.7   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 56.0   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 59.9   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-4-031824

24C0437-01 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 19:44

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 54.6     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 61.3     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 69.1     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 77.8     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 77.9     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2SE-4-031824

24C0437-01 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 10:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 19:34

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-01 A 01

Preparation Batch: BMC0691

Sample Size: 10.06 g (wet)

Dry Weight: 5.63 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 55.92

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 8.89            | 27.5   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 17.8            | 213    | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 68.9   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-02 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 16:52

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-02 B

Preparation Batch: BMC0620

Sample Size: 4.91 g (wet)

Dry Weight: 2.73 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 55.53

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.70            | 1.83            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.62            | 1.83            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.20            | 3.67            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.28            | 3.67            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.79            | 3.67            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 3.21            | 9.17            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.56            | 3.67            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 11.6            | 18.3            | 152    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.68            | 1.83            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.66            | 1.83            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 8.00            | 9.17            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 7.93            | 9.17            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.61            | 1.83            | 0.64   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.96            | 1.83            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 5.97            | 9.17            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.52            | 1.83            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 4.48            | 9.17            | 6.46   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.56            | 1.83            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.53            | 1.83            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.72            | 1.83            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.10            | 1.83            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.52            | 1.83            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.57            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.43            | 1.83            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.30            | 1.83            | 0.52   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.61            | 1.83            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.65            | 1.83            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 5.53            | 9.17            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.50            | 9.17            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.48            | 1.83            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.45            | 1.83            | 0.57   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.75            | 1.83            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

2SE-8-031824

24C0437-02 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 16:52

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.33            | 9.17            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.49            | 1.83            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.43            | 1.83            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.36            | 1.83            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.49            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.56            | 1.83            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.38            | 1.83            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.42            | 1.83            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.65            | 1.83            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.91            | 3.67            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.44            | 1.83            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.28            | 3.67            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.85            | 1.83            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.50            | 1.83            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.75            | 3.67            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 5.05            | 9.17            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.43            | 1.83            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.48            | 1.83            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.40            | 1.83            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.54            | 1.83            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.46            | 1.83            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.46            | 1.83            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.49            | 1.83            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.44            | 1.83            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.53            | 1.83            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.79            | 1.83            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.51            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.20            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 4.33            | 9.17            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.33            | 9.17            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 7.65            | 9.17            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 4.52            | 9.17            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 4.26            | 9.17            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.74            | 1.83            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-02 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 16:52

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.94            | 9.17            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 104    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 99.6   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 109    | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-02 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:30

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 20:21

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-02 A 02

Preparation Batch: BMC0692

Sample Size: 18.06 g (wet)

Dry Weight: 10.03 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 55.53

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-02 A 02

Cleanup Batch: CMD0158

Initial Volume: 1 uL

Cleaned: 23-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.9            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | 126    | ug/kg | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.7            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.7            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.7            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.7            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SE-8-031824**

**24C0437-02 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:30

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 20:21

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.7            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.9            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 49.9            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.7            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.7            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | ND     | ug/kg | U     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.7            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.9            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 61.6   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 60.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 66.2   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-02 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:30

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 20:21

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 62.7     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 65.2     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 72.5     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 98.2     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 114      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-02 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 10:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 19:55

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-02 A 01

Preparation Batch: BMC0691

Sample Size: 10 g (wet)

Dry Weight: 5.55 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 55.53

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 9.00            | 13.1   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 18.0            | 87.4   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 72.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-03 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:30

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 18:38

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-03 E

Preparation Batch: BMC0618

Sample Size: 10 mL

Prepared: 03/22/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | ND     | ug/L  | U     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SE-8-031824**

**24C0437-03 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:30

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 18:38

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-03 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 10:30

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 18:38

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 107    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 96.7   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 103    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-03 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 12:38

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-03 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | 2.8    | ug/L  | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-03 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 12:38

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 55.3   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 39.7   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 78.5   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 71.8   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 85.3   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 85.0   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-03 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 10:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 12:38

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 95.7     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 90.6     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SE-8-031824

24C0437-03 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 10:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 13:00

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-03 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.111  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 84.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 17:17

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-04 B

Preparation Batch: BMC0620

Sample Size: 4.8 g (wet)

Dry Weight: 3.96 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 82.46

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.48            | 1.26            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.42            | 1.26            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.51            | 2.53            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.57            | 2.53            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.23            | 2.53            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.21            | 6.32            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.07            | 2.53            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 8.02            | 12.6            | 376    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.47            | 1.26            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.14            | 1.26            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.51            | 6.32            | 12.6   | ug/kg |       |
| Acrylonitrile                         | 107-13-1   | 1        | 5.46            | 6.32            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.42            | 1.26            | 2.50   | ug/kg |       |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.66            | 1.26            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 4.11            | 6.32            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.36            | 1.26            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.08            | 6.32            | 9.69   | ug/kg |       |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.39            | 1.26            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.32            | 1.26            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.36            | 1.26            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.50            | 1.26            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.76            | 1.26            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.36            | 1.26            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.39            | 1.26            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.30            | 1.26            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.21            | 1.26            | 0.63   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.32            | 1.26            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.42            | 1.26            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.32            | 1.26            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.45            | 1.26            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.81            | 6.32            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.72            | 6.32            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.33            | 1.26            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.31            | 1.26            | 1.22   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.52            | 1.26            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 17:17

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.61            | 6.32            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.34            | 1.26            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.30            | 1.26            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.25            | 1.26            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.34            | 1.26            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.39            | 1.26            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.26            | 1.26            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.29            | 1.26            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.45            | 1.26            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.62            | 2.53            | 0.65   | ug/kg | J     |
| o-Xylene                    | 95-47-6     | 1        | 0.30            | 1.26            | 4.38   | ug/kg |       |
| Xylenes, total              | 1330-20-7   | 1        | 0.88            | 2.53            | 5.03   | ug/kg |       |
| Styrene                     | 100-42-5    | 1        | 0.31            | 1.26            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.58            | 1.26            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.35            | 1.26            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.89            | 2.53            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.48            | 6.32            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.30            | 1.26            | 2.69   | ug/kg |       |
| Bromobenzene                | 108-86-1    | 1        | 0.31            | 1.26            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.33            | 1.26            | 1.36   | ug/kg |       |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.27            | 1.26            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.37            | 1.26            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.32            | 1.26            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.32            | 1.26            | 0.55   | ug/kg | J     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.33            | 1.26            | 6.03   | ug/kg |       |
| s-Butylbenzene              | 135-98-8    | 1        | 0.30            | 1.26            | 1.87   | ug/kg |       |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.37            | 1.26            | 10.5   | ug/kg |       |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.31            | 1.26            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.54            | 1.26            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.35            | 1.26            | 4.62   | ug/kg |       |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.82            | 1.26            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.98            | 6.32            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.30            | 6.32            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 5.27            | 6.32            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.11            | 6.32            | 47.4   | ug/kg |       |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.93            | 6.32            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.51            | 1.26            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.32            | 1.26            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 17:17

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.71            | 6.32            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 118    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 97.2   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 94.2   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

### Semivolatile Organic Compounds

|                              |                                          |                            |                            |                             |  |
|------------------------------|------------------------------------------|----------------------------|----------------------------|-----------------------------|--|
| Method: EPA 8270E            |                                          |                            | Sampled: 03/18/2024 11:00  |                             |  |
| Instrument: NT14 Analyst: FL |                                          |                            | Analyzed: 04/26/2024 18:10 |                             |  |
| Sample Preparation:          | Preparation Method: EPA 3546 (Microwave) |                            |                            | Extract ID: 24C0437-04 A 02 |  |
|                              | Preparation Batch: BMC0692               | Sample Size: 12.16 g (wet) |                            | Dry Weight: 10.03 g         |  |
|                              | Prepared: 03/29/2024                     | Final Volume: 1 mL         |                            | % Solids: 82.46             |  |
| Sample Cleanup:              | Cleanup Method: GPC                      |                            |                            | Extract ID: 24C0437-04 A 02 |  |
|                              | Cleanup Batch: CMD0158                   | Initial Volume: 1 uL       |                            |                             |  |
|                              | Cleaned: 23-Apr-2024                     | Final Volume: 1 uL         |                            |                             |  |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 5        | 21.9            | 99.7            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 5        | 96.2            | 249             | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 5        | 69.1            | 99.7            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 5        | 15.6            | 99.7            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 5        | 31.7            | 99.7            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 5        | 30.6            | 99.7            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 5        | 81.1            | 99.7            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 5        | 16.8            | 99.7            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 5        | 33.2            | 99.7            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 5        | 34.5            | 99.7            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 5        | 37.1            | 99.7            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 5        | 36.9            | 99.7            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 5        | 36.1            | 99.7            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 5        | 47.6            | 99.7            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 5        | 24.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 5        | 44.5            | 499             | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 5        | 21.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 5        | 76.4            | 499             | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 5        | 42.5            | 99.7            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 5        | 21.1            | 99.7            | 60.5   | ug/kg | J, D  |
| Benzoic acid                 | 65-85-0    | 5        | 195             | 997             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 5        | 131             | 499             | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 5        | 24.0            | 99.7            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 5        | 61.9            | 499             | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 5        | 22.5            | 99.7            | 1390   | ug/kg | D     |
| Hexachlorocyclopentadiene    | 77-47-4    | 5        | 122             | 499             | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 5        | 44.8            | 499             | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 5        | 128             | 499             | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 5        | 39.7            | 99.7            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 5        | 81.9            | 499             | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 5        | 31.1            | 99.7            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 5        | 21.9            | 99.7            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 18:10

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 5        | 102             | 499             | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 5        | 26.0            | 99.7            | 281    | ug/kg | D     |
| 3-Nitroaniline               | 99-09-2    | 5        | 111             | 499             | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 5        | 169             | 997             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 5        | 70.4            | 99.7            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 5        | 163             | 499             | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 5        | 80.8            | 499             | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 5        | 72.7            | 99.7            | 543    | ug/kg | D     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 5        | 95.5            | 249             | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 5        | 98.3            | 249             | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 5        | 147             | 499             | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 5        | 189             | 997             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 5        | 26.5            | 99.7            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 5        | 84.8            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 5        | 67.2            | 99.7            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 5        | 156             | 499             | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 5        | 43.5            | 99.7            | 1800   | ug/kg | D     |
| Anthracene                   | 120-12-7   | 5        | 35.9            | 99.7            | 569    | ug/kg | D     |
| Carbazole                    | 86-74-8    | 5        | 21.4            | 99.7            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 5        | 28.0            | 99.7            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 5        | 30.4            | 99.7            | 587    | ug/kg | D     |
| Pyrene                       | 129-00-0   | 5        | 28.3            | 99.7            | 1330   | ug/kg | Q, D  |
| Butylbenzylphthalate         | 85-68-7    | 5        | 46.9            | 99.7            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 5        | 29.7            | 99.7            | 596    | ug/kg | D     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 5        | 35.4            | 499             | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 5        | 30.2            | 99.7            | 851    | ug/kg | D     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 5        | 70.2            | 249             | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 5        | 21.9            | 99.7            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 5        | 105             | 199             | 583    | ug/kg | D     |
| Benzo(a)pyrene               | 50-32-8    | 5        | 21.1            | 99.7            | 458    | ug/kg | D     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 5        | 73.1            | 99.7            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 5        | 85.9            | 99.7            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 5        | 67.8            | 99.7            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 5        | 26.2            | 99.7            | 1110   | ug/kg | D     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 71.1   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 65.2   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 73.2   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 18:10

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 72.2     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 75.0     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 83.1     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 87.8     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 91.2     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-04 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 11:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 20:15

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-04 A 01

Preparation Batch: BMC0691

Sample Size: 10.05 g (wet)

Dry Weight: 8.29 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 82.46

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 5        | 30.2            | 819    | mg/kg | D     |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 5        | 60.3            | 924    | mg/kg | D     |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 73.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:00

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:00

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-05 E

Preparation Batch: BMC0618

Sample Size: 10 mL

Prepared: 03/22/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | ND     | ug/L  | U     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.08   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:00

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:00

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:00

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:00

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 113    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 97.8   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 97.3   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 13:12

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-05 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | 0.2    | ug/L  | J     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 13:12

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 58.7   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 41.7   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 83.6   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 77.0   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 91.7   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 91.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 13:12

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 102      | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 94.8     | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-4-031824

24C0437-05 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 11:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 13:20

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-05 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.171  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 109    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-06 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 17:41

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-06 B

Preparation Batch: BMC0620

Sample Size: 5.32 g (wet)

Dry Weight: 2.83 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 53.14

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.67            | 1.77            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.59            | 1.77            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.12            | 3.54            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.20            | 3.54            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.72            | 3.54            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 3.10            | 8.84            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.50            | 3.54            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 11.2            | 17.7            | 345    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.66            | 1.77            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.60            | 1.77            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 7.71            | 8.84            | 117    | ug/kg |       |
| Acrylonitrile                         | 107-13-1   | 1        | 7.65            | 8.84            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.59            | 1.77            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.93            | 1.77            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 5.75            | 8.84            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.50            | 1.77            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 4.32            | 8.84            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.54            | 1.77            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.45            | 1.77            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.51            | 1.77            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.70            | 1.77            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.06            | 1.77            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.50            | 1.77            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.55            | 1.77            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.41            | 1.77            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.29            | 1.77            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.45            | 1.77            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.59            | 1.77            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.45            | 1.77            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.63            | 1.77            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 5.33            | 8.84            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.41            | 8.84            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.46            | 1.77            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.44            | 1.77            | 0.46   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.73            | 1.77            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-06 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 17:41

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.25            | 8.84            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.47            | 1.77            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.41            | 1.77            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.35            | 1.77            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.47            | 1.77            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.54            | 1.77            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.37            | 1.77            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.40            | 1.77            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.63            | 1.77            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.87            | 3.54            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.42            | 1.77            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.23            | 3.54            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.44            | 1.77            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.82            | 1.77            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.48            | 1.77            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.65            | 3.54            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 4.87            | 8.84            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.42            | 1.77            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.44            | 1.77            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.46            | 1.77            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.38            | 1.77            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.52            | 1.77            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.44            | 1.77            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.45            | 1.77            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.47            | 1.77            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.43            | 1.77            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.51            | 1.77            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.43            | 1.77            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.76            | 1.77            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.50            | 1.77            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.15            | 1.77            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 4.17            | 8.84            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.22            | 8.84            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 7.38            | 8.84            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 4.36            | 8.84            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 4.11            | 8.84            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.71            | 1.77            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.45            | 1.77            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-06 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 17:41

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.80            | 8.84            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 111    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 104    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 102    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-06 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:30

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 20:58

|                     |                                          |                             |                             |
|---------------------|------------------------------------------|-----------------------------|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) | Sample Size: 18.89 g (wet)  | Extract ID: 24C0437-06 A 02 |
|                     | Preparation Batch: BMC0692               |                             |                             |
|                     | Prepared: 03/29/2024                     |                             |                             |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 1 uL        | Dry Weight: 10.04 g         |
|                     | Cleanup Batch: CMD0158                   |                             |                             |
|                     | Cleaned: 23-Apr-2024                     |                             |                             |
|                     |                                          | Final Volume: 1 mL          | % Solids: 53.14             |
|                     |                                          | Extract ID: 24C0437-06 A 02 |                             |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.8            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.6            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.6            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | 79.2   | ug/kg | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.6            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.6            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.6            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.6            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.6            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.6            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1SE-8-031824**

**24C0437-06 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:30

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 20:58

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.6            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.6            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.6            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.1            | 99.6            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.8            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.8            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.6            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.8            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 16.9            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.6            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | ND     | ug/kg | U     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.6            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.8            | 20.0   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.8            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 52.0   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 51.2   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 56.6   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-06 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:30

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 20:58

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 53.1     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 56.5     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 63.0     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 87.2     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 96.6     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-06 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 11:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 20:35

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-06 A 01

Preparation Batch: BMC0691

Sample Size: 10.04 g (wet)

Dry Weight: 5.34 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 53.14

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 9.37            | 10.0   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 18.7            | 79.0   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 83.7   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-07 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:30

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:22

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-07 E

Preparation Batch: BMC0618

Sample Size: 10 mL

Prepared: 03/22/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 3.19   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.15   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.08   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1SE-8-031824**

**24C0437-07 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:30

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:22

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | 0.37   | ug/L  | J     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-07 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 11:30

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:22

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 104    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.9   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 106    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-07 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 13:45

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-07 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | 0.7    | ug/L  | J, D  |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-07 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 13:45

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | 0.8    | ug/L  | J, D  |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | 0.8    | ug/L  | J, D  |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 41.1   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 30.1   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 59.7   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 54.2   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 67.5   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 70.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-07 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 11:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 13:45

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 70.6     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 75.1     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SE-8-031824

24C0437-07 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 11:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 13:40

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-07 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.940  | mg/L  |       |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.845  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 82.2   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-08 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 12:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:05

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-08 B

Preparation Batch: BMC0620

Sample Size: 5.46 g (wet)

Dry Weight: 4.44 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 81.27

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.43            | 1.13            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.38            | 1.13            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.35            | 2.25            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.40            | 2.25            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.10            | 2.25            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 1.97            | 5.63            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.96            | 2.25            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 7.15            | 11.3            | 129    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.42            | 1.13            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.02            | 1.13            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 4.91            | 5.63            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 4.87            | 5.63            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.37            | 1.13            | 0.90   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.59            | 1.13            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 3.67            | 5.63            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.32            | 1.13            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 2.75            | 5.63            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.35            | 1.13            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.29            | 1.13            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.32            | 1.13            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.45            | 1.13            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.67            | 1.13            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.32            | 1.13            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.35            | 1.13            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.26            | 1.13            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.19            | 1.13            | 0.36   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.29            | 1.13            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.37            | 1.13            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.29            | 1.13            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.40            | 1.13            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.40            | 5.63            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.54            | 5.63            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.30            | 1.13            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.28            | 1.13            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.46            | 1.13            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1SW-4-031824**

**24C0437-08 (Solid)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 12:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:05

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.43            | 5.63            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.30            | 1.13            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.26            | 1.13            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.22            | 1.13            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.30            | 1.13            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.35            | 1.13            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.23            | 1.13            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.26            | 1.13            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.40            | 1.13            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.56            | 2.25            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.27            | 1.13            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.79            | 2.25            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.28            | 1.13            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.52            | 1.13            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.31            | 1.13            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.69            | 2.25            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.10            | 5.63            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.27            | 1.13            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.28            | 1.13            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.30            | 1.13            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.24            | 1.13            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.33            | 1.13            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.28            | 1.13            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.29            | 1.13            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.30            | 1.13            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.27            | 1.13            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.33            | 1.13            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.27            | 1.13            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.49            | 1.13            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.32            | 1.13            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.74            | 1.13            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.66            | 5.63            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.05            | 5.63            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 4.70            | 5.63            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 2.78            | 5.63            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.62            | 5.63            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.45            | 1.13            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.29            | 1.13            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-08 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 12:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:05

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.42            | 5.63            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 117    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 103    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 103    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 106    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-08 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 12:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 21:35

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BMC0692

Prepared: 03/29/2024

Sample Size: 12.34 g (wet)

Final Volume: 1 mL

Extract ID: 24C0437-08 A 02

Dry Weight: 10.03 g

% Solids: 81.27

Sample Cleanup:

Cleanup Method: GPC

Cleanup Batch: CMD0158

Cleaned: 23-Apr-2024

Initial Volume: 1 uL

Final Volume: 1 uL

Extract ID: 24C0437-08 A 02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.9            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | 5.2    | ug/kg | J     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.7            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.7            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.7            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.7            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

Project Manager: Tom McKeon

09-May-2024 14:15

**ISW-4-031824**

**24C0437-08 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 12:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 21:35

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | 13.1   | ug/kg | J     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.7            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.9            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 49.9            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.7            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.7            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | 60.8   | ug/kg |       |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | 19.9   | ug/kg | J     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 134    | ug/kg |       |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | 86.3   | ug/kg |       |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | 11.7   | ug/kg | J     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.7            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 15.2   | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.9            | 27.7   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 62.1   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 61.8   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 66.6   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-08 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 12:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 21:35

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 62.6     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 65.6     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 72.6     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 96.4     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 108      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1SW-4-031824

24C0437-08 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 12:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 20:55

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-08 A 01

Preparation Batch: BMC0691

Sample Size: 10.06 g (wet)

Dry Weight: 8.18 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 81.27

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 6.12            | 12.5   | mg/kg |       |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 12.2            | 45.8   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 77.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-09 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 12:00

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:44

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-09 E

Preparation Batch: BMC0618

Sample Size: 10 mL

Prepared: 03/22/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 2.67   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.08   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1SW-4-031824**

**24C0437-09 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 12:00

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:44

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-09 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 12:00

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 19:44

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 107    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 99.1   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 103    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-09 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 12:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 14:19

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-09 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-09 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 12:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 14:19

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 47.1   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 34.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 69.2   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 65.0   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 78.6   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 79.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-09 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 12:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 14:19

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 81.9     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 80.7     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-4-031824

24C0437-09 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 12:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 14:01

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-09 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.319  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.362  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 81.2   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-10 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 13:15

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:30

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-10 B

Preparation Batch: BMC0620

Sample Size: 4.83 g (wet)

Dry Weight: 2.74 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 56.70

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.69            | 1.83            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.61            | 1.83            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.19            | 3.65            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.27            | 3.65            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.78            | 3.65            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 3.20            | 9.13            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.55            | 3.65            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 11.6            | 18.3            | 99.2   | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.68            | 1.83            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.65            | 1.83            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 7.96            | 9.13            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 7.90            | 9.13            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.60            | 1.83            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.96            | 1.83            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 5.94            | 9.13            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.52            | 1.83            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 4.46            | 9.13            | 7.04   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.56            | 1.83            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.53            | 1.83            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.72            | 1.83            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.09            | 1.83            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.51            | 1.83            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.57            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.43            | 1.83            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.30            | 1.83            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.61            | 1.83            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.47            | 1.83            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.65            | 1.83            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 5.50            | 9.13            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.49            | 9.13            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.48            | 1.83            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.75            | 1.83            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

1SW-8-031824

24C0437-10 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 13:15

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:30

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.32            | 9.13            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.49            | 1.83            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.43            | 1.83            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.36            | 1.83            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.49            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.56            | 1.83            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.38            | 1.83            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.41            | 1.83            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.65            | 1.83            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.90            | 3.65            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.44            | 1.83            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.27            | 3.65            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.84            | 1.83            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.50            | 1.83            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.73            | 3.65            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 5.03            | 9.13            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.43            | 1.83            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.48            | 1.83            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.39            | 1.83            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.53            | 1.83            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.46            | 1.83            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.46            | 1.83            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.48            | 1.83            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.44            | 1.83            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.53            | 1.83            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.45            | 1.83            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.79            | 1.83            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.51            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.19            | 1.83            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 4.31            | 9.13            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.32            | 9.13            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 7.62            | 9.13            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 4.50            | 9.13            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 4.24            | 9.13            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.74            | 1.83            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.46            | 1.83            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-10 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 13:15

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:30

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.92            | 9.13            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 114    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 101    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 103    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-10 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 13:15

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 22:12

|                     |                                          |                            |                             |
|---------------------|------------------------------------------|----------------------------|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) | Sample Size: 17.64 g (wet) | Extract ID: 24C0437-10 A 02 |
|                     | Preparation Batch: BMC0692               |                            |                             |
|                     | Prepared: 03/29/2024                     |                            |                             |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 1 uL       | Extract ID: 24C0437-10 A 02 |
|                     | Cleanup Batch: CMD0158                   |                            |                             |
|                     | Cleaned: 23-Apr-2024                     |                            |                             |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.3            | 50.0            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 20.0            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 20.0            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.4             | 20.0            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.3            | 20.0            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 20.0            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.7             | 20.0            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 20.0            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 20.0            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.9             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 100             | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 100             | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 20.0            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 39.0            | 200             | 84.0   | ug/kg | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 100             | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 100             | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 20.0            | 9.2    | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.5            | 100             | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 100             | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 100             | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 8.0             | 20.0            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 100             | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 20.0            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1SW-8-031824**

**24C0437-10 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 13:15

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 22:12

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.5            | 100             | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 20.0            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.3            | 100             | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.8            | 200             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 20.0            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.6            | 100             | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 100             | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 50.0            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 50.0            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.4            | 100             | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 38.0            | 200             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 20.0            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.5            | 20.0            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 100             | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 20.0            | 15.0   | ug/kg | J     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 20.0            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 20.0            | 7.6    | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 20.0            | 13.7   | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 6.0             | 20.0            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 100             | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.1            | 50.0            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 21.0            | 40.0            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 20.0            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 20.0            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.3             | 20.0            | 8.0    | ug/kg | J     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 60.6   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 59.7   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 65.3   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-10 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 13:15

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 22:12

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 60.5     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 63.2     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 71.7     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 97.8     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 117      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1SW-8-031824

24C0437-10 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 13:15

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 21:15

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-10 A 01

Preparation Batch: BMC0691

Sample Size: 10.04 g (wet)

Dry Weight: 5.69 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 56.70

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 8.78            | ND     | mg/kg | U     |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 17.6            | 76.3   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 78.4   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 13:15

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 20:06

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-11 F

Preparation Batch: BMC0618

Sample Size: 10 mL

Prepared: 03/22/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 2.60   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 13:15

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 20:06

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 13:15

Instrument: NT3 Analyst: LH

Analyzed: 03/22/2024 20:06

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 114    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 98.0   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 102    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 13:15

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 14:52

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-11 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 13:15

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 14:52

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 44.2   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 31.0   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 68.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 68.2   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 81.8   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 85.5   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 13:15

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 14:52

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 89.1     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 83.5     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1SW-8-031824

24C0437-11 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 13:15

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 14:21

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-11 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.216  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-12 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 14:00

Instrument: NT5 Analyte: PKC

Analyzed: 03/22/2024 18:54

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-12 B

Preparation Batch: BMC0620

Sample Size: 4.6 g (wet)

Dry Weight: 3.83 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 83.36

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.49            | 1.30            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.44            | 1.30            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.56            | 2.61            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.62            | 2.61            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.27            | 2.61            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.28            | 6.52            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.11            | 2.61            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 8.27            | 13.0            | 47.4   | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.48            | 1.30            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.18            | 1.30            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.69            | 6.52            | 51.9   | ug/kg |       |
| Acrylonitrile                         | 107-13-1   | 1        | 5.64            | 6.52            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.43            | 1.30            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.68            | 1.30            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 4.24            | 6.52            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.37            | 1.30            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.18            | 6.52            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.40            | 1.30            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.34            | 1.30            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.38            | 1.30            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.52            | 1.30            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.78            | 1.30            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.37            | 1.30            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.41            | 1.30            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.31            | 1.30            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.22            | 1.30            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.33            | 1.30            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.43            | 1.30            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.34            | 1.30            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.46            | 1.30            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.93            | 6.52            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.78            | 6.52            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.34            | 1.30            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.32            | 1.30            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.53            | 1.30            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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2SW-4-031824

24C0437-12 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 14:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:54

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.66            | 6.52            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.35            | 1.30            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.31            | 1.30            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.26            | 1.30            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.35            | 1.30            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.40            | 1.30            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.27            | 1.30            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.30            | 1.30            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.46            | 1.30            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.64            | 2.61            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.31            | 1.30            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.91            | 2.61            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.32            | 1.30            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.60            | 1.30            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.36            | 1.30            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.95            | 2.61            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.59            | 6.52            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.31            | 1.30            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.32            | 1.30            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.34            | 1.30            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.28            | 1.30            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.38            | 1.30            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.33            | 1.30            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.33            | 1.30            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.35            | 1.30            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.31            | 1.30            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.38            | 1.30            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.32            | 1.30            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.56            | 1.30            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.37            | 1.30            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.85            | 1.30            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 3.08            | 6.52            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.37            | 6.52            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 5.44            | 6.52            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.21            | 6.52            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 3.03            | 6.52            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.53            | 1.30            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.33            | 1.30            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-12 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 14:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 18:54

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.80            | 6.52            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 114    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 103    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.5   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 101    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-12 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 14:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 22:49

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-12 A 02

Preparation Batch: BMC0692

Sample Size: 12.06 g (wet)

Dry Weight: 10.05 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 83.36

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-12 A 02

Cleanup Batch: CMD0158

Initial Volume: 1 uL

Cleaned: 23-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.7            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.5            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.2            | 99.5            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 38.8            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.5            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.3            | 99.5            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.3            | 99.5            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.5            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.6            | 99.5            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.3            | 99.5            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SW-4-031824**

**24C0437-12 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 14:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 22:49

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.5            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.1            | 99.5            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.6            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.0            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.5            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.1            | 99.5            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.0            | 49.7            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.7            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.5            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.8            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 16.9            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.5            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Pyrene                       | 129-00-0   | 1        | 5.6             | 19.9            | 5.7    | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.5            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.7            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.8            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.1            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 55.2   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 55.7   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 60.4   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-12 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 14:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 22:49

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 57.5     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 60.8     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 67.0     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 86.0     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 99.2     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-12 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 14:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 21:35

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-12 A 01

Preparation Batch: BMC0691

Sample Size: 10.05 g (wet)

Dry Weight: 8.38 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 83.36

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 5.97            | ND     | mg/kg | U     |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 11.9            | 16.3   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 82.4   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-13 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 14:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 13:39

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-13 C

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 6.96   | ug/L  |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.15   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | 0.06   | ug/L  | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.10   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SW-4-031824**

**24C0437-13 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 14:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 13:39

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-13 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 14:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 13:39

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 106    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 100    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 99.9   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 104    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-13 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 14:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/17/2024 12:25

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-13 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-13 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 14:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/17/2024 12:25

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 43.9   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 33.0   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 65.6   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 60.1   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 75.9   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 75.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-13 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 14:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/17/2024 12:25

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 74.5     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 80.4     | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-4-031824

24C0437-13 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 14:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 14:41

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-13 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.281  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.610  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 78.9   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-14 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 16:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 19:19

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-14 B

Preparation Batch: BMC0620

Sample Size: 5.25 g (wet)

Dry Weight: 4.34 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 82.61

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.44            | 1.15            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.39            | 1.15            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.38            | 2.31            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.43            | 2.31            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.12            | 2.31            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.02            | 5.76            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.98            | 2.31            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 7.31            | 11.5            | 64.5   | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.43            | 1.15            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.04            | 1.15            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.03            | 5.76            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 4.99            | 5.76            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.38            | 1.15            | 3.80   | ug/kg |       |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.61            | 1.15            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 3.75            | 5.76            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.33            | 1.15            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 2.81            | 5.76            | 3.07   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.35            | 1.15            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.30            | 1.15            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.33            | 1.15            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.46            | 1.15            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.69            | 1.15            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.33            | 1.15            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.36            | 1.15            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.27            | 1.15            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.19            | 1.15            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.29            | 1.15            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.38            | 1.15            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.30            | 1.15            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.41            | 1.15            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.48            | 5.76            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.57            | 5.76            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.30            | 1.15            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.28            | 1.15            | 0.31   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.47            | 1.15            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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2SW-8-031824

24C0437-14 (Solid)

## Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 16:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 19:19

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.47            | 5.76            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.31            | 1.15            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.27            | 1.15            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.23            | 1.15            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.31            | 1.15            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.36            | 1.15            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.24            | 1.15            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.26            | 1.15            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.41            | 1.15            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.57            | 2.31            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.28            | 1.15            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.80            | 2.31            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.28            | 1.15            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.53            | 1.15            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.32            | 1.15            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.73            | 2.31            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.17            | 5.76            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.27            | 1.15            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.28            | 1.15            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.30            | 1.15            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.25            | 1.15            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.34            | 1.15            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.29            | 1.15            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.29            | 1.15            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.31            | 1.15            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.28            | 1.15            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.33            | 1.15            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.28            | 1.15            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.50            | 1.15            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.32            | 1.15            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.75            | 1.15            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.72            | 5.76            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.10            | 5.76            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 4.81            | 5.76            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 2.84            | 5.76            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.68            | 5.76            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.46            | 1.15            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.29            | 1.15            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-14 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 16:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 19:19

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.48            | 5.76            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 114    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 102    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 96.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-14 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 16:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 23:26

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BMC0692

Prepared: 03/29/2024

Sample Size: 12.14 g (wet)

Final Volume: 1 mL

Extract ID: 24C0437-14 A 02

Dry Weight: 10.03 g

% Solids: 82.61

Sample Cleanup:

Cleanup Method: GPC

Cleanup Batch: CMD0158

Cleaned: 23-Apr-2024

Initial Volume: 1 uL

Final Volume: 1 uL

Extract ID: 24C0437-14 A 02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.9            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.7            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.7            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.7            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.7            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SW-8-031824**

**24C0437-14 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 16:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 23:26

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.7            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.9            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 49.9            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.7            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.7            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 26.8   | ug/kg |       |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | 42.0   | ug/kg |       |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.7            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 15.6   | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.9            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | 53.2   | ug/kg |       |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 61.6   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 61.3   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 65.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-14 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 16:00

Instrument: NT14 Analyst: FL

Analyzed: 04/29/2024 23:26

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 61.4     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 64.9     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 74.5     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 92.7     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 108      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2SW-8-031824

24C0437-14 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 16:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 22:36

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-14 A 01

Preparation Batch: BMC0691

Sample Size: 10.02 g (wet)

Dry Weight: 8.28 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 82.61

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 6.04            | 10.3   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 12.1            | 61.4   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 89.8   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-15 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 16:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:01

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-15 F

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 4.03   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.16   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.05   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2SW-8-031824**

**24C0437-15 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 16:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:01

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-15 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/18/2024 16:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:01

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 110    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 97.3   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.4   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 102    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-15 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 16:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 16:00

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-15 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-15 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 16:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 16:00

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | 0.2    | ug/L  | J     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 39.8   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 28.8   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 59.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 56.2   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 68.4   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 70.0   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-15 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/18/2024 16:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 16:00

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 75.1     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 70.5     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2SW-8-031824

24C0437-15 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/18/2024 16:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 15:02

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-15 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.119  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 102    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-4-031924

24C0437-16 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 19:43

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-16 B

Preparation Batch: BMC0620

Sample Size: 4.97 g (wet)

Dry Weight: 4.32 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 86.96

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.44            | 1.16            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.39            | 1.16            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.39            | 2.31            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.44            | 2.31            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.13            | 2.31            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.03            | 5.78            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.98            | 2.31            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 7.34            | 11.6            | 281    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.43            | 1.16            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.05            | 1.16            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.05            | 5.78            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 5.00            | 5.78            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.38            | 1.16            | 2.71   | ug/kg |       |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.61            | 1.16            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 3.76            | 5.78            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.33            | 1.16            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 2.82            | 5.78            | 3.65   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.36            | 1.16            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.30            | 1.16            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.33            | 1.16            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.46            | 1.16            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.69            | 1.16            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.33            | 1.16            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.36            | 1.16            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.27            | 1.16            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.19            | 1.16            | 0.41   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.30            | 1.16            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.38            | 1.16            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.30            | 1.16            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.41            | 1.16            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.49            | 5.78            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.58            | 5.78            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.30            | 1.16            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.29            | 1.16            | 0.35   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.47            | 1.16            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2NE-4-031924

24C0437-16 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 19:43

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.47            | 5.78            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.31            | 1.16            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.27            | 1.16            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.23            | 1.16            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.31            | 1.16            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.36            | 1.16            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.24            | 1.16            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.26            | 1.16            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.41            | 1.16            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.57            | 2.31            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.28            | 1.16            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.81            | 2.31            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.28            | 1.16            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.53            | 1.16            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.32            | 1.16            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.73            | 2.31            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.18            | 5.78            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.27            | 1.16            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.29            | 1.16            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.30            | 1.16            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.25            | 1.16            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.34            | 1.16            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.29            | 1.16            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.29            | 1.16            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.31            | 1.16            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.28            | 1.16            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.34            | 1.16            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.28            | 1.16            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.50            | 1.16            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.32            | 1.16            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.76            | 1.16            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.73            | 5.78            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.10            | 5.78            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 4.83            | 5.78            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 2.85            | 5.78            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.69            | 5.78            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.47            | 1.16            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.29            | 1.16            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2NE-4-031924

24C0437-16 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 19:43

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.48            | 5.78            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 114    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 103    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 107    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 102    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-4-031924

24C0437-16 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 18:47

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-16 A 02

Preparation Batch: BMC0692

Sample Size: 11.54 g (wet)

Dry Weight: 10.04 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 86.96

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-16 A 02

Cleanup Batch: CMD0158

Initial Volume: 1 uL

Cleaned: 23-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 5        | 21.9            | 99.6            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 5        | 96.1            | 249             | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 5        | 69.0            | 99.6            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 5        | 15.6            | 99.6            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 5        | 31.7            | 99.6            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 5        | 30.6            | 99.6            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 5        | 81.0            | 99.6            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 5        | 16.8            | 99.6            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 5        | 33.2            | 99.6            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 5        | 34.4            | 99.6            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 5        | 37.1            | 99.6            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 5        | 36.8            | 99.6            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 5        | 36.1            | 99.6            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 5        | 47.5            | 99.6            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 5        | 24.2            | 99.6            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 5        | 44.4            | 498             | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 5        | 21.5            | 99.6            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 5        | 76.3            | 498             | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 5        | 42.5            | 99.6            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 5        | 21.1            | 99.6            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 5        | 195             | 996             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 5        | 131             | 498             | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 5        | 24.0            | 99.6            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 5        | 61.8            | 498             | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 5        | 22.5            | 99.6            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 5        | 122             | 498             | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 5        | 44.7            | 498             | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 5        | 128             | 498             | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 5        | 39.7            | 99.6            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 5        | 81.8            | 498             | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 5        | 31.1            | 99.6            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 5        | 21.9            | 99.6            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

**2NE-4-031924**  
**24C0437-16 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 18:47

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 5        | 102             | 498             | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 5        | 26.0            | 99.6            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 5        | 111             | 498             | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 5        | 168             | 996             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 5        | 70.4            | 99.6            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 5        | 163             | 498             | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 5        | 80.8            | 498             | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 5        | 72.6            | 99.6            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 5        | 95.4            | 249             | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 5        | 98.2            | 249             | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 5        | 147             | 498             | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 5        | 189             | 996             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 5        | 26.5            | 99.6            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 5        | 84.8            | 99.6            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 5        | 67.2            | 99.6            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 5        | 156             | 498             | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 5        | 43.4            | 99.6            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 5        | 35.8            | 99.6            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 5        | 21.4            | 99.6            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 5        | 28.0            | 99.6            | 36.3   | ug/kg | J, D  |
| Fluoranthene                 | 206-44-0   | 5        | 30.3            | 99.6            | 51.5   | ug/kg | J, D  |
| Pyrene                       | 129-00-0   | 5        | 28.3            | 99.6            | 63.8   | ug/kg | J, D  |
| Butylbenzylphthalate         | 85-68-7    | 5        | 46.9            | 99.6            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 5        | 29.7            | 99.6            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 5        | 35.3            | 498             | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 5        | 30.2            | 99.6            | 41.1   | ug/kg | J, D  |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 5        | 70.1            | 249             | 1690   | ug/kg | D     |
| Di-n-Octylphthalate          | 117-84-0   | 5        | 21.9            | 99.6            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 5        | 105             | 199             | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 5        | 21.1            | 99.6            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 5        | 73.0            | 99.6            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 5        | 85.8            | 99.6            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 5        | 67.7            | 99.6            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 5        | 26.2            | 99.6            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 59.6   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 53.7   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 60.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-4-031924

24C0437-16 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 18:47

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 61.1     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 62.2     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 71.4     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 79.4     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 84.1     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-4-031924

24C0437-16 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 08:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 16:18

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-16 A 01

Preparation Batch: BMC0691

Sample Size: 10.08 g (wet)

Dry Weight: 8.77 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 86.96

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 5        | 28.5            | 92.3   | mg/kg | D     |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 5        | 57.0            | 292    | mg/kg | D     |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 57.3   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-8-031924

24C0437-17 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:45

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:07

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-17 B

Preparation Batch: BMC0620

Sample Size: 4.49 g (wet)

Dry Weight: 3.49 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 77.80

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.54            | 1.43            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.48            | 1.43            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.72            | 2.86            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.78            | 2.86            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.40            | 2.86            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.51            | 7.16            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.21            | 2.86            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 9.08            | 14.3            | 119    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.53            | 1.43            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.30            | 1.43            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 6.24            | 7.16            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 6.19            | 7.16            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.47            | 1.43            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.75            | 1.43            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 4.66            | 7.16            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.41            | 1.43            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.49            | 7.16            | 5.03   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.44            | 1.43            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.37            | 1.43            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.41            | 1.43            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.57            | 1.43            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.86            | 1.43            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.40            | 1.43            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.45            | 1.43            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.33            | 1.43            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.24            | 1.43            | 0.62   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.36            | 1.43            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.48            | 1.43            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.37            | 1.43            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.51            | 1.43            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 4.32            | 7.16            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.95            | 7.16            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.38            | 1.43            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.35            | 1.43            | 0.39   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.59            | 1.43            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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2NE-8-031924

24C0437-17 (Solid)

## Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:45

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:07

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.82            | 7.16            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.38            | 1.43            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.33            | 1.43            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.28            | 1.43            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.38            | 1.43            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.44            | 1.43            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.30            | 1.43            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.32            | 1.43            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.51            | 1.43            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.71            | 2.86            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.34            | 1.43            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.00            | 2.86            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.35            | 1.43            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.66            | 1.43            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.39            | 1.43            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.14            | 2.86            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.94            | 7.16            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.34            | 1.43            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.35            | 1.43            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.38            | 1.43            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.31            | 1.43            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.42            | 1.43            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.36            | 1.43            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.36            | 1.43            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.38            | 1.43            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.34            | 1.43            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.42            | 1.43            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.35            | 1.43            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.62            | 1.43            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.40            | 1.43            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.93            | 1.43            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 3.38            | 7.16            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.60            | 7.16            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 5.97            | 7.16            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.53            | 7.16            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 3.33            | 7.16            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.58            | 1.43            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.36            | 1.43            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-8-031924

24C0437-17 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:45

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:07

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.07            | 7.16            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 105    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 101    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 97.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 103    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-8-031924

24C0437-17 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:45

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 00:03

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BMC0692

Prepared: 03/29/2024

Sample Size: 12.87 g (wet)

Final Volume: 1 mL

Extract ID: 24C0437-17 A 02

Dry Weight: 10.01 g

% Solids: 77.80

Sample Cleanup:

Cleanup Method: GPC

Cleanup Batch: CMD0158

Cleaned: 23-Apr-2024

Initial Volume: 1 uL

Final Volume: 1 uL

Extract ID: 24C0437-17 A 02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.3            | 49.9            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 20.0            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 20.0            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.4             | 20.0            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 20.0            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 20.0            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.7             | 20.0            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 20.0            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 20.0            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.9             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.9            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.9            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 20.0            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 39.0            | 200             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.9            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.9            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 20.0            | 4.6    | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.9            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.9            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.9            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 20.0            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.9            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 20.0            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

Project Manager: Tom McKeon

**2NE-8-031924**

**24C0437-17 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:45

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 00:03

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.5            | 99.9            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 20.0            | 8.3    | ug/kg | J     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.9            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.8            | 200             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 20.0            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.6            | 99.9            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.9            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.9            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 49.9            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.4            | 99.9            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 200             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 20.0            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.5            | 20.0            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.9            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 20.0            | 39.4   | ug/kg |       |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 20.0            | 7.6    | ug/kg | J     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 20.0            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 20.0            | 17.6   | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 20.0            | 19.4   | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 6.0             | 20.0            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.9            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.1            | 49.9            | 15.9   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| Benzofluoranthenes, Total    |            | 1        | 21.0            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 20.0            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 20.0            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 59.7   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 58.0   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 64.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-8-031924

24C0437-17 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:45

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 00:03

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 60.6     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 62.9     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 70.8     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 95.3     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 111      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NE-8-031924

24C0437-17 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 08:45

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 23:16

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-17 A 01

Preparation Batch: BMC0691

Sample Size: 10 g (wet)

Dry Weight: 7.78 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 77.80

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 6.43            | ND     | mg/kg | U     |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 12.9            | 24.5   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 75.5   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-4-031924

24C0437-18 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:31

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-18 B

Preparation Batch: BMC0620

Sample Size: 4 g (wet)

Dry Weight: 3.11 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 77.70

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.61            | 1.61            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.54            | 1.61            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.93            | 3.22            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.00            | 3.22            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.57            | 3.22            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.82            | 8.04            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.36            | 3.22            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 10.2            | 16.1            | 104    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.60            | 1.61            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.46            | 1.61            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 7.02            | 8.04            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 6.96            | 8.04            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.53            | 1.61            | 0.87   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.84            | 1.61            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 5.23            | 8.04            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.46            | 1.61            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.93            | 8.04            | 4.69   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.49            | 1.61            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.41            | 1.61            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.46            | 1.61            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.64            | 1.61            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.96            | 1.61            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.45            | 1.61            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.50            | 1.61            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.38            | 1.61            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.27            | 1.61            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.41            | 1.61            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.53            | 1.61            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.41            | 1.61            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.57            | 1.61            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 4.85            | 8.04            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.20            | 8.04            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.42            | 1.61            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.40            | 1.61            | 0.56   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.66            | 1.61            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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2E-4-031924  
24C0437-18 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:31

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.05            | 8.04            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.43            | 1.61            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.38            | 1.61            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.32            | 1.61            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.43            | 1.61            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.50            | 1.61            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.33            | 1.61            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.37            | 1.61            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.57            | 1.61            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.79            | 3.22            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.38            | 1.61            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.12            | 3.22            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.40            | 1.61            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.74            | 1.61            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.44            | 1.61            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.41            | 3.22            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 4.43            | 8.04            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.38            | 1.61            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.40            | 1.61            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.42            | 1.61            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.35            | 1.61            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.47            | 1.61            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.40            | 1.61            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.41            | 1.61            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.43            | 1.61            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.39            | 1.61            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.47            | 1.61            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.39            | 1.61            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.69            | 1.61            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.45            | 1.61            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.05            | 1.61            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 3.80            | 8.04            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.92            | 8.04            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 6.71            | 8.04            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.96            | 8.04            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 3.74            | 8.04            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.65            | 1.61            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.41            | 1.61            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-4-031924

24C0437-18 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:31

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.45            | 8.04            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 112    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 104    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.6   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-4-031924

24C0437-18 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:30

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 00:40

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-18 A 02

Preparation Batch: BMC0692

Sample Size: 12.94 g (wet)

Dry Weight: 10.05 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 77.70

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-18 A 02

Cleanup Batch: CMD0158

Initial Volume: 1 uL

Cleaned: 23-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.7            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.5            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.2            | 99.5            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | 6.5    | ug/kg | J     |
| Benzoic acid                 | 65-85-0    | 1        | 38.8            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.5            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.3            | 99.5            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | 7.3    | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.3            | 99.5            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.5            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.6            | 99.5            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.3            | 99.5            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2E-4-031924**

**24C0437-18 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:30

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 00:40

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.5            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.1            | 99.5            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.6            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.0            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.5            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.1            | 99.5            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.0            | 49.7            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.7            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.5            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.8            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 16.9            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.5            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | 6.6    | ug/kg | J     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 10.6   | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.6             | 19.9            | 12.8   | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.5            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 8.8    | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.7            | 14.2   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.8            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.1            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | 5.5    | ug/kg | J     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 66.1   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 63.9   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 69.9   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-4-031924

24C0437-18 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:30

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 00:40

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 66.3     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 68.6     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 75.1     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 100      | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 109      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-4-031924

24C0437-18 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 09:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 23:36

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-18 A 01

Preparation Batch: BMC0691

Sample Size: 10.03 g (wet)

Dry Weight: 7.79 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 77.70

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 6.42            | 20.6   | mg/kg |       |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 12.8            | 79.1   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 74.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-19 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:50

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:55

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-19 B

Preparation Batch: BMC0620

Sample Size: 5.08 g (wet)

Dry Weight: 4.25 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 83.68

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.45            | 1.18            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.40            | 1.18            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.41            | 2.35            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.46            | 2.35            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.15            | 2.35            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.06            | 5.88            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.00            | 2.35            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 7.46            | 11.8            | 94.0   | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.44            | 1.18            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.06            | 1.18            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.13            | 5.88            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 5.09            | 5.88            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.39            | 1.18            | 1.66   | ug/kg |       |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.62            | 1.18            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 3.83            | 5.88            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.33            | 1.18            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 2.87            | 5.88            | 4.57   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.36            | 1.18            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.30            | 1.18            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.34            | 1.18            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.46            | 1.18            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.70            | 1.18            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.33            | 1.18            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.37            | 1.18            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.28            | 1.18            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.19            | 1.18            | 0.31   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.30            | 1.18            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.39            | 1.18            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.30            | 1.18            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.42            | 1.18            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.55            | 5.88            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.61            | 5.88            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.31            | 1.18            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.29            | 1.18            | 0.44   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.48            | 1.18            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924  
24C0437-19 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:50

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:55

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.50            | 5.88            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.32            | 1.18            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.28            | 1.18            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.23            | 1.18            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.31            | 1.18            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.36            | 1.18            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.24            | 1.18            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.27            | 1.18            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.42            | 1.18            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.58            | 2.35            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.28            | 1.18            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.82            | 2.35            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.29            | 1.18            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.54            | 1.18            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.32            | 1.18            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.76            | 2.35            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.24            | 5.88            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.28            | 1.18            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.29            | 1.18            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.31            | 1.18            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.25            | 1.18            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.34            | 1.18            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.30            | 1.18            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.30            | 1.18            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.31            | 1.18            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.28            | 1.18            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.34            | 1.18            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.29            | 1.18            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.51            | 1.18            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.33            | 1.18            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.77            | 1.18            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.78            | 5.88            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.14            | 5.88            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 4.91            | 5.88            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 2.90            | 5.88            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.73            | 5.88            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.47            | 1.18            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.30            | 1.18            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-19 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:50

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 20:55

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.53            | 5.88            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 108    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 104    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 99.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 103    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-19 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:50

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 01:16

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-19 A 02

Preparation Batch: BMC0692

Sample Size: 11.98 g (wet)

Dry Weight: 10.02 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 83.68

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-19 A 02

Cleanup Batch: CMD0158

Initial Volume: 1 uL

Cleaned: 23-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.9            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 20.0            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 20.0            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 20.0            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 20.0            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 20.0            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 20.0            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 20.0            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 20.0            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.8            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.8            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 20.0            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 20.0            | 9.7    | ug/kg | J     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 200             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.8            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.8            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 20.0            | 17.1   | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.8            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.8            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.8            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 20.0            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.8            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 20.0            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |





CALIBRE

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Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924  
24C0437-19 (Solid)

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:50

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 01:16

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.8            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 20.0            | 11.8   | ug/kg | J     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.8            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 200             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 20.0            | 16.1   | ug/kg | J     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.6            | 99.8            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.8            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 20.0            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.9            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 49.9            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.8            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 200             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 20.0            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 20.0            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.8            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 20.0            | 32.3   | ug/kg |       |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 20.0            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 20.0            | 13.6   | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 20.0            | 16.0   | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 20.0            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.8            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 20.0            | 6.8    | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.9            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 20.0            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 20.0            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 20.0            | 6.1    | ug/kg | J     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 65.6   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 63.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 69.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-19 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:50

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 01:16

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 66.6     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 70.0     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 77.4     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 97.0     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 111      | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2E-8-031924

24C0437-19 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 09:50

Instrument: FID4 Analyst: NRB

Analyzed: 04/02/2024 23:56

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-19 A 01

Preparation Batch: BMC0691

Sample Size: 10.06 g (wet)

Dry Weight: 8.42 g

Prepared: 03/29/2024

Final Volume: 1 mL

% Solids: 83.68

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 5.94            | 25.9   | mg/kg |       |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 11.9            | 55.7   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 80.5   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:50

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:23

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-20 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 3.32   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.17   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.06   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:50

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:23

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 09:50

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:23

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 112    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 99.7   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 102    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 104    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:50

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 16:34

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-20 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:50

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 16:34

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | 3.0    | ug/L  | J, D  |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 55.0   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 44.2   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 72.5   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 66.8   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 81.0   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 80.5   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 09:50

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 16:34

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 81.1     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 83.8     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2E-8-031924

24C0437-20 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 09:50

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 15:22

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-20 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.171  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.295  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 86.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924  
24C0437-21 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 21:20

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-21 B

Preparation Batch: BMC0620

Sample Size: 3.65 g (wet)

Dry Weight: 3.00 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 82.10

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.63            | 1.67            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.56            | 1.67            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.00            | 3.34            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.08            | 3.34            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.63            | 3.34            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.92            | 8.34            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.41            | 3.34            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 10.6            | 16.7            | 396    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.62            | 1.67            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.51            | 1.67            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 7.28            | 8.34            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 7.22            | 8.34            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.55            | 1.67            | 0.67   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.88            | 1.67            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 5.43            | 8.34            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.47            | 1.67            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 4.07            | 8.34            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.51            | 1.67            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.43            | 1.67            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.48            | 1.67            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.66            | 1.67            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.00            | 1.67            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.47            | 1.67            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.52            | 1.67            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.39            | 1.67            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.28            | 1.67            | 0.92   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.43            | 1.67            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.55            | 1.67            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.43            | 1.67            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.59            | 1.67            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 5.03            | 8.34            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.28            | 8.34            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.44            | 1.67            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.41            | 1.67            | 13.5   | ug/kg |       |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.68            | 1.67            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1NW-4-031924  
24C0437-21 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 21:20

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.12            | 8.34            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.45            | 1.67            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.39            | 1.67            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.33            | 1.67            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.45            | 1.67            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.51            | 1.67            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.35            | 1.67            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.38            | 1.67            | 11.0   | ug/kg |       |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.59            | 1.67            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.82            | 3.34            | 38.0   | ug/kg |       |
| o-Xylene                    | 95-47-6     | 1        | 0.40            | 1.67            | 27.5   | ug/kg |       |
| Xylenes, total              | 1330-20-7   | 1        | 1.16            | 3.34            | 65.5   | ug/kg |       |
| Styrene                     | 100-42-5    | 1        | 0.41            | 1.67            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.77            | 1.67            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.46            | 1.67            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.50            | 3.34            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 4.59            | 8.34            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.39            | 1.67            | 5.90   | ug/kg |       |
| Bromobenzene                | 108-86-1    | 1        | 0.41            | 1.67            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.44            | 1.67            | 3.13   | ug/kg |       |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.36            | 1.67            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.49            | 1.67            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.42            | 1.67            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.42            | 1.67            | 21.0   | ug/kg |       |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.44            | 1.67            | 75.4   | ug/kg |       |
| s-Butylbenzene              | 135-98-8    | 1        | 0.40            | 1.67            | 2.25   | ug/kg |       |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.48            | 1.67            | 8.37   | ug/kg |       |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.41            | 1.67            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.72            | 1.67            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.47            | 1.67            | 5.44   | ug/kg |       |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.09            | 1.67            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 3.94            | 8.34            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.03            | 8.34            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 6.96            | 8.34            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 4.11            | 8.34            | 150    | ug/kg |       |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 3.88            | 8.34            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.67            | 1.67            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.42            | 1.67            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-21 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 21:20

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.58            | 8.34            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 117    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 94.8   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.6   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 97.6   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924  
24C0437-21 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 19:24

|                     |                                          |                           |                             |
|---------------------|------------------------------------------|---------------------------|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) | Sample Size: 12.2 g (wet) | Extract ID: 24C0437-21 A 02 |
|                     | Preparation Batch: BMC0692               |                           |                             |
|                     | Prepared: 03/29/2024                     |                           |                             |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 5 uL      | Extract ID: 24C0437-21 A 02 |
|                     | Cleanup Batch: CMD0158                   |                           |                             |
|                     | Cleaned: 23-Apr-2024                     |                           |                             |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 5        | 110             | 499             | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 5        | 481             | 1250            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 5        | 346             | 499             | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 5        | 78.1            | 499             | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 5        | 159             | 499             | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 5        | 153             | 499             | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 5        | 406             | 499             | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 5        | 84.1            | 499             | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 5        | 166             | 499             | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 5        | 172             | 499             | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 5        | 186             | 499             | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 5        | 184             | 499             | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 5        | 181             | 499             | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 5        | 238             | 499             | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 5        | 121             | 499             | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 5        | 223             | 2500            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 5        | 108             | 499             | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 5        | 382             | 2500            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 5        | 213             | 499             | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 5        | 106             | 499             | 2650   | ug/kg | D     |
| Benzoic acid                 | 65-85-0    | 5        | 974             | 4990            | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 5        | 657             | 2500            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 5        | 120             | 499             | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 5        | 310             | 2500            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 5        | 113             | 499             | 31700  | ug/kg | D     |
| Hexachlorocyclopentadiene    | 77-47-4    | 5        | 611             | 2500            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 5        | 224             | 2500            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 5        | 643             | 2500            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 5        | 199             | 499             | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 5        | 410             | 2500            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 5        | 156             | 499             | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 5        | 110             | 499             | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

**1NW-4-031924**  
**24C0437-21 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 19:24

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 5        | 511             | 2500            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 5        | 130             | 499             | 5550   | ug/kg | D     |
| 3-Nitroaniline               | 99-09-2    | 5        | 556             | 2500            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 5        | 844             | 4990            | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 5        | 352             | 499             | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 5        | 815             | 2500            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 5        | 405             | 2500            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 5        | 364             | 499             | 5090   | ug/kg | D     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 5        | 478             | 1250            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 5        | 492             | 1250            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 5        | 734             | 2500            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 5        | 948             | 4990            | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 5        | 133             | 499             | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 5        | 425             | 499             | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 5        | 336             | 499             | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 5        | 780             | 2500            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 5        | 218             | 499             | 14000  | ug/kg | D     |
| Anthracene                   | 120-12-7   | 5        | 179             | 499             | 4820   | ug/kg | D     |
| Carbazole                    | 86-74-8    | 5        | 107             | 499             | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 5        | 140             | 499             | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 5        | 152             | 499             | 2550   | ug/kg | D     |
| Pyrene                       | 129-00-0   | 5        | 142             | 499             | 10700  | ug/kg | Q, D  |
| Butylbenzylphthalate         | 85-68-7    | 5        | 235             | 499             | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 5        | 149             | 499             | 3560   | ug/kg | D     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 5        | 177             | 2500            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 5        | 151             | 499             | 5620   | ug/kg | D     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 5        | 351             | 1250            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 5        | 110             | 499             | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 5        | 524             | 998             | 2000   | ug/kg | D     |
| Benzo(a)pyrene               | 50-32-8    | 5        | 106             | 499             | 2880   | ug/kg | D     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 5        | 366             | 499             | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 5        | 430             | 499             | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 5        | 339             | 499             | 441    | ug/kg | J, D  |
| 1-Methylnaphthalene          | 90-12-0    | 5        | 131             | 499             | 21700  | ug/kg | D     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 37.4   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 32.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 41.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-21 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/26/2024 19:24

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 65.2     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 55.5     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 92.0     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 52.0     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 73.5     | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1NW-4-031924

24C0437-21 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 11:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/03/2024 00:16

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-21 A 01

Preparation Batch: BMC0691

Sample Size: 10.04 g (wet)

Dry Weight: 8.24 g

Prepared: 03/29/2024

Final Volume: 10 mL

% Solids: 82.10

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 100      | 6070            | 24900  | mg/kg | D     |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 100      | 12100           | 23200  | mg/kg | D     |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        |        | D1    | D1    |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-21RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 01:53

|                     |                                          |                           |                                |
|---------------------|------------------------------------------|---------------------------|--------------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) | Sample Size: 12.2 g (wet) | Extract ID: 24C0437-21RE1 A 02 |
|                     | Preparation Batch: BMC0692               |                           |                                |
|                     | Prepared: 03/29/2024                     |                           |                                |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 5 uL      | Extract ID: 24C0437-21RE1 A 02 |
|                     | Cleanup Batch: CMD0158                   |                           |                                |
|                     | Cleaned: 23-Apr-2024                     |                           |                                |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 25       | 548             | 2500            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 25       | 2410            | 6240            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 25       | 1730            | 2500            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 25       | 391             | 2500            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 25       | 794             | 2500            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 25       | 766             | 2500            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 25       | 2030            | 2500            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 25       | 421             | 2500            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 25       | 831             | 2500            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 25       | 862             | 2500            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 25       | 930             | 2500            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 25       | 922             | 2500            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 25       | 904             | 2500            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 25       | 1190            | 2500            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 25       | 607             | 2500            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 25       | 1110            | 12500           | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 25       | 538             | 2500            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 25       | 1910            | 12500           | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 25       | 1060            | 2500            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 25       | 529             | 2500            | 2740   | ug/kg | D     |
| Benzoic acid                 | 65-85-0    | 25       | 4870            | 25000           | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 25       | 3290            | 12500           | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 25       | 600             | 2500            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 25       | 1550            | 12500           | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 25       | 563             | 2500            | 35900  | ug/kg | D     |
| Hexachlorocyclopentadiene    | 77-47-4    | 25       | 3050            | 12500           | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 25       | 1120            | 12500           | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 25       | 3210            | 12500           | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 25       | 993             | 2500            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 25       | 2050            | 12500           | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 25       | 779             | 2500            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 25       | 548             | 2500            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1NW-4-031924**

**24C0437-21RE1 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 01:53

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 25       | 2560            | 12500           | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 25       | 651             | 2500            | 4640   | ug/kg | D     |
| 3-Nitroaniline               | 99-09-2    | 25       | 2780            | 12500           | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 25       | 4220            | 25000           | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 25       | 1760            | 2500            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 25       | 4070            | 12500           | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 25       | 2020            | 12500           | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 25       | 1820            | 2500            | 5590   | ug/kg | D     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 25       | 2390            | 6240            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 25       | 2460            | 6240            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 25       | 3670            | 12500           | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 25       | 4740            | 25000           | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 25       | 664             | 2500            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 25       | 2120            | 2500            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 25       | 1680            | 2500            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 25       | 3900            | 12500           | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 25       | 1090            | 2500            | 14800  | ug/kg | D     |
| Anthracene                   | 120-12-7   | 25       | 897             | 2500            | 4890   | ug/kg | D     |
| Carbazole                    | 86-74-8    | 25       | 535             | 2500            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 25       | 700             | 2500            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 25       | 760             | 2500            | 3010   | ug/kg | D     |
| Pyrene                       | 129-00-0   | 25       | 709             | 2500            | 12400  | ug/kg | D     |
| Butylbenzylphthalate         | 85-68-7    | 25       | 1170            | 2500            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 25       | 744             | 2500            | 3760   | ug/kg | D     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 25       | 885             | 12500           | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 25       | 756             | 2500            | 5850   | ug/kg | D     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 25       | 1760            | 6240            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 25       | 548             | 2500            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 25       | 2620            | 4990            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 25       | 528             | 2500            | 2600   | ug/kg | D     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 25       | 1830            | 2500            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 25       | 2150            | 2500            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 25       | 1700            | 2500            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 25       | 656             | 2500            | 24100  | ug/kg | D     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 36.0   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 35.3   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 41.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-21RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT14 Analyst: FL

Analyzed: 04/30/2024 01:53

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 86.8     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 62.3     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 110      | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 51.6     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 84.1     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-22 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 10:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 21:45

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-22 B

Preparation Batch: BMC0620

Sample Size: 5.42 g (wet)

Dry Weight: 4.64 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 85.58

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.41            | 1.08            | 0.85   | ug/kg | J     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.36            | 1.08            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.29            | 2.16            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.34            | 2.16            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.05            | 2.16            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 1.89            | 5.39            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.91            | 2.16            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 6.84            | 10.8            | 153    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.40            | 1.08            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.98            | 1.08            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 4.70            | 5.39            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 4.66            | 5.39            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.36            | 1.08            | 0.90   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.57            | 1.08            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 3.51            | 5.39            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.31            | 1.08            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 2.63            | 5.39            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.33            | 1.08            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.28            | 1.08            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.31            | 1.08            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.43            | 1.08            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.64            | 1.08            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.30            | 1.08            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.34            | 1.08            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.25            | 1.08            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.18            | 1.08            | 0.31   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.27            | 1.08            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.36            | 1.08            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.28            | 1.08            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.38            | 1.08            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.25            | 5.39            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.47            | 5.39            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.28            | 1.08            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.27            | 1.08            | 0.30   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.44            | 1.08            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

1NE-4-031924

24C0437-22 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 10:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 21:45

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.37            | 5.39            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.29            | 1.08            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.25            | 1.08            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.21            | 1.08            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.29            | 1.08            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.33            | 1.08            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.22            | 1.08            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.24            | 1.08            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.38            | 1.08            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.53            | 2.16            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.26            | 1.08            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.75            | 2.16            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.27            | 1.08            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.50            | 1.08            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.30            | 1.08            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.61            | 2.16            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 2.97            | 5.39            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.25            | 1.08            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.27            | 1.08            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.28            | 1.08            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.23            | 1.08            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.31            | 1.08            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.27            | 1.08            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.27            | 1.08            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.29            | 1.08            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.26            | 1.08            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.31            | 1.08            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.26            | 1.08            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.46            | 1.08            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.30            | 1.08            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.70            | 1.08            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.54            | 5.39            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 1.96            | 5.39            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 4.50            | 5.39            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 2.65            | 5.39            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.50            | 5.39            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.43            | 1.08            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.27            | 1.08            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1NE-4-031924

24C0437-22 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 10:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 21:45

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.31            | 5.39            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 110    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 103    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 100    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 107    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-22 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 10:30

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 21:47

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BMC0697

Prepared: 04/01/2024

Sample Size: 11.7 g (wet)

Final Volume: 1 mL

Extract ID: 24C0437-22 A 02

Dry Weight: 10.01 g

% Solids: 85.58

Sample Cleanup:

Cleanup Method: GPC

Cleanup Batch: CMD0194

Cleaned: 30-Apr-2024

Initial Volume: 1 uL

Final Volume: 1 uL

Extract ID: 24C0437-22 A 02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.3            | 49.9            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 20.0            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 20.0            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.4             | 20.0            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 20.0            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 20.0            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.7             | 20.0            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 20.0            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 20.0            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.9             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.9            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.9            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 20.0            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 39.0            | 200             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.9            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.9            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 20.0            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.9            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.9            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.9            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 20.0            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.9            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 20.0            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-22 (Solid)

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 10:30

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 21:47

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.5            | 99.9            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 20.0            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.9            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.8            | 200             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 20.0            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.6            | 99.9            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.9            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.9            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 49.9            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.4            | 99.9            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 200             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 20.0            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.5            | 20.0            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.9            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 20.0            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 20.0            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 20.0            | 19.0   | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 20.0            | 25.6   | ug/kg |       |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 6.0             | 20.0            | 9.7    | ug/kg | J     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.9            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.1             | 20.0            | 12.4   | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.1            | 49.9            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 21.0            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 20.0            | 6.4    | ug/kg | J     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 20.0            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 20.0            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 65.4   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 60.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 75.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-22 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 10:30

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 21:47

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 72.6     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 57.3     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 79.7     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 94.2     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 93.3     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-22 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 10:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 17:38

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-22 A 01

Preparation Batch: BMC0693

Sample Size: 10.02 g (wet)

Dry Weight: 8.58 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 85.58

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 5.83            | 11.3   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 11.7            | 29.0   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 96.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 10:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:45

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-23 C

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 6.69   | ug/L  |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.12   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.06   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 10:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:45

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 10:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 14:45

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 107    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 99.2   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 99.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 10:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 18:49

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-23 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 10:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 18:49

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | 1.7    | ug/L  | J, D  |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | 1.6    | ug/L  | J, D  |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | 0.7    | ug/L  | J, D  |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | 0.8    | ug/L  | J, D  |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 46.6   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 35.6   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 70.9   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 67.2   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 81.0   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 85.2   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 10:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 18:49

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 83.5     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 81.8     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-4-031924

24C0437-23 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 10:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 15:42

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-23 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.239  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 109    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-24 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:07

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-24 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | ND     | ug/L  | U     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1NW-4-031924

24C0437-24 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:07

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-24 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:07

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 111    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 96.1   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 96.6   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 102    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-24 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 19:23

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-24 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | 1.5    | ug/L  | J, D  |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-24 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 19:23

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | 0.8    | ug/L  | J, D  |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | 1.2    | ug/L  | J, D  |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 43.6   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 32.4   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 62.5   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 61.3   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 75.2   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 72.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-24 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 19:23

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 68.4     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 68.6     | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-4-031924

24C0437-24 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 11:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 16:02

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-24 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.311  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.730  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 80.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-25 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:09

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-25 B

Preparation Batch: BMC0620

Sample Size: 4.08 g (wet)

Dry Weight: 2.75 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 67.29

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.69            | 1.82            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.61            | 1.82            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.18            | 3.64            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.27            | 3.64            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.78            | 3.64            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 3.19            | 9.11            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.54            | 3.64            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 11.6            | 18.2            | 158    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.68            | 1.82            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.65            | 1.82            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 7.94            | 9.11            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 7.88            | 9.11            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.60            | 1.82            | 1.08   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.96            | 1.82            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 5.92            | 9.11            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.52            | 1.82            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 4.45            | 9.11            | 13.5   | ug/kg |       |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.56            | 1.82            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.47            | 1.82            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.52            | 1.82            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.72            | 1.82            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.09            | 1.82            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.51            | 1.82            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.57            | 1.82            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.43            | 1.82            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.30            | 1.82            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.46            | 1.82            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.60            | 1.82            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.47            | 1.82            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.65            | 1.82            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 5.49            | 9.11            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.49            | 9.11            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.48            | 1.82            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.45            | 1.82            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.75            | 1.82            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-25 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:09

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.32            | 9.11            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.49            | 1.82            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.43            | 1.82            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.36            | 1.82            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.49            | 1.82            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.56            | 1.82            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.38            | 1.82            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.41            | 1.82            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.64            | 1.82            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.90            | 3.64            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.44            | 1.82            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.27            | 3.64            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.45            | 1.82            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.84            | 1.82            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.50            | 1.82            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.73            | 3.64            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 5.01            | 9.11            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.43            | 1.82            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.45            | 1.82            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.48            | 1.82            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.39            | 1.82            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.53            | 1.82            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.46            | 1.82            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.46            | 1.82            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.48            | 1.82            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.44            | 1.82            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.53            | 1.82            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.44            | 1.82            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.78            | 1.82            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.51            | 1.82            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.19            | 1.82            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 4.30            | 9.11            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.31            | 9.11            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 7.60            | 9.11            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 4.49            | 9.11            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 4.23            | 9.11            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.73            | 1.82            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.46            | 1.82            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-25 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:09

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.91            | 9.11            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 112    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 100    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 96.3   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 101    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-25 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:30

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 22:26

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BMC0697

Prepared: 04/01/2024

Sample Size: 14.87 g (wet)

Final Volume: 1 mL

Extract ID: 24C0437-25 A 02

Dry Weight: 10.01 g

% Solids: 67.29

Sample Cleanup:

Cleanup Method: GPC

Cleanup Batch: CMD0194

Cleaned: 30-Apr-2024

Initial Volume: 1 uL

Final Volume: 1 uL

Extract ID: 24C0437-25 A 02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.3            | 50.0            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 20.0            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 20.0            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.4             | 20.0            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.3            | 20.0            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 20.0            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.7             | 20.0            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 20.0            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 20.0            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.9             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.9            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.9            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 20.0            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 20.0            | 9.4    | ug/kg | J     |
| Benzoic acid                 | 65-85-0    | 1        | 39.0            | 200             | 104    | ug/kg | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.9            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.9            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 20.0            | 5.2    | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.9            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.9            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.9            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 8.0             | 20.0            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.9            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 20.0            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

**1NE-8-031924**  
**24C0437-25 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:30

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 22:26

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.5            | 99.9            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 20.0            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.9            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.8            | 200             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 20.0            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.6            | 99.9            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.9            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 50.0            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 50.0            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.4            | 99.9            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 38.0            | 200             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 20.0            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.5            | 20.0            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 99.9            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 20.0            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 20.0            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 20.0            | ND     | ug/kg | U     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 6.0             | 20.0            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.9            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.1            | 50.0            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 21.0            | 40.0            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 20.0            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 20.0            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 54.7   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 51.3   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 65.4   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-25 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:30

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 22:26

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 60.2     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 48.4     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 71.7     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 104      | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 87.2     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-25 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 11:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 17:58

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-25 A 01

Preparation Batch: BMC0693

Sample Size: 10 g (wet)

Dry Weight: 6.73 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 67.29

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 7.43            | ND     | mg/kg | U     |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 14.9            | 120    | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 83.6   | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-26 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:30

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-26 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | ND     | ug/L  | U     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-26 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:30

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-26 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 11:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:30

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 107    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 98.9   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 96.0   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-26 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 19:57

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-26 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | 0.3    | ug/L  | J     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-26 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 19:57

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | 0.8    | ug/L  | J     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | 0.7    | ug/L  | J     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 45.8   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 33.2   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 69.3   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 68.1   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 79.4   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 83.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**1NE-8-031924**

**24C0437-26 (Water)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 11:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 19:57

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 83.6     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 80.3     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NE-8-031924

24C0437-26 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 11:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 17:03

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-26 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.436  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 87.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**DUP01-031924**  
**24C0437-27 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:52

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-27 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 2.92   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**DUP01-031924**  
**24C0437-27 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:52

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**DUP01-031924**  
**24C0437-27 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 15:52

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 112    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 97.3   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 95.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 104    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**DUP01-031924**  
**24C0437-27 (Water)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 20:30

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-27 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | 1.0    | ug/L  | J, D  |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**DUP01-031924**  
**24C0437-27 (Water)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 20:30

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 45.7   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 33.0   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 71.7   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 73.5   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 92.9   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 92.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924

24C0437-27 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 20:30

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 82.3     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 94.0     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**DUP01-031924**  
**24C0437-27 (Water)**

**Petroleum Hydrocarbons**

Method: NWTPH-Dx

Sampled: 03/19/2024 08:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 17:23

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-27 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.333  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.821  | mg/L  |       |
| HC ID: MTORO OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 87.4   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924  
24C0437-28 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:34

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-28 B

Preparation Batch: BMC0620

Sample Size: 3.33 g (wet)

Dry Weight: 2.44 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 73.23

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.78            | 2.05            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.69            | 2.05            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.46            | 4.10            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.55            | 4.10            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 2.00            | 4.10            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 3.59            | 10.3            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.74            | 4.10            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 13.0            | 20.5            | 600    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.76            | 2.05            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.86            | 2.05            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 8.94            | 10.3            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 8.87            | 10.3            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.68            | 2.05            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 1.08            | 2.05            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 6.67            | 10.3            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.58            | 2.05            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 5.01            | 10.3            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.63            | 2.05            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.53            | 2.05            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.59            | 2.05            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.81            | 2.05            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.23            | 2.05            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.58            | 2.05            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.64            | 2.05            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.48            | 2.05            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.34            | 2.05            | 0.54   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.52            | 2.05            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.68            | 2.05            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.53            | 2.05            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.73            | 2.05            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 6.18            | 10.3            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.80            | 10.3            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.54            | 2.05            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.51            | 2.05            | 9.35   | ug/kg |       |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.84            | 2.05            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

DUP01-031924

24C0437-28 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:34

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.61            | 10.3            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.55            | 2.05            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.48            | 2.05            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.41            | 2.05            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.55            | 2.05            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.63            | 2.05            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.42            | 2.05            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.47            | 2.05            | 8.88   | ug/kg |       |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.73            | 2.05            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 1.01            | 4.10            | 31.5   | ug/kg |       |
| o-Xylene                    | 95-47-6     | 1        | 0.49            | 2.05            | 22.9   | ug/kg |       |
| Xylenes, total              | 1330-20-7   | 1        | 1.43            | 4.10            | 54.4   | ug/kg |       |
| Styrene                     | 100-42-5    | 1        | 0.50            | 2.05            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.95            | 2.05            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.56            | 2.05            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 3.07            | 4.10            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 5.64            | 10.3            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.48            | 2.05            | 7.17   | ug/kg |       |
| Bromobenzene                | 108-86-1    | 1        | 0.51            | 2.05            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.54            | 2.05            | 4.11   | ug/kg |       |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.44            | 2.05            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.60            | 2.05            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.51            | 2.05            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.52            | 2.05            | 25.9   | ug/kg |       |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.54            | 2.05            | 85.5   | ug/kg |       |
| s-Butylbenzene              | 135-98-8    | 1        | 0.49            | 2.05            | 4.06   | ug/kg |       |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.59            | 2.05            | 13.1   | ug/kg |       |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.50            | 2.05            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.88            | 2.05            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.57            | 2.05            | 7.28   | ug/kg |       |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.34            | 2.05            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 4.84            | 10.3            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 3.73            | 10.3            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 8.56            | 10.3            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 5.05            | 10.3            | 136    | ug/kg |       |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 4.76            | 10.3            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.83            | 2.05            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.52            | 2.05            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924

24C0437-28 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 08:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:34

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 4.40            | 10.3            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 113    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 101    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 109    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924  
24C0437-28 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 23:05

|                     |                                          |                           |                             |
|---------------------|------------------------------------------|---------------------------|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) | Sample Size: 13.7 g (wet) | Extract ID: 24C0437-28 A 02 |
|                     | Preparation Batch: BMC0697               |                           |                             |
|                     | Prepared: 04/01/2024                     |                           |                             |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 1 uL      | Extract ID: 24C0437-28 A 02 |
|                     | Cleanup Batch: CMD0194                   |                           |                             |
|                     | Cleaned: 30-Apr-2024                     |                           |                             |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.8            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | 91.7   | ug/kg |       |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | 630    | ug/kg |       |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.7            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | 6140   | ug/kg | E     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.7            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 99.7            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.7            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

**DUP01-031924**  
**24C0437-28 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 23:05

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | 1080   | ug/kg |       |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.7            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | 1010   | ug/kg |       |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.8            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.8            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.7            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.7            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | 3270   | ug/kg | E     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | 1030   | ug/kg |       |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | 239    | ug/kg | Q     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 797    | ug/kg |       |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | 3220   | ug/kg | E     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | 1220   | ug/kg |       |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.7            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 1580   | ug/kg |       |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.8            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | 591    | ug/kg |       |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | 72.9   | ug/kg |       |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | 204    | ug/kg |       |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | 4260   | ug/kg | E     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 10.3   | %     | *     |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 9.50   | %     | *     |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 12.2   | %     | *     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924

24C0437-28 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT10 Analyst: FL

Analyzed: 05/02/2024 23:05

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 14.6     | %     | *     |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 25.6     | %     | *     |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 30.5     | %     | *     |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 12.3     | %     | *, Q  |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 20.9     | %     | *     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924

24C0437-28 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 08:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 18:18

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-28 A 01

Preparation Batch: BMC0693

Sample Size: 10.04 g (wet)

Dry Weight: 7.35 g

Prepared: 04/01/2024

Final Volume: 10 mL

% Solids: 73.23

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 100      | 6800            | 22600  | mg/kg | D     |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 100      | 13600           | 26100  | mg/kg | D     |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        |        | D1    | D1    |



CALIBRE

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Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924

24C0437-28RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT17 Analyst: FL

Analyzed: 05/03/2024 16:59

|                     |                                          |                           |                                |
|---------------------|------------------------------------------|---------------------------|--------------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) |                           | Extract ID: 24C0437-28RE1 A 02 |
|                     | Preparation Batch: BMC0697               | Sample Size: 13.7 g (wet) |                                |
|                     | Prepared: 04/01/2024                     | Final Volume: 1 mL        |                                |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 1 uL      | Extract ID:24C0437-28RE1 A 02  |
|                     | Cleanup Batch: CMD0194                   |                           |                                |
|                     | Cleaned: 30-Apr-2024                     |                           |                                |
|                     |                                          | Final Volume: 1 uL        |                                |
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| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 25       | 109             | 498             | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 25       | 481             | 1250            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 25       | 345             | 498             | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 25       | 78.0            | 498             | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 25       | 158             | 498             | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 25       | 153             | 498             | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 25       | 405             | 498             | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 25       | 84.0            | 498             | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 25       | 166             | 498             | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 25       | 172             | 498             | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 25       | 186             | 498             | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 25       | 184             | 498             | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 25       | 180             | 498             | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 25       | 238             | 498             | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 25       | 121             | 498             | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 25       | 222             | 2490            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 25       | 107             | 498             | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 25       | 382             | 2490            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 25       | 212             | 498             | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 25       | 106             | 498             | 699    | ug/kg | D     |
| Benzoic acid                 | 65-85-0    | 25       | 973             | 4980            | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 25       | 656             | 2490            | 1380   | ug/kg | J, D  |
| Hexachlorobutadiene          | 87-68-3    | 25       | 120             | 498             | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 25       | 309             | 2490            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 25       | 112             | 498             | 8050   | ug/kg | D     |
| Hexachlorocyclopentadiene    | 77-47-4    | 25       | 610             | 2490            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 25       | 224             | 2490            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 25       | 642             | 2490            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 25       | 198             | 498             | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 25       | 409             | 2490            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 25       | 155             | 498             | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 25       | 109             | 498             | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

09-May-2024 14:15

Project Manager: Tom McKeon

DUP01-031924

24C0437-28RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT17 Analyst: FL

Analyzed: 05/03/2024 16:59

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 25       | 510             | 2490            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 25       | 130             | 498             | 1060   | ug/kg | D     |
| 3-Nitroaniline               | 99-09-2    | 25       | 555             | 2490            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 25       | 843             | 4980            | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 25       | 352             | 498             | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 25       | 813             | 2490            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 25       | 404             | 2490            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 25       | 363             | 498             | 963    | ug/kg | D     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 25       | 477             | 1250            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 25       | 491             | 1250            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 25       | 733             | 2490            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 25       | 947             | 4980            | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 25       | 133             | 498             | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 25       | 424             | 498             | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 25       | 336             | 498             | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 25       | 779             | 2490            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 25       | 217             | 498             | 3890   | ug/kg | D     |
| Anthracene                   | 120-12-7   | 25       | 179             | 498             | 985    | ug/kg | D     |
| Carbazole                    | 86-74-8    | 25       | 107             | 498             | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 25       | 140             | 498             | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 25       | 152             | 498             | 635    | ug/kg | D     |
| Pyrene                       | 129-00-0   | 25       | 142             | 498             | 3570   | ug/kg | D     |
| Butylbenzylphthalate         | 85-68-7    | 25       | 234             | 498             | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 25       | 149             | 498             | 1240   | ug/kg | D     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 25       | 177             | 2490            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 25       | 151             | 498             | 1750   | ug/kg | D     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 25       | 351             | 1250            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 25       | 109             | 498             | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 25       | 523             | 997             | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 25       | 105             | 498             | 569    | ug/kg | D     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 25       | 365             | 498             | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 25       | 429             | 498             | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 25       | 339             | 498             | 539    | ug/kg | D     |
| 1-Methylnaphthalene          | 90-12-0    | 25       | 131             | 498             | 5500   | ug/kg | D     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        |        | D1    | D1    |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        |        | D1    | D1    |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        |        | D1    | D1    |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

DUP01-031924

24C0437-28RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 08:00

Instrument: NT17 Analyst: FL

Analyzed: 05/03/2024 16:59

| Analyte                           | CAS Number | Recovery |          | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   | Recovery |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % |          | DI    | D1    |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % |          | DI    | D1    |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % |          | DI    | D1    |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % |          | DI    | D1    |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % |          | DI    | D1    |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 13:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:14

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-29 C

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 5.87   | ug/L  |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.05   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 13:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:14

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 13:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:14

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 111    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 99.5   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.5   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 103    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 13:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 21:04

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-29 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |



CALIBRE

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Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 13:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 21:04

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | 1.3    | ug/L  | J, D  |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 46.3   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 37.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 60.0   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 48.9   | %     | *     |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 62.4   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 60.2   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 13:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 21:04

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 67.6     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 70.4     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-29 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 13:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 17:44

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-29 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.147  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.375  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 82.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924  
24C0437-30 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 12:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:58

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-30 B

Preparation Batch: BMC0620

Sample Size: 5.15 g (wet)

Dry Weight: 2.13 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 41.38

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.89            | 2.35            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.79            | 2.35            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 2.81            | 4.69            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 2.92            | 4.69            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 2.29            | 4.69            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 4.11            | 11.7            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.99            | 4.69            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 14.9            | 23.5            | 484    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.87            | 2.35            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 2.12            | 2.35            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 10.2            | 11.7            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 10.1            | 11.7            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.78            | 2.35            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 1.23            | 2.35            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 7.63            | 11.7            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.66            | 2.35            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 5.73            | 11.7            | 6.32   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.72            | 2.35            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.60            | 2.35            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.68            | 2.35            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.93            | 2.35            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 1.40            | 2.35            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.66            | 2.35            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.73            | 2.35            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.55            | 2.35            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.39            | 2.35            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.60            | 2.35            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.78            | 2.35            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.60            | 2.35            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.84            | 2.35            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 7.07            | 11.7            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 3.20            | 11.7            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.61            | 2.35            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.58            | 2.35            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.96            | 2.35            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1NW-8-031924**

**24C0437-30 (Solid)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 12:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:58

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.98            | 11.7            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.63            | 2.35            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.55            | 2.35            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.46            | 2.35            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.63            | 2.35            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.72            | 2.35            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.49            | 2.35            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.53            | 2.35            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.83            | 2.35            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 1.16            | 4.69            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.56            | 2.35            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.64            | 4.69            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.58            | 2.35            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 1.08            | 2.35            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.64            | 2.35            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 3.51            | 4.69            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 6.46            | 11.7            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.55            | 2.35            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.58            | 2.35            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.61            | 2.35            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.51            | 2.35            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.69            | 2.35            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.59            | 2.35            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.59            | 2.35            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.62            | 2.35            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.57            | 2.35            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.68            | 2.35            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.57            | 2.35            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 1.01            | 2.35            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.66            | 2.35            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 1.53            | 2.35            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 5.54            | 11.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 4.27            | 11.7            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 9.79            | 11.7            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 5.78            | 11.7            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 5.45            | 11.7            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.95            | 2.35            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.60            | 2.35            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924

24C0437-30 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 12:30

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 22:58

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 5.04            | 11.7            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 109    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 103    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 107    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924  
24C0437-30 (Solid)

### Semivolatile Organic Compounds

|                              |                                          |                            |                             |
|------------------------------|------------------------------------------|----------------------------|-----------------------------|
| Method: EPA 8270E            |                                          |                            | Sampled: 03/19/2024 12:30   |
| Instrument: NT10 Analyst: FL |                                          |                            | Analyzed: 05/03/2024 00:23  |
| Sample Preparation:          | Preparation Method: EPA 3546 (Microwave) |                            | Extract ID: 24C0437-30 A 02 |
|                              | Preparation Batch: BMC0697               | Sample Size: 24.25 g (wet) | Dry Weight:10.03 g          |
|                              | Prepared: 04/01/2024                     | Final Volume: 1 mL         | % Solids: 41.38             |
| Sample Cleanup:              | Cleanup Method: GPC                      |                            | Extract ID:24C0437-30 A 02  |
|                              | Cleanup Batch: CMD0194                   | Initial Volume: 1 uL       |                             |
|                              | Cleaned: 30-Apr-2024                     | Final Volume: 1 uL         |                             |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | 46.8   | ug/kg |       |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.8            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | 43.5   | ug/kg |       |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | 5.3    | ug/kg | J     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | 531    | ug/kg |       |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.7            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | 23.3   | ug/kg |       |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.7            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.7            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1NW-8-031924**  
**24C0437-30 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 12:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 00:23

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.7            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.8            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.8            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.7            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.7            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | 13.1   | ug/kg | J     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | 8.8    | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.7            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.8            | 21.1   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | 14.3   | ug/kg | J     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 58.4   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 57.2   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 69.3   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924

24C0437-30 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 12:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 00:23

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 63.6     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 51.1     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 72.8     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 97.9     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 89.3     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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1NW-8-031924

24C0437-30 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 12:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 18:38

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-30 A 01

Preparation Batch: BMC0693

Sample Size: 10.01 g (wet)

Dry Weight: 4.14 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 41.38

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 12.1            | 24.2   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 24.1            | 492    | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 69.6   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924

24C0437-31 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 12:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:36

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-31 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 2.11   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.05   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**1NW-8-031924**

**24C0437-31 (Water)**

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 12:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:36

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | 0.10   | ug/L  | J     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | 0.08   | ug/L  | J     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924

24C0437-31 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 12:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:36

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 103    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 98.8   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 99.5   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 106    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

1NW-8-031924

24C0437-31 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 12:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 21:37

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-31 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 3        | 1.5             | 6.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 3        | 0.7             | 6.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 3        | 0.8             | 6.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 3        | 2.3             | 3.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 3        | 0.6             | 9.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 3        | 3.0             | 9.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 3        | 2.6             | 9.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 3        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 3        | 4.5             | 60.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 3        | 2.7             | 15.0            | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 3        | 3.3             | 9.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 3        | 0.7             | 9.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 3        | 2.7             | 9.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 3        | 3.4             | 9.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 3        | 3.0             | 15.0            | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 3        | 0.6             | 3.0             | 0.7    | ug/L  | J, D  |
| 3-Nitroaniline               | 99-09-2    | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 3        | 0.6             | 3.0             | 3.8    | ug/L  | D     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924

24C0437-31 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 12:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 21:37

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 3        | 5.0             | 60.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 3        | 2.1             | 30.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 3        | 3.1             | 9.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 3        | 0.6             | 3.0             | 0.7    | ug/L  | J, D  |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 3        | 0.6             | 3.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 3        | 3.5             | 9.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 3        | 7.1             | 30.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 3        | 3.6             | 30.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 3        | 0.6             | 3.0             | 1.8    | ug/L  | J, D  |
| Anthracene                        | 120-12-7   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 3        | 1.0             | 3.0             | 1.5    | ug/L  | J, D  |
| Butylbenzylphthalate              | 85-68-7    | 3        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 3        | 0.7             | 3.0             | 0.8    | ug/L  | J, D  |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 3        | 7.6             | 15.0            | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 3        | 0.6             | 3.0             | 1.1    | ug/L  | J, D  |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 3        | 1.0             | 9.0             | ND     | ug/L  | U     |
| Di-n-Octylphthalate               | 117-84-0   | 3        | 0.8             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 3        | 0.7             | 3.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 3        | 1.6             | 3.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 3        | 1.4             | 3.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 3        | 1.1             | 6.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 3        | 0.8             | 3.0             | 3.4    | ug/L  | D     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 36.7   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 28.3   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 52.2   | %     | *     |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 45.4   | %     | *     |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 60.3   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 56.4   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

1NW-8-031924

24C0437-31 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 12:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/15/2024 21:37

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 61.2     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 61.5     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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**1NW-8-031924**  
**24C0437-31 (Water)**

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 12:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 18:04

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-31 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 2.86   | mg/L  |       |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 3.24   | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 15.8   | %     | *     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-32 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 23:23

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-32 B

Preparation Batch: BMC0620

Sample Size: 4.22 g (wet)

Dry Weight: 3.32 g

Prepared: 03/22/2024

Final Volume: 5 mL

% Solids: 78.73

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.57            | 1.50            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.51            | 1.50            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.80            | 3.01            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.87            | 3.01            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.47            | 3.01            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.64            | 7.52            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.28            | 3.01            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 9.55            | 15.0            | 102    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.56            | 1.50            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.36            | 1.50            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 6.56            | 7.52            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 6.51            | 7.52            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.50            | 1.50            | 0.96   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.79            | 1.50            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 4.90            | 7.52            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.43            | 1.50            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.67            | 7.52            | 7.23   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.46            | 1.50            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.39            | 1.50            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.43            | 1.50            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.59            | 1.50            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.90            | 1.50            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.42            | 1.50            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.47            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.35            | 1.50            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.25            | 1.50            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.50            | 1.50            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.39            | 1.50            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.54            | 1.50            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 4.54            | 7.52            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.05            | 7.52            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.39            | 1.50            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.62            | 1.50            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2W-8-031924

24C0437-32 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 23:23

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.91            | 7.52            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.40            | 1.50            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.35            | 1.50            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.30            | 1.50            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.40            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.46            | 1.50            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.31            | 1.50            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.34            | 1.50            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.53            | 1.50            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.74            | 3.01            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.36            | 1.50            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.05            | 3.01            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.70            | 1.50            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.41            | 1.50            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.25            | 3.01            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 4.14            | 7.52            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.36            | 1.50            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.39            | 1.50            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.33            | 1.50            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.44            | 1.50            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.40            | 1.50            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.36            | 1.50            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.44            | 1.50            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.65            | 1.50            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.42            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.98            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 3.55            | 7.52            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.74            | 7.52            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 6.28            | 7.52            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.71            | 7.52            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 3.50            | 7.52            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.61            | 1.50            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-32 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:00

Instrument: NT5 Analyst: PKC

Analyzed: 03/22/2024 23:23

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.23            | 7.52            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 107    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 98.6   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 103    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 105    | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-32 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:00

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 01:02

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Preparation Batch: BMC0697

Prepared: 04/01/2024

Sample Size: 12.77 g (wet)

Final Volume: 1 mL

Extract ID: 24C0437-32 A 02

Dry Weight: 10.05 g

% Solids: 78.73

Sample Cleanup:

Cleanup Method: GPC

Cleanup Batch: CMD0194

Cleaned: 30-Apr-2024

Initial Volume: 1 uL

Final Volume: 1 uL

Extract ID: 24C0437-32 A 02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.7            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.5            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.2            | 99.5            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 38.8            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.5            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.3            | 99.5            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.3            | 99.5            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.5            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.6            | 99.5            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.3            | 99.5            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

Project Manager: Tom McKeon

**2W-8-031924**

**24C0437-32 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:00

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 01:02

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.5            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.1            | 99.5            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.6            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.0            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.5            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.1            | 99.5            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.0            | 49.7            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.7            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.5            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.8            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 16.9            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.5            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Pyrene                       | 129-00-0   | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.5            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | ND     | ug/kg | U     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.7            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.8            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.1            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 56.6   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 52.5   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 66.5   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-32 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:00

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 01:02

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 62.5     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 48.7     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 68.1     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 94.6     | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 90.0     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-32 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 14:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 18:59

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-32 A 01

Preparation Batch: BMC0693

Sample Size: 10.02 g (wet)

Dry Weight: 7.89 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 78.73

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 6.34            | 7.01   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 12.7            | 30.3   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 91.4   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-33 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:58

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-33 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 2.87   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | 0.08   | ug/L  | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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2W-8-031924

24C0437-33 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:58

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-33 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 16:58

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 110    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 100    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 100    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 106    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-33 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/11/2024 21:51

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-33 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-33 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/11/2024 21:51

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | 0.6    | ug/L  | J     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 49.0   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 33.9   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 75.8   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 77.9   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 88.3   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 89.2   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-33 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:00

Instrument: NT6 Analyst: JZ

Analyzed: 04/11/2024 21:51

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 89.0     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 93.3     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-8-031924

24C0437-33 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 14:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 18:24

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-33 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.124  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | ND     | mg/L  | U     |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 99.8   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924  
24C0437-34 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:30

Instrument: NT5 Analyst: LH

Analyzed: 03/27/2024 18:19

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-34 B

Preparation Batch: BMC0730

Sample Size: 4.62 g (wet)

Dry Weight: 4.01 g

Prepared: 03/27/2024

Final Volume: 5 mL

% Solids: 86.72

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.47            | 1.25            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.42            | 1.25            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.50            | 2.50            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.55            | 2.50            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.22            | 2.50            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.19            | 6.24            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.06            | 2.50            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 7.92            | 12.5            | 281    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.46            | 1.25            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.13            | 1.25            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.44            | 6.24            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 5.40            | 6.24            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.41            | 1.25            | ND     | ug/kg | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.66            | 1.25            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 4.06            | 6.24            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.35            | 1.25            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.05            | 6.24            | 8.42   | ug/kg |       |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.38            | 1.25            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.32            | 1.25            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.36            | 1.25            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.49            | 1.25            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.75            | 1.25            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.35            | 1.25            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.39            | 1.25            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.29            | 1.25            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.21            | 1.25            | 0.32   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.32            | 1.25            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.41            | 1.25            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.32            | 1.25            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.44            | 1.25            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.76            | 6.24            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.70            | 6.24            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.33            | 1.25            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.31            | 1.25            | 0.96   | ug/kg | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.51            | 1.25            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

-

Project Manager: Tom McKeon

09-May-2024 14:15

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2NW-4-031924

24C0437-34 (Solid)

## Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:30

Instrument: NT5 Analyst: LH

Analyzed: 03/27/2024 18:19

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.59            | 6.24            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.33            | 1.25            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.29            | 1.25            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.25            | 1.25            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.33            | 1.25            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.38            | 1.25            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.26            | 1.25            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.28            | 1.25            | 1.32   | ug/kg |       |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.44            | 1.25            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.62            | 2.50            | 5.36   | ug/kg |       |
| o-Xylene                    | 95-47-6     | 1        | 0.30            | 1.25            | 4.68   | ug/kg |       |
| Xylenes, total              | 1330-20-7   | 1        | 0.87            | 2.50            | 10.0   | ug/kg |       |
| Styrene                     | 100-42-5    | 1        | 0.31            | 1.25            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.58            | 1.25            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.34            | 1.25            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.87            | 2.50            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.44            | 6.24            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.29            | 1.25            | 1.39   | ug/kg |       |
| Bromobenzene                | 108-86-1    | 1        | 0.31            | 1.25            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.33            | 1.25            | 0.89   | ug/kg | J     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.27            | 1.25            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.36            | 1.25            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.31            | 1.25            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.32            | 1.25            | 5.50   | ug/kg |       |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.33            | 1.25            | 12.4   | ug/kg |       |
| s-Butylbenzene              | 135-98-8    | 1        | 0.30            | 1.25            | 1.37   | ug/kg |       |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.36            | 1.25            | 4.40   | ug/kg |       |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.30            | 1.25            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.54            | 1.25            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.35            | 1.25            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.81            | 1.25            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.95            | 6.24            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.27            | 6.24            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 5.21            | 6.24            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.07            | 6.24            | 20.2   | ug/kg |       |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.90            | 6.24            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.50            | 1.25            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.32            | 1.25            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924

24C0437-34 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 14:30

Instrument: NT5 Analyst: LH

Analyzed: 03/27/2024 18:19

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.68            | 6.24            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 110    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 106    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 99.7   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 116    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924

24C0437-34 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 01:40

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-34 A 02

Preparation Batch: BMC0697

Sample Size: 11.6 g (wet)

Dry Weight: 10.06 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 86.72

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-34 A 02

Cleanup Batch: CMD0194

Initial Volume: 1 uL

Cleaned: 30-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.7            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.3             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.4            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.2            | 99.4            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | 142    | ug/kg |       |
| Benzoic acid                 | 65-85-0    | 1        | 38.8            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.4            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.3            | 99.4            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | 921    | ug/kg |       |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.3            | 99.4            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.4            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.6            | 99.4            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.3            | 99.4            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

09-May-2024 14:15

2NW-4-031924  
24C0437-34 (Solid)

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 01:40

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.4            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | 203    | ug/kg |       |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.1            | 99.4            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.6            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.0            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.4            | 99.4            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.1            | 99.4            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | 330    | ug/kg |       |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.0            | 49.7            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.7            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.2            | 99.4            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.8            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 16.9            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.4            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | 853    | ug/kg |       |
| Anthracene                   | 120-12-7   | 1        | 7.1             | 19.9            | 295    | ug/kg |       |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 233    | ug/kg |       |
| Pyrene                       | 129-00-0   | 1        | 5.6             | 19.9            | 856    | ug/kg |       |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | 198    | ug/kg |       |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.0             | 99.4            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 425    | ug/kg |       |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.7            | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.8            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | 120    | ug/kg |       |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.1            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | 32.2   | ug/kg |       |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | 734    | ug/kg |       |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 10.5   | %     | *     |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 9.39   | %     | *     |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 12.5   | %     | *     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924

24C0437-34 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 01:40

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 12.8     | %     | *     |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 16.4     | %     | *     |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 19.7     | %     | *     |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 13.3     | %     | *, Q  |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 22.5     | %     | *     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924

24C0437-34 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 14:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 19:19

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-34 A 01

Preparation Batch: BMC0693

Sample Size: 10.07 g (wet)

Dry Weight: 8.73 g

Prepared: 04/01/2024

Final Volume: 10 mL

% Solids: 86.72

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 5        | 286             | 6860   | mg/kg | D     |
| HC ID: DIESEL                      |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 5        | 573             | 9310   | mg/kg | D     |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 75.6   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924

24C0437-34RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:30

Instrument: NT17 Analyst: FL

Analyzed: 05/03/2024 16:21

|                     |                                          |                           |                                |
|---------------------|------------------------------------------|---------------------------|--------------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) | Sample Size: 11.6 g (wet) | Extract ID: 24C0437-34RE1 A 02 |
|                     | Preparation Batch: BMC0697               |                           |                                |
|                     | Prepared: 04/01/2024                     |                           |                                |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 1 uL      | Extract ID: 24C0437-34RE1 A 02 |
|                     | Cleanup Batch: CMD0194                   |                           |                                |
|                     | Cleaned: 30-Apr-2024                     |                           |                                |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 20       | 87.3            | 398             | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 20       | 384             | 994             | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 20       | 275             | 398             | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 20       | 62.2            | 398             | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 20       | 126             | 398             | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 20       | 122             | 398             | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 20       | 323             | 398             | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 20       | 67.0            | 398             | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 20       | 132             | 398             | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 20       | 137             | 398             | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 20       | 148             | 398             | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 20       | 147             | 398             | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 20       | 144             | 398             | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 20       | 190             | 398             | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 20       | 96.6            | 398             | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 20       | 177             | 1990            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 20       | 85.7            | 398             | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 20       | 305             | 1990            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 20       | 169             | 398             | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 20       | 84.3            | 398             | 159    | ug/kg | J, D  |
| Benzoic acid                 | 65-85-0    | 20       | 776             | 3980            | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 20       | 524             | 1990            | 764    | ug/kg | J, D  |
| Hexachlorobutadiene          | 87-68-3    | 20       | 95.6            | 398             | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 20       | 247             | 1990            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 20       | 89.7            | 398             | 941    | ug/kg | D     |
| Hexachlorocyclopentadiene    | 77-47-4    | 20       | 486             | 1990            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 20       | 179             | 1990            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 20       | 512             | 1990            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 20       | 158             | 398             | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 20       | 326             | 1990            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 20       | 124             | 398             | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 20       | 87.3            | 398             | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2NW-4-031924**

**24C0437-34RE1 (Solid)**

## Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:30

Instrument: NT17 Analyst: FL

Analyzed: 05/03/2024 16:21

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 20       | 407             | 1990            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 20       | 104             | 398             | 137    | ug/kg | J, D  |
| 3-Nitroaniline               | 99-09-2    | 20       | 443             | 1990            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 20       | 672             | 3980            | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 20       | 281             | 398             | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 20       | 649             | 1990            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 20       | 322             | 1990            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 20       | 290             | 398             | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 20       | 381             | 994             | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 20       | 392             | 994             | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 20       | 585             | 1990            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 20       | 755             | 3980            | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 20       | 106             | 398             | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 20       | 338             | 398             | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 20       | 268             | 398             | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 20       | 621             | 1990            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 20       | 173             | 398             | 867    | ug/kg | D     |
| Anthracene                   | 120-12-7   | 20       | 143             | 398             | 176    | ug/kg | J, D  |
| Carbazole                    | 86-74-8    | 20       | 85.3            | 398             | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 20       | 112             | 398             | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 20       | 121             | 398             | 133    | ug/kg | J, D  |
| Pyrene                       | 129-00-0   | 20       | 113             | 398             | 755    | ug/kg | D     |
| Butylbenzylphthalate         | 85-68-7    | 20       | 187             | 398             | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 20       | 118             | 398             | 223    | ug/kg | J, D  |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 20       | 141             | 1990            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 20       | 120             | 398             | 439    | ug/kg | D     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 20       | 280             | 994             | ND     | ug/kg | U     |
| Di-n-Octylphthalate          | 117-84-0   | 20       | 87.3            | 398             | ND     | ug/kg | U     |
| Benzofluoranthenes, Total    |            | 20       | 417             | 795             | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 20       | 84.1            | 398             | 99.6   | ug/kg | J, D  |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 20       | 291             | 398             | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 20       | 343             | 398             | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 20       | 270             | 398             | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 20       | 105             | 398             | 767    | ug/kg | D     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        |        | D1    | D1    |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        |        | D1    | D1    |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        |        | D1    | D1    |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-4-031924

24C0437-34RE1 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 14:30

Instrument: NT17 Analyst: FL

Analyzed: 05/03/2024 16:21

| Analyte                           | CAS Number | Recovery |          | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   | Recovery |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % |          | DI    | D1    |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % |          | DI    | D1    |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % |          | DI    | D1    |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % |          | DI    | D1    |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % |          | DI    | D1    |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924  
24C0437-35 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 15:30

Instrument: NT5 Analyst: LH

Analyzed: 03/28/2024 09:10

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-35 C

Preparation Batch: BMC0750

Sample Size: 5.29 g (wet)

Dry Weight: 3.34 g

Prepared: 03/28/2024

Final Volume: 5 mL

% Solids: 63.18

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.57            | 1.50            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.50            | 1.50            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.79            | 2.99            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.86            | 2.99            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.46            | 2.99            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.62            | 7.48            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.27            | 2.99            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 9.49            | 15.0            | 124    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.56            | 1.50            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.35            | 1.50            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 6.52            | 7.48            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 6.47            | 7.48            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.50            | 1.50            | 0.94   | ug/kg | J     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.79            | 1.50            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 4.87            | 7.48            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.42            | 1.50            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 3.65            | 7.48            | ND     | ug/kg | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.46            | 1.50            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.43            | 1.50            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.59            | 1.50            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.89            | 1.50            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.42            | 1.50            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.47            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.35            | 1.50            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.25            | 1.50            | ND     | ug/kg | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.50            | 1.50            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.53            | 1.50            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 4.51            | 7.48            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 2.04            | 7.48            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.39            | 1.50            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.61            | 1.50            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2NW-8-031924  
24C0437-35 (Solid)

## Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 15:30

Instrument: NT5 Analyst: LH

Analyzed: 03/28/2024 09:10

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.90            | 7.48            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.40            | 1.50            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.35            | 1.50            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.30            | 1.50            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.40            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.46            | 1.50            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.31            | 1.50            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.34            | 1.50            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.53            | 1.50            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.74            | 2.99            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.36            | 1.50            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 1.04            | 2.99            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.69            | 1.50            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.41            | 1.50            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 2.24            | 2.99            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 4.12            | 7.48            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.35            | 1.50            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.39            | 1.50            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.32            | 1.50            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.44            | 1.50            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.40            | 1.50            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.36            | 1.50            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.43            | 1.50            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.37            | 1.50            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.64            | 1.50            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.42            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.98            | 1.50            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 3.53            | 7.48            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.72            | 7.48            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 6.24            | 7.48            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 3.68            | 7.48            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 3.48            | 7.48            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.60            | 1.50            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.38            | 1.50            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924

24C0437-35 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 15:30

Instrument: NT5 Analyst: LH

Analyzed: 03/28/2024 09:10

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 3.21            | 7.48            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 99.8   | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 103    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 101    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 104    | %     |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924  
24C0437-35 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 15:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 02:19

|                     |                                          |                            |                             |
|---------------------|------------------------------------------|----------------------------|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3546 (Microwave) |                            | Extract ID: 24C0437-35 A 02 |
|                     | Preparation Batch: BMC0697               | Sample Size: 15.83 g (wet) |                             |
|                     | Prepared: 04/01/2024                     | Final Volume: 1 mL         |                             |
| Sample Cleanup:     | Cleanup Method: GPC                      | Initial Volume: 1 uL       | Extract ID:24C0437-35 A 02  |
|                     | Cleanup Batch: CMD0194                   |                            |                             |
|                     | Cleaned: 30-Apr-2024                     |                            |                             |
|                     |                                          | Final Volume: 1 uL         |                             |
|                     |                                          |                            | % Solids: 63.18             |
|                     |                                          |                            |                             |

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.3            | 50.0            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 20.0            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 20.0            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.4             | 20.0            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 20.0            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.3            | 20.0            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 20.0            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.7             | 20.0            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 20.0            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 20.0            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 20.0            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.9             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 100             | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 100             | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 20.0            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 39.0            | 200             | 84.7   | ug/kg | J     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.3            | 100             | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 20.0            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 100             | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 20.0            | 6.1    | ug/kg | J     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.5            | 100             | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 9.0             | 100             | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 100             | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 8.0             | 20.0            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 100             | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 20.0            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

**Reported:**

09-May-2024 14:15

**2NW-8-031924**  
**24C0437-35 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 15:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 02:19

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.5            | 100             | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 20.0            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.3            | 100             | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.8            | 200             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 20.0            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.6            | 100             | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 100             | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 50.0            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.7            | 50.0            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.4            | 100             | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 38.0            | 200             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 20.0            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.5            | 20.0            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.2            | 100             | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 20.0            | 12.7   | ug/kg | J     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 20.0            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 20.0            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 20.0            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 20.0            | 10.9   | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 20.0            | 11.6   | ug/kg | J     |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 6.0             | 20.0            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 100             | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.1             | 20.0            | 8.2    | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.1            | 50.0            | 18.1   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 20.0            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 21.0            | 40.0            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 20.0            | ND     | ug/kg | U     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 20.0            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 20.0            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.6            | 20.0            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.3             | 20.0            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 56.7   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 54.9   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 70.0   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924

24C0437-35 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 15:30

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 02:19

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 66.4     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 51.8     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 73.2     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 102      | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 88.8     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2NW-8-031924

24C0437-35 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 15:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 19:39

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-35 A 01

Preparation Batch: BMC0693

Sample Size: 10.07 g (wet)

Dry Weight: 6.36 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 63.18

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 7.86            | ND     | mg/kg | U     |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 15.7            | 107    | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 86.0   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924  
24C0437-36 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 15:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 17:21

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-36 E

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | 3.55   | ug/L  | J     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | 0.05   | ug/L  | J     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924

24C0437-36 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 15:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 17:21

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | 0.10   | ug/L  | J     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | 0.33   | ug/L  |       |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | 1.46   | ug/L  |       |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924

24C0437-36 (Water)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 15:30

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 17:21

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 106    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 96.9   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 96.7   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 104    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924  
24C0437-36 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 15:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/11/2024 22:25

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-36 A 01

Preparation Batch: BMC0562

Sample Size: 500 mL

Prepared: 03/22/2024

Final Volume: 0.5 mL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Benzyl alcohol               | 100-51-6   | 1        | 0.5             | 2.0             | ND     | ug/L  | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Hexachloroethane             | 67-72-1    | 1        | 0.2             | 2.0             | ND     | ug/L  | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 0.3             | 2.0             | ND     | ug/L  | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Isophorone                   | 78-59-1    | 1        | 0.8             | 1.0             | ND     | ug/L  | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Naphthalene                  | 91-20-3    | 1        | 0.3             | 1.0             | 1.0    | ug/L  | J     |
| Benzoic acid                 | 65-85-0    | 1        | 1.5             | 20.0            | ND     | ug/L  | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 0.9             | 5.0             | ND     | ug/L  | U     |
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 0.2             | 3.0             | ND     | ug/L  | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 0.9             | 3.0             | ND     | ug/L  | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 1.1             | 3.0             | ND     | ug/L  | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 1.0             | 5.0             | ND     | ug/L  | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| Acenaphthylene               | 208-96-8   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Acenaphthene                 | 83-32-9    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924  
24C0437-36 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 15:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/11/2024 22:25

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,4-Dinitrophenol                 | 51-28-5    | 1        | 1.7             | 20.0            | ND     | ug/L  | U     |
| Dibenzofuran                      | 132-64-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Nitrophenol                     | 100-02-7   | 1        | 0.7             | 10.0            | ND     | ug/L  | U     |
| 2,4-Dinitrotoluene                | 121-14-2   | 1        | 1.0             | 3.0             | ND     | ug/L  | U     |
| Fluorene                          | 86-73-7    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Chlorophenylphenyl ether        | 7005-72-3  | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Diethyl phthalate                 | 84-66-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| 4-Nitroaniline                    | 100-01-6   | 1        | 1.2             | 3.0             | ND     | ug/L  | U     |
| 4,6-Dinitro-2-methylphenol        | 534-52-1   | 1        | 2.4             | 10.0            | ND     | ug/L  | U     |
| N-Nitrosodiphenylamine            | 86-30-6    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 4-Bromophenyl phenyl ether        | 101-55-3   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Hexachlorobenzene                 | 118-74-1   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pentachlorophenol                 | 87-86-5    | 1        | 1.2             | 10.0            | ND     | ug/L  | U     |
| Phenanthrene                      | 85-01-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Anthracene                        | 120-12-7   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Carbazole                         | 86-74-8    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Di-n-butylphthalate               | 84-74-2    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Fluoranthene                      | 206-44-0   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Pyrene                            | 129-00-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Butylbenzylphthalate              | 85-68-7    | 1        | 0.4             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)anthracene                | 56-55-3    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| 3,3'-Dichlorobenzidine            | 91-94-1    | 1        | 2.5             | 5.0             | ND     | ug/L  | U     |
| Chrysene                          | 218-01-9   | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| bis(2-Ethylhexyl)phthalate        | 117-81-7   | 1        | 0.3             | 3.0             | 0.5    | ug/L  | J     |
| Di-n-Octylphthalate               | 117-84-0   | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)pyrene                    | 50-32-8    | 1        | 0.2             | 1.0             | ND     | ug/L  | U     |
| Indeno(1,2,3-cd)pyrene            | 193-39-5   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Dibenzo(a,h)anthracene            | 53-70-3    | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(g,h,i)perylene              | 191-24-2   | 1        | 0.5             | 1.0             | ND     | ug/L  | U     |
| Benzo(a)fluoranthene, Total       |            | 1        | 0.4             | 2.0             | ND     | ug/L  | U     |
| 1-Methylnaphthalene               | 90-12-0    | 1        | 0.3             | 1.0             | ND     | ug/L  | U     |
| Surrogate: 2-Fluorophenol         |            |          |                 | 32.5-120 %      | 39.2   | %     |       |
| Surrogate: Phenol-d5              |            |          |                 | 17.8-120 %      | 29.0   | %     |       |
| Surrogate: 2-Chlorophenol-d4      |            |          |                 | 55-120 %        | 56.9   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 49.3-120 %      | 56.0   | %     |       |
| Surrogate: Nitrobenzene-d5        |            |          |                 | 56.1-120 %      | 65.4   | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            |          |                 | 54.4-120 %      | 67.6   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924

24C0437-36 (Water)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 15:30

Instrument: NT6 Analyst: JZ

Analyzed: 04/11/2024 22:25

| Analyte                         | CAS Number | Recovery   | Recovery | Units | Notes |
|---------------------------------|------------|------------|----------|-------|-------|
|                                 |            | Limits     |          |       |       |
| Surrogate: 2,4,6-Tribromophenol |            | 49.3-128 % | 73.7     | %     |       |
| Surrogate: p-Terphenyl-d14      |            | 60-120 %   | 76.4     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2NW-8-031924

24C0437-36 (Water)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 15:30

Instrument: FID4 Analyst: NRB

Analyzed: 04/12/2024 18:45

Sample Preparation:

Preparation Method: EPA 3510C SepF

Extract ID: 24C0437-36 B 01

Preparation Batch: BMC0564

Sample Size: 500 mL

Prepared: 03/25/2024

Final Volume: 1 mL

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 0.100           | 0.463  | mg/L  |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 0.200           | 0.571  | mg/L  |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 89.7   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**TRIP BLANK**  
**24C0437-37 (Water)**

**Volatile Organic Compounds**

Method: EPA 8260D

Sampled: 03/18/2024 10:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 12:03

Sample Preparation:

Preparation Method: EPA 5030C (Purge and Trap)

Extract ID: 24C0437-37 A

Preparation Batch: BMC0646

Sample Size: 10 mL

Prepared: 03/25/2024

Final Volume: 10 mL

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Bromomethane                          | 74-83-9    | 1        | 0.23            | 1.00            | ND     | ug/L  | U     |
| Chloroethane                          | 75-00-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Acrolein                              | 107-02-8   | 1        | 2.70            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| Acetone                               | 67-64-1    | 1        | 1.91            | 5.00            | ND     | ug/L  | U     |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Iodomethane                           | 74-88-4    | 1        | 0.15            | 1.00            | ND     | ug/L  | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 0.53            | 1.00            | ND     | ug/L  | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 0.40            | 1.00            | ND     | ug/L  | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 0.12            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.04            | 0.20            | ND     | ug/L  | U     |
| 2-Butanone                            | 78-93-3    | 1        | 1.77            | 5.00            | ND     | ug/L  | U     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.11            | 0.20            | ND     | ug/L  | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Chloroform                            | 67-66-3    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Benzene                               | 71-43-2    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| Trichloroethene                       | 79-01-6    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 0.55            | 1.00            | ND     | ug/L  | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.90            | 5.00            | ND     | ug/L  | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Toluene                               | 108-88-3   | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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**TRIP BLANK**  
**24C0437-37 (Water)**

**Volatile Organic Compounds**

Method: EPA 8260D

Sampled: 03/18/2024 10:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 12:03

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 2.06            | 5.00            | ND     | ug/L  | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.14            | 0.40            | ND     | ug/L  | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.22            | 0.60            | ND     | ug/L  | U     |
| Styrene                     | 100-42-5    | 1        | 0.09            | 0.20            | ND     | ug/L  | U     |
| Bromoform                   | 75-25-2     | 1        | 0.15            | 0.20            | ND     | ug/L  | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.03            | 0.20            | ND     | ug/L  | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 0.16            | 0.50            | ND     | ug/L  | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 0.60            | 1.00            | ND     | ug/L  | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.07            | 0.20            | ND     | ug/L  | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.05            | 0.20            | ND     | ug/L  | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.06            | 0.20            | ND     | ug/L  | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.10            | 0.20            | ND     | ug/L  | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.18            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.08            | 0.20            | ND     | ug/L  | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 0.39            | 0.50            | ND     | ug/L  | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 0.21            | 0.50            | ND     | ug/L  | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 1.00            | 2.00            | ND     | ug/L  | U     |
| Naphthalene                 | 91-20-3     | 1        | 0.27            | 0.50            | ND     | ug/L  | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 0.25            | 0.50            | ND     | ug/L  | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.13            | 0.20            | ND     | ug/L  | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.14            | 0.50            | ND     | ug/L  | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

**TRIP BLANK**

**24C0437-37 (Water)**

**Volatile Organic Compounds**

Method: EPA 8260D

Sampled: 03/18/2024 10:00

Instrument: NT3 Analyst: LN

Analyzed: 03/25/2024 12:03

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.34            | 5.00            | ND     | ug/L  | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-129 %        | 100    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 80-120 %        | 99.0   | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 98.7   | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 103    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-38 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 13:00

Instrument: NT5 Analyst: LH

Analyzed: 03/27/2024 19:08

Sample Preparation:

Preparation Method: EPA 5035 (Sodium Bisulfate)

Extract ID: 24C0437-38 B

Preparation Batch: BMC0730

Sample Size: 4.97 g (wet)

Dry Weight: 4.17 g

Prepared: 03/27/2024

Final Volume: 5 mL

% Solids: 83.83

| Analyte                               | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|---------------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Chloromethane                         | 74-87-3    | 1        | 0.45            | 1.20            | ND     | ug/kg | U     |
| Vinyl Chloride                        | 75-01-4    | 1        | 0.40            | 1.20            | ND     | ug/kg | U     |
| Bromomethane                          | 74-83-9    | 1        | 1.44            | 2.40            | ND     | ug/kg | U     |
| Chloroethane                          | 75-00-3    | 1        | 1.49            | 2.40            | ND     | ug/kg | U     |
| Trichlorofluoromethane                | 75-69-4    | 1        | 1.17            | 2.40            | ND     | ug/kg | U     |
| Acrolein                              | 107-02-8   | 1        | 2.10            | 6.00            | ND     | ug/kg | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1    | 1        | 1.02            | 2.40            | ND     | ug/kg | U     |
| Acetone                               | 67-64-1    | 1        | 7.61            | 12.0            | 166    | ug/kg |       |
| 1,1-Dichloroethene                    | 75-35-4    | 1        | 0.45            | 1.20            | ND     | ug/kg | U     |
| Iodomethane                           | 74-88-4    | 1        | 1.09            | 1.20            | ND     | ug/kg | U     |
| Methylene Chloride                    | 75-09-2    | 1        | 5.23            | 6.00            | ND     | ug/kg | U     |
| Acrylonitrile                         | 107-13-1   | 1        | 5.19            | 6.00            | ND     | ug/kg | U     |
| Carbon Disulfide                      | 75-15-0    | 1        | 0.40            | 1.20            | 3.48   | ug/kg |       |
| trans-1,2-Dichloroethene              | 156-60-5   | 1        | 0.63            | 1.20            | ND     | ug/kg | U     |
| Vinyl Acetate                         | 108-05-4   | 1        | 3.90            | 6.00            | ND     | ug/kg | U     |
| 1,1-Dichloroethane                    | 75-34-3    | 1        | 0.34            | 1.20            | ND     | ug/kg | U     |
| 2-Butanone                            | 78-93-3    | 1        | 2.93            | 6.00            | 5.24   | ug/kg | J     |
| 2,2-Dichloropropane                   | 594-20-7   | 1        | 0.37            | 1.20            | ND     | ug/kg | U     |
| cis-1,2-Dichloroethene                | 156-59-2   | 1        | 0.31            | 1.20            | ND     | ug/kg | U     |
| Chloroform                            | 67-66-3    | 1        | 0.35            | 1.20            | ND     | ug/kg | U     |
| Bromochloromethane                    | 74-97-5    | 1        | 0.47            | 1.20            | ND     | ug/kg | U     |
| 1,1,1-Trichloroethane                 | 71-55-6    | 1        | 0.72            | 1.20            | ND     | ug/kg | U     |
| 1,1-Dichloropropene                   | 563-58-6   | 1        | 0.34            | 1.20            | ND     | ug/kg | U     |
| Carbon tetrachloride                  | 56-23-5    | 1        | 0.37            | 1.20            | ND     | ug/kg | U     |
| 1,2-Dichloroethane                    | 107-06-2   | 1        | 0.28            | 1.20            | ND     | ug/kg | U     |
| Benzene                               | 71-43-2    | 1        | 0.20            | 1.20            | 0.36   | ug/kg | J     |
| Trichloroethene                       | 79-01-6    | 1        | 0.31            | 1.20            | ND     | ug/kg | U     |
| 1,2-Dichloropropane                   | 78-87-5    | 1        | 0.40            | 1.20            | ND     | ug/kg | U     |
| Bromodichloromethane                  | 75-27-4    | 1        | 0.31            | 1.20            | ND     | ug/kg | U     |
| Dibromomethane                        | 74-95-3    | 1        | 0.43            | 1.20            | ND     | ug/kg | U     |
| 2-Chloroethyl vinyl ether             | 110-75-8   | 1        | 3.62            | 6.00            | ND     | ug/kg | U     |
| 4-Methyl-2-Pentanone                  | 108-10-1   | 1        | 1.64            | 6.00            | ND     | ug/kg | U     |
| cis-1,3-Dichloropropene               | 10061-01-5 | 1        | 0.31            | 1.20            | ND     | ug/kg | U     |
| Toluene                               | 108-88-3   | 1        | 0.30            | 1.20            | ND     | ug/kg | U     |
| trans-1,3-Dichloropropene             | 10061-02-6 | 1        | 0.49            | 1.20            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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2W-4-031924

24C0437-38 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 13:00

Instrument: NT5 Analyst: LH

Analyzed: 03/27/2024 19:08

| Analyte                     | CAS Number  | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------|-------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Hexanone                  | 591-78-6    | 1        | 1.53            | 6.00            | ND     | ug/kg | U     |
| 1,1,2-Trichloroethane       | 79-00-5     | 1        | 0.32            | 1.20            | ND     | ug/kg | U     |
| 1,3-Dichloropropane         | 142-28-9    | 1        | 0.28            | 1.20            | ND     | ug/kg | U     |
| Tetrachloroethene           | 127-18-4    | 1        | 0.24            | 1.20            | ND     | ug/kg | U     |
| Dibromochloromethane        | 124-48-1    | 1        | 0.32            | 1.20            | ND     | ug/kg | U     |
| 1,2-Dibromoethane           | 106-93-4    | 1        | 0.37            | 1.20            | ND     | ug/kg | U     |
| Chlorobenzene               | 108-90-7    | 1        | 0.25            | 1.20            | ND     | ug/kg | U     |
| Ethylbenzene                | 100-41-4    | 1        | 0.27            | 1.20            | ND     | ug/kg | U     |
| 1,1,1,2-Tetrachloroethane   | 630-20-6    | 1        | 0.42            | 1.20            | ND     | ug/kg | U     |
| m,p-Xylene                  | 179601-23-1 | 1        | 0.59            | 2.40            | ND     | ug/kg | U     |
| o-Xylene                    | 95-47-6     | 1        | 0.29            | 1.20            | ND     | ug/kg | U     |
| Xylenes, total              | 1330-20-7   | 1        | 0.84            | 2.40            | ND     | ug/kg | U     |
| Styrene                     | 100-42-5    | 1        | 0.30            | 1.20            | ND     | ug/kg | U     |
| Bromoform                   | 75-25-2     | 1        | 0.55            | 1.20            | ND     | ug/kg | U     |
| 1,1,2,2-Tetrachloroethane   | 79-34-5     | 1        | 0.33            | 1.20            | ND     | ug/kg | U     |
| 1,2,3-Trichloropropane      | 96-18-4     | 1        | 1.80            | 2.40            | ND     | ug/kg | U     |
| trans-1,4-Dichloro 2-Butene | 110-57-6    | 1        | 3.30            | 6.00            | ND     | ug/kg | U     |
| n-Propylbenzene             | 103-65-1    | 1        | 0.28            | 1.20            | ND     | ug/kg | U     |
| Bromobenzene                | 108-86-1    | 1        | 0.30            | 1.20            | ND     | ug/kg | U     |
| Isopropyl Benzene           | 98-82-8     | 1        | 0.31            | 1.20            | ND     | ug/kg | U     |
| 2-Chlorotoluene             | 95-49-8     | 1        | 0.26            | 1.20            | ND     | ug/kg | U     |
| 4-Chlorotoluene             | 106-43-4    | 1        | 0.35            | 1.20            | ND     | ug/kg | U     |
| t-Butylbenzene              | 98-06-6     | 1        | 0.30            | 1.20            | ND     | ug/kg | U     |
| 1,3,5-Trimethylbenzene      | 108-67-8    | 1        | 0.30            | 1.20            | ND     | ug/kg | U     |
| 1,2,4-Trimethylbenzene      | 95-63-6     | 1        | 0.32            | 1.20            | ND     | ug/kg | U     |
| s-Butylbenzene              | 135-98-8    | 1        | 0.29            | 1.20            | ND     | ug/kg | U     |
| 4-Isopropyl Toluene         | 99-87-6     | 1        | 0.35            | 1.20            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene         | 541-73-1    | 1        | 0.29            | 1.20            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene         | 106-46-7    | 1        | 0.52            | 1.20            | ND     | ug/kg | U     |
| n-Butylbenzene              | 104-51-8    | 1        | 0.34            | 1.20            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene         | 95-50-1     | 1        | 0.78            | 1.20            | ND     | ug/kg | U     |
| 1,2-Dibromo-3-chloropropane | 96-12-8     | 1        | 2.83            | 6.00            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene      | 120-82-1    | 1        | 2.18            | 6.00            | ND     | ug/kg | U     |
| Hexachloro-1,3-Butadiene    | 87-68-3     | 1        | 5.01            | 6.00            | ND     | ug/kg | U     |
| Naphthalene                 | 91-20-3     | 1        | 2.96            | 6.00            | ND     | ug/kg | U     |
| 1,2,3-Trichlorobenzene      | 87-61-6     | 1        | 2.79            | 6.00            | ND     | ug/kg | U     |
| Dichlorodifluoromethane     | 75-71-8     | 1        | 0.48            | 1.20            | ND     | ug/kg | U     |
| Methyl tert-butyl Ether     | 1634-04-4   | 1        | 0.30            | 1.20            | ND     | ug/kg | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-38 (Solid)

### Volatile Organic Compounds

Method: EPA 8260D

Sampled: 03/19/2024 13:00

Instrument: NT5 Analyst: LH

Analyzed: 03/27/2024 19:08

| Analyte                           | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|-----------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2-Pentanone                       | 107-87-9   | 1        | 2.58            | 6.00            | ND     | ug/kg | U     |
| Surrogate: 1,2-Dichloroethane-d4  |            |          |                 | 80-149 %        | 108    | %     |       |
| Surrogate: Toluene-d8             |            |          |                 | 77-120 %        | 105    | %     |       |
| Surrogate: 4-Bromofluorobenzene   |            |          |                 | 80-120 %        | 105    | %     |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            |          |                 | 80-120 %        | 104    | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-38 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 13:00

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 02:57

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-38 A 02

Preparation Batch: BMC0697

Sample Size: 11.97 g (wet)

Dry Weight: 10.03 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 83.83

Sample Cleanup:

Cleanup Method: GPC

Extract ID: 24C0437-38 A 02

Cleanup Batch: CMD0194

Initial Volume: 1 uL

Cleaned: 30-Apr-2024

Final Volume: 1 uL

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| Phenol                       | 108-95-2   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| bis(2-chloroethyl) ether     | 111-44-4   | 1        | 19.2            | 49.8            | ND     | ug/kg | U     |
| 2-Chlorophenol               | 95-57-8    | 1        | 13.8            | 19.9            | ND     | ug/kg | U     |
| 1,3-Dichlorobenzene          | 541-73-1   | 1        | 3.1             | 19.9            | ND     | ug/kg | U     |
| 1,4-Dichlorobenzene          | 106-46-7   | 1        | 6.3             | 19.9            | ND     | ug/kg | U     |
| 1,2-Dichlorobenzene          | 95-50-1    | 1        | 6.1             | 19.9            | ND     | ug/kg | U     |
| Benzyl Alcohol               | 100-51-6   | 1        | 16.2            | 19.9            | ND     | ug/kg | U     |
| 2,2'-Oxybis(1-chloropropane) | 108-60-1   | 1        | 3.4             | 19.9            | ND     | ug/kg | U     |
| 2-Methylphenol               | 95-48-7    | 1        | 6.6             | 19.9            | ND     | ug/kg | U     |
| Hexachloroethane             | 67-72-1    | 1        | 6.9             | 19.9            | ND     | ug/kg | U     |
| N-Nitroso-di-n-Propylamine   | 621-64-7   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| 4-Methylphenol               | 106-44-5   | 1        | 7.4             | 19.9            | ND     | ug/kg | U     |
| Nitrobenzene                 | 98-95-3    | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Isophorone                   | 78-59-1    | 1        | 9.5             | 19.9            | ND     | ug/kg | U     |
| 2-Nitrophenol                | 88-75-5    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dimethylphenol           | 105-67-9   | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| Bis(2-Chloroethoxy)methane   | 111-91-1   | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| 2,4-Dichlorophenol           | 120-83-2   | 1        | 15.3            | 99.7            | ND     | ug/kg | U     |
| 1,2,4-Trichlorobenzene       | 120-82-1   | 1        | 8.5             | 19.9            | ND     | ug/kg | U     |
| Naphthalene                  | 91-20-3    | 1        | 4.2             | 19.9            | ND     | ug/kg | U     |
| Benzoic acid                 | 65-85-0    | 1        | 38.9            | 199             | ND     | ug/kg | U     |
| 4-Chloroaniline              | 106-47-8   | 1        | 26.2            | 99.7            | ND     | ug/kg | U     |
| Hexachlorobutadiene          | 87-68-3    | 1        | 4.8             | 19.9            | ND     | ug/kg | U     |
| 4-Chloro-3-Methylphenol      | 59-50-7    | 1        | 12.4            | 99.7            | ND     | ug/kg | U     |
| 2-Methylnaphthalene          | 91-57-6    | 1        | 4.5             | 19.9            | ND     | ug/kg | U     |
| Hexachlorocyclopentadiene    | 77-47-4    | 1        | 24.4            | 99.7            | ND     | ug/kg | U     |
| 2,4,6-Trichlorophenol        | 88-06-2    | 1        | 8.9             | 99.7            | ND     | ug/kg | U     |
| 2,4,5-Trichlorophenol        | 95-95-4    | 1        | 25.7            | 99.7            | ND     | ug/kg | U     |
| 2-Chloronaphthalene          | 91-58-7    | 1        | 7.9             | 19.9            | ND     | ug/kg | U     |
| 2-Nitroaniline               | 88-74-4    | 1        | 16.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthylene               | 208-96-8   | 1        | 6.2             | 19.9            | ND     | ug/kg | U     |
| Dimethylphthalate            | 131-11-3   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**2W-4-031924**

**24C0437-38 (Solid)**

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 13:00

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 02:57

| Analyte                      | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|------------------------------|------------|----------|-----------------|-----------------|--------|-------|-------|
| 2,6-Dinitrotoluene           | 606-20-2   | 1        | 20.4            | 99.7            | ND     | ug/kg | U     |
| Acenaphthene                 | 83-32-9    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| 3-Nitroaniline               | 99-09-2    | 1        | 22.2            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrophenol            | 51-28-5    | 1        | 33.7            | 199             | ND     | ug/kg | U     |
| Dibenzofuran                 | 132-64-9   | 1        | 14.1            | 19.9            | ND     | ug/kg | U     |
| 4-Nitrophenol                | 100-02-7   | 1        | 32.5            | 99.7            | ND     | ug/kg | U     |
| 2,4-Dinitrotoluene           | 121-14-2   | 1        | 16.2            | 99.7            | ND     | ug/kg | U     |
| Fluorene                     | 86-73-7    | 1        | 14.5            | 19.9            | ND     | ug/kg | U     |
| 4-Chlorophenylphenyl ether   | 7005-72-3  | 1        | 19.1            | 49.8            | ND     | ug/kg | U     |
| Diethyl phthalate            | 84-66-2    | 1        | 19.6            | 49.8            | ND     | ug/kg | U     |
| 4-Nitroaniline               | 100-01-6   | 1        | 29.3            | 99.7            | ND     | ug/kg | U     |
| 4,6-Dinitro-2-methylphenol   | 534-52-1   | 1        | 37.9            | 199             | ND     | ug/kg | U     |
| N-Nitrosodiphenylamine       | 86-30-6    | 1        | 5.3             | 19.9            | ND     | ug/kg | U     |
| 4-Bromophenyl phenyl ether   | 101-55-3   | 1        | 17.0            | 19.9            | ND     | ug/kg | U     |
| Hexachlorobenzene            | 118-74-1   | 1        | 13.4            | 19.9            | ND     | ug/kg | U     |
| Pentachlorophenol            | 87-86-5    | 1        | 31.1            | 99.7            | ND     | ug/kg | U     |
| Phenanthrene                 | 85-01-8    | 1        | 8.7             | 19.9            | ND     | ug/kg | U     |
| Anthracene                   | 120-12-7   | 1        | 7.2             | 19.9            | ND     | ug/kg | U     |
| Carbazole                    | 86-74-8    | 1        | 4.3             | 19.9            | ND     | ug/kg | U     |
| Di-n-Butylphthalate          | 84-74-2    | 1        | 5.6             | 19.9            | ND     | ug/kg | U     |
| Fluoranthene                 | 206-44-0   | 1        | 6.1             | 19.9            | 16.7   | ug/kg | J     |
| Pyrene                       | 129-00-0   | 1        | 5.7             | 19.9            | 24.8   | ug/kg |       |
| Butylbenzylphthalate         | 85-68-7    | 1        | 9.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)anthracene           | 56-55-3    | 1        | 5.9             | 19.9            | ND     | ug/kg | U     |
| 3,3'-Dichlorobenzidine       | 91-94-1    | 1        | 7.1             | 99.7            | ND     | ug/kg | U     |
| Chrysene                     | 218-01-9   | 1        | 6.0             | 19.9            | 13.2   | ug/kg | J     |
| bis(2-Ethylhexyl)phthalate   | 117-81-7   | 1        | 14.0            | 49.8            | 19.6   | ug/kg | J     |
| Di-n-Octylphthalate          | 117-84-0   | 1        | 4.4             | 19.9            | ND     | ug/kg | U     |
| Benzo(a)fluoranthene, Total  |            | 1        | 20.9            | 39.9            | ND     | ug/kg | U     |
| Benzo(a)pyrene               | 50-32-8    | 1        | 4.2             | 19.9            | 6.3    | ug/kg | J     |
| Indeno(1,2,3-cd)pyrene       | 193-39-5   | 1        | 14.6            | 19.9            | ND     | ug/kg | U     |
| Dibenzo(a,h)anthracene       | 53-70-3    | 1        | 17.2            | 19.9            | ND     | ug/kg | U     |
| Benzo(g,h,i)perylene         | 191-24-2   | 1        | 13.5            | 19.9            | ND     | ug/kg | U     |
| 1-Methylnaphthalene          | 90-12-0    | 1        | 5.2             | 19.9            | ND     | ug/kg | U     |
| Surrogate: 2-Fluorophenol    |            |          |                 | 27-120 %        | 47.1   | %     |       |
| Surrogate: Phenol-d5         |            |          |                 | 29-120 %        | 45.3   | %     |       |
| Surrogate: 2-Chlorophenol-d4 |            |          |                 | 31-120 %        | 64.1   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-38 (Solid)

### Semivolatile Organic Compounds

Method: EPA 8270E

Sampled: 03/19/2024 13:00

Instrument: NT10 Analyst: FL

Analyzed: 05/03/2024 02:57

| Analyte                           | CAS Number | Recovery | Recovery | Units | Notes |
|-----------------------------------|------------|----------|----------|-------|-------|
|                                   |            | Limits   |          |       |       |
| Surrogate: 1,2-Dichlorobenzene-d4 |            | 32-120 % | 62.5     | %     |       |
| Surrogate: Nitrobenzene-d5        |            | 30-120 % | 48.4     | %     |       |
| Surrogate: 2-Fluorobiphenyl       |            | 35-120 % | 71.1     | %     |       |
| Surrogate: 2,4,6-Tribromophenol   |            | 24-134 % | 101      | %     | Q     |
| Surrogate: p-Terphenyl-d14        |            | 37-120 % | 96.1     | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

2W-4-031924

24C0437-38 (Solid)

### Petroleum Hydrocarbons

Method: NWTPH-Dx

Sampled: 03/19/2024 13:00

Instrument: FID4 Analyst: NRB

Analyzed: 04/04/2024 19:59

Sample Preparation:

Preparation Method: EPA 3546 (Microwave)

Extract ID: 24C0437-38 A 01

Preparation Batch: BMC0693

Sample Size: 10.01 g (wet)

Dry Weight: 8.39 g

Prepared: 04/01/2024

Final Volume: 1 mL

% Solids: 83.83

| Analyte                            | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|------------------------------------|------------|----------|-----------------|--------|-------|-------|
| Diesel Range Organics (C12-C24)    | DRO        | 1        | 5.96            | 17.1   | mg/kg |       |
| HC ID: DRO                         |            |          |                 |        |       |       |
| Motor Oil Range Organics (C24-C38) | RRO        | 1        | 11.9            | 55.6   | mg/kg |       |
| HC ID: MOTOR OIL                   |            |          |                 |        |       |       |
| Surrogate: o-Terphenyl             |            |          | 50-150 %        | 92.9   | %     |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0618-BLK1)                  |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 12:41 |      |             |     |           |       |
| Chloromethane                         | ND     | 0.27            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| Vinyl Chloride                        | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromomethane                          | ND     | 0.23            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| Chloroethane                          | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Trichlorofluoromethane                | ND     | 0.13            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Acrolein                              | ND     | 2.70            | 5.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND     | 0.11            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Acetone                               | ND     | 1.91            | 5.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1-Dichloroethene                    | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Iodomethane                           | ND     | 0.15            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| Methylene Chloride                    | ND     | 0.53            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| Acrylonitrile                         | ND     | 0.40            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| Carbon Disulfide                      | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| trans-1,2-Dichloroethene              | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Vinyl Acetate                         | ND     | 0.12            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1-Dichloroethane                    | ND     | 0.04            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Butanone                            | ND     | 1.77            | 5.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,2-Dichloropropane                   | ND     | 0.11            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| cis-1,2-Dichloroethene                | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Chloroform                            | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromochloromethane                    | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,1-Trichloroethane                 | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1-Dichloropropene                   | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Carbon tetrachloride                  | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dichloroethane                    | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzene                               | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Trichloroethene                       | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dichloropropane                   | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromodichloromethane                  | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Dibromomethane                        | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Chloroethyl vinyl ether             | ND     | 0.55            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Methyl-2-Pentanone                  | ND     | 1.90            | 5.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| cis-1,3-Dichloropropene               | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Toluene                               | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| trans-1,3-Dichloropropene             | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0618-BLK1)        |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 12:41 |      |             |     |           |       |
| 2-Hexanone                  | ND     | 2.06            | 5.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,2-Trichloroethane       | ND     | 0.10            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,3-Dichloropropane         | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Tetrachloroethene           | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Dibromochloromethane        | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromoethane           | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Chlorobenzene               | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Ethylbenzene                | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| m,p-Xylene                  | ND     | 0.14            | 0.40            | ug/L  |             |                                                   |      |             |     |           | U     |
| o-Xylene                    | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Xylenes, total              | ND     | 0.22            | 0.60            | ug/L  |             |                                                   |      |             |     |           | U     |
| Styrene                     | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromoform                   | ND     | 0.15            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.03            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichloropropane      | ND     | 0.16            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| trans-1,4-Dichloro 2-Butene | ND     | 0.60            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| n-Propylbenzene             | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromobenzene                | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Isopropyl Benzene           | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Chlorotoluene             | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Chlorotoluene             | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| t-Butylbenzene              | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene      | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trimethylbenzene      | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| s-Butylbenzene              | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Isopropyl Toluene         | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene         | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene         | ND     | 0.10            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| n-Butylbenzene              | ND     | 0.18            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene         | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromo-3-chloropropane | ND     | 0.39            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene      | ND     | 0.21            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| Hexachloro-1,3-Butadiene    | ND     | 1.00            | 2.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| Naphthalene                 | ND     | 0.27            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| Blank (BMC0618-BLK1)              |        |                    |                    |       |                |                                                   |      |                |     |              |       |
|                                   |        |                    |                    |       |                | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 12:41 |      |                |     |              |       |
| 1,2,3-Trichlorobenzene            | ND     | 0.25               | 0.50               | ug/L  |                |                                                   |      |                |     |              | U     |
| Dichlorodifluoromethane           | ND     | 0.13               | 0.20               | ug/L  |                |                                                   |      |                |     |              | U     |
| Methyl tert-butyl Ether           | ND     | 0.14               | 0.50               | ug/L  |                |                                                   |      |                |     |              | U     |
| 2-Pentanone                       | ND     | 2.34               | 5.00               | ug/L  |                |                                                   |      |                |     |              | U     |
| Surrogate: 1,2-Dichloroethane-d4  | 5.05   |                    |                    | ug/L  | 5.00           |                                                   | 101  | 80-129         |     |              |       |
| Surrogate: Toluene-d8             | 4.94   |                    |                    | ug/L  | 5.00           |                                                   | 98.8 | 80-120         |     |              |       |
| Surrogate: 4-Bromofluorobenzene   | 4.78   |                    |                    | ug/L  | 5.00           |                                                   | 95.7 | 80-120         |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.39   |                    |                    | ug/L  | 5.00           |                                                   | 108  | 80-120         |     |              |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0618-BS1)                     |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 11:16 |      |             |     |           |       |
| Chloromethane                         | 8.38   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 83.8 | 60-138      |     |           |       |
| Vinyl Chloride                        | 8.83   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 88.3 | 66-133      |     |           |       |
| Bromomethane                          | 8.63   | 0.23            | 1.00            | ug/L  | 10.0        |                                                   | 86.3 | 72-131      |     |           |       |
| Chloroethane                          | 9.00   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 90.0 | 60-155      |     |           |       |
| Trichlorofluoromethane                | 6.46   | 0.13            | 0.20            | ug/L  | 10.0        |                                                   | 64.6 | 62-141      |     |           | Q     |
| Acrolein                              | 42.7   | 2.70            | 5.00            | ug/L  | 50.0        |                                                   | 85.5 | 52-190      |     |           |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8.98   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 89.8 | 76-129      |     |           |       |
| Acetone                               | 48.0   | 1.91            | 5.00            | ug/L  | 50.0        |                                                   | 96.1 | 58-142      |     |           |       |
| 1,1-Dichloroethene                    | 9.05   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 90.5 | 69-135      |     |           |       |
| Iodomethane                           | 9.10   | 0.15            | 1.00            | ug/L  | 10.0        |                                                   | 91.0 | 56-147      |     |           |       |
| Methylene Chloride                    | 9.20   | 0.53            | 1.00            | ug/L  | 10.0        |                                                   | 92.0 | 65-135      |     |           |       |
| Acrylonitrile                         | 8.86   | 0.40            | 1.00            | ug/L  | 10.0        |                                                   | 88.6 | 64-134      |     |           |       |
| Carbon Disulfide                      | 8.75   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 87.5 | 78-125      |     |           |       |
| trans-1,2-Dichloroethene              | 8.95   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 89.5 | 78-128      |     |           |       |
| Vinyl Acetate                         | 9.58   | 0.12            | 0.20            | ug/L  | 10.0        |                                                   | 95.8 | 55-138      |     |           |       |
| 1,1-Dichloroethane                    | 9.03   | 0.04            | 0.20            | ug/L  | 10.0        |                                                   | 90.3 | 76-124      |     |           |       |
| 2-Butanone                            | 47.5   | 1.77            | 5.00            | ug/L  | 50.0        |                                                   | 95.0 | 61-140      |     |           |       |
| 2,2-Dichloropropane                   | 9.13   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 91.3 | 66-147      |     |           |       |
| cis-1,2-Dichloroethene                | 8.76   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 87.6 | 80-121      |     |           |       |
| Chloroform                            | 9.01   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 90.1 | 80-122      |     |           |       |
| Bromochloromethane                    | 8.55   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 85.5 | 80-121      |     |           |       |
| 1,1,1-Trichloroethane                 | 8.87   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 88.7 | 79-123      |     |           |       |
| 1,1-Dichloropropene                   | 8.96   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 89.6 | 80-127      |     |           |       |
| Carbon tetrachloride                  | 8.25   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 82.5 | 53-137      |     |           |       |
| 1,2-Dichloroethane                    | 9.27   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 92.7 | 75-123      |     |           |       |
| Benzene                               | 9.26   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 92.6 | 80-120      |     |           |       |
| Trichloroethene                       | 9.27   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 92.7 | 80-120      |     |           |       |
| 1,2-Dichloropropane                   | 9.03   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 90.3 | 80-120      |     |           |       |
| Bromodichloromethane                  | 8.74   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 87.4 | 80-121      |     |           |       |
| Dibromomethane                        | 8.95   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 89.5 | 80-120      |     |           |       |
| 2-Chloroethyl vinyl ether             | 8.78   | 0.55            | 1.00            | ug/L  | 10.0        |                                                   | 87.8 | 64-120      |     |           |       |
| 4-Methyl-2-Pentanone                  | 46.0   | 1.90            | 5.00            | ug/L  | 50.0        |                                                   | 91.9 | 67-133      |     |           |       |
| cis-1,3-Dichloropropene               | 9.02   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 90.2 | 80-124      |     |           |       |
| Toluene                               | 9.09   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 90.9 | 80-120      |     |           |       |
| trans-1,3-Dichloropropene             | 9.21   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 92.1 | 71-127      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0618-BS1)           |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 11:16 |      |             |     |           |       |
| 2-Hexanone                  | 49.8   | 2.06            | 5.00            | ug/L  | 50.0        |                                                   | 99.6 | 69-133      |     |           |       |
| 1,1,2-Trichloroethane       | 8.90   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 89.0 | 80-121      |     |           |       |
| 1,3-Dichloropropane         | 9.40   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.0 | 80-120      |     |           |       |
| Tetrachloroethene           | 9.38   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 93.8 | 80-120      |     |           |       |
| Dibromochloromethane        | 9.37   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 93.7 | 65-135      |     |           |       |
| 1,2-Dibromoethane           | 8.95   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 89.5 | 80-121      |     |           |       |
| Chlorobenzene               | 9.42   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 94.2 | 80-120      |     |           |       |
| Ethylbenzene                | 9.60   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 96.0 | 80-120      |     |           |       |
| 1,1,1,2-Tetrachloroethane   | 9.07   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 90.7 | 80-120      |     |           |       |
| m,p-Xylene                  | 19.4   | 0.14            | 0.40            | ug/L  | 20.0        |                                                   | 97.2 | 80-121      |     |           |       |
| o-Xylene                    | 9.87   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 98.7 | 80-121      |     |           |       |
| Xylenes, total              | 29.3   | 0.22            | 0.60            | ug/L  | 30.0        |                                                   | 97.7 | 76-127      |     |           |       |
| Styrene                     | 9.75   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 97.5 | 80-124      |     |           |       |
| Bromoform                   | 9.51   | 0.15            | 0.20            | ug/L  | 10.0        |                                                   | 95.1 | 51-134      |     |           |       |
| 1,1,2,2-Tetrachloroethane   | 9.19   | 0.03            | 0.20            | ug/L  | 10.0        |                                                   | 91.9 | 77-123      |     |           |       |
| 1,2,3-Trichloropropane      | 9.31   | 0.16            | 0.50            | ug/L  | 10.0        |                                                   | 93.1 | 76-125      |     |           |       |
| trans-1,4-Dichloro 2-Butene | 8.33   | 0.60            | 1.00            | ug/L  | 10.0        |                                                   | 83.3 | 55-129      |     |           |       |
| n-Propylbenzene             | 10.2   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 102  | 78-130      |     |           |       |
| Bromobenzene                | 9.41   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.1 | 80-120      |     |           |       |
| Isopropyl Benzene           | 9.80   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 98.0 | 80-128      |     |           |       |
| 2-Chlorotoluene             | 9.71   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 97.1 | 78-122      |     |           |       |
| 4-Chlorotoluene             | 9.80   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 98.0 | 80-121      |     |           |       |
| t-Butylbenzene              | 9.95   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 99.5 | 78-125      |     |           |       |
| 1,3,5-Trimethylbenzene      | 10.1   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 101  | 80-129      |     |           |       |
| 1,2,4-Trimethylbenzene      | 10.1   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 101  | 80-127      |     |           |       |
| s-Butylbenzene              | 10.5   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 105  | 78-129      |     |           |       |
| 4-Isopropyl Toluene         | 10.4   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 104  | 79-130      |     |           |       |
| 1,3-Dichlorobenzene         | 9.77   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 97.7 | 80-120      |     |           |       |
| 1,4-Dichlorobenzene         | 9.50   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 95.0 | 80-120      |     |           |       |
| n-Butylbenzene              | 10.9   | 0.18            | 0.20            | ug/L  | 10.0        |                                                   | 109  | 74-129      |     |           |       |
| 1,2-Dichlorobenzene         | 9.83   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 98.3 | 80-120      |     |           |       |
| 1,2-Dibromo-3-chloropropane | 9.60   | 0.39            | 0.50            | ug/L  | 10.0        |                                                   | 96.0 | 62-123      |     |           |       |
| 1,2,4-Trichlorobenzene      | 12.1   | 0.21            | 0.50            | ug/L  | 10.0        |                                                   | 121  | 64-124      |     |           | Q     |
| Hexachloro-1,3-Butadiene    | 13.3   | 1.00            | 2.00            | ug/L  | 10.0        |                                                   | 133  | 65-145      |     |           | Q     |
| Naphthalene                 | 12.3   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 123  | 50-134      |     |           | Q     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte                                                   | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| LCS (BMC0618-BS1) Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 11:16 |        |                    |                    |       |                |                  |      |                |     |              |       |
| 1,2,3-Trichlorobenzene                                              | 12.9   | 0.25               | 0.50               | ug/L  | 10.0           |                  | 129  | 49-133         |     |              | Q     |
| Dichlorodifluoromethane                                             | 9.59   | 0.13               | 0.20               | ug/L  | 10.0           |                  | 95.9 | 48-147         |     |              |       |
| Methyl tert-butyl Ether                                             | 9.45   | 0.14               | 0.50               | ug/L  | 10.0           |                  | 94.5 | 71-132         |     |              |       |
| 2-Pentanone                                                         | 45.8   | 2.34               | 5.00               | ug/L  | 50.0           |                  | 91.5 | 69-134         |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4                                    | 5.09   |                    |                    | ug/L  | 5.00           |                  | 102  | 80-129         |     |              |       |
| Surrogate: Toluene-d8                                               | 4.95   |                    |                    | ug/L  | 5.00           |                  | 99.0 | 80-120         |     |              |       |
| Surrogate: 4-Bromofluorobenzene                                     | 4.98   |                    |                    | ug/L  | 5.00           |                  | 99.7 | 80-120         |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4                                   | 5.15   |                    |                    | ug/L  | 5.00           |                  | 103  | 80-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0618-BSD1)                |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 11:57 |      |             |       |           |       |
| Chloromethane                         | 9.35   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 93.5 | 60-138      | 10.90 | 30        |       |
| Vinyl Chloride                        | 9.19   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 91.9 | 66-133      | 3.94  | 30        |       |
| Bromomethane                          | 9.54   | 0.23            | 1.00            | ug/L  | 10.0        |                                                   | 95.4 | 72-131      | 10.00 | 30        |       |
| Chloroethane                          | 9.34   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 93.4 | 60-155      | 3.69  | 30        |       |
| Trichlorofluoromethane                | 9.97   | 0.13            | 0.20            | ug/L  | 10.0        |                                                   | 99.7 | 62-141      | 42.80 | 30        | *, Q  |
| Acrolein                              | 44.6   | 2.70            | 5.00            | ug/L  | 50.0        |                                                   | 89.2 | 52-190      | 4.26  | 30        |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.27   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 92.7 | 76-129      | 3.18  | 30        |       |
| Acetone                               | 44.4   | 1.91            | 5.00            | ug/L  | 50.0        |                                                   | 88.7 | 58-142      | 7.93  | 30        |       |
| 1,1-Dichloroethene                    | 9.25   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 92.5 | 69-135      | 2.23  | 30        |       |
| Iodomethane                           | 9.13   | 0.15            | 1.00            | ug/L  | 10.0        |                                                   | 91.3 | 56-147      | 0.40  | 30        |       |
| Methylene Chloride                    | 9.06   | 0.53            | 1.00            | ug/L  | 10.0        |                                                   | 90.6 | 65-135      | 1.57  | 30        |       |
| Acrylonitrile                         | 8.23   | 0.40            | 1.00            | ug/L  | 10.0        |                                                   | 82.3 | 64-134      | 7.34  | 30        |       |
| Carbon Disulfide                      | 8.81   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 88.1 | 78-125      | 0.70  | 30        |       |
| trans-1,2-Dichloroethene              | 9.13   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 91.3 | 78-128      | 1.93  | 30        |       |
| Vinyl Acetate                         | 9.41   | 0.12            | 0.20            | ug/L  | 10.0        |                                                   | 94.1 | 55-138      | 1.70  | 30        |       |
| 1,1-Dichloroethane                    | 9.11   | 0.04            | 0.20            | ug/L  | 10.0        |                                                   | 91.1 | 76-124      | 0.87  | 30        |       |
| 2-Butanone                            | 44.1   | 1.77            | 5.00            | ug/L  | 50.0        |                                                   | 88.1 | 61-140      | 7.47  | 30        |       |
| 2,2-Dichloropropane                   | 9.10   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 91.0 | 66-147      | 0.28  | 30        |       |
| cis-1,2-Dichloroethene                | 8.86   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 88.6 | 80-121      | 1.15  | 30        |       |
| Chloroform                            | 9.25   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 92.5 | 80-122      | 2.71  | 30        |       |
| Bromochloromethane                    | 8.78   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 87.8 | 80-121      | 2.70  | 30        |       |
| 1,1,1-Trichloroethane                 | 9.17   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 91.7 | 79-123      | 3.32  | 30        |       |
| 1,1-Dichloropropene                   | 9.44   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 94.4 | 80-127      | 5.19  | 30        |       |
| Carbon tetrachloride                  | 8.52   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 85.2 | 53-137      | 3.18  | 30        |       |
| 1,2-Dichloroethane                    | 9.22   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 92.2 | 75-123      | 0.60  | 30        |       |
| Benzene                               | 9.68   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 96.8 | 80-120      | 4.47  | 30        |       |
| Trichloroethene                       | 9.41   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.1 | 80-120      | 1.55  | 30        |       |
| 1,2-Dichloropropane                   | 9.46   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.6 | 80-120      | 4.60  | 30        |       |
| Bromodichloromethane                  | 9.10   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 91.0 | 80-121      | 4.10  | 30        |       |
| Dibromomethane                        | 9.00   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 90.0 | 80-120      | 0.61  | 30        |       |
| 2-Chloroethyl vinyl ether             | 8.81   | 0.55            | 1.00            | ug/L  | 10.0        |                                                   | 88.1 | 64-120      | 0.38  | 30        |       |
| 4-Methyl-2-Pentanone                  | 43.5   | 1.90            | 5.00            | ug/L  | 50.0        |                                                   | 86.9 | 67-133      | 5.60  | 30        |       |
| cis-1,3-Dichloropropene               | 9.21   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 92.1 | 80-124      | 2.14  | 30        |       |
| Toluene                               | 9.50   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 95.0 | 80-120      | 4.41  | 30        |       |
| trans-1,3-Dichloropropene             | 9.08   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 90.8 | 71-127      | 1.45  | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|------|-----------|-------|
| LCS Dup (BMC0618-BSD1)      |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 11:57 |      |             |      |           |       |
| 2-Hexanone                  | 46.4   | 2.06            | 5.00            | ug/L  | 50.0        |                                                   | 92.8 | 69-133      | 7.11 | 30        |       |
| 1,1,2-Trichloroethane       | 8.96   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 89.6 | 80-121      | 0.56 | 30        |       |
| 1,3-Dichloropropane         | 9.40   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.0 | 80-120      | 0.07 | 30        |       |
| Tetrachloroethene           | 9.66   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 96.6 | 80-120      | 3.00 | 30        |       |
| Dibromochloromethane        | 9.31   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 93.1 | 65-135      | 0.61 | 30        |       |
| 1,2-Dibromoethane           | 8.89   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 88.9 | 80-121      | 0.59 | 30        |       |
| Chlorobenzene               | 9.81   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 98.1 | 80-120      | 4.04 | 30        |       |
| Ethylbenzene                | 10.1   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 101  | 80-120      | 5.50 | 30        |       |
| 1,1,1,2-Tetrachloroethane   | 9.47   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 94.7 | 80-120      | 4.27 | 30        |       |
| m,p-Xylene                  | 19.9   | 0.14            | 0.40            | ug/L  | 20.0        |                                                   | 99.3 | 80-121      | 2.15 | 30        |       |
| o-Xylene                    | 10.1   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 101  | 80-121      | 2.54 | 30        |       |
| Xylenes, total              | 30.0   | 0.22            | 0.60            | ug/L  | 30.0        |                                                   | 100  | 76-127      | 2.28 | 30        |       |
| Styrene                     | 10.1   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 101  | 80-124      | 3.40 | 30        |       |
| Bromoform                   | 9.67   | 0.15            | 0.20            | ug/L  | 10.0        |                                                   | 96.7 | 51-134      | 1.72 | 30        |       |
| 1,1,2,2-Tetrachloroethane   | 9.44   | 0.03            | 0.20            | ug/L  | 10.0        |                                                   | 94.4 | 77-123      | 2.67 | 30        |       |
| 1,2,3-Trichloropropane      | 9.48   | 0.16            | 0.50            | ug/L  | 10.0        |                                                   | 94.8 | 76-125      | 1.90 | 30        |       |
| trans-1,4-Dichloro 2-Butene | 8.58   | 0.60            | 1.00            | ug/L  | 10.0        |                                                   | 85.8 | 55-129      | 2.90 | 30        |       |
| n-Propylbenzene             | 11.1   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 111  | 78-130      | 8.19 | 30        |       |
| Bromobenzene                | 10.0   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 100  | 80-120      | 6.38 | 30        |       |
| Isopropyl Benzene           | 10.6   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 106  | 80-128      | 7.61 | 30        |       |
| 2-Chlorotoluene             | 10.6   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 106  | 78-122      | 8.44 | 30        |       |
| 4-Chlorotoluene             | 10.0   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 100  | 80-121      | 2.22 | 30        |       |
| t-Butylbenzene              | 10.8   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 108  | 78-125      | 7.73 | 30        |       |
| 1,3,5-Trimethylbenzene      | 10.8   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 108  | 80-129      | 6.81 | 30        |       |
| 1,2,4-Trimethylbenzene      | 11.1   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 111  | 80-127      | 8.80 | 30        |       |
| s-Butylbenzene              | 11.3   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 113  | 78-129      | 7.68 | 30        |       |
| 4-Isopropyl Toluene         | 11.3   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 113  | 79-130      | 8.55 | 30        |       |
| 1,3-Dichlorobenzene         | 10.5   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 105  | 80-120      | 7.49 | 30        |       |
| 1,4-Dichlorobenzene         | 10.3   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 103  | 80-120      | 8.45 | 30        |       |
| n-Butylbenzene              | 11.8   | 0.18            | 0.20            | ug/L  | 10.0        |                                                   | 118  | 74-129      | 7.64 | 30        |       |
| 1,2-Dichlorobenzene         | 10.5   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 105  | 80-120      | 6.46 | 30        |       |
| 1,2-Dibromo-3-chloropropane | 9.47   | 0.39            | 0.50            | ug/L  | 10.0        |                                                   | 94.7 | 62-123      | 1.39 | 30        |       |
| 1,2,4-Trichlorobenzene      | 13.2   | 0.21            | 0.50            | ug/L  | 10.0        |                                                   | 132  | 64-124      | 9.03 | 30        | *, Q  |
| Hexachloro-1,3-Butadiene    | 14.6   | 1.00            | 2.00            | ug/L  | 10.0        |                                                   | 146  | 65-145      | 9.51 | 30        | *, Q  |
| Naphthalene                 | 12.6   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 126  | 50-134      | 2.75 | 30        | Q     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0618 - EPA 8260D

Instrument: NT3 Analyst: LH

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|------|-----------|-------|
| <b>LCS Dup (BMC0618-BSD1)</b>     |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 11:57 |      |             |      |           |       |
| 1,2,3-Trichlorobenzene            | 13.8   | 0.25            | 0.50            | ug/L  | 10.0        |                                                   | 138  | 49-133      | 6.68 | 30        | *, Q  |
| Dichlorodifluoromethane           | 9.86   | 0.13            | 0.20            | ug/L  | 10.0        |                                                   | 98.6 | 48-147      | 2.80 | 30        |       |
| Methyl tert-butyl Ether           | 8.84   | 0.14            | 0.50            | ug/L  | 10.0        |                                                   | 88.4 | 71-132      | 6.69 | 30        |       |
| 2-Pentanone                       | 43.4   | 2.34            | 5.00            | ug/L  | 50.0        |                                                   | 86.9 | 69-134      | 5.17 | 30        |       |
| Surrogate: 1,2-Dichloroethane-d4  | 4.60   |                 |                 | ug/L  | 5.00        |                                                   | 92.1 | 80-129      |      |           |       |
| Surrogate: Toluene-d8             | 4.96   |                 |                 | ug/L  | 5.00        |                                                   | 99.2 | 80-120      |      |           |       |
| Surrogate: 4-Bromofluorobenzene   | 4.88   |                 |                 | ug/L  | 5.00        |                                                   | 97.5 | 80-120      |      |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.00   |                 |                 | ug/L  | 5.00        |                                                   | 100  | 80-120      |      |           |       |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte                     | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|----------------|-----|--------------|-------|
| <b>Blank (BMC0620-BLK1)</b>           |        |                    |                    |       | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 16:03 |                  |                |     |              |       |
| Chloromethane                         | ND     | 0.38               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Vinyl Chloride                        | ND     | 0.34               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Bromomethane                          | ND     | 1.20               | 2.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Chloroethane                          | ND     | 1.24               | 2.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Trichlorofluoromethane                | ND     | 0.98               | 2.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Acrolein                              | ND     | 1.75               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND     | 0.85               | 2.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Acetone                               | ND     | 6.35               | 10.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,1-Dichloroethene                    | ND     | 0.37               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Iodomethane                           | ND     | 0.91               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Methylene Chloride                    | ND     | 4.36               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Acrylonitrile                         | ND     | 4.33               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Carbon Disulfide                      | ND     | 0.33               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| trans-1,2-Dichloroethene              | ND     | 0.53               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Vinyl Acetate                         | ND     | 3.25               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,1-Dichloroethane                    | ND     | 0.28               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Butanone                            | ND     | 2.44               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 2,2-Dichloropropane                   | ND     | 0.31               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| cis-1,2-Dichloroethene                | ND     | 0.26               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Chloroform                            | ND     | 0.29               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Bromochloromethane                    | ND     | 0.40               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,1,1-Trichloroethane                 | ND     | 0.60               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,1-Dichloropropene                   | ND     | 0.28               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Carbon tetrachloride                  | ND     | 0.31               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,2-Dichloroethane                    | ND     | 0.23               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Benzene                               | ND     | 0.17               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Trichloroethene                       | ND     | 0.26               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,2-Dichloropropane                   | ND     | 0.33               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Bromodichloromethane                  | ND     | 0.26               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Dibromomethane                        | ND     | 0.36               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Chloroethyl vinyl ether             | ND     | 3.02               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 4-Methyl-2-Pentanone                  | ND     | 1.37               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| cis-1,3-Dichloropropene               | ND     | 0.26               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| Toluene                               | ND     | 0.25               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| trans-1,3-Dichloropropene             | ND     | 0.41               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Hexanone                            | ND     | 1.27               | 5.00               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,1,2-Trichloroethane                 | ND     | 0.27               | 1.00               | ug/kg |                                                   |                  |                |     |              | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0620-BLK1)        |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 16:03 |      |             |     |           |       |
| 1,3-Dichloropropane         | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Tetrachloroethene           | ND     | 0.20            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibromochloromethane        | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromoethane           | ND     | 0.31            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Chlorobenzene               | ND     | 0.21            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Ethylbenzene                | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.35            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| m,p-Xylene                  | ND     | 0.49            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| o-Xylene                    | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Xylenes, total              | ND     | 0.70            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Styrene                     | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromoform                   | ND     | 0.46            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichloropropane      | ND     | 1.50            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| trans-1,4-Dichloro 2-Butene | ND     | 2.75            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| n-Propylbenzene             | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromobenzene                | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Isopropyl Benzene           | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Chlorotoluene             | ND     | 0.22            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chlorotoluene             | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| t-Butylbenzene              | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene      | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trimethylbenzene      | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| s-Butylbenzene              | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Isopropyl Toluene         | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene         | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene         | ND     | 0.43            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| n-Butylbenzene              | ND     | 0.28            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene         | ND     | 0.65            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromo-3-chloropropane | ND     | 2.36            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene      | ND     | 1.82            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachloro-1,3-Butadiene    | ND     | 4.17            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Naphthalene                 | ND     | 2.46            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichlorobenzene      | ND     | 2.32            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dichlorodifluoromethane     | ND     | 0.40            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| Blank (BMC0620-BLK1)              |        |                    |                    |       |                |                                                   |      |                |     |              |       |
|                                   |        |                    |                    |       |                | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 16:03 |      |                |     |              |       |
| Methyl tert-butyl Ether           | ND     | 0.25               | 1.00               | ug/kg |                |                                                   |      |                |     |              | U     |
| 2-Pentanone                       | ND     | 2.15               | 5.00               | ug/kg |                |                                                   |      |                |     |              | U     |
| Surrogate: 1,2-Dichloroethane-d4  | 47.2   |                    |                    | ug/kg | 50.0           |                                                   | 94.4 | 80-149         |     |              |       |
| Surrogate: Toluene-d8             | 52.2   |                    |                    | ug/kg | 50.0           |                                                   | 104  | 77-120         |     |              |       |
| Surrogate: 4-Bromofluorobenzene   | 50.3   |                    |                    | ug/kg | 50.0           |                                                   | 101  | 80-120         |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49.5   |                    |                    | ug/kg | 50.0           |                                                   | 98.9 | 80-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0620-BS1)                     |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 15:14 |      |             |     |           |       |
| Chloromethane                         | 49.5   | 0.38            | 1.00            | ug/kg | 50.0        |                                                   | 99.0 | 64-132      |     |           |       |
| Vinyl Chloride                        | 53.7   | 0.34            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 74-135      |     |           |       |
| Bromomethane                          | 52.2   | 1.20            | 2.00            | ug/kg | 50.0        |                                                   | 104  | 53-144      |     |           |       |
| Chloroethane                          | 50.6   | 1.24            | 2.00            | ug/kg | 50.0        |                                                   | 101  | 55-149      |     |           |       |
| Trichlorofluoromethane                | 57.2   | 0.98            | 2.00            | ug/kg | 50.0        |                                                   | 114  | 61-164      |     |           |       |
| Acrolein                              | 246    | 1.75            | 5.00            | ug/kg | 250         |                                                   | 98.3 | 59-140      |     |           |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 53.1   | 0.85            | 2.00            | ug/kg | 50.0        |                                                   | 106  | 74-143      |     |           |       |
| Acetone                               | 229    | 6.35            | 10.0            | ug/kg | 250         |                                                   | 91.7 | 48-137      |     |           |       |
| 1,1-Dichloroethene                    | 50.8   | 0.37            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 77-134      |     |           |       |
| Iodomethane                           | 53.0   | 0.91            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 31-162      |     |           |       |
| Methylene Chloride                    | 47.8   | 4.36            | 5.00            | ug/kg | 50.0        |                                                   | 95.6 | 69-129      |     |           |       |
| Acrylonitrile                         | 50.3   | 4.33            | 5.00            | ug/kg | 50.0        |                                                   | 101  | 69-134      |     |           |       |
| Carbon Disulfide                      | 49.5   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 98.9 | 71-137      |     |           |       |
| trans-1,2-Dichloroethene              | 50.9   | 0.53            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 79-130      |     |           |       |
| Vinyl Acetate                         | 47.9   | 3.25            | 5.00            | ug/kg | 50.0        |                                                   | 95.9 | 66-141      |     |           |       |
| 1,1-Dichloroethane                    | 50.7   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-126      |     |           |       |
| 2-Butanone                            | 253    | 2.44            | 5.00            | ug/kg | 250         |                                                   | 101  | 70-132      |     |           |       |
| 2,2-Dichloropropane                   | 53.0   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 77-138      |     |           |       |
| cis-1,2-Dichloroethene                | 49.1   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 98.1 | 80-125      |     |           |       |
| Chloroform                            | 48.5   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 96.9 | 80-126      |     |           |       |
| Bromochloromethane                    | 48.4   | 0.40            | 1.00            | ug/kg | 50.0        |                                                   | 96.7 | 80-129      |     |           |       |
| 1,1,1-Trichloroethane                 | 51.9   | 0.60            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 78-133      |     |           |       |
| 1,1-Dichloropropene                   | 52.7   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 63-145      |     |           |       |
| Carbon tetrachloride                  | 54.4   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 71-129      |     |           |       |
| 1,2-Dichloroethane                    | 48.8   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 97.6 | 76-120      |     |           |       |
| Benzene                               | 51.4   | 0.17            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 80-120      |     |           |       |
| Trichloroethene                       | 52.0   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-120      |     |           |       |
| 1,2-Dichloropropane                   | 48.9   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 97.8 | 79-120      |     |           |       |
| Bromodichloromethane                  | 49.8   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 99.6 | 80-122      |     |           |       |
| Dibromomethane                        | 50.7   | 0.36            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-120      |     |           |       |
| 2-Chloroethyl vinyl ether             | 47.2   | 3.02            | 5.00            | ug/kg | 50.0        |                                                   | 94.3 | 51-129      |     |           |       |
| 4-Methyl-2-Pentanone                  | 247    | 1.37            | 5.00            | ug/kg | 250         |                                                   | 98.8 | 73-121      |     |           |       |
| cis-1,3-Dichloropropene               | 49.0   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 98.0 | 80-120      |     |           |       |
| Toluene                               | 49.2   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 98.3 | 75-120      |     |           |       |
| trans-1,3-Dichloropropene             | 48.8   | 0.41            | 1.00            | ug/kg | 50.0        |                                                   | 97.7 | 80-124      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0620-BS1)           |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 15:14 |      |             |     |           |       |
| 2-Hexanone                  | 245    | 1.27            | 5.00            | ug/kg | 250         |                                                   | 98.2 | 68-122      |     |           |       |
| 1,1,2-Trichloroethane       | 46.8   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 93.7 | 79-120      |     |           |       |
| 1,3-Dichloropropane         | 48.2   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 96.5 | 78-120      |     |           |       |
| Tetrachloroethene           | 51.1   | 0.20            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 74-124      |     |           |       |
| Dibromochloromethane        | 48.9   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 97.7 | 74-125      |     |           |       |
| 1,2-Dibromoethane           | 48.7   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 97.4 | 80-120      |     |           |       |
| Chlorobenzene               | 49.3   | 0.21            | 1.00            | ug/kg | 50.0        |                                                   | 98.7 | 78-120      |     |           |       |
| Ethylbenzene                | 50.6   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-125      |     |           |       |
| 1,1,1,2-Tetrachloroethane   | 47.9   | 0.35            | 1.00            | ug/kg | 50.0        |                                                   | 95.7 | 80-120      |     |           |       |
| m,p-Xylene                  | 99.5   | 0.49            | 2.00            | ug/kg | 100         |                                                   | 99.5 | 76-121      |     |           |       |
| o-Xylene                    | 50.0   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 100  | 67-132      |     |           |       |
| Xylenes, total              | 149    | 0.70            | 2.00            | ug/kg | 150         |                                                   | 99.6 | 67-132      |     |           |       |
| Styrene                     | 48.8   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 97.6 | 80-120      |     |           |       |
| Bromoform                   | 47.8   | 0.46            | 1.00            | ug/kg | 50.0        |                                                   | 95.7 | 64-128      |     |           |       |
| 1,1,2,2-Tetrachloroethane   | 45.3   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 90.5 | 74-120      |     |           |       |
| 1,2,3-Trichloropropane      | 45.7   | 1.50            | 2.00            | ug/kg | 50.0        |                                                   | 91.5 | 73-120      |     |           |       |
| trans-1,4-Dichloro 2-Butene | 43.9   | 2.75            | 5.00            | ug/kg | 50.0        |                                                   | 87.8 | 65-125      |     |           |       |
| n-Propylbenzene             | 49.7   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 99.3 | 72-124      |     |           |       |
| Bromobenzene                | 46.5   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 93.1 | 76-120      |     |           |       |
| Isopropyl Benzene           | 49.8   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 99.6 | 74-121      |     |           |       |
| 2-Chlorotoluene             | 47.9   | 0.22            | 1.00            | ug/kg | 50.0        |                                                   | 95.8 | 75-120      |     |           |       |
| 4-Chlorotoluene             | 47.6   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 95.1 | 69-124      |     |           |       |
| t-Butylbenzene              | 49.3   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 98.6 | 72-122      |     |           |       |
| 1,3,5-Trimethylbenzene      | 49.4   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 98.8 | 74-122      |     |           |       |
| 1,2,4-Trimethylbenzene      | 48.1   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 96.2 | 75-121      |     |           |       |
| s-Butylbenzene              | 50.2   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 100  | 70-128      |     |           |       |
| 4-Isopropyl Toluene         | 49.9   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 99.8 | 75-125      |     |           |       |
| 1,3-Dichlorobenzene         | 46.5   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 93.0 | 75-120      |     |           |       |
| 1,4-Dichlorobenzene         | 46.2   | 0.43            | 1.00            | ug/kg | 50.0        |                                                   | 92.5 | 73-120      |     |           |       |
| n-Butylbenzene              | 50.0   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 100  | 73-130      |     |           |       |
| 1,2-Dichlorobenzene         | 45.7   | 0.65            | 1.00            | ug/kg | 50.0        |                                                   | 91.5 | 76-120      |     |           |       |
| 1,2-Dibromo-3-chloropropane | 48.2   | 2.36            | 5.00            | ug/kg | 50.0        |                                                   | 96.4 | 72-136      |     |           |       |
| 1,2,4-Trichlorobenzene      | 47.4   | 1.82            | 5.00            | ug/kg | 50.0        |                                                   | 94.8 | 66-140      |     |           |       |
| Hexachloro-1,3-Butadiene    | 52.7   | 4.17            | 5.00            | ug/kg | 50.0        |                                                   | 105  | 67-133      |     |           |       |
| Naphthalene                 | 47.0   | 2.46            | 5.00            | ug/kg | 50.0        |                                                   | 93.9 | 69-125      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD    | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|----------------|--------|--------------|-------|
| LCS (BMC0620-BS1)                                 |        |                    |                    |       |                |                  |                |        |              |       |
| Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 15:14 |        |                    |                    |       |                |                  |                |        |              |       |
| 1,2,3-Trichlorobenzene                            | 47.5   | 2.32               | 5.00               | ug/kg | 50.0           |                  | 95.0           | 68-132 |              |       |
| Dichlorodifluoromethane                           | 54.6   | 0.40               | 1.00               | ug/kg | 50.0           |                  | 109            | 67-142 |              |       |
| Methyl tert-butyl Ether                           | 46.3   | 0.25               | 1.00               | ug/kg | 50.0           |                  | 92.5           | 79-127 |              |       |
| 2-Pentanone                                       | 244    | 2.15               | 5.00               | ug/kg | 250            |                  | 97.8           | 77-120 |              |       |
| Surrogate: 1,2-Dichloroethane-d4                  | 49.7   |                    |                    | ug/kg | 50.0           |                  | 99.5           | 80-149 |              |       |
| Surrogate: Toluene-d8                             | 50.0   |                    |                    | ug/kg | 50.0           |                  | 100            | 77-120 |              |       |
| Surrogate: 4-Bromofluorobenzene                   | 50.4   |                    |                    | ug/kg | 50.0           |                  | 101            | 80-120 |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4                 | 48.6   |                    |                    | ug/kg | 50.0           |                  | 97.1           | 80-120 |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|------|-----------|-------|
| LCS Dup (BMC0620-BSD1)                |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 15:39 |      |             |      |           |       |
| Chloromethane                         | 51.5   | 0.38            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 64-132      | 3.87 | 30        |       |
| Vinyl Chloride                        | 55.5   | 0.34            | 1.00            | ug/kg | 50.0        |                                                   | 111  | 74-135      | 3.28 | 30        |       |
| Bromomethane                          | 52.7   | 1.20            | 2.00            | ug/kg | 50.0        |                                                   | 105  | 53-144      | 0.92 | 30        |       |
| Chloroethane                          | 53.3   | 1.24            | 2.00            | ug/kg | 50.0        |                                                   | 107  | 55-149      | 5.02 | 30        |       |
| Trichlorofluoromethane                | 60.8   | 0.98            | 2.00            | ug/kg | 50.0        |                                                   | 122  | 61-164      | 6.09 | 30        |       |
| Acrolein                              | 254    | 1.75            | 5.00            | ug/kg | 250         |                                                   | 101  | 59-140      | 3.10 | 30        |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 54.9   | 0.85            | 2.00            | ug/kg | 50.0        |                                                   | 110  | 74-143      | 3.44 | 30        |       |
| Acetone                               | 234    | 6.35            | 10.0            | ug/kg | 250         |                                                   | 93.7 | 48-137      | 2.14 | 30        |       |
| 1,1-Dichloroethene                    | 52.9   | 0.37            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 77-134      | 3.93 | 30        |       |
| Iodomethane                           | 58.5   | 0.91            | 1.00            | ug/kg | 50.0        |                                                   | 117  | 31-162      | 9.97 | 30        |       |
| Methylene Chloride                    | 49.5   | 4.36            | 5.00            | ug/kg | 50.0        |                                                   | 99.1 | 69-129      | 3.62 | 30        |       |
| Acrylonitrile                         | 52.3   | 4.33            | 5.00            | ug/kg | 50.0        |                                                   | 105  | 69-134      | 3.91 | 30        |       |
| Carbon Disulfide                      | 51.3   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 71-137      | 3.69 | 30        |       |
| trans-1,2-Dichloroethene              | 53.7   | 0.53            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 79-130      | 5.32 | 30        |       |
| Vinyl Acetate                         | 51.3   | 3.25            | 5.00            | ug/kg | 50.0        |                                                   | 103  | 66-141      | 6.89 | 30        |       |
| 1,1-Dichloroethane                    | 52.4   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 80-126      | 3.12 | 30        |       |
| 2-Butanone                            | 257    | 2.44            | 5.00            | ug/kg | 250         |                                                   | 103  | 70-132      | 1.48 | 30        |       |
| 2,2-Dichloropropane                   | 54.3   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 77-138      | 2.44 | 30        |       |
| cis-1,2-Dichloroethene                | 51.2   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 80-125      | 4.24 | 30        |       |
| Chloroform                            | 51.6   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 80-126      | 6.23 | 30        |       |
| Bromochloromethane                    | 51.6   | 0.40            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 80-129      | 6.52 | 30        |       |
| 1,1,1-Trichloroethane                 | 53.6   | 0.60            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 78-133      | 3.18 | 30        |       |
| 1,1-Dichloropropene                   | 54.4   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 63-145      | 3.07 | 30        |       |
| Carbon tetrachloride                  | 56.3   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 113  | 71-129      | 3.48 | 30        |       |
| 1,2-Dichloroethane                    | 52.8   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 76-120      | 7.87 | 30        |       |
| Benzene                               | 53.7   | 0.17            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 80-120      | 4.28 | 30        |       |
| Trichloroethene                       | 54.0   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 80-120      | 3.69 | 30        |       |
| 1,2-Dichloropropane                   | 51.8   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 79-120      | 5.75 | 30        |       |
| Bromodichloromethane                  | 53.1   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-122      | 6.35 | 30        |       |
| Dibromomethane                        | 52.2   | 0.36            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-120      | 2.93 | 30        |       |
| 2-Chloroethyl vinyl ether             | 51.6   | 3.02            | 5.00            | ug/kg | 50.0        |                                                   | 103  | 51-129      | 8.91 | 30        |       |
| 4-Methyl-2-Pentanone                  | 262    | 1.37            | 5.00            | ug/kg | 250         |                                                   | 105  | 73-121      | 5.69 | 30        |       |
| cis-1,3-Dichloropropene               | 52.2   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-120      | 6.39 | 30        |       |
| Toluene                               | 50.8   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 75-120      | 3.28 | 30        |       |
| trans-1,3-Dichloropropene             | 51.8   | 0.41            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-124      | 5.81 | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0620-BSD1)      |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 15:39 |      |             |       |           |       |
| 2-Hexanone                  | 262    | 1.27            | 5.00            | ug/kg | 250         |                                                   | 105  | 68-122      | 6.43  | 30        |       |
| 1,1,2-Trichloroethane       | 49.9   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 99.8 | 79-120      | 6.34  | 30        |       |
| 1,3-Dichloropropane         | 51.8   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 78-120      | 7.09  | 30        |       |
| Tetrachloroethene           | 54.4   | 0.20            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 74-124      | 6.20  | 30        |       |
| Dibromochloromethane        | 53.9   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 74-125      | 9.72  | 30        |       |
| 1,2-Dibromoethane           | 51.4   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 80-120      | 5.30  | 30        |       |
| Chlorobenzene               | 53.4   | 0.21            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 78-120      | 7.85  | 30        |       |
| Ethylbenzene                | 53.7   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 80-125      | 6.05  | 30        |       |
| 1,1,1,2-Tetrachloroethane   | 50.9   | 0.35            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 80-120      | 6.19  | 30        |       |
| m,p-Xylene                  | 105    | 0.49            | 2.00            | ug/kg | 100         |                                                   | 105  | 76-121      | 5.63  | 30        |       |
| o-Xylene                    | 52.5   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 67-132      | 4.88  | 30        |       |
| Xylenes, total              | 158    | 0.70            | 2.00            | ug/kg | 150         |                                                   | 105  | 67-132      | 5.38  | 30        |       |
| Styrene                     | 52.5   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 80-120      | 7.23  | 30        |       |
| Bromoform                   | 50.5   | 0.46            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 64-128      | 5.33  | 30        |       |
| 1,1,2,2-Tetrachloroethane   | 48.8   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 97.6 | 74-120      | 7.53  | 30        |       |
| 1,2,3-Trichloropropane      | 48.9   | 1.50            | 2.00            | ug/kg | 50.0        |                                                   | 97.9 | 73-120      | 6.76  | 30        |       |
| trans-1,4-Dichloro 2-Butene | 47.7   | 2.75            | 5.00            | ug/kg | 50.0        |                                                   | 95.5 | 65-125      | 8.38  | 30        |       |
| n-Propylbenzene             | 52.7   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 72-124      | 5.89  | 30        |       |
| Bromobenzene                | 51.1   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 76-120      | 9.30  | 30        |       |
| Isopropyl Benzene           | 52.4   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 74-121      | 5.08  | 30        |       |
| 2-Chlorotoluene             | 51.8   | 0.22            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 75-120      | 7.74  | 30        |       |
| 4-Chlorotoluene             | 51.4   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 69-124      | 7.64  | 30        |       |
| t-Butylbenzene              | 51.9   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 72-122      | 5.03  | 30        |       |
| 1,3,5-Trimethylbenzene      | 52.6   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 74-122      | 6.31  | 30        |       |
| 1,2,4-Trimethylbenzene      | 52.2   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 75-121      | 8.21  | 30        |       |
| s-Butylbenzene              | 53.3   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 70-128      | 5.89  | 30        |       |
| 4-Isopropyl Toluene         | 53.4   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 75-125      | 6.81  | 30        |       |
| 1,3-Dichlorobenzene         | 50.8   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 75-120      | 8.79  | 30        |       |
| 1,4-Dichlorobenzene         | 51.0   | 0.43            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 73-120      | 9.80  | 30        |       |
| n-Butylbenzene              | 55.1   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 110  | 73-130      | 9.62  | 30        |       |
| 1,2-Dichlorobenzene         | 50.9   | 0.65            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 76-120      | 10.60 | 30        |       |
| 1,2-Dibromo-3-chloropropane | 51.0   | 2.36            | 5.00            | ug/kg | 50.0        |                                                   | 102  | 72-136      | 5.61  | 30        |       |
| 1,2,4-Trichlorobenzene      | 54.0   | 1.82            | 5.00            | ug/kg | 50.0        |                                                   | 108  | 66-140      | 13.10 | 30        |       |
| Hexachloro-1,3-Butadiene    | 56.3   | 4.17            | 5.00            | ug/kg | 50.0        |                                                   | 113  | 67-133      | 6.58  | 30        |       |
| Naphthalene                 | 51.9   | 2.46            | 5.00            | ug/kg | 50.0        |                                                   | 104  | 69-125      | 9.93  | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0620 - EPA 8260D

Instrument: NT5 Analyst: PKC

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-------|--------------|-------|
| LCS Dup (BMC0620-BSD1)            |        |                    |                    |       |                |                                                   |      |                |       |              |       |
|                                   |        |                    |                    |       |                | Prepared: 22-Mar-2024 Analyzed: 22-Mar-2024 15:39 |      |                |       |              |       |
| 1,2,3-Trichlorobenzene            | 52.8   | 2.32               | 5.00               | ug/kg | 50.0           |                                                   | 106  | 68-132         | 10.50 | 30           |       |
| Dichlorodifluoromethane           | 55.9   | 0.40               | 1.00               | ug/kg | 50.0           |                                                   | 112  | 67-142         | 2.32  | 30           |       |
| Methyl tert-butyl Ether           | 49.8   | 0.25               | 1.00               | ug/kg | 50.0           |                                                   | 99.7 | 79-127         | 7.44  | 30           |       |
| 2-Pentanone                       | 257    | 2.15               | 5.00               | ug/kg | 250            |                                                   | 103  | 77-120         | 5.02  | 30           |       |
| Surrogate: 1,2-Dichloroethane-d4  | 48.5   |                    |                    | ug/kg | 50.0           |                                                   | 97.1 | 80-149         |       |              |       |
| Surrogate: Toluene-d8             | 50.2   |                    |                    | ug/kg | 50.0           |                                                   | 100  | 77-120         |       |              |       |
| Surrogate: 4-Bromofluorobenzene   | 52.1   |                    |                    | ug/kg | 50.0           |                                                   | 104  | 80-120         |       |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49.9   |                    |                    | ug/kg | 50.0           |                                                   | 99.8 | 80-120         |       |              |       |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte                     | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|----------------|-----|--------------|-------|
| <b>Blank (BMC0646-BLK1)</b>           |        |                    |                    |       | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 10:46 |                  |                |     |              |       |
| Chloromethane                         | ND     | 0.27               | 0.50               | ug/L  |                                                   |                  |                |     |              | U     |
| Vinyl Chloride                        | ND     | 0.08               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Bromomethane                          | ND     | 0.23               | 1.00               | ug/L  |                                                   |                  |                |     |              | U     |
| Chloroethane                          | ND     | 0.05               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Trichlorofluoromethane                | ND     | 0.13               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Acrolein                              | ND     | 2.70               | 5.00               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND     | 0.11               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Acetone                               | ND     | 1.91               | 5.00               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,1-Dichloroethene                    | ND     | 0.08               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Iodomethane                           | ND     | 0.15               | 1.00               | ug/L  |                                                   |                  |                |     |              | U     |
| Methylene Chloride                    | ND     | 0.53               | 1.00               | ug/L  |                                                   |                  |                |     |              | U     |
| Acrylonitrile                         | ND     | 0.40               | 1.00               | ug/L  |                                                   |                  |                |     |              | U     |
| Carbon Disulfide                      | ND     | 0.06               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| trans-1,2-Dichloroethene              | ND     | 0.07               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Vinyl Acetate                         | ND     | 0.12               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,1-Dichloroethane                    | ND     | 0.04               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 2-Butanone                            | ND     | 1.77               | 5.00               | ug/L  |                                                   |                  |                |     |              | U     |
| 2,2-Dichloropropane                   | ND     | 0.11               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| cis-1,2-Dichloroethene                | ND     | 0.08               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Chloroform                            | ND     | 0.05               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Bromochloromethane                    | ND     | 0.09               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,1,1-Trichloroethane                 | ND     | 0.08               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,1-Dichloropropene                   | ND     | 0.09               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Carbon tetrachloride                  | ND     | 0.09               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,2-Dichloroethane                    | ND     | 0.08               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Benzene                               | ND     | 0.05               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Trichloroethene                       | ND     | 0.07               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,2-Dichloropropane                   | ND     | 0.07               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Bromodichloromethane                  | ND     | 0.09               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Dibromomethane                        | ND     | 0.06               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 2-Chloroethyl vinyl ether             | ND     | 0.55               | 1.00               | ug/L  |                                                   |                  |                |     |              | U     |
| 4-Methyl-2-Pentanone                  | ND     | 1.90               | 5.00               | ug/L  |                                                   |                  |                |     |              | U     |
| cis-1,3-Dichloropropene               | ND     | 0.09               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| Toluene                               | ND     | 0.05               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| trans-1,3-Dichloropropene             | ND     | 0.09               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |
| 2-Hexanone                            | ND     | 2.06               | 5.00               | ug/L  |                                                   |                  |                |     |              | U     |
| 1,1,2-Trichloroethane                 | ND     | 0.10               | 0.20               | ug/L  |                                                   |                  |                |     |              | U     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0646-BLK1)        |        |                 |                 |       |             | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 10:46 |      |             |     |           |       |
| 1,3-Dichloropropane         | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Tetrachloroethene           | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Dibromochloromethane        | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromoethane           | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Chlorobenzene               | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Ethylbenzene                | ND     | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| m,p-Xylene                  | ND     | 0.14            | 0.40            | ug/L  |             |                                                   |      |             |     |           | U     |
| o-Xylene                    | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Xylenes, total              | ND     | 0.22            | 0.60            | ug/L  |             |                                                   |      |             |     |           | U     |
| Styrene                     | ND     | 0.09            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromoform                   | ND     | 0.15            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.03            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichloropropane      | ND     | 0.16            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| trans-1,4-Dichloro 2-Butene | ND     | 0.60            | 1.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| n-Propylbenzene             | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Bromobenzene                | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| Isopropyl Benzene           | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Chlorotoluene             | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Chlorotoluene             | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| t-Butylbenzene              | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene      | ND     | 0.07            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trimethylbenzene      | 0.05   | 0.05            | 0.20            | ug/L  |             |                                                   |      |             |     |           | J     |
| s-Butylbenzene              | ND     | 0.06            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Isopropyl Toluene         | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene         | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene         | ND     | 0.10            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| n-Butylbenzene              | ND     | 0.18            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene         | ND     | 0.08            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromo-3-chloropropane | ND     | 0.39            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene      | ND     | 0.21            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| Hexachloro-1,3-Butadiene    | ND     | 1.00            | 2.00            | ug/L  |             |                                                   |      |             |     |           | U     |
| Naphthalene                 | ND     | 0.27            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichlorobenzene      | ND     | 0.25            | 0.50            | ug/L  |             |                                                   |      |             |     |           | U     |
| Dichlorodifluoromethane     | ND     | 0.13            | 0.20            | ug/L  |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| <b>Blank (BMC0646-BLK1)</b>       |        |                    |                    |       |                | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 10:46 |      |                |     |              |       |
| Methyl tert-butyl Ether           | ND     | 0.14               | 0.50               | ug/L  |                |                                                   |      |                |     |              | U     |
| 2-Pentanone                       | ND     | 2.34               | 5.00               | ug/L  |                |                                                   |      |                |     |              | U     |
| Surrogate: 1,2-Dichloroethane-d4  | 4.94   |                    |                    | ug/L  | 5.00           |                                                   | 98.8 | 80-129         |     |              |       |
| Surrogate: Toluene-d8             | 4.90   |                    |                    | ug/L  | 5.00           |                                                   | 98.0 | 80-120         |     |              |       |
| Surrogate: 4-Bromofluorobenzene   | 4.93   |                    |                    | ug/L  | 5.00           |                                                   | 98.7 | 80-120         |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.09   |                    |                    | ug/L  | 5.00           |                                                   | 102  | 80-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0646-BS1)                     |        |                 |                 |       |             | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 09:17 |      |             |     |           |       |
| Chloromethane                         | 9.92   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 99.2 | 60-138      |     |           |       |
| Vinyl Chloride                        | 9.79   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 97.9 | 66-133      |     |           |       |
| Bromomethane                          | 9.96   | 0.23            | 1.00            | ug/L  | 10.0        |                                                   | 99.6 | 72-131      |     |           |       |
| Chloroethane                          | 9.33   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 93.3 | 60-155      |     |           |       |
| Trichlorofluoromethane                | 9.64   | 0.13            | 0.20            | ug/L  | 10.0        |                                                   | 96.4 | 62-141      |     |           |       |
| Acrolein                              | 39.0   | 2.70            | 5.00            | ug/L  | 50.0        |                                                   | 78.0 | 52-190      |     |           | Q     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 9.69   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 96.9 | 76-129      |     |           |       |
| Acetone                               | 45.8   | 1.91            | 5.00            | ug/L  | 50.0        |                                                   | 91.7 | 58-142      |     |           |       |
| 1,1-Dichloroethene                    | 9.78   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 97.8 | 69-135      |     |           |       |
| Iodomethane                           | 9.79   | 0.15            | 1.00            | ug/L  | 10.0        |                                                   | 97.9 | 56-147      |     |           |       |
| Methylene Chloride                    | 9.58   | 0.53            | 1.00            | ug/L  | 10.0        |                                                   | 95.8 | 65-135      |     |           |       |
| Acrylonitrile                         | 9.07   | 0.40            | 1.00            | ug/L  | 10.0        |                                                   | 90.7 | 64-134      |     |           |       |
| Carbon Disulfide                      | 9.56   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 95.6 | 78-125      |     |           |       |
| trans-1,2-Dichloroethene              | 9.63   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 96.3 | 78-128      |     |           |       |
| Vinyl Acetate                         | 10.2   | 0.12            | 0.20            | ug/L  | 10.0        |                                                   | 102  | 55-138      |     |           |       |
| 1,1-Dichloroethane                    | 9.79   | 0.04            | 0.20            | ug/L  | 10.0        |                                                   | 97.9 | 76-124      |     |           |       |
| 2-Butanone                            | 47.9   | 1.77            | 5.00            | ug/L  | 50.0        |                                                   | 95.8 | 61-140      |     |           |       |
| 2,2-Dichloropropane                   | 9.64   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 96.4 | 66-147      |     |           |       |
| cis-1,2-Dichloroethene                | 9.32   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 93.2 | 80-121      |     |           |       |
| Chloroform                            | 9.89   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 98.9 | 80-122      |     |           |       |
| Bromochloromethane                    | 9.41   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 94.1 | 80-121      |     |           |       |
| 1,1,1-Trichloroethane                 | 9.74   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 97.4 | 79-123      |     |           |       |
| 1,1-Dichloropropene                   | 9.78   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 97.8 | 80-127      |     |           |       |
| Carbon tetrachloride                  | 8.92   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 89.2 | 53-137      |     |           |       |
| 1,2-Dichloroethane                    | 9.83   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 98.3 | 75-123      |     |           |       |
| Benzene                               | 9.94   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 99.4 | 80-120      |     |           |       |
| Trichloroethene                       | 9.76   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 97.6 | 80-120      |     |           |       |
| 1,2-Dichloropropane                   | 9.71   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 97.1 | 80-120      |     |           |       |
| Bromodichloromethane                  | 9.51   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 95.1 | 80-121      |     |           |       |
| Dibromomethane                        | 9.50   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 95.0 | 80-120      |     |           |       |
| 2-Chloroethyl vinyl ether             | 9.60   | 0.55            | 1.00            | ug/L  | 10.0        |                                                   | 96.0 | 64-120      |     |           |       |
| 4-Methyl-2-Pentanone                  | 48.4   | 1.90            | 5.00            | ug/L  | 50.0        |                                                   | 96.8 | 67-133      |     |           |       |
| cis-1,3-Dichloropropene               | 9.73   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 97.3 | 80-124      |     |           |       |
| Toluene                               | 9.63   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 96.3 | 80-120      |     |           |       |
| trans-1,3-Dichloropropene             | 9.80   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 98.0 | 71-127      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0646-BS1)           |        |                 |                 |       |             | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 09:17 |      |             |     |           |       |
| 2-Hexanone                  | 50.5   | 2.06            | 5.00            | ug/L  | 50.0        |                                                   | 101  | 69-133      |     |           |       |
| 1,1,2-Trichloroethane       | 9.79   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 97.9 | 80-121      |     |           |       |
| 1,3-Dichloropropane         | 9.95   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 99.5 | 80-120      |     |           |       |
| Tetrachloroethene           | 9.94   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 99.4 | 80-120      |     |           |       |
| Dibromochloromethane        | 10.0   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 100  | 65-135      |     |           |       |
| 1,2-Dibromoethane           | 9.33   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 93.3 | 80-121      |     |           |       |
| Chlorobenzene               | 10.0   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 100  | 80-120      |     |           |       |
| Ethylbenzene                | 10.2   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 102  | 80-120      |     |           |       |
| 1,1,1,2-Tetrachloroethane   | 9.90   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 99.0 | 80-120      |     |           |       |
| m,p-Xylene                  | 20.8   | 0.14            | 0.40            | ug/L  | 20.0        |                                                   | 104  | 80-121      |     |           |       |
| o-Xylene                    | 10.5   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 105  | 80-121      |     |           |       |
| Xylenes, total              | 31.3   | 0.22            | 0.60            | ug/L  | 30.0        |                                                   | 104  | 76-127      |     |           |       |
| Styrene                     | 10.4   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 104  | 80-124      |     |           |       |
| Bromoform                   | 10.3   | 0.15            | 0.20            | ug/L  | 10.0        |                                                   | 103  | 51-134      |     |           |       |
| 1,1,2,2-Tetrachloroethane   | 9.71   | 0.03            | 0.20            | ug/L  | 10.0        |                                                   | 97.1 | 77-123      |     |           |       |
| 1,2,3-Trichloropropane      | 9.95   | 0.16            | 0.50            | ug/L  | 10.0        |                                                   | 99.5 | 76-125      |     |           |       |
| trans-1,4-Dichloro 2-Butene | 9.33   | 0.60            | 1.00            | ug/L  | 10.0        |                                                   | 93.3 | 55-129      |     |           |       |
| n-Propylbenzene             | 10.8   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 108  | 78-130      |     |           |       |
| Bromobenzene                | 10.2   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 102  | 80-120      |     |           |       |
| Isopropyl Benzene           | 10.4   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 104  | 80-128      |     |           |       |
| 2-Chlorotoluene             | 10.2   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 102  | 78-122      |     |           |       |
| 4-Chlorotoluene             | 10.2   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 102  | 80-121      |     |           |       |
| t-Butylbenzene              | 10.5   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 105  | 78-125      |     |           |       |
| 1,3,5-Trimethylbenzene      | 10.5   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 105  | 80-129      |     |           |       |
| 1,2,4-Trimethylbenzene      | 10.6   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 106  | 80-127      |     |           |       |
| s-Butylbenzene              | 10.8   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 108  | 78-129      |     |           |       |
| 4-Isopropyl Toluene         | 10.6   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 106  | 79-130      |     |           |       |
| 1,3-Dichlorobenzene         | 10.3   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 103  | 80-120      |     |           |       |
| 1,4-Dichlorobenzene         | 10.1   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 101  | 80-120      |     |           |       |
| n-Butylbenzene              | 11.0   | 0.18            | 0.20            | ug/L  | 10.0        |                                                   | 110  | 74-129      |     |           |       |
| 1,2-Dichlorobenzene         | 10.3   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 103  | 80-120      |     |           |       |
| 1,2-Dibromo-3-chloropropane | 10.3   | 0.39            | 0.50            | ug/L  | 10.0        |                                                   | 103  | 62-123      |     |           |       |
| 1,2,4-Trichlorobenzene      | 12.2   | 0.21            | 0.50            | ug/L  | 10.0        |                                                   | 122  | 64-124      |     |           | Q     |
| Hexachloro-1,3-Butadiene    | 13.4   | 1.00            | 2.00            | ug/L  | 10.0        |                                                   | 134  | 65-145      |     |           | Q     |
| Naphthalene                 | 12.0   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 120  | 50-134      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| <b>LCS (BMC0646-BS1)</b>          |        |                 |                 |       |             | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 09:17 |      |             |     |           |       |
| 1,2,3-Trichlorobenzene            | 13.0   | 0.25            | 0.50            | ug/L  | 10.0        |                                                   | 130  | 49-133      |     |           | Q     |
| Dichlorodifluoromethane           | 10.3   | 0.13            | 0.20            | ug/L  | 10.0        |                                                   | 103  | 48-147      |     |           |       |
| Methyl tert-butyl Ether           | 9.82   | 0.14            | 0.50            | ug/L  | 10.0        |                                                   | 98.2 | 71-132      |     |           |       |
| 2-Pentanone                       | 45.9   | 2.34            | 5.00            | ug/L  | 50.0        |                                                   | 91.7 | 69-134      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4  | 4.97   |                 |                 | ug/L  | 5.00        |                                                   | 99.3 | 80-129      |     |           |       |
| Surrogate: Toluene-d8             | 5.06   |                 |                 | ug/L  | 5.00        |                                                   | 101  | 80-120      |     |           |       |
| Surrogate: 4-Bromofluorobenzene   | 5.04   |                 |                 | ug/L  | 5.00        |                                                   | 101  | 80-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.11   |                 |                 | ug/L  | 5.00        |                                                   | 102  | 80-120      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0646-BSD1)                |        |                 |                 |       |             | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 10:02 |      |             |       |           |       |
| Chloromethane                         | 8.27   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 82.7 | 60-138      | 18.20 | 30        |       |
| Vinyl Chloride                        | 8.71   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 87.1 | 66-133      | 11.70 | 30        |       |
| Bromomethane                          | 8.60   | 0.23            | 1.00            | ug/L  | 10.0        |                                                   | 86.0 | 72-131      | 14.70 | 30        |       |
| Chloroethane                          | 8.68   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 86.8 | 60-155      | 7.14  | 30        |       |
| Trichlorofluoromethane                | 8.65   | 0.13            | 0.20            | ug/L  | 10.0        |                                                   | 86.5 | 62-141      | 10.80 | 30        |       |
| Acrolein                              | 40.2   | 2.70            | 5.00            | ug/L  | 50.0        |                                                   | 80.4 | 52-190      | 3.00  | 30        | Q     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 8.38   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 83.8 | 76-129      | 14.60 | 30        |       |
| Acetone                               | 41.2   | 1.91            | 5.00            | ug/L  | 50.0        |                                                   | 82.3 | 58-142      | 10.70 | 30        |       |
| 1,1-Dichloroethene                    | 8.41   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 84.1 | 69-135      | 15.10 | 30        |       |
| Iodomethane                           | 8.57   | 0.15            | 1.00            | ug/L  | 10.0        |                                                   | 85.7 | 56-147      | 13.20 | 30        |       |
| Methylene Chloride                    | 8.50   | 0.53            | 1.00            | ug/L  | 10.0        |                                                   | 85.0 | 65-135      | 11.90 | 30        |       |
| Acrylonitrile                         | 8.21   | 0.40            | 1.00            | ug/L  | 10.0        |                                                   | 82.1 | 64-134      | 9.87  | 30        |       |
| Carbon Disulfide                      | 8.30   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 83.0 | 78-125      | 14.00 | 30        |       |
| trans-1,2-Dichloroethene              | 8.60   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 86.0 | 78-128      | 11.30 | 30        |       |
| Vinyl Acetate                         | 9.14   | 0.12            | 0.20            | ug/L  | 10.0        |                                                   | 91.4 | 55-138      | 11.20 | 30        |       |
| 1,1-Dichloroethane                    | 8.56   | 0.04            | 0.20            | ug/L  | 10.0        |                                                   | 85.6 | 76-124      | 13.40 | 30        |       |
| 2-Butanone                            | 44.1   | 1.77            | 5.00            | ug/L  | 50.0        |                                                   | 88.2 | 61-140      | 8.26  | 30        |       |
| 2,2-Dichloropropane                   | 8.17   | 0.11            | 0.20            | ug/L  | 10.0        |                                                   | 81.7 | 66-147      | 16.60 | 30        |       |
| cis-1,2-Dichloroethene                | 8.23   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 82.3 | 80-121      | 12.50 | 30        |       |
| Chloroform                            | 8.63   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 86.3 | 80-122      | 13.70 | 30        |       |
| Bromochloromethane                    | 8.42   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 84.2 | 80-121      | 11.10 | 30        |       |
| 1,1,1-Trichloroethane                 | 8.72   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 87.2 | 79-123      | 11.10 | 30        |       |
| 1,1-Dichloropropene                   | 8.76   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 87.6 | 80-127      | 11.00 | 30        |       |
| Carbon tetrachloride                  | 8.00   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 80.0 | 53-137      | 10.90 | 30        |       |
| 1,2-Dichloroethane                    | 9.01   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 90.1 | 75-123      | 8.67  | 30        |       |
| Benzene                               | 8.87   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 88.7 | 80-120      | 11.40 | 30        |       |
| Trichloroethene                       | 8.70   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 87.0 | 80-120      | 11.50 | 30        |       |
| 1,2-Dichloropropane                   | 8.75   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 87.5 | 80-120      | 10.40 | 30        |       |
| Bromodichloromethane                  | 8.71   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 87.1 | 80-121      | 8.72  | 30        |       |
| Dibromomethane                        | 8.75   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 87.5 | 80-120      | 8.27  | 30        |       |
| 2-Chloroethyl vinyl ether             | 8.56   | 0.55            | 1.00            | ug/L  | 10.0        |                                                   | 85.6 | 64-120      | 11.40 | 30        |       |
| 4-Methyl-2-Pentanone                  | 44.3   | 1.90            | 5.00            | ug/L  | 50.0        |                                                   | 88.5 | 67-133      | 8.96  | 30        |       |
| cis-1,3-Dichloropropene               | 8.60   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 86.0 | 80-124      | 12.30 | 30        |       |
| Toluene                               | 8.76   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 87.6 | 80-120      | 9.51  | 30        |       |
| trans-1,3-Dichloropropene             | 9.02   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 90.2 | 71-127      | 8.21  | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0646-BSD1)      |        |                 |                 |       |             | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 10:02 |      |             |       |           |       |
| 2-Hexanone                  | 48.2   | 2.06            | 5.00            | ug/L  | 50.0        |                                                   | 96.5 | 69-133      | 4.52  | 30        |       |
| 1,1,2-Trichloroethane       | 8.96   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 89.6 | 80-121      | 8.83  | 30        |       |
| 1,3-Dichloropropane         | 9.43   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.3 | 80-120      | 5.32  | 30        |       |
| Tetrachloroethene           | 8.97   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 89.7 | 80-120      | 10.20 | 30        |       |
| Dibromochloromethane        | 9.16   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 91.6 | 65-135      | 8.86  | 30        |       |
| 1,2-Dibromoethane           | 8.51   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 85.1 | 80-121      | 9.16  | 30        |       |
| Chlorobenzene               | 9.14   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 91.4 | 80-120      | 9.16  | 30        |       |
| Ethylbenzene                | 9.62   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 96.2 | 80-120      | 5.89  | 30        |       |
| 1,1,1,2-Tetrachloroethane   | 8.87   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 88.7 | 80-120      | 10.90 | 30        |       |
| m,p-Xylene                  | 18.9   | 0.14            | 0.40            | ug/L  | 20.0        |                                                   | 94.5 | 80-121      | 9.83  | 30        |       |
| o-Xylene                    | 9.52   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 95.2 | 80-121      | 9.44  | 30        |       |
| Xylenes, total              | 28.4   | 0.22            | 0.60            | ug/L  | 30.0        |                                                   | 94.7 | 76-127      | 9.70  | 30        |       |
| Styrene                     | 9.58   | 0.09            | 0.20            | ug/L  | 10.0        |                                                   | 95.8 | 80-124      | 7.87  | 30        |       |
| Bromoform                   | 9.58   | 0.15            | 0.20            | ug/L  | 10.0        |                                                   | 95.8 | 51-134      | 7.12  | 30        |       |
| 1,1,2,2-Tetrachloroethane   | 8.89   | 0.03            | 0.20            | ug/L  | 10.0        |                                                   | 88.9 | 77-123      | 8.81  | 30        |       |
| 1,2,3-Trichloropropane      | 9.09   | 0.16            | 0.50            | ug/L  | 10.0        |                                                   | 90.9 | 76-125      | 9.03  | 30        |       |
| trans-1,4-Dichloro 2-Butene | 8.63   | 0.60            | 1.00            | ug/L  | 10.0        |                                                   | 86.3 | 55-129      | 7.80  | 30        |       |
| n-Propylbenzene             | 9.47   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 94.7 | 78-130      | 12.70 | 30        |       |
| Bromobenzene                | 9.00   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 90.0 | 80-120      | 12.10 | 30        |       |
| Isopropyl Benzene           | 9.10   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 91.0 | 80-128      | 12.80 | 30        |       |
| 2-Chlorotoluene             | 9.09   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 90.9 | 78-122      | 11.90 | 30        |       |
| 4-Chlorotoluene             | 8.92   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 89.2 | 80-121      | 12.90 | 30        |       |
| t-Butylbenzene              | 9.35   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 93.5 | 78-125      | 12.00 | 30        |       |
| 1,3,5-Trimethylbenzene      | 9.21   | 0.07            | 0.20            | ug/L  | 10.0        |                                                   | 92.1 | 80-129      | 13.10 | 30        |       |
| 1,2,4-Trimethylbenzene      | 9.36   | 0.05            | 0.20            | ug/L  | 10.0        |                                                   | 93.6 | 80-127      | 12.20 | 30        |       |
| s-Butylbenzene              | 9.55   | 0.06            | 0.20            | ug/L  | 10.0        |                                                   | 95.5 | 78-129      | 12.20 | 30        |       |
| 4-Isopropyl Toluene         | 9.41   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 94.1 | 79-130      | 11.70 | 30        |       |
| 1,3-Dichlorobenzene         | 9.16   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 91.6 | 80-120      | 12.00 | 30        |       |
| 1,4-Dichlorobenzene         | 9.01   | 0.10            | 0.20            | ug/L  | 10.0        |                                                   | 90.1 | 80-120      | 11.50 | 30        |       |
| n-Butylbenzene              | 9.22   | 0.18            | 0.20            | ug/L  | 10.0        |                                                   | 92.2 | 74-129      | 17.90 | 30        |       |
| 1,2-Dichlorobenzene         | 9.18   | 0.08            | 0.20            | ug/L  | 10.0        |                                                   | 91.8 | 80-120      | 11.20 | 30        |       |
| 1,2-Dibromo-3-chloropropane | 9.12   | 0.39            | 0.50            | ug/L  | 10.0        |                                                   | 91.2 | 62-123      | 12.60 | 30        |       |
| 1,2,4-Trichlorobenzene      | 10.6   | 0.21            | 0.50            | ug/L  | 10.0        |                                                   | 106  | 64-124      | 13.70 | 30        | Q     |
| Hexachloro-1,3-Butadiene    | 11.0   | 1.00            | 2.00            | ug/L  | 10.0        |                                                   | 110  | 65-145      | 19.60 | 30        | Q     |
| Naphthalene                 | 10.7   | 0.27            | 0.50            | ug/L  | 10.0        |                                                   | 107  | 50-134      | 11.00 | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0646 - EPA 8260D

Instrument: NT3 Analyst: LN

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-------|--------------|-------|
| LCS Dup (BMC0646-BSD1)            |        |                    |                    |       |                |                                                   |      |                |       |              |       |
|                                   |        |                    |                    |       |                | Prepared: 25-Mar-2024 Analyzed: 25-Mar-2024 10:02 |      |                |       |              |       |
| 1,2,3-Trichlorobenzene            | 11.6   | 0.25               | 0.50               | ug/L  | 10.0           |                                                   | 116  | 49-133         | 11.20 | 30           | Q     |
| Dichlorodifluoromethane           | 8.93   | 0.13               | 0.20               | ug/L  | 10.0           |                                                   | 89.3 | 48-147         | 14.20 | 30           |       |
| Methyl tert-butyl Ether           | 8.83   | 0.14               | 0.50               | ug/L  | 10.0           |                                                   | 88.3 | 71-132         | 10.70 | 30           |       |
| 2-Pentanone                       | 42.2   | 2.34               | 5.00               | ug/L  | 50.0           |                                                   | 84.4 | 69-134         | 8.24  | 30           |       |
| Surrogate: 1,2-Dichloroethane-d4  | 4.95   |                    |                    | ug/L  | 5.00           |                                                   | 98.9 | 80-129         |       |              |       |
| Surrogate: Toluene-d8             | 4.93   |                    |                    | ug/L  | 5.00           |                                                   | 98.6 | 80-120         |       |              |       |
| Surrogate: 4-Bromofluorobenzene   | 4.94   |                    |                    | ug/L  | 5.00           |                                                   | 98.8 | 80-120         |       |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 5.11   |                    |                    | ug/L  | 5.00           |                                                   | 102  | 80-120         |       |              |       |





CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0730-BLK1)                  |        |                 |                 |       |             | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:54 |      |             |     |           |       |
| Chloromethane                         | ND     | 0.38            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Vinyl Chloride                        | ND     | 0.34            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromomethane                          | ND     | 1.20            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Chloroethane                          | ND     | 1.24            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Trichlorofluoromethane                | ND     | 0.98            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Acrolein                              | ND     | 1.75            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND     | 0.85            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Acetone                               | ND     | 6.35            | 10.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1-Dichloroethene                    | ND     | 0.37            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Iodomethane                           | ND     | 0.91            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Methylene Chloride                    | ND     | 4.36            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Acrylonitrile                         | ND     | 4.33            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Carbon Disulfide                      | ND     | 0.33            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| trans-1,2-Dichloroethene              | ND     | 0.53            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Vinyl Acetate                         | ND     | 3.25            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1-Dichloroethane                    | ND     | 0.28            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Butanone                            | ND     | 2.44            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,2-Dichloropropane                   | ND     | 0.31            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| cis-1,2-Dichloroethene                | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Chloroform                            | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromochloromethane                    | ND     | 0.40            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,1-Trichloroethane                 | ND     | 0.60            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1-Dichloropropene                   | ND     | 0.28            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Carbon tetrachloride                  | ND     | 0.31            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dichloroethane                    | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzene                               | ND     | 0.17            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Trichloroethene                       | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dichloropropane                   | ND     | 0.33            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromodichloromethane                  | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibromomethane                        | ND     | 0.36            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Chloroethyl vinyl ether             | ND     | 3.02            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Methyl-2-Pentanone                  | ND     | 1.37            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| cis-1,3-Dichloropropene               | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Toluene                               | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| trans-1,3-Dichloropropene             | ND     | 0.41            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Hexanone                            | ND     | 1.27            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,2-Trichloroethane                 | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| <b>Blank (BMC0730-BLK1)</b> |        |                 |                 |       |             | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:54 |      |             |     |           |       |
| 1,3-Dichloropropane         | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Tetrachloroethene           | ND     | 0.20            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibromochloromethane        | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromoethane           | ND     | 0.31            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Chlorobenzene               | ND     | 0.21            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Ethylbenzene                | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.35            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| m,p-Xylene                  | ND     | 0.49            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| o-Xylene                    | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Xylenes, total              | ND     | 0.70            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Styrene                     | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromoform                   | ND     | 0.46            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,1,2,2-Tetrachloroethane | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichloropropane      | ND     | 1.50            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| trans-1,4-Dichloro 2-Butene | ND     | 2.75            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| n-Propylbenzene             | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromobenzene                | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Isopropyl Benzene           | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Chlorotoluene             | ND     | 0.22            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chlorotoluene             | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| t-Butylbenzene              | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene      | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trimethylbenzene      | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| s-Butylbenzene              | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Isopropyl Toluene         | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene         | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene         | ND     | 0.43            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| n-Butylbenzene              | ND     | 0.28            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene         | ND     | 0.65            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromo-3-chloropropane | ND     | 2.36            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene      | ND     | 1.82            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachloro-1,3-Butadiene    | ND     | 4.17            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Naphthalene                 | ND     | 2.46            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichlorobenzene      | ND     | 2.32            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dichlorodifluoromethane     | ND     | 0.40            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
| Blank (BMC0730-BLK1)                              |        |                    |                    |       |                |                  |                |     |              |       |
| Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:54 |        |                    |                    |       |                |                  |                |     |              |       |
| Methyl tert-butyl Ether                           | ND     | 0.25               | 1.00               | ug/kg |                |                  |                |     |              | U     |
| 2-Pentanone                                       | ND     | 2.15               | 5.00               | ug/kg |                |                  |                |     |              | U     |
| Surrogate: 1,2-Dichloroethane-d4                  | 47.3   |                    |                    | ug/kg | 50.0           |                  | 94.6 80-149    |     |              |       |
| Surrogate: Toluene-d8                             | 50.0   |                    |                    | ug/kg | 50.0           |                  | 100 77-120     |     |              |       |
| Surrogate: 4-Bromofluorobenzene                   | 49.7   |                    |                    | ug/kg | 50.0           |                  | 99.5 80-120    |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4                 | 49.1   |                    |                    | ug/kg | 50.0           |                  | 98.2 80-120    |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0730-BS1)                     |        |                 |                 |       |             | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:06 |      |             |     |           |       |
| Chloromethane                         | 49.7   | 0.38            | 1.00            | ug/kg | 50.0        |                                                   | 99.5 | 64-132      |     |           |       |
| Vinyl Chloride                        | 53.9   | 0.34            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 74-135      |     |           |       |
| Bromomethane                          | 57.0   | 1.20            | 2.00            | ug/kg | 50.0        |                                                   | 114  | 53-144      |     |           |       |
| Chloroethane                          | 49.1   | 1.24            | 2.00            | ug/kg | 50.0        |                                                   | 98.2 | 55-149      |     |           |       |
| Trichlorofluoromethane                | 55.7   | 0.98            | 2.00            | ug/kg | 50.0        |                                                   | 111  | 61-164      |     |           |       |
| Acrolein                              | 239    | 1.75            | 5.00            | ug/kg | 250         |                                                   | 95.4 | 59-140      |     |           |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 53.5   | 0.85            | 2.00            | ug/kg | 50.0        |                                                   | 107  | 74-143      |     |           |       |
| Acetone                               | 278    | 6.35            | 10.0            | ug/kg | 250         |                                                   | 111  | 48-137      |     |           |       |
| 1,1-Dichloroethene                    | 52.0   | 0.37            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 77-134      |     |           |       |
| Iodomethane                           | 49.4   | 0.91            | 1.00            | ug/kg | 50.0        |                                                   | 98.9 | 31-162      |     |           |       |
| Methylene Chloride                    | 54.5   | 4.36            | 5.00            | ug/kg | 50.0        |                                                   | 109  | 69-129      |     |           |       |
| Acrylonitrile                         | 52.6   | 4.33            | 5.00            | ug/kg | 50.0        |                                                   | 105  | 69-134      |     |           |       |
| Carbon Disulfide                      | 52.4   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 71-137      |     |           |       |
| trans-1,2-Dichloroethene              | 54.0   | 0.53            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 79-130      |     |           |       |
| Vinyl Acetate                         | 54.5   | 3.25            | 5.00            | ug/kg | 50.0        |                                                   | 109  | 66-141      |     |           |       |
| 1,1-Dichloroethane                    | 53.5   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 80-126      |     |           |       |
| 2-Butanone                            | 273    | 2.44            | 5.00            | ug/kg | 250         |                                                   | 109  | 70-132      |     |           |       |
| 2,2-Dichloropropane                   | 54.0   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 77-138      |     |           |       |
| cis-1,2-Dichloroethene                | 52.2   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-125      |     |           |       |
| Chloroform                            | 53.3   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 80-126      |     |           |       |
| Bromochloromethane                    | 54.4   | 0.40            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 80-129      |     |           |       |
| 1,1,1-Trichloroethane                 | 54.0   | 0.60            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 78-133      |     |           |       |
| 1,1-Dichloropropene                   | 48.7   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 97.4 | 63-145      |     |           |       |
| Carbon tetrachloride                  | 50.9   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 71-129      |     |           |       |
| 1,2-Dichloroethane                    | 52.6   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 76-120      |     |           |       |
| Benzene                               | 50.4   | 0.17            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-120      |     |           |       |
| Trichloroethene                       | 48.9   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 97.8 | 80-120      |     |           |       |
| 1,2-Dichloropropane                   | 51.4   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 79-120      |     |           |       |
| Bromodichloromethane                  | 52.2   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-122      |     |           |       |
| Dibromomethane                        | 50.2   | 0.36            | 1.00            | ug/kg | 50.0        |                                                   | 100  | 80-120      |     |           |       |
| 2-Chloroethyl vinyl ether             | 62.2   | 3.02            | 5.00            | ug/kg | 50.0        |                                                   | 124  | 51-129      |     |           | Q     |
| 4-Methyl-2-Pentanone                  | 261    | 1.37            | 5.00            | ug/kg | 250         |                                                   | 104  | 73-121      |     |           |       |
| cis-1,3-Dichloropropene               | 53.2   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-120      |     |           |       |
| Toluene                               | 48.7   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 97.4 | 75-120      |     |           |       |
| trans-1,3-Dichloropropene             | 53.3   | 0.41            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 80-124      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte           | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC<br>Limits | RPD    | RPD<br>Limit | Notes |
|-----------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|----------------|--------|--------------|-------|
| LCS (BMC0730-BS1)           |        |                    |                    |       | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:06 |                  |                |        |              |       |
| 2-Hexanone                  | 274    | 1.27               | 5.00               | ug/kg | 250                                               |                  | 110            | 68-122 |              |       |
| 1,1,2-Trichloroethane       | 51.2   | 0.27               | 1.00               | ug/kg | 50.0                                              |                  | 102            | 79-120 |              |       |
| 1,3-Dichloropropane         | 54.3   | 0.23               | 1.00               | ug/kg | 50.0                                              |                  | 109            | 78-120 |              |       |
| Tetrachloroethene           | 49.8   | 0.20               | 1.00               | ug/kg | 50.0                                              |                  | 99.5           | 74-124 |              |       |
| Dibromochloromethane        | 53.7   | 0.27               | 1.00               | ug/kg | 50.0                                              |                  | 107            | 74-125 |              |       |
| 1,2-Dibromoethane           | 52.8   | 0.31               | 1.00               | ug/kg | 50.0                                              |                  | 106            | 80-120 |              |       |
| Chlorobenzene               | 52.5   | 0.21               | 1.00               | ug/kg | 50.0                                              |                  | 105            | 78-120 |              |       |
| Ethylbenzene                | 50.4   | 0.23               | 1.00               | ug/kg | 50.0                                              |                  | 101            | 80-125 |              |       |
| 1,1,1,2-Tetrachloroethane   | 52.8   | 0.35               | 1.00               | ug/kg | 50.0                                              |                  | 106            | 80-120 |              |       |
| m,p-Xylene                  | 99.2   | 0.49               | 2.00               | ug/kg | 100                                               |                  | 99.2           | 76-121 |              |       |
| o-Xylene                    | 50.8   | 0.24               | 1.00               | ug/kg | 50.0                                              |                  | 102            | 67-132 |              |       |
| Xylenes, total              | 150    | 0.70               | 2.00               | ug/kg | 150                                               |                  | 100            | 67-132 |              |       |
| Styrene                     | 52.0   | 0.25               | 1.00               | ug/kg | 50.0                                              |                  | 104            | 80-120 |              |       |
| Bromoform                   | 57.7   | 0.46               | 1.00               | ug/kg | 50.0                                              |                  | 115            | 64-128 |              |       |
| 1,1,2,2-Tetrachloroethane   | 55.3   | 0.27               | 1.00               | ug/kg | 50.0                                              |                  | 111            | 74-120 |              |       |
| 1,2,3-Trichloropropane      | 54.7   | 1.50               | 2.00               | ug/kg | 50.0                                              |                  | 109            | 73-120 |              |       |
| trans-1,4-Dichloro 2-Butene | 55.1   | 2.75               | 5.00               | ug/kg | 50.0                                              |                  | 110            | 65-125 |              |       |
| n-Propylbenzene             | 50.6   | 0.24               | 1.00               | ug/kg | 50.0                                              |                  | 101            | 72-124 |              |       |
| Bromobenzene                | 50.8   | 0.25               | 1.00               | ug/kg | 50.0                                              |                  | 102            | 76-120 |              |       |
| Isopropyl Benzene           | 50.9   | 0.26               | 1.00               | ug/kg | 50.0                                              |                  | 102            | 74-121 |              |       |
| 2-Chlorotoluene             | 50.8   | 0.22               | 1.00               | ug/kg | 50.0                                              |                  | 102            | 75-120 |              |       |
| 4-Chlorotoluene             | 50.5   | 0.29               | 1.00               | ug/kg | 50.0                                              |                  | 101            | 69-124 |              |       |
| t-Butylbenzene              | 50.5   | 0.25               | 1.00               | ug/kg | 50.0                                              |                  | 101            | 72-122 |              |       |
| 1,3,5-Trimethylbenzene      | 50.4   | 0.25               | 1.00               | ug/kg | 50.0                                              |                  | 101            | 74-122 |              |       |
| 1,2,4-Trimethylbenzene      | 50.4   | 0.27               | 1.00               | ug/kg | 50.0                                              |                  | 101            | 75-121 |              |       |
| s-Butylbenzene              | 49.0   | 0.24               | 1.00               | ug/kg | 50.0                                              |                  | 98.1           | 70-128 |              |       |
| 4-Isopropyl Toluene         | 48.9   | 0.29               | 1.00               | ug/kg | 50.0                                              |                  | 97.9           | 75-125 |              |       |
| 1,3-Dichlorobenzene         | 49.3   | 0.24               | 1.00               | ug/kg | 50.0                                              |                  | 98.5           | 75-120 |              |       |
| 1,4-Dichlorobenzene         | 47.7   | 0.43               | 1.00               | ug/kg | 50.0                                              |                  | 95.3           | 73-120 |              |       |
| n-Butylbenzene              | 47.7   | 0.28               | 1.00               | ug/kg | 50.0                                              |                  | 95.4           | 73-130 |              |       |
| 1,2-Dichlorobenzene         | 49.8   | 0.65               | 1.00               | ug/kg | 50.0                                              |                  | 99.7           | 76-120 |              |       |
| 1,2-Dibromo-3-chloropropane | 59.2   | 2.36               | 5.00               | ug/kg | 50.0                                              |                  | 118            | 72-136 |              |       |
| 1,2,4-Trichlorobenzene      | 43.7   | 1.82               | 5.00               | ug/kg | 50.0                                              |                  | 87.4           | 66-140 |              |       |
| Hexachloro-1,3-Butadiene    | 46.9   | 4.17               | 5.00               | ug/kg | 50.0                                              |                  | 93.8           | 67-133 |              |       |
| Naphthalene                 | 51.2   | 2.46               | 5.00               | ug/kg | 50.0                                              |                  | 102            | 69-125 |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| LCS (BMC0730-BS1)                 |        |                    |                    |       |                |                                                   |      |                |     |              |       |
|                                   |        |                    |                    |       |                | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:06 |      |                |     |              |       |
| 1,2,3-Trichlorobenzene            | 43.3   | 2.32               | 5.00               | ug/kg | 50.0           |                                                   | 86.6 | 68-132         |     |              |       |
| Dichlorodifluoromethane           | 53.7   | 0.40               | 1.00               | ug/kg | 50.0           |                                                   | 107  | 67-142         |     |              |       |
| Methyl tert-butyl Ether           | 55.8   | 0.25               | 1.00               | ug/kg | 50.0           |                                                   | 112  | 79-127         |     |              |       |
| 2-Pentanone                       | 262    | 2.15               | 5.00               | ug/kg | 250            |                                                   | 105  | 77-120         |     |              |       |
| Surrogate: 1,2-Dichloroethane-d4  | 51.0   |                    |                    | ug/kg | 50.0           |                                                   | 102  | 80-149         |     |              |       |
| Surrogate: Toluene-d8             | 48.4   |                    |                    | ug/kg | 50.0           |                                                   | 96.8 | 77-120         |     |              |       |
| Surrogate: 4-Bromofluorobenzene   | 50.4   |                    |                    | ug/kg | 50.0           |                                                   | 101  | 80-120         |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 53.9   |                    |                    | ug/kg | 50.0           |                                                   | 108  | 80-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0730-BSD1)                |        |                 |                 |       |             | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:30 |      |             |       |           |       |
| Chloromethane                         | 43.9   | 0.38            | 1.00            | ug/kg | 50.0        |                                                   | 87.7 | 64-132      | 12.60 | 30        |       |
| Vinyl Chloride                        | 46.7   | 0.34            | 1.00            | ug/kg | 50.0        |                                                   | 93.5 | 74-135      | 14.20 | 30        |       |
| Bromomethane                          | 49.9   | 1.20            | 2.00            | ug/kg | 50.0        |                                                   | 99.9 | 53-144      | 13.20 | 30        |       |
| Chloroethane                          | 40.7   | 1.24            | 2.00            | ug/kg | 50.0        |                                                   | 81.4 | 55-149      | 18.70 | 30        |       |
| Trichlorofluoromethane                | 46.6   | 0.98            | 2.00            | ug/kg | 50.0        |                                                   | 93.2 | 61-164      | 17.80 | 30        |       |
| Acrolein                              | 213    | 1.75            | 5.00            | ug/kg | 250         |                                                   | 85.0 | 59-140      | 11.50 | 30        |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 45.5   | 0.85            | 2.00            | ug/kg | 50.0        |                                                   | 91.0 | 74-143      | 16.20 | 30        |       |
| Acetone                               | 222    | 6.35            | 10.0            | ug/kg | 250         |                                                   | 88.6 | 48-137      | 22.50 | 30        |       |
| 1,1-Dichloroethene                    | 45.0   | 0.37            | 1.00            | ug/kg | 50.0        |                                                   | 90.0 | 77-134      | 14.40 | 30        |       |
| Iodomethane                           | 46.0   | 0.91            | 1.00            | ug/kg | 50.0        |                                                   | 92.0 | 31-162      | 7.21  | 30        |       |
| Methylene Chloride                    | 47.9   | 4.36            | 5.00            | ug/kg | 50.0        |                                                   | 95.8 | 69-129      | 12.90 | 30        |       |
| Acrylonitrile                         | 44.4   | 4.33            | 5.00            | ug/kg | 50.0        |                                                   | 88.8 | 69-134      | 16.80 | 30        |       |
| Carbon Disulfide                      | 44.8   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 89.6 | 71-137      | 15.70 | 30        |       |
| trans-1,2-Dichloroethene              | 46.4   | 0.53            | 1.00            | ug/kg | 50.0        |                                                   | 92.8 | 79-130      | 15.10 | 30        |       |
| Vinyl Acetate                         | 48.1   | 3.25            | 5.00            | ug/kg | 50.0        |                                                   | 96.1 | 66-141      | 12.60 | 30        |       |
| 1,1-Dichloroethane                    | 47.1   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 94.3 | 80-126      | 12.60 | 30        |       |
| 2-Butanone                            | 229    | 2.44            | 5.00            | ug/kg | 250         |                                                   | 91.6 | 70-132      | 17.40 | 30        |       |
| 2,2-Dichloropropane                   | 47.1   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 94.2 | 77-138      | 13.60 | 30        |       |
| cis-1,2-Dichloroethene                | 47.4   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 94.7 | 80-125      | 9.73  | 30        |       |
| Chloroform                            | 47.8   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 95.6 | 80-126      | 10.90 | 30        |       |
| Bromochloromethane                    | 48.0   | 0.40            | 1.00            | ug/kg | 50.0        |                                                   | 96.0 | 80-129      | 12.60 | 30        |       |
| 1,1,1-Trichloroethane                 | 47.0   | 0.60            | 1.00            | ug/kg | 50.0        |                                                   | 94.0 | 78-133      | 13.80 | 30        |       |
| 1,1-Dichloropropene                   | 45.4   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 90.8 | 63-145      | 7.01  | 30        |       |
| Carbon tetrachloride                  | 45.9   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 91.7 | 71-129      | 10.40 | 30        |       |
| 1,2-Dichloroethane                    | 48.7   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 97.5 | 76-120      | 7.57  | 30        |       |
| Benzene                               | 47.0   | 0.17            | 1.00            | ug/kg | 50.0        |                                                   | 94.0 | 80-120      | 6.90  | 30        |       |
| Trichloroethene                       | 44.9   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 89.8 | 80-120      | 8.52  | 30        |       |
| 1,2-Dichloropropane                   | 48.8   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 97.5 | 79-120      | 5.35  | 30        |       |
| Bromodichloromethane                  | 49.1   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 98.1 | 80-122      | 6.11  | 30        |       |
| Dibromomethane                        | 46.4   | 0.36            | 1.00            | ug/kg | 50.0        |                                                   | 92.9 | 80-120      | 7.75  | 30        |       |
| 2-Chloroethyl vinyl ether             | 51.1   | 3.02            | 5.00            | ug/kg | 50.0        |                                                   | 102  | 51-129      | 19.50 | 30        | Q     |
| 4-Methyl-2-Pentanone                  | 229    | 1.37            | 5.00            | ug/kg | 250         |                                                   | 91.5 | 73-121      | 13.10 | 30        |       |
| cis-1,3-Dichloropropene               | 49.6   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 99.1 | 80-120      | 7.03  | 30        |       |
| Toluene                               | 45.3   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 90.7 | 75-120      | 7.09  | 30        |       |
| trans-1,3-Dichloropropene             | 50.3   | 0.41            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-124      | 5.80  | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0730-BSD1)      |        |                 |                 |       |             | Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:30 |      |             |       |           |       |
| 2-Hexanone                  | 234    | 1.27            | 5.00            | ug/kg | 250         |                                                   | 93.5 | 68-122      | 15.90 | 30        |       |
| 1,1,2-Trichloroethane       | 47.7   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 95.5 | 79-120      | 7.01  | 30        |       |
| 1,3-Dichloropropane         | 49.9   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 99.8 | 78-120      | 8.40  | 30        |       |
| Tetrachloroethene           | 45.7   | 0.20            | 1.00            | ug/kg | 50.0        |                                                   | 91.4 | 74-124      | 8.53  | 30        |       |
| Dibromochloromethane        | 51.9   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 74-125      | 3.33  | 30        |       |
| 1,2-Dibromoethane           | 47.1   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 94.2 | 80-120      | 11.50 | 30        |       |
| Chlorobenzene               | 49.0   | 0.21            | 1.00            | ug/kg | 50.0        |                                                   | 98.0 | 78-120      | 6.81  | 30        |       |
| Ethylbenzene                | 46.9   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 93.9 | 80-125      | 7.17  | 30        |       |
| 1,1,1,2-Tetrachloroethane   | 50.3   | 0.35            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-120      | 4.89  | 30        |       |
| m,p-Xylene                  | 94.2   | 0.49            | 2.00            | ug/kg | 100         |                                                   | 94.2 | 76-121      | 5.22  | 30        |       |
| o-Xylene                    | 49.7   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 99.4 | 67-132      | 2.24  | 30        |       |
| Xylenes, total              | 144    | 0.70            | 2.00            | ug/kg | 150         |                                                   | 95.9 | 67-132      | 4.20  | 30        |       |
| Styrene                     | 50.4   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 80-120      | 3.24  | 30        |       |
| Bromoform                   | 52.1   | 0.46            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 64-128      | 10.10 | 30        |       |
| 1,1,2,2-Tetrachloroethane   | 48.7   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 97.3 | 74-120      | 12.80 | 30        |       |
| 1,2,3-Trichloropropane      | 51.3   | 1.50            | 2.00            | ug/kg | 50.0        |                                                   | 103  | 73-120      | 6.38  | 30        |       |
| trans-1,4-Dichloro 2-Butene | 47.1   | 2.75            | 5.00            | ug/kg | 50.0        |                                                   | 94.1 | 65-125      | 15.70 | 30        |       |
| n-Propylbenzene             | 47.3   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 94.7 | 72-124      | 6.59  | 30        |       |
| Bromobenzene                | 48.5   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 96.9 | 76-120      | 4.81  | 30        |       |
| Isopropyl Benzene           | 47.4   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 94.9 | 74-121      | 7.04  | 30        |       |
| 2-Chlorotoluene             | 48.5   | 0.22            | 1.00            | ug/kg | 50.0        |                                                   | 97.1 | 75-120      | 4.47  | 30        |       |
| 4-Chlorotoluene             | 46.9   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 93.9 | 69-124      | 7.29  | 30        |       |
| t-Butylbenzene              | 48.7   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 97.5 | 72-122      | 3.47  | 30        |       |
| 1,3,5-Trimethylbenzene      | 49.0   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 98.0 | 74-122      | 2.96  | 30        |       |
| 1,2,4-Trimethylbenzene      | 48.6   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 97.3 | 75-121      | 3.53  | 30        |       |
| s-Butylbenzene              | 47.6   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 95.1 | 70-128      | 3.09  | 30        |       |
| 4-Isopropyl Toluene         | 47.9   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 95.8 | 75-125      | 2.13  | 30        |       |
| 1,3-Dichlorobenzene         | 47.7   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 95.4 | 75-120      | 3.27  | 30        |       |
| 1,4-Dichlorobenzene         | 46.9   | 0.43            | 1.00            | ug/kg | 50.0        |                                                   | 93.8 | 73-120      | 1.58  | 30        |       |
| n-Butylbenzene              | 46.1   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 92.1 | 73-130      | 3.48  | 30        |       |
| 1,2-Dichlorobenzene         | 50.1   | 0.65            | 1.00            | ug/kg | 50.0        |                                                   | 100  | 76-120      | 0.58  | 30        |       |
| 1,2-Dibromo-3-chloropropane | 51.4   | 2.36            | 5.00            | ug/kg | 50.0        |                                                   | 103  | 72-136      | 14.10 | 30        |       |
| 1,2,4-Trichlorobenzene      | 49.0   | 1.82            | 5.00            | ug/kg | 50.0        |                                                   | 98.0 | 66-140      | 11.50 | 30        |       |
| Hexachloro-1,3-Butadiene    | 47.6   | 4.17            | 5.00            | ug/kg | 50.0        |                                                   | 95.2 | 67-133      | 1.44  | 30        |       |
| Naphthalene                 | 51.8   | 2.46            | 5.00            | ug/kg | 50.0        |                                                   | 104  | 69-125      | 1.27  | 30        |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0730 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD    | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|----------------|--------|--------------|-------|
| LCS Dup (BMC0730-BSD1)                            |        |                    |                    |       |                |                  |                |        |              |       |
| Prepared: 27-Mar-2024 Analyzed: 27-Mar-2024 17:30 |        |                    |                    |       |                |                  |                |        |              |       |
| 1,2,3-Trichlorobenzene                            | 51.9   | 2.32               | 5.00               | ug/kg | 50.0           |                  | 104            | 68-132 | 18.10        | 30    |
| Dichlorodifluoromethane                           | 47.0   | 0.40               | 1.00               | ug/kg | 50.0           |                  | 94.0           | 67-142 | 13.20        | 30    |
| Methyl tert-butyl Ether                           | 49.8   | 0.25               | 1.00               | ug/kg | 50.0           |                  | 99.6           | 79-127 | 11.30        | 30    |
| 2-Pentanone                                       | 226    | 2.15               | 5.00               | ug/kg | 250            |                  | 90.5           | 77-120 | 14.50        | 30    |
| Surrogate: 1,2-Dichloroethane-d4                  | 46.8   |                    |                    | ug/kg | 50.0           |                  | 93.5           | 80-149 |              |       |
| Surrogate: Toluene-d8                             | 48.2   |                    |                    | ug/kg | 50.0           |                  | 96.4           | 77-120 |              |       |
| Surrogate: 4-Bromofluorobenzene                   | 49.6   |                    |                    | ug/kg | 50.0           |                  | 99.2           | 80-120 |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4                 | 51.8   |                    |                    | ug/kg | 50.0           |                  | 104            | 80-120 |              |       |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level                                       | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|---------------------------------------------------|---------------|------|-------------|-----|-----------|-------|
| <b>Blank (BMC0750-BLK1)</b>           |        |                 |                 |       | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 08:41 |               |      |             |     |           |       |
| Chloromethane                         | ND     | 0.38            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Vinyl Chloride                        | ND     | 0.34            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Bromomethane                          | ND     | 1.20            | 2.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Chloroethane                          | ND     | 1.24            | 2.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Trichlorofluoromethane                | ND     | 0.98            | 2.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Acrolein                              | ND     | 1.75            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND     | 0.85            | 2.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Acetone                               | ND     | 6.35            | 10.0            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,1-Dichloroethene                    | ND     | 0.37            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Iodomethane                           | ND     | 0.91            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Methylene Chloride                    | ND     | 4.36            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Acrylonitrile                         | ND     | 4.33            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Carbon Disulfide                      | ND     | 0.33            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| trans-1,2-Dichloroethene              | ND     | 0.53            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Vinyl Acetate                         | ND     | 3.25            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,1-Dichloroethane                    | ND     | 0.28            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 2-Butanone                            | ND     | 2.44            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 2,2-Dichloropropane                   | ND     | 0.31            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| cis-1,2-Dichloroethene                | ND     | 0.26            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Chloroform                            | ND     | 0.29            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Bromochloromethane                    | ND     | 0.40            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,1,1-Trichloroethane                 | ND     | 0.60            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,1-Dichloropropene                   | ND     | 0.28            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Carbon tetrachloride                  | ND     | 0.31            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,2-Dichloroethane                    | ND     | 0.23            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Benzene                               | ND     | 0.17            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Trichloroethene                       | ND     | 0.26            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,2-Dichloropropane                   | ND     | 0.33            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Bromodichloromethane                  | ND     | 0.26            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Dibromomethane                        | ND     | 0.36            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 2-Chloroethyl vinyl ether             | ND     | 3.02            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 4-Methyl-2-Pentanone                  | ND     | 1.37            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| cis-1,3-Dichloropropene               | ND     | 0.26            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| Toluene                               | ND     | 0.25            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| trans-1,3-Dichloropropene             | ND     | 0.41            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 2-Hexanone                            | ND     | 1.27            | 5.00            | ug/kg |                                                   |               |      |             |     |           | U     |
| 1,1,2-Trichloroethane                 | ND     | 0.27            | 1.00            | ug/kg |                                                   |               |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| <b>Blank (BMC0750-BLK1)</b> |        |                 |                 |       |             | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 08:41 |      |             |     |           |       |
| 1,3-Dichloropropane         | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Tetrachloroethene           | ND     | 0.20            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibromochloromethane        | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromoethane           | ND     | 0.31            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Chlorobenzene               | ND     | 0.21            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Ethylbenzene                | ND     | 0.23            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,1,2-Tetrachloroethane   | ND     | 0.35            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| m,p-Xylene                  | ND     | 0.49            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| o-Xylene                    | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Xylenes, total              | ND     | 0.70            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Styrene                     | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromoform                   | ND     | 0.46            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,1,2,2-Tetrachloroethane   | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichloropropane      | ND     | 1.50            | 2.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| trans-1,4-Dichloro 2-Butene | ND     | 2.75            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| n-Propylbenzene             | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Bromobenzene                | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Isopropyl Benzene           | ND     | 0.26            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Chlorotoluene             | ND     | 0.22            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chlorotoluene             | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| t-Butylbenzene              | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene      | ND     | 0.25            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trimethylbenzene      | ND     | 0.27            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| s-Butylbenzene              | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Isopropyl Toluene         | ND     | 0.29            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene         | ND     | 0.24            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene         | ND     | 0.43            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| n-Butylbenzene              | ND     | 0.28            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene         | ND     | 0.65            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dibromo-3-chloropropane | ND     | 2.36            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene      | ND     | 1.82            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachloro-1,3-Butadiene    | ND     | 4.17            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Naphthalene                 | ND     | 2.46            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,3-Trichlorobenzene      | ND     | 2.32            | 5.00            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dichlorodifluoromethane     | ND     | 0.40            | 1.00            | ug/kg |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| Blank (BMC0750-BLK1)              |        |                    |                    |       |                |                                                   |      |                |     |              |       |
|                                   |        |                    |                    |       |                | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 08:41 |      |                |     |              |       |
| Methyl tert-butyl Ether           | ND     | 0.25               | 1.00               | ug/kg |                |                                                   |      |                |     |              | U     |
| 2-Pentanone                       | ND     | 2.15               | 5.00               | ug/kg |                |                                                   |      |                |     |              | U     |
| Surrogate: 1,2-Dichloroethane-d4  | 53.5   |                    |                    | ug/kg | 50.0           |                                                   | 107  | 80-149         |     |              |       |
| Surrogate: Toluene-d8             | 50.1   |                    |                    | ug/kg | 50.0           |                                                   | 100  | 77-120         |     |              |       |
| Surrogate: 4-Bromofluorobenzene   | 51.4   |                    |                    | ug/kg | 50.0           |                                                   | 103  | 80-120         |     |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 49.8   |                    |                    | ug/kg | 50.0           |                                                   | 99.6 | 80-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level                                       | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|---------------------------------------------------|---------------|------|-------------|-----|-----------|-------|
| LCS (BMC0750-BS1)                     |        |                 |                 |       | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 07:05 |               |      |             |     |           |       |
| Chloromethane                         | 57.7   | 0.38            | 1.00            | ug/kg | 50.0                                              |               | 115  | 64-132      |     |           |       |
| Vinyl Chloride                        | 56.3   | 0.34            | 1.00            | ug/kg | 50.0                                              |               | 113  | 74-135      |     |           |       |
| Bromomethane                          | 56.0   | 1.20            | 2.00            | ug/kg | 50.0                                              |               | 112  | 53-144      |     |           |       |
| Chloroethane                          | 54.1   | 1.24            | 2.00            | ug/kg | 50.0                                              |               | 108  | 55-149      |     |           |       |
| Trichlorofluoromethane                | 61.1   | 0.98            | 2.00            | ug/kg | 50.0                                              |               | 122  | 61-164      |     |           | Q     |
| Acrolein                              | 242    | 1.75            | 5.00            | ug/kg | 250                                               |               | 96.7 | 59-140      |     |           |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 55.8   | 0.85            | 2.00            | ug/kg | 50.0                                              |               | 112  | 74-143      |     |           |       |
| Acetone                               | 248    | 6.35            | 10.0            | ug/kg | 250                                               |               | 99.2 | 48-137      |     |           |       |
| 1,1-Dichloroethene                    | 55.0   | 0.37            | 1.00            | ug/kg | 50.0                                              |               | 110  | 77-134      |     |           |       |
| Iodomethane                           | 38.5   | 0.91            | 1.00            | ug/kg | 50.0                                              |               | 77.0 | 31-162      |     |           | Q     |
| Methylene Chloride                    | 52.6   | 4.36            | 5.00            | ug/kg | 50.0                                              |               | 105  | 69-129      |     |           |       |
| Acrylonitrile                         | 48.2   | 4.33            | 5.00            | ug/kg | 50.0                                              |               | 96.3 | 69-134      |     |           |       |
| Carbon Disulfide                      | 56.3   | 0.33            | 1.00            | ug/kg | 50.0                                              |               | 113  | 71-137      |     |           |       |
| trans-1,2-Dichloroethene              | 57.0   | 0.53            | 1.00            | ug/kg | 50.0                                              |               | 114  | 79-130      |     |           |       |
| Vinyl Acetate                         | 55.2   | 3.25            | 5.00            | ug/kg | 50.0                                              |               | 110  | 66-141      |     |           |       |
| 1,1-Dichloroethane                    | 56.3   | 0.28            | 1.00            | ug/kg | 50.0                                              |               | 113  | 80-126      |     |           |       |
| 2-Butanone                            | 246    | 2.44            | 5.00            | ug/kg | 250                                               |               | 98.5 | 70-132      |     |           |       |
| 2,2-Dichloropropane                   | 58.1   | 0.31            | 1.00            | ug/kg | 50.0                                              |               | 116  | 77-138      |     |           |       |
| cis-1,2-Dichloroethene                | 56.6   | 0.26            | 1.00            | ug/kg | 50.0                                              |               | 113  | 80-125      |     |           |       |
| Chloroform                            | 56.9   | 0.29            | 1.00            | ug/kg | 50.0                                              |               | 114  | 80-126      |     |           |       |
| Bromochloromethane                    | 55.2   | 0.40            | 1.00            | ug/kg | 50.0                                              |               | 110  | 80-129      |     |           |       |
| 1,1,1-Trichloroethane                 | 57.6   | 0.60            | 1.00            | ug/kg | 50.0                                              |               | 115  | 78-133      |     |           |       |
| 1,1-Dichloropropene                   | 52.4   | 0.28            | 1.00            | ug/kg | 50.0                                              |               | 105  | 63-145      |     |           |       |
| Carbon tetrachloride                  | 53.7   | 0.31            | 1.00            | ug/kg | 50.0                                              |               | 107  | 71-129      |     |           |       |
| 1,2-Dichloroethane                    | 53.3   | 0.23            | 1.00            | ug/kg | 50.0                                              |               | 107  | 76-120      |     |           |       |
| Benzene                               | 52.7   | 0.17            | 1.00            | ug/kg | 50.0                                              |               | 105  | 80-120      |     |           |       |
| Trichloroethene                       | 50.8   | 0.26            | 1.00            | ug/kg | 50.0                                              |               | 102  | 80-120      |     |           |       |
| 1,2-Dichloropropane                   | 53.9   | 0.33            | 1.00            | ug/kg | 50.0                                              |               | 108  | 79-120      |     |           |       |
| Bromodichloromethane                  | 54.7   | 0.26            | 1.00            | ug/kg | 50.0                                              |               | 109  | 80-122      |     |           |       |
| Dibromomethane                        | 50.5   | 0.36            | 1.00            | ug/kg | 50.0                                              |               | 101  | 80-120      |     |           |       |
| 2-Chloroethyl vinyl ether             | 30.4   | 3.02            | 5.00            | ug/kg | 50.0                                              |               | 60.8 | 51-129      |     |           | Q     |
| 4-Methyl-2-Pentanone                  | 236    | 1.37            | 5.00            | ug/kg | 250                                               |               | 94.3 | 73-121      |     |           |       |
| cis-1,3-Dichloropropene               | 55.7   | 0.26            | 1.00            | ug/kg | 50.0                                              |               | 111  | 80-120      |     |           |       |
| Toluene                               | 52.0   | 0.25            | 1.00            | ug/kg | 50.0                                              |               | 104  | 75-120      |     |           |       |
| trans-1,3-Dichloropropene             | 55.6   | 0.41            | 1.00            | ug/kg | 50.0                                              |               | 111  | 80-124      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0750-BS1)           |        |                 |                 |       |             | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 07:05 |      |             |     |           |       |
| 2-Hexanone                  | 233    | 1.27            | 5.00            | ug/kg | 250         |                                                   | 93.2 | 68-122      |     |           |       |
| 1,1,2-Trichloroethane       | 51.4   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 79-120      |     |           |       |
| 1,3-Dichloropropane         | 52.0   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 78-120      |     |           |       |
| Tetrachloroethene           | 51.2   | 0.20            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 74-124      |     |           |       |
| Dibromochloromethane        | 54.0   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 74-125      |     |           |       |
| 1,2-Dibromoethane           | 52.7   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 80-120      |     |           |       |
| Chlorobenzene               | 53.3   | 0.21            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 78-120      |     |           |       |
| Ethylbenzene                | 53.2   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-125      |     |           |       |
| 1,1,1,2-Tetrachloroethane   | 53.2   | 0.35            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-120      |     |           |       |
| m,p-Xylene                  | 106    | 0.49            | 2.00            | ug/kg | 100         |                                                   | 106  | 76-121      |     |           |       |
| o-Xylene                    | 52.7   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 67-132      |     |           |       |
| Xylenes, total              | 159    | 0.70            | 2.00            | ug/kg | 150         |                                                   | 106  | 67-132      |     |           |       |
| Styrene                     | 55.2   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 110  | 80-120      |     |           |       |
| Bromoform                   | 52.4   | 0.46            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 64-128      |     |           |       |
| 1,1,2,2-Tetrachloroethane   | 50.4   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 74-120      |     |           |       |
| 1,2,3-Trichloropropane      | 49.6   | 1.50            | 2.00            | ug/kg | 50.0        |                                                   | 99.2 | 73-120      |     |           |       |
| trans-1,4-Dichloro 2-Butene | 47.4   | 2.75            | 5.00            | ug/kg | 50.0        |                                                   | 94.7 | 65-125      |     |           |       |
| n-Propylbenzene             | 53.0   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 72-124      |     |           |       |
| Bromobenzene                | 52.3   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 76-120      |     |           |       |
| Isopropyl Benzene           | 53.1   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 74-121      |     |           |       |
| 2-Chlorotoluene             | 53.2   | 0.22            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 75-120      |     |           |       |
| 4-Chlorotoluene             | 53.7   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 69-124      |     |           |       |
| t-Butylbenzene              | 53.0   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 72-122      |     |           |       |
| 1,3,5-Trimethylbenzene      | 54.6   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 74-122      |     |           |       |
| 1,2,4-Trimethylbenzene      | 54.6   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 75-121      |     |           |       |
| s-Butylbenzene              | 53.3   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 70-128      |     |           |       |
| 4-Isopropyl Toluene         | 53.7   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 75-125      |     |           |       |
| 1,3-Dichlorobenzene         | 53.9   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 75-120      |     |           |       |
| 1,4-Dichlorobenzene         | 52.6   | 0.43            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 73-120      |     |           |       |
| n-Butylbenzene              | 53.4   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 73-130      |     |           |       |
| 1,2-Dichlorobenzene         | 53.5   | 0.65            | 1.00            | ug/kg | 50.0        |                                                   | 107  | 76-120      |     |           |       |
| 1,2-Dibromo-3-chloropropane | 47.5   | 2.36            | 5.00            | ug/kg | 50.0        |                                                   | 94.9 | 72-136      |     |           |       |
| 1,2,4-Trichlorobenzene      | 56.9   | 1.82            | 5.00            | ug/kg | 50.0        |                                                   | 114  | 66-140      |     |           |       |
| Hexachloro-1,3-Butadiene    | 52.3   | 4.17            | 5.00            | ug/kg | 50.0        |                                                   | 105  | 67-133      |     |           |       |
| Naphthalene                 | 51.2   | 2.46            | 5.00            | ug/kg | 50.0        |                                                   | 102  | 69-125      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD    | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|----------------|--------|--------------|-------|
| LCS (BMC0750-BS1)                                 |        |                    |                    |       |                |                  |                |        |              |       |
| Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 07:05 |        |                    |                    |       |                |                  |                |        |              |       |
| 1,2,3-Trichlorobenzene                            | 53.7   | 2.32               | 5.00               | ug/kg | 50.0           |                  | 107            | 68-132 |              |       |
| Dichlorodifluoromethane                           | 57.0   | 0.40               | 1.00               | ug/kg | 50.0           |                  | 114            | 67-142 |              |       |
| Methyl tert-butyl Ether                           | 56.6   | 0.25               | 1.00               | ug/kg | 50.0           |                  | 113            | 79-127 |              |       |
| 2-Pentanone                                       | 231    | 2.15               | 5.00               | ug/kg | 250            |                  | 92.2           | 77-120 |              |       |
| Surrogate: 1,2-Dichloroethane-d4                  | 51.6   |                    |                    | ug/kg | 50.0           |                  | 103            | 80-149 |              |       |
| Surrogate: Toluene-d8                             | 49.6   |                    |                    | ug/kg | 50.0           |                  | 99.3           | 77-120 |              |       |
| Surrogate: 4-Bromofluorobenzene                   | 49.7   |                    |                    | ug/kg | 50.0           |                  | 99.4           | 80-120 |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4                 | 48.9   |                    |                    | ug/kg | 50.0           |                  | 97.7           | 80-120 |              |       |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                     | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BMC0750-BSD1)</b>         |        |                 |                 |       |             | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 07:28 |      |             |       |           |       |
| Chloromethane                         | 53.8   | 0.38            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 64-132      | 6.96  | 30        |       |
| Vinyl Chloride                        | 54.6   | 0.34            | 1.00            | ug/kg | 50.0        |                                                   | 109  | 74-135      | 3.09  | 30        |       |
| Bromomethane                          | 56.6   | 1.20            | 2.00            | ug/kg | 50.0        |                                                   | 113  | 53-144      | 1.03  | 30        |       |
| Chloroethane                          | 53.8   | 1.24            | 2.00            | ug/kg | 50.0        |                                                   | 108  | 55-149      | 0.45  | 30        |       |
| Trichlorofluoromethane                | 54.7   | 0.98            | 2.00            | ug/kg | 50.0        |                                                   | 109  | 61-164      | 11.10 | 30        | Q     |
| Acrolein                              | 253    | 1.75            | 5.00            | ug/kg | 250         |                                                   | 101  | 59-140      | 4.60  | 30        |       |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 54.0   | 0.85            | 2.00            | ug/kg | 50.0        |                                                   | 108  | 74-143      | 3.21  | 30        |       |
| Acetone                               | 274    | 6.35            | 10.0            | ug/kg | 250         |                                                   | 110  | 48-137      | 9.87  | 30        |       |
| 1,1-Dichloroethene                    | 53.0   | 0.37            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 77-134      | 3.62  | 30        |       |
| Iodomethane                           | 35.8   | 0.91            | 1.00            | ug/kg | 50.0        |                                                   | 71.7 | 31-162      | 7.18  | 30        | Q     |
| Methylene Chloride                    | 48.2   | 4.36            | 5.00            | ug/kg | 50.0        |                                                   | 96.4 | 69-129      | 8.71  | 30        |       |
| Acrylonitrile                         | 51.3   | 4.33            | 5.00            | ug/kg | 50.0        |                                                   | 103  | 69-134      | 6.30  | 30        |       |
| Carbon Disulfide                      | 53.0   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 71-137      | 6.00  | 30        |       |
| trans-1,2-Dichloroethene              | 54.2   | 0.53            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 79-130      | 5.09  | 30        |       |
| Vinyl Acetate                         | 53.9   | 3.25            | 5.00            | ug/kg | 50.0        |                                                   | 108  | 66-141      | 2.41  | 30        |       |
| 1,1-Dichloroethane                    | 52.9   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-126      | 6.17  | 30        |       |
| 2-Butanone                            | 266    | 2.44            | 5.00            | ug/kg | 250         |                                                   | 106  | 70-132      | 7.63  | 30        |       |
| 2,2-Dichloropropane                   | 54.9   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 110  | 77-138      | 5.65  | 30        |       |
| cis-1,2-Dichloroethene                | 52.2   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-125      | 8.04  | 30        |       |
| Chloroform                            | 53.0   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-126      | 7.08  | 30        |       |
| Bromochloromethane                    | 50.9   | 0.40            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 80-129      | 8.09  | 30        |       |
| 1,1,1-Trichloroethane                 | 54.2   | 0.60            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 78-133      | 6.03  | 30        |       |
| 1,1-Dichloropropene                   | 51.6   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 103  | 63-145      | 1.55  | 30        |       |
| Carbon tetrachloride                  | 52.7   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 71-129      | 2.00  | 30        |       |
| 1,2-Dichloroethane                    | 50.5   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 76-120      | 5.33  | 30        |       |
| Benzene                               | 51.1   | 0.17            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 80-120      | 3.14  | 30        |       |
| Trichloroethene                       | 49.7   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 99.4 | 80-120      | 2.26  | 30        |       |
| 1,2-Dichloropropane                   | 50.7   | 0.33            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 79-120      | 6.18  | 30        |       |
| Bromodichloromethane                  | 52.1   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-122      | 4.90  | 30        |       |
| Dibromomethane                        | 49.4   | 0.36            | 1.00            | ug/kg | 50.0        |                                                   | 98.8 | 80-120      | 2.22  | 30        |       |
| 2-Chloroethyl vinyl ether             | 32.1   | 3.02            | 5.00            | ug/kg | 50.0        |                                                   | 64.2 | 51-129      | 5.38  | 30        | Q     |
| 4-Methyl-2-Pentanone                  | 255    | 1.37            | 5.00            | ug/kg | 250         |                                                   | 102  | 73-121      | 7.98  | 30        |       |
| cis-1,3-Dichloropropene               | 53.0   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 106  | 80-120      | 4.99  | 30        |       |
| Toluene                               | 49.9   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 99.8 | 75-120      | 4.20  | 30        |       |
| trans-1,3-Dichloropropene             | 53.9   | 0.41            | 1.00            | ug/kg | 50.0        |                                                   | 108  | 80-124      | 3.10  | 30        |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte           | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0750-BSD1)      |        |                 |                 |       |             | Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 07:28 |      |             |       |           |       |
| 2-Hexanone                  | 261    | 1.27            | 5.00            | ug/kg | 250         |                                                   | 104  | 68-122      | 11.30 | 30        |       |
| 1,1,2-Trichloroethane       | 49.8   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 99.5 | 79-120      | 3.29  | 30        |       |
| 1,3-Dichloropropane         | 52.3   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 78-120      | 0.55  | 30        |       |
| Tetrachloroethene           | 50.6   | 0.20            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 74-124      | 1.24  | 30        |       |
| Dibromochloromethane        | 52.4   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 74-125      | 2.95  | 30        |       |
| 1,2-Dibromoethane           | 52.0   | 0.31            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-120      | 1.28  | 30        |       |
| Chlorobenzene               | 52.2   | 0.21            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 78-120      | 2.15  | 30        |       |
| Ethylbenzene                | 52.1   | 0.23            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-125      | 2.11  | 30        |       |
| 1,1,1,2-Tetrachloroethane   | 51.8   | 0.35            | 1.00            | ug/kg | 50.0        |                                                   | 104  | 80-120      | 2.64  | 30        |       |
| m,p-Xylene                  | 103    | 0.49            | 2.00            | ug/kg | 100         |                                                   | 103  | 76-121      | 2.59  | 30        |       |
| o-Xylene                    | 52.6   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 67-132      | 0.14  | 30        |       |
| Xylenes, total              | 156    | 0.70            | 2.00            | ug/kg | 150         |                                                   | 104  | 67-132      | 1.77  | 30        |       |
| Styrene                     | 52.6   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 105  | 80-120      | 4.70  | 30        |       |
| Bromoform                   | 51.2   | 0.46            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 64-128      | 2.32  | 30        |       |
| 1,1,2,2-Tetrachloroethane   | 50.4   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 74-120      | 0.06  | 30        |       |
| 1,2,3-Trichloropropane      | 50.0   | 1.50            | 2.00            | ug/kg | 50.0        |                                                   | 100  | 73-120      | 0.88  | 30        |       |
| trans-1,4-Dichloro 2-Butene | 48.7   | 2.75            | 5.00            | ug/kg | 50.0        |                                                   | 97.4 | 65-125      | 2.75  | 30        |       |
| n-Propylbenzene             | 49.9   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 99.8 | 72-124      | 5.94  | 30        |       |
| Bromobenzene                | 47.7   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 95.5 | 76-120      | 9.16  | 30        |       |
| Isopropyl Benzene           | 49.5   | 0.26            | 1.00            | ug/kg | 50.0        |                                                   | 99.0 | 74-121      | 7.13  | 30        |       |
| 2-Chlorotoluene             | 49.8   | 0.22            | 1.00            | ug/kg | 50.0        |                                                   | 99.7 | 75-120      | 6.55  | 30        |       |
| 4-Chlorotoluene             | 49.6   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 99.2 | 69-124      | 7.93  | 30        |       |
| t-Butylbenzene              | 49.7   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 99.5 | 72-122      | 6.33  | 30        |       |
| 1,3,5-Trimethylbenzene      | 50.5   | 0.25            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 74-122      | 7.74  | 30        |       |
| 1,2,4-Trimethylbenzene      | 51.2   | 0.27            | 1.00            | ug/kg | 50.0        |                                                   | 102  | 75-121      | 6.55  | 30        |       |
| s-Butylbenzene              | 50.3   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 101  | 70-128      | 5.74  | 30        |       |
| 4-Isopropyl Toluene         | 50.2   | 0.29            | 1.00            | ug/kg | 50.0        |                                                   | 100  | 75-125      | 6.73  | 30        |       |
| 1,3-Dichlorobenzene         | 49.5   | 0.24            | 1.00            | ug/kg | 50.0        |                                                   | 98.9 | 75-120      | 8.53  | 30        |       |
| 1,4-Dichlorobenzene         | 48.5   | 0.43            | 1.00            | ug/kg | 50.0        |                                                   | 97.0 | 73-120      | 8.10  | 30        |       |
| n-Butylbenzene              | 50.0   | 0.28            | 1.00            | ug/kg | 50.0        |                                                   | 99.9 | 73-130      | 6.76  | 30        |       |
| 1,2-Dichlorobenzene         | 49.2   | 0.65            | 1.00            | ug/kg | 50.0        |                                                   | 98.3 | 76-120      | 8.49  | 30        |       |
| 1,2-Dibromo-3-chloropropane | 50.7   | 2.36            | 5.00            | ug/kg | 50.0        |                                                   | 101  | 72-136      | 6.62  | 30        |       |
| 1,2,4-Trichlorobenzene      | 51.2   | 1.82            | 5.00            | ug/kg | 50.0        |                                                   | 102  | 66-140      | 10.40 | 30        |       |
| Hexachloro-1,3-Butadiene    | 50.3   | 4.17            | 5.00            | ug/kg | 50.0        |                                                   | 101  | 67-133      | 3.93  | 30        |       |
| Naphthalene                 | 52.3   | 2.46            | 5.00            | ug/kg | 50.0        |                                                   | 105  | 69-125      | 2.20  | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Volatile Organic Compounds - Quality Control

#### Batch BMC0750 - EPA 8260D

Instrument: NT5 Analyst: LH

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|------|----------------|-------|--------------|-------|
| LCS Dup (BMC0750-BSD1)                            |        |                    |                    |       |                |                  |      |                |       |              |       |
| Prepared: 28-Mar-2024 Analyzed: 28-Mar-2024 07:28 |        |                    |                    |       |                |                  |      |                |       |              |       |
| 1,2,3-Trichlorobenzene                            | 50.9   | 2.32               | 5.00               | ug/kg | 50.0           |                  | 102  | 68-132         | 5.25  | 30           |       |
| Dichlorodifluoromethane                           | 54.3   | 0.40               | 1.00               | ug/kg | 50.0           |                  | 109  | 67-142         | 4.86  | 30           |       |
| Methyl tert-butyl Ether                           | 52.7   | 0.25               | 1.00               | ug/kg | 50.0           |                  | 105  | 79-127         | 7.05  | 30           |       |
| 2-Pentanone                                       | 256    | 2.15               | 5.00               | ug/kg | 250            |                  | 102  | 77-120         | 10.60 | 30           |       |
| Surrogate: 1,2-Dichloroethane-d4                  | 51.9   |                    |                    | ug/kg | 50.0           |                  | 104  | 80-149         |       |              |       |
| Surrogate: Toluene-d8                             | 50.1   |                    |                    | ug/kg | 50.0           |                  | 100  | 77-120         |       |              |       |
| Surrogate: 4-Bromofluorobenzene                   | 49.1   |                    |                    | ug/kg | 50.0           |                  | 98.3 | 80-120         |       |              |       |
| Surrogate: 1,2-Dichlorobenzene-d4                 | 49.9   |                    |                    | ug/kg | 50.0           |                  | 99.8 | 80-120         |       |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

#### Batch BMC0562 - EPA 8270E

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte            | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0562-BLK1)         |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 10:59 |      |             |     |           |       |
| Phenol                       | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| bis(2-chloroethyl) ether     | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Chlorophenol               | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzyl alcohol               | ND     | 0.5             | 2.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,2'-Oxybis(1-chloropropane) | ND     | 0.4             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Methylphenol               | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Hexachloroethane             | ND     | 0.2             | 2.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| N-Nitroso-di-n-Propylamine   | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Methylphenol               | ND     | 0.3             | 2.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Nitrobenzene                 | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Isophorone                   | ND     | 0.8             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Nitrophenol                | ND     | 0.2             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,4-Dimethylphenol           | ND     | 1.0             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Bis(2-Chloroethoxy)methane   | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,4-Dichlorophenol           | ND     | 0.9             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene       | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Naphthalene                  | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzoic acid                 | ND     | 1.5             | 20.0            | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Chloroaniline              | ND     | 0.9             | 5.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,6-Dinitrotoluene           | ND     | 1.1             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Hexachlorobutadiene          | ND     | 0.2             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Chloro-3-Methylphenol      | ND     | 0.9             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Hexachlorocyclopentadiene    | ND     | 1.0             | 5.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,4,6-Trichlorophenol        | ND     | 1.1             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,4,5-Trichlorophenol        | ND     | 1.0             | 5.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Chloronaphthalene          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Nitroaniline               | ND     | 1.2             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Acenaphthylene               | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Dimethylphthalate            | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Acenaphthene                 | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 3-Nitroaniline               | ND     | 1.0             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 2-Methylnaphthalene          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

#### Batch BMC0562 - EPA 8270E

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| <b>Blank (BMC0562-BLK1)</b>       |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 10:59 |      |             |     |           |       |
| 2,4-Dinitrophenol                 | ND     | 1.7             | 20.0            | ug/L  |             |                                                   |      |             |     |           | U     |
| Dibenzofuran                      | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Nitrophenol                     | ND     | 0.7             | 10.0            | ug/L  |             |                                                   |      |             |     |           | U     |
| 2,4-Dinitrotoluene                | ND     | 1.0             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Fluorene                          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Chlorophenylphenyl ether        | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Diethyl phthalate                 | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Nitroaniline                    | ND     | 1.2             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4,6-Dinitro-2-methylphenol        | ND     | 2.4             | 10.0            | ug/L  |             |                                                   |      |             |     |           | U     |
| N-Nitrosodiphenylamine            | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 4-Bromophenyl phenyl ether        | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Hexachlorobenzene                 | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Pentachlorophenol                 | ND     | 1.2             | 10.0            | ug/L  |             |                                                   |      |             |     |           | U     |
| Phenanthrene                      | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Anthracene                        | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Carbazole                         | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Di-n-butylphthalate               | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Fluoranthene                      | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Pyrene                            | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Butylbenzylphthalate              | ND     | 0.4             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzo(a)anthracene                | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 3,3'-Dichlorobenzidine            | ND     | 2.5             | 5.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Chrysene                          | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| bis(2-Ethylhexyl)phthalate        | ND     | 0.3             | 3.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Di-n-Octylphthalate               | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzo(a)pyrene                    | ND     | 0.2             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Indeno(1,2,3-cd)pyrene            | ND     | 0.5             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Dibenzo(a,h)anthracene            | ND     | 0.5             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzo(g,h,i)perylene              | ND     | 0.5             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Benzofluoranthenes, Total         | ND     | 0.4             | 2.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| 1-Methylnaphthalene               | ND     | 0.3             | 1.0             | ug/L  |             |                                                   |      |             |     |           | U     |
| Surrogate: 2-Fluorophenol         | 21.2   |                 |                 | ug/L  | 37.5        |                                                   | 56.5 | 32.5-120    |     |           |       |
| Surrogate: Phenol-d5              | 15.5   |                 |                 | ug/L  | 37.5        |                                                   | 41.4 | 17.8-120    |     |           |       |
| Surrogate: 2-Chlorophenol-d4      | 30.4   |                 |                 | ug/L  | 37.5        |                                                   | 81.1 | 55-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 18.4   |                 |                 | ug/L  | 25.0        |                                                   | 73.8 | 49.3-120    |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0562 - EPA 8270E

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| <b>Blank (BMC0562-BLK1)</b>     |        |                    |                    |       |                | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 10:59 |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5      | 22.9   |                    |                    | ug/L  | 25.0           |                                                   | 91.4 | 56.1-120       |     |              |       |
| Surrogate: 2-Fluorobiphenyl     | 22.3   |                    |                    | ug/L  | 25.0           |                                                   | 89.3 | 54.4-120       |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 36.5   |                    |                    | ug/L  | 37.5           |                                                   | 97.4 | 49.3-128       |     |              |       |
| Surrogate: p-Terphenyl-d14      | 25.4   |                    |                    | ug/L  | 25.0           |                                                   | 102  | 60-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0562 - EPA 8270E

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte            | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0562-BS1)            |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 11:32 |      |             |     |           |       |
| Phenol                       | 7.0    | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 34.8 | 10-120      |     |           |       |
| bis(2-chloroethyl) ether     | 13.1   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 65.6 | 57.3-120    |     |           |       |
| 2-Chlorophenol               | 13.0   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 65.0 | 46-120      |     |           |       |
| 1,3-Dichlorobenzene          | 7.7    | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 38.3 | 32-120      |     |           |       |
| 1,4-Dichlorobenzene          | 8.0    | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 40.1 | 34-120      |     |           |       |
| 1,2-Dichlorobenzene          | 8.5    | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 42.3 | 32-120      |     |           |       |
| Benzyl alcohol               | 10.4   | 0.5             | 2.0             | ug/L  | 20.0        |                                                   | 52.1 | 20-120      |     |           |       |
| 2,2'-Oxybis(1-chloropropane) | 14.7   | 0.4             | 1.0             | ug/L  | 20.0        |                                                   | 73.5 | 52.3-120    |     |           |       |
| 2-Methylphenol               | 11.8   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 58.9 | 42-120      |     |           |       |
| Hexachloroethane             | 6.8    | 0.2             | 2.0             | ug/L  | 20.0        |                                                   | 34.2 | 25-120      |     |           |       |
| N-Nitroso-di-n-Propylamine   | 10.1   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 50.5 | 53-120      |     |           | *     |
| 4-Methylphenol               | 11.5   | 0.3             | 2.0             | ug/L  | 20.0        |                                                   | 57.6 | 42-120      |     |           |       |
| Nitrobenzene                 | 13.9   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 69.7 | 54-120      |     |           |       |
| Isophorone                   | 20.1   | 0.8             | 1.0             | ug/L  | 20.0        |                                                   | 100  | 64-142      |     |           |       |
| 2-Nitrophenol                | 15.7   | 0.2             | 3.0             | ug/L  | 20.0        |                                                   | 78.7 | 52-120      |     |           |       |
| 2,4-Dimethylphenol           | 22.1   | 1.0             | 3.0             | ug/L  | 60.0        |                                                   | 36.8 | 20-120      |     |           |       |
| Bis(2-Chloroethoxy)methane   | 15.7   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 78.7 | 65.2-120    |     |           |       |
| 2,4-Dichlorophenol           | 42.8   | 0.9             | 3.0             | ug/L  | 60.0        |                                                   | 71.3 | 36-125      |     |           |       |
| 1,2,4-Trichlorobenzene       | 8.7    | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 43.3 | 40-120      |     |           |       |
| Naphthalene                  | 12.5   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 62.4 | 48-120      |     |           |       |
| Benzoic acid                 | 30.1   | 1.5             | 20.0            | ug/L  | 90.0        |                                                   | 33.5 | 28-122      |     |           |       |
| 4-Chloroaniline              | 1.2    | 0.9             | 5.0             | ug/L  | 60.0        |                                                   | 1.93 | 10-120      |     |           | *, J  |
| 2,6-Dinitrotoluene           | 45.0   | 1.1             | 3.0             | ug/L  | 60.0        |                                                   | 75.1 | 39-151      |     |           |       |
| Hexachlorobutadiene          | 7.0    | 0.2             | 3.0             | ug/L  | 20.0        |                                                   | 35.1 | 25-120      |     |           |       |
| 4-Chloro-3-Methylphenol      | 43.6   | 0.9             | 3.0             | ug/L  | 60.0        |                                                   | 72.7 | 54.6-120    |     |           |       |
| Hexachlorocyclopentadiene    | 12.4   | 1.0             | 5.0             | ug/L  | 60.0        |                                                   | 20.7 | 10-120      |     |           |       |
| 2,4,6-Trichlorophenol        | 47.5   | 1.1             | 3.0             | ug/L  | 60.0        |                                                   | 79.1 | 58.5-120    |     |           |       |
| 2,4,5-Trichlorophenol        | 45.8   | 1.0             | 5.0             | ug/L  | 60.0        |                                                   | 76.4 | 58.2-120    |     |           |       |
| 2-Chloronaphthalene          | 11.7   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 58.4 | 53-120      |     |           |       |
| 2-Nitroaniline               | 50.5   | 1.2             | 3.0             | ug/L  | 60.0        |                                                   | 84.2 | 61.8-120    |     |           |       |
| Acenaphthylene               | 13.1   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 65.4 | 56.5-120    |     |           |       |
| Dimethylphthalate            | 15.8   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 78.9 | 65-120      |     |           |       |
| Acenaphthene                 | 14.7   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 73.3 | 54-120      |     |           |       |
| 3-Nitroaniline               | 33.0   | 1.0             | 3.0             | ug/L  | 60.0        |                                                   | 54.9 | 41.2-120    |     |           |       |
| 2-Methylnaphthalene          | 12.0   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 60.1 | 51-120      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

**Semivolatile Organic Compounds - Quality Control**

**Batch BMC0562 - EPA 8270E**

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| <b>LCS (BMC0562-BS1)</b>          |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 11:32 |      |             |     |           |       |
| 2,4-Dinitrophenol                 | 70.0   | 1.7             | 20.0            | ug/L  | 110         |                                                   | 63.6 | 10-168      |     |           | Q     |
| Dibenzofuran                      | 14.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 71.9 | 61.9-120    |     |           |       |
| 4-Nitrophenol                     | 26.9   | 0.7             | 10.0            | ug/L  | 60.0        |                                                   | 44.9 | 10-120      |     |           |       |
| 2,4-Dinitrotoluene                | 47.5   | 1.0             | 3.0             | ug/L  | 60.0        |                                                   | 79.2 | 50-122      |     |           |       |
| Fluorene                          | 14.8   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 74.1 | 62.3-120    |     |           |       |
| 4-Chlorophenylphenyl ether        | 14.2   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 71.2 | 66.2-120    |     |           |       |
| Diethyl phthalate                 | 16.7   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 83.3 | 62-120      |     |           |       |
| 4-Nitroaniline                    | 46.3   | 1.2             | 3.0             | ug/L  | 60.0        |                                                   | 77.2 | 50-135      |     |           |       |
| 4,6-Dinitro-2-methylphenol        | 96.7   | 2.4             | 10.0            | ug/L  | 110         |                                                   | 87.9 | 32.6-159    |     |           | Q     |
| N-Nitrosodiphenylamine            | 11.2   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 56.1 | 66-120      |     |           | *     |
| 4-Bromophenyl phenyl ether        | 13.7   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 68.6 | 66.2-120    |     |           |       |
| Hexachlorobenzene                 | 14.1   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 70.5 | 62.2-120    |     |           |       |
| Pentachlorophenol                 | 46.9   | 1.2             | 10.0            | ug/L  | 60.0        |                                                   | 78.1 | 40.7-124    |     |           |       |
| Phenanthrene                      | 15.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 77.0 | 61-120      |     |           |       |
| Anthracene                        | 14.0   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 69.8 | 45-120      |     |           |       |
| Carbazole                         | 16.4   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 82.2 | 58-123      |     |           |       |
| Di-n-butylphthalate               | 17.0   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 84.8 | 69.2-120    |     |           |       |
| Fluoranthene                      | 18.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 92.1 | 67.9-120    |     |           |       |
| Pyrene                            | 13.7   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 68.4 | 47-124      |     |           |       |
| Butylbenzylphthalate              | 14.7   | 0.4             | 1.0             | ug/L  | 20.0        |                                                   | 73.4 | 52-124      |     |           |       |
| Benzo(a)anthracene                | 15.0   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 75.0 | 54-120      |     |           |       |
| 3,3'-Dichlorobenzidine            | 5.6    | 2.5             | 5.0             | ug/L  | 40.0        |                                                   | 13.9 | 41-171      |     |           | *     |
| Chrysene                          | 15.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 76.9 | 55-120      |     |           |       |
| bis(2-Ethylhexyl)phthalate        | 15.5   | 0.3             | 3.0             | ug/L  | 20.0        |                                                   | 77.6 | 67.2-123    |     |           |       |
| Di-n-Octylphthalate               | 16.1   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 80.5 | 60.9-120    |     |           |       |
| Benzo(a)pyrene                    | 13.6   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 67.8 | 57-122      |     |           |       |
| Indeno(1,2,3-cd)pyrene            | 13.9   | 0.5             | 1.0             | ug/L  | 20.0        |                                                   | 69.7 | 40-147      |     |           |       |
| Dibenzo(a,h)anthracene            | 13.9   | 0.5             | 1.0             | ug/L  | 20.0        |                                                   | 69.4 | 37-148      |     |           |       |
| Benzo(g,h,i)perylene              | 12.3   | 0.5             | 1.0             | ug/L  | 20.0        |                                                   | 61.6 | 42-168      |     |           |       |
| Benzofluoranthenes, Total         | 32.0   | 0.4             | 2.0             | ug/L  | 40.0        |                                                   | 79.9 | 50-120      |     |           |       |
| 1-Methylnaphthalene               | 13.1   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 65.6 | 54.4-120    |     |           |       |
| Surrogate: 2-Fluorophenol         | 20.9   |                 |                 | ug/L  | 37.5        |                                                   | 55.8 | 32.5-120    |     |           |       |
| Surrogate: Phenol-d5              | 15.0   |                 |                 | ug/L  | 37.5        |                                                   | 40.1 | 17.8-120    |     |           |       |
| Surrogate: 2-Chlorophenol-d4      | 29.6   |                 |                 | ug/L  | 37.5        |                                                   | 78.9 | 55-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 16.9   |                 |                 | ug/L  | 25.0        |                                                   | 67.5 | 49.3-120    |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

Project Manager: Tom McKeon

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0562 - EPA 8270E

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| <b>LCS (BMC0562-BS1)</b>        |        |                    |                    |       |                | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 11:32 |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5      | 21.8   |                    |                    | ug/L  | 25.0           |                                                   | 87.1 | 56.1-120       |     |              |       |
| Surrogate: 2-Fluorobiphenyl     | 20.9   |                    |                    | ug/L  | 25.0           |                                                   | 83.4 | 54.4-120       |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 36.2   |                    |                    | ug/L  | 37.5           |                                                   | 96.5 | 49.3-128       |     |              |       |
| Surrogate: p-Terphenyl-d14      | 22.4   |                    |                    | ug/L  | 25.0           |                                                   | 89.8 | 60-120         |     |              |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

### Semivolatile Organic Compounds - Quality Control

**Batch BMC0562 - EPA 8270E**

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte             | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BMC0562-BSD1)</b> |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 12:05 |      |             |       |           |       |
| Phenol                        | 7.5    | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 37.5 | 10-120      | 7.38  | 30        |       |
| bis(2-chloroethyl) ether      | 14.9   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 74.6 | 57.3-120    | 12.80 | 30        |       |
| 2-Chlorophenol                | 14.9   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 74.5 | 46-120      | 13.60 | 30        |       |
| 1,3-Dichlorobenzene           | 10.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 51.9 | 32-120      | 30.00 | 30        |       |
| 1,4-Dichlorobenzene           | 10.7   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 53.6 | 34-120      | 28.80 | 30        |       |
| 1,2-Dichlorobenzene           | 10.8   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 54.1 | 32-120      | 24.60 | 30        |       |
| Benzyl alcohol                | 11.7   | 0.5             | 2.0             | ug/L  | 20.0        |                                                   | 58.3 | 20-120      | 11.10 | 30        |       |
| 2,2'-Oxybis(1-chloropropane)  | 16.7   | 0.4             | 1.0             | ug/L  | 20.0        |                                                   | 83.3 | 52.3-120    | 12.50 | 30        |       |
| 2-Methylphenol                | 13.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 67.1 | 42-120      | 13.00 | 30        |       |
| Hexachloroethane              | 9.3    | 0.2             | 2.0             | ug/L  | 20.0        |                                                   | 46.3 | 25-120      | 29.90 | 30        |       |
| N-Nitroso-di-n-Propylamine    | 10.9   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 54.4 | 53-120      | 7.43  | 30        |       |
| 4-Methylphenol                | 12.5   | 0.3             | 2.0             | ug/L  | 20.0        |                                                   | 62.7 | 42-120      | 8.52  | 30        |       |
| Nitrobenzene                  | 15.6   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 78.1 | 54-120      | 11.40 | 30        |       |
| Isophorone                    | 22.3   | 0.8             | 1.0             | ug/L  | 20.0        |                                                   | 112  | 64-142      | 10.60 | 30        |       |
| 2-Nitrophenol                 | 17.6   | 0.2             | 3.0             | ug/L  | 20.0        |                                                   | 87.9 | 52-120      | 11.00 | 30        |       |
| 2,4-Dimethylphenol            | 24.7   | 1.0             | 3.0             | ug/L  | 60.0        |                                                   | 41.2 | 20-120      | 11.30 | 30        |       |
| Bis(2-Chloroethoxy)methane    | 17.6   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 88.0 | 65.2-120    | 11.20 | 30        |       |
| 2,4-Dichlorophenol            | 47.3   | 0.9             | 3.0             | ug/L  | 60.0        |                                                   | 78.8 | 36-125      | 9.96  | 30        |       |
| 1,2,4-Trichlorobenzene        | 10.9   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 54.4 | 40-120      | 22.90 | 30        |       |
| Naphthalene                   | 14.6   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 73.1 | 48-120      | 15.80 | 30        |       |
| Benzoic acid                  | 34.8   | 1.5             | 20.0            | ug/L  | 90.0        |                                                   | 38.7 | 28-122      | 14.30 | 30        |       |
| 4-Chloroaniline               | ND     | 0.9             | 5.0             | ug/L  | 60.0        |                                                   |      | 10-120      |       |           | *, U  |
| 2,6-Dinitrotoluene            | 48.6   | 1.1             | 3.0             | ug/L  | 60.0        |                                                   | 81.0 | 39-151      | 7.58  | 30        |       |
| Hexachlorobutadiene           | 9.7    | 0.2             | 3.0             | ug/L  | 20.0        |                                                   | 48.7 | 25-120      | 32.60 | 30        | *     |
| 4-Chloro-3-Methylphenol       | 48.2   | 0.9             | 3.0             | ug/L  | 60.0        |                                                   | 80.3 | 54.6-120    | 10.00 | 30        |       |
| Hexachlorocyclopentadiene     | 16.3   | 1.0             | 5.0             | ug/L  | 60.0        |                                                   | 27.2 | 10-120      | 26.80 | 30        |       |
| 2,4,6-Trichlorophenol         | 52.4   | 1.1             | 3.0             | ug/L  | 60.0        |                                                   | 87.3 | 58.5-120    | 9.85  | 30        |       |
| 2,4,5-Trichlorophenol         | 50.2   | 1.0             | 5.0             | ug/L  | 60.0        |                                                   | 83.7 | 58.2-120    | 9.17  | 30        |       |
| 2-Chloronaphthalene           | 13.6   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 67.9 | 53-120      | 15.00 | 30        |       |
| 2-Nitroaniline                | 55.0   | 1.2             | 3.0             | ug/L  | 60.0        |                                                   | 91.6 | 61.8-120    | 8.44  | 30        |       |
| Acenaphthylene                | 14.6   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 73.0 | 56.5-120    | 10.90 | 30        |       |
| Dimethylphthalate             | 17.2   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 85.9 | 65-120      | 8.57  | 30        |       |
| Acenaphthene                  | 16.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 81.9 | 54-120      | 11.10 | 30        |       |
| 3-Nitroaniline                | 35.4   | 1.0             | 3.0             | ug/L  | 60.0        |                                                   | 58.9 | 41.2-120    | 7.02  | 30        |       |
| 2-Methylnaphthalene           | 14.3   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 71.3 | 51-120      | 17.00 | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

### Semivolatile Organic Compounds - Quality Control

**Batch BMC0562 - EPA 8270E**

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BMC0562-BSD1)</b>     |        |                 |                 |       |             | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 12:05 |      |             |       |           |       |
| 2,4-Dinitrophenol                 | 83.2   | 1.7             | 20.0            | ug/L  | 110         |                                                   | 75.6 | 10-168      | 17.20 | 30        | Q     |
| Dibenzofuran                      | 16.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 81.8 | 61.9-120    | 12.90 | 30        |       |
| 4-Nitrophenol                     | 29.3   | 0.7             | 10.0            | ug/L  | 60.0        |                                                   | 48.9 | 10-120      | 8.47  | 30        |       |
| 2,4-Dinitrotoluene                | 51.7   | 1.0             | 3.0             | ug/L  | 60.0        |                                                   | 86.2 | 50-122      | 8.46  | 30        |       |
| Fluorene                          | 16.6   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 82.9 | 62.3-120    | 11.20 | 30        |       |
| 4-Chlorophenylphenyl ether        | 16.0   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 79.8 | 66.2-120    | 11.40 | 30        |       |
| Diethyl phthalate                 | 18.2   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 91.0 | 62-120      | 8.89  | 30        |       |
| 4-Nitroaniline                    | 50.5   | 1.2             | 3.0             | ug/L  | 60.0        |                                                   | 84.1 | 50-135      | 8.61  | 30        |       |
| 4,6-Dinitro-2-methylphenol        | 112    | 2.4             | 10.0            | ug/L  | 110         |                                                   | 102  | 32.6-159    | 14.90 | 30        | Q     |
| N-Nitrosodiphenylamine            | 12.7   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 63.5 | 66-120      | 12.40 | 30        | *     |
| 4-Bromophenyl phenyl ether        | 15.7   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 78.3 | 66.2-120    | 13.20 | 30        |       |
| Hexachlorobenzene                 | 15.6   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 78.2 | 62.2-120    | 10.40 | 30        |       |
| Pentachlorophenol                 | 52.7   | 1.2             | 10.0            | ug/L  | 60.0        |                                                   | 87.8 | 40.7-124    | 11.70 | 30        |       |
| Phenanthrene                      | 17.3   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 86.5 | 61-120      | 11.70 | 30        |       |
| Anthracene                        | 15.3   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 76.7 | 45-120      | 9.34  | 30        |       |
| Carbazole                         | 17.9   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 89.7 | 58-123      | 8.73  | 30        |       |
| Di-n-butylphthalate               | 18.7   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 93.3 | 69.2-120    | 9.51  | 30        |       |
| Fluoranthene                      | 20.4   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 102  | 67.9-120    | 10.50 | 30        |       |
| Pyrene                            | 15.1   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 75.4 | 47-124      | 9.75  | 30        |       |
| Butylbenzylphthalate              | 16.1   | 0.4             | 1.0             | ug/L  | 20.0        |                                                   | 80.6 | 52-124      | 9.36  | 30        |       |
| Benzo(a)anthracene                | 16.5   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 82.6 | 54-120      | 9.72  | 30        |       |
| 3,3'-Dichlorobenzidine            | 6.1    | 2.5             | 5.0             | ug/L  | 40.0        |                                                   | 15.3 | 41-171      | 9.21  | 30        | *     |
| Chrysene                          | 17.0   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 85.2 | 55-120      | 10.30 | 30        |       |
| bis(2-Ethylhexyl)phthalate        | 16.5   | 0.3             | 3.0             | ug/L  | 20.0        |                                                   | 82.6 | 67.2-123    | 6.28  | 30        |       |
| Di-n-Octylphthalate               | 17.2   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 86.2 | 60.9-120    | 6.73  | 30        |       |
| Benzo(a)pyrene                    | 14.8   | 0.2             | 1.0             | ug/L  | 20.0        |                                                   | 74.1 | 57-122      | 8.93  | 30        |       |
| Indeno(1,2,3-cd)pyrene            | 15.3   | 0.5             | 1.0             | ug/L  | 20.0        |                                                   | 76.3 | 40-147      | 8.98  | 30        |       |
| Dibenzo(a,h)anthracene            | 15.1   | 0.5             | 1.0             | ug/L  | 20.0        |                                                   | 75.3 | 37-148      | 8.25  | 30        |       |
| Benzo(g,h,i)perylene              | 13.6   | 0.5             | 1.0             | ug/L  | 20.0        |                                                   | 67.8 | 42-168      | 9.52  | 30        |       |
| Benzo(a)fluoranthene, Total       | 34.8   | 0.4             | 2.0             | ug/L  | 40.0        |                                                   | 86.9 | 50-120      | 8.39  | 30        |       |
| 1-Methylnaphthalene               | 15.2   | 0.3             | 1.0             | ug/L  | 20.0        |                                                   | 75.9 | 54.4-120    | 14.60 | 30        |       |
| Surrogate: 2-Fluorophenol         | 24.2   |                 |                 | ug/L  | 37.5        |                                                   | 64.5 | 32.5-120    |       |           |       |
| Surrogate: Phenol-d5              | 17.4   |                 |                 | ug/L  | 37.5        |                                                   | 46.3 | 17.8-120    |       |           |       |
| Surrogate: 2-Chlorophenol-d4      | 33.5   |                 |                 | ug/L  | 37.5        |                                                   | 89.2 | 55-120      |       |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 19.2   |                 |                 | ug/L  | 25.0        |                                                   | 76.9 | 49.3-120    |       |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0562 - EPA 8270E

Instrument: NT6 Analyst: JZ

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| <b>LCS Dup (BMC0562-BSD1)</b>   |        |                    |                    |       |                | Prepared: 22-Mar-2024 Analyzed: 15-Apr-2024 12:05 |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5      | 24.3   |                    |                    | ug/L  | 25.0           |                                                   | 97.3 | 56.1-120       |     |              |       |
| Surrogate: 2-Fluorobiphenyl     | 23.3   |                    |                    | ug/L  | 25.0           |                                                   | 93.1 | 54.4-120       |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 39.3   |                    |                    | ug/L  | 37.5           |                                                   | 105  | 49.3-128       |     |              |       |
| Surrogate: p-Terphenyl-d14      | 23.9   |                    |                    | ug/L  | 25.0           |                                                   | 95.6 | 60-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte            | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0692-BLK1)         |        |                 |                 |       |             | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 17:53 |      |             |     |           |       |
| Phenol                       | ND     | 4.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| bis(2-chloroethyl) ether     | ND     | 19.3            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Chlorophenol               | ND     | 13.9            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,3-Dichlorobenzene          | ND     | 3.1             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,4-Dichlorobenzene          | ND     | 6.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2-Dichlorobenzene          | ND     | 6.1             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzyl Alcohol               | ND     | 16.3            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,2'-Oxybis(1-chloropropane) | ND     | 3.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Methylphenol               | ND     | 6.7             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachloroethane             | ND     | 6.9             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| N-Nitroso-di-n-Propylamine   | ND     | 7.5             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Methylphenol               | ND     | 7.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Nitrobenzene                 | ND     | 7.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Isophorone                   | ND     | 9.5             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Nitrophenol                | ND     | 4.9             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4-Dimethylphenol           | ND     | 8.9             | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Bis(2-Chloroethoxy)methane   | ND     | 4.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4-Dichlorophenol           | ND     | 15.3            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 1,2,4-Trichlorobenzene       | ND     | 8.5             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Naphthalene                  | ND     | 4.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzoic acid                 | ND     | 39.0            | 200             | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chloroaniline              | ND     | 26.3            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachlorobutadiene          | ND     | 4.8             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chloro-3-Methylphenol      | ND     | 12.4            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Methylnaphthalene          | ND     | 4.5             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachlorocyclopentadiene    | ND     | 24.5            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4,6-Trichlorophenol        | ND     | 9.0             | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4,5-Trichlorophenol        | ND     | 25.8            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Chloronaphthalene          | ND     | 8.0             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2-Nitroaniline               | ND     | 16.4            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Acenaphthylene               | ND     | 6.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dimethylphthalate            | ND     | 4.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,6-Dinitrotoluene           | ND     | 20.5            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Acenaphthene                 | ND     | 5.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 3-Nitroaniline               | ND     | 22.3            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4-Dinitrophenol            | ND     | 33.8            | 200             | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibenzofuran                 | ND     | 14.1            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0692-BLK1)              |        |                 |                 |       |             | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 17:53 |      |             |     |           |       |
| 4-Nitrophenol                     | ND     | 32.6            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4-Dinitrotoluene                | ND     | 16.2            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Fluorene                          | ND     | 14.6            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chlorophenylphenyl ether        | ND     | 19.2            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Diethyl phthalate                 | ND     | 19.7            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Nitroaniline                    | ND     | 29.4            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 4,6-Dinitro-2-methylphenol        | ND     | 38.0            | 200             | ug/kg |             |                                                   |      |             |     |           | U     |
| N-Nitrosodiphenylamine            | ND     | 5.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Bromophenyl phenyl ether        | ND     | 17.0            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachlorobenzene                 | ND     | 13.5            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Pentachlorophenol                 | ND     | 31.3            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Phenanthrene                      | ND     | 8.7             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Anthracene                        | ND     | 7.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Carbazole                         | ND     | 4.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Di-n-Butylphthalate               | ND     | 5.6             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Fluoranthene                      | ND     | 6.1             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Pyrene                            | ND     | 5.7             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Butylbenzylphthalate              | ND     | 9.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(a)anthracene                | ND     | 6.0             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 3,3'-Dichlorobenzidine            | ND     | 7.1             | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Chrysene                          | ND     | 6.1             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| bis(2-Ethylhexyl)phthalate        | ND     | 14.1            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Di-n-Octylphthalate               | ND     | 4.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(a)fluoranthene, Total       | ND     | 21.0            | 40.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(a)pyrene                    | ND     | 4.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Indeno(1,2,3-cd)pyrene            | ND     | 14.7            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibenzo(a,h)anthracene            | ND     | 17.2            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(g,h,i)perylene              | ND     | 13.6            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1-Methylnaphthalene               | ND     | 5.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Surrogate: 2-Fluorophenol         | 444    |                 |                 | ug/kg | 750         |                                                   | 59.1 | 27-120      |     |           |       |
| Surrogate: Phenol-d5              | 462    |                 |                 | ug/kg | 750         |                                                   | 61.6 | 29-120      |     |           |       |
| Surrogate: 2-Chlorophenol-d4      | 502    |                 |                 | ug/kg | 750         |                                                   | 67.0 | 31-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 347    |                 |                 | ug/kg | 500         |                                                   | 69.3 | 32-120      |     |           |       |
| Surrogate: Nitrobenzene-d5        | 360    |                 |                 | ug/kg | 500         |                                                   | 72.0 | 30-120      |     |           |       |
| Surrogate: 2-Fluorobiphenyl       | 375    |                 |                 | ug/kg | 500         |                                                   | 74.9 | 35-120      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|------|----------------|-----|--------------|-------|
| Blank (BMC0692-BLK1)            |        |                    |                    |       | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 17:53 |                  |      |                |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 565    |                    |                    | ug/kg | 750                                               |                  | 75.3 | 24-134         |     |              | Q     |
| Surrogate: p-Terphenyl-d14      | 504    |                    |                    | ug/kg | 500                                               |                  | 101  | 37-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

**Semivolatile Organic Compounds - Quality Control**

**Batch BMC0692 - EPA 8270E**

Instrument: NT14 Analyst: FL

| QC Sample/Analyte            | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| <b>LCS (BMC0692-BS1)</b>     |        |                 |                 |       |             | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 18:30 |      |             |     |           |       |
| Phenol                       | 274    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 54.8 | 31-120      |     |           |       |
| bis(2-chloroethyl) ether     | 296    | 19.3            | 50.0            | ug/kg | 500         |                                                   | 59.2 | 36-120      |     |           |       |
| 2-Chlorophenol               | 282    | 13.9            | 20.0            | ug/kg | 500         |                                                   | 56.5 | 39-120      |     |           |       |
| 1,3-Dichlorobenzene          | 255    | 3.1             | 20.0            | ug/kg | 500         |                                                   | 51.0 | 40-120      |     |           |       |
| 1,4-Dichlorobenzene          | 253    | 6.4             | 20.0            | ug/kg | 500         |                                                   | 50.5 | 39-120      |     |           |       |
| 1,2-Dichlorobenzene          | 264    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 52.8 | 40-120      |     |           |       |
| Benzyl Alcohol               | 266    | 16.3            | 20.0            | ug/kg | 500         |                                                   | 53.3 | 19-120      |     |           |       |
| 2,2'-Oxybis(1-chloropropane) | 284    | 3.4             | 20.0            | ug/kg | 500         |                                                   | 56.8 | 32-120      |     |           |       |
| 2-Methylphenol               | 254    | 6.7             | 20.0            | ug/kg | 500         |                                                   | 50.9 | 11-120      |     |           |       |
| Hexachloroethane             | 255    | 6.9             | 20.0            | ug/kg | 500         |                                                   | 50.9 | 38-120      |     |           |       |
| N-Nitroso-di-n-Propylamine   | 227    | 7.5             | 20.0            | ug/kg | 500         |                                                   | 45.4 | 24-120      |     |           |       |
| 4-Methylphenol               | 271    | 7.4             | 20.0            | ug/kg | 500         |                                                   | 54.3 | 29-120      |     |           |       |
| Nitrobenzene                 | 267    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 53.5 | 36-120      |     |           |       |
| Isophorone                   | 430    | 9.5             | 20.0            | ug/kg | 500         |                                                   | 86.1 | 37-126      |     |           |       |
| 2-Nitrophenol                | 325    | 4.9             | 20.0            | ug/kg | 500         |                                                   | 65.0 | 30-120      |     |           |       |
| 2,4-Dimethylphenol           | 261    | 8.9             | 100             | ug/kg | 1500        |                                                   | 17.4 | 10-120      |     |           |       |
| Bis(2-Chloroethoxy)methane   | 274    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 54.8 | 39-126      |     |           |       |
| 2,4-Dichlorophenol           | 973    | 15.3            | 100             | ug/kg | 1500        |                                                   | 64.9 | 28-120      |     |           |       |
| 1,2,4-Trichlorobenzene       | 263    | 8.5             | 20.0            | ug/kg | 500         |                                                   | 52.5 | 35-120      |     |           |       |
| Naphthalene                  | 276    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 55.1 | 41-120      |     |           |       |
| Benzoic acid                 | 1060   | 39.0            | 200             | ug/kg | 2250        |                                                   | 47.0 | 10-120      |     |           |       |
| 4-Chloroaniline              | 700    | 26.3            | 100             | ug/kg | 1500        |                                                   | 46.7 | 10-120      |     |           |       |
| Hexachlorobutadiene          | 282    | 4.8             | 20.0            | ug/kg | 500         |                                                   | 56.4 | 37-120      |     |           |       |
| 4-Chloro-3-Methylphenol      | 914    | 12.4            | 100             | ug/kg | 1500        |                                                   | 60.9 | 32-120      |     |           |       |
| 2-Methylnaphthalene          | 287    | 4.5             | 20.0            | ug/kg | 500         |                                                   | 57.3 | 43-120      |     |           |       |
| Hexachlorocyclopentadiene    | 799    | 24.5            | 100             | ug/kg | 1500        |                                                   | 53.3 | 10-120      |     |           |       |
| 2,4,6-Trichlorophenol        | 910    | 9.0             | 100             | ug/kg | 1500        |                                                   | 60.7 | 40-120      |     |           |       |
| 2,4,5-Trichlorophenol        | 939    | 25.8            | 100             | ug/kg | 1500        |                                                   | 62.6 | 51.5-129    |     |           |       |
| 2-Chloronaphthalene          | 276    | 8.0             | 20.0            | ug/kg | 500         |                                                   | 55.2 | 40-120      |     |           |       |
| 2-Nitroaniline               | 900    | 16.4            | 100             | ug/kg | 1500        |                                                   | 60.0 | 40-152      |     |           |       |
| Acenaphthylene               | 273    | 6.2             | 20.0            | ug/kg | 500         |                                                   | 54.6 | 42-120      |     |           |       |
| Dimethylphthalate            | 320    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 64.0 | 43-120      |     |           |       |
| 2,6-Dinitrotoluene           | 972    | 20.5            | 100             | ug/kg | 1500        |                                                   | 64.8 | 31-156      |     |           |       |
| Acenaphthene                 | 294    | 5.2             | 20.0            | ug/kg | 500         |                                                   | 58.7 | 45-120      |     |           |       |
| 3-Nitroaniline               | 812    | 22.3            | 100             | ug/kg | 1500        |                                                   | 54.1 | 22-120      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0692-BS1)                 |        |                 |                 |       |             | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 18:30 |      |             |     |           |       |
| 2,4-Dinitrophenol                 | 1600   | 33.8            | 200             | ug/kg | 2750        |                                                   | 58.0 | 13-160      |     |           |       |
| Dibenzofuran                      | 301    | 14.1            | 20.0            | ug/kg | 500         |                                                   | 60.1 | 43-120      |     |           |       |
| 4-Nitrophenol                     | 1060   | 32.6            | 100             | ug/kg | 1500        |                                                   | 70.5 | 18-154      |     |           |       |
| 2,4-Dinitrotoluene                | 984    | 16.2            | 100             | ug/kg | 1500        |                                                   | 65.6 | 44-150      |     |           |       |
| Fluorene                          | 337    | 14.6            | 20.0            | ug/kg | 500         |                                                   | 67.4 | 40-120      |     |           |       |
| 4-Chlorophenylphenyl ether        | 320    | 19.2            | 50.0            | ug/kg | 500         |                                                   | 64.1 | 36-141      |     |           |       |
| Diethyl phthalate                 | 350    | 19.7            | 50.0            | ug/kg | 500         |                                                   | 70.0 | 43-140      |     |           |       |
| 4-Nitroaniline                    | 893    | 29.4            | 100             | ug/kg | 1500        |                                                   | 59.6 | 15-120      |     |           | Q     |
| 4,6-Dinitro-2-methylphenol        | 1770   | 38.0            | 200             | ug/kg | 2750        |                                                   | 64.5 | 33-144      |     |           |       |
| N-Nitrosodiphenylamine            | 231    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 46.3 | 17-120      |     |           |       |
| 4-Bromophenyl phenyl ether        | 334    | 17.0            | 20.0            | ug/kg | 500         |                                                   | 66.8 | 39-120      |     |           |       |
| Hexachlorobenzene                 | 301    | 13.5            | 20.0            | ug/kg | 500         |                                                   | 60.3 | 33-120      |     |           |       |
| Pentachlorophenol                 | 847    | 31.3            | 100             | ug/kg | 1500        |                                                   | 56.5 | 33-133      |     |           |       |
| Phenanthrene                      | 295    | 8.7             | 20.0            | ug/kg | 500         |                                                   | 59.1 | 49-120      |     |           |       |
| Anthracene                        | 286    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 57.3 | 37-120      |     |           |       |
| Carbazole                         | 354    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 70.8 | 30-135      |     |           |       |
| Di-n-Butylphthalate               | 349    | 5.6             | 20.0            | ug/kg | 500         |                                                   | 69.9 | 48-126      |     |           |       |
| Fluoranthene                      | 365    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 73.1 | 38-127      |     |           |       |
| Pyrene                            | 349    | 5.7             | 20.0            | ug/kg | 500         |                                                   | 69.8 | 39-122      |     |           |       |
| Butylbenzylphthalate              | 391    | 9.4             | 20.0            | ug/kg | 500         |                                                   | 78.2 | 45-132      |     |           |       |
| Benzo(a)anthracene                | 314    | 6.0             | 20.0            | ug/kg | 500         |                                                   | 62.8 | 44-120      |     |           |       |
| 3,3'-Dichlorobenzidine            | 283    | 7.1             | 100             | ug/kg | 1000        |                                                   | 28.3 | 10-120      |     |           |       |
| Chrysene                          | 312    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 62.4 | 47-120      |     |           |       |
| bis(2-Ethylhexyl)phthalate        | 367    | 14.1            | 50.0            | ug/kg | 500         |                                                   | 73.3 | 10-130      |     |           |       |
| Di-n-Octylphthalate               | 313    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 62.6 | 10-124      |     |           |       |
| Benzo(a)fluoranthene, Total       | 696    | 21.0            | 40.0            | ug/kg | 1000        |                                                   | 69.6 | 30-160      |     |           |       |
| Benzo(a)pyrene                    | 300    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 60.1 | 37-120      |     |           |       |
| Indeno(1,2,3-cd)pyrene            | 282    | 14.7            | 20.0            | ug/kg | 500         |                                                   | 56.4 | 30-160      |     |           |       |
| Dibenzo(a,h)anthracene            | 278    | 17.2            | 20.0            | ug/kg | 500         |                                                   | 55.6 | 30-160      |     |           |       |
| Benzo(g,h,i)perylene              | 266    | 13.6            | 20.0            | ug/kg | 500         |                                                   | 53.2 | 10-150      |     |           |       |
| 1-Methylnaphthalene               | 262    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 52.4 | 42-120      |     |           |       |
| Surrogate: 2-Fluorophenol         | 517    |                 |                 | ug/kg | 750         |                                                   | 69.0 | 27-120      |     |           |       |
| Surrogate: Phenol-d5              | 518    |                 |                 | ug/kg | 750         |                                                   | 69.0 | 29-120      |     |           |       |
| Surrogate: 2-Chlorophenol-d4      | 533    |                 |                 | ug/kg | 750         |                                                   | 71.1 | 31-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 344    |                 |                 | ug/kg | 500         |                                                   | 68.8 | 32-120      |     |           |       |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| LCS (BMC0692-BS1)                                 |        |                    |                    |       |                |                  |      |                |     |              |       |
| Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 18:30 |        |                    |                    |       |                |                  |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5                        | 362    |                    |                    | ug/kg | 500            |                  | 72.4 | 30-120         |     |              |       |
| Surrogate: 2-Fluorobiphenyl                       | 380    |                    |                    | ug/kg | 500            |                  | 76.0 | 35-120         |     |              |       |
| Surrogate: 2,4,6-Tribromophenol                   | 741    |                    |                    | ug/kg | 750            |                  | 98.8 | 24-134         |     |              | Q     |
| Surrogate: p-Terphenyl-d14                        | 497    |                    |                    | ug/kg | 500            |                  | 99.3 | 37-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte            | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| LCS Dup (BMC0692-BSD1)       |        |                 |                 |       |             | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 19:07 |      |             |       |           |       |
| Phenol                       | 296    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 59.1 | 31-120      | 7.55  | 30        |       |
| bis(2-chloroethyl) ether     | 323    | 19.3            | 50.0            | ug/kg | 500         |                                                   | 64.6 | 36-120      | 8.78  | 30        |       |
| 2-Chlorophenol               | 309    | 13.9            | 20.0            | ug/kg | 500         |                                                   | 61.8 | 39-120      | 9.00  | 30        |       |
| 1,3-Dichlorobenzene          | 273    | 3.1             | 20.0            | ug/kg | 500         |                                                   | 54.6 | 40-120      | 6.78  | 30        |       |
| 1,4-Dichlorobenzene          | 274    | 6.4             | 20.0            | ug/kg | 500         |                                                   | 54.8 | 39-120      | 8.05  | 30        |       |
| 1,2-Dichlorobenzene          | 284    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 56.8 | 40-120      | 7.39  | 30        |       |
| Benzyl Alcohol               | 301    | 16.3            | 20.0            | ug/kg | 500         |                                                   | 60.3 | 19-120      | 12.30 | 30        |       |
| 2,2'-Oxybis(1-chloropropane) | 308    | 3.4             | 20.0            | ug/kg | 500         |                                                   | 61.6 | 32-120      | 8.02  | 30        |       |
| 2-Methylphenol               | 283    | 6.7             | 20.0            | ug/kg | 500         |                                                   | 56.7 | 11-120      | 10.80 | 30        |       |
| Hexachloroethane             | 274    | 6.9             | 20.0            | ug/kg | 500         |                                                   | 54.8 | 38-120      | 7.28  | 30        |       |
| N-Nitroso-di-n-Propylamine   | 251    | 7.5             | 20.0            | ug/kg | 500         |                                                   | 50.2 | 24-120      | 9.96  | 30        |       |
| 4-Methylphenol               | 294    | 7.4             | 20.0            | ug/kg | 500         |                                                   | 58.8 | 29-120      | 8.04  | 30        |       |
| Nitrobenzene                 | 289    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 57.9 | 36-120      | 7.98  | 30        |       |
| Isophorone                   | 465    | 9.5             | 20.0            | ug/kg | 500         |                                                   | 92.9 | 37-126      | 7.67  | 30        |       |
| 2-Nitrophenol                | 353    | 4.9             | 20.0            | ug/kg | 500         |                                                   | 70.7 | 30-120      | 8.42  | 30        |       |
| 2,4-Dimethylphenol           | 322    | 8.9             | 100             | ug/kg | 1500        |                                                   | 21.5 | 10-120      | 21.00 | 30        |       |
| Bis(2-Chloroethoxy)methane   | 296    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 59.1 | 39-126      | 7.53  | 30        |       |
| 2,4-Dichlorophenol           | 1060   | 15.3            | 100             | ug/kg | 1500        |                                                   | 70.4 | 28-120      | 8.13  | 30        |       |
| 1,2,4-Trichlorobenzene       | 283    | 8.5             | 20.0            | ug/kg | 500         |                                                   | 56.5 | 35-120      | 7.31  | 30        |       |
| Naphthalene                  | 297    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 59.4 | 41-120      | 7.36  | 30        |       |
| Benzoic acid                 | 1020   | 39.0            | 200             | ug/kg | 2250        |                                                   | 45.2 | 10-120      | 3.99  | 30        |       |
| 4-Chloroaniline              | 778    | 26.3            | 100             | ug/kg | 1500        |                                                   | 51.8 | 10-120      | 10.50 | 30        |       |
| Hexachlorobutadiene          | 305    | 4.8             | 20.0            | ug/kg | 500         |                                                   | 61.1 | 37-120      | 8.00  | 30        |       |
| 4-Chloro-3-Methylphenol      | 994    | 12.4            | 100             | ug/kg | 1500        |                                                   | 66.3 | 32-120      | 8.43  | 30        |       |
| 2-Methylnaphthalene          | 312    | 4.5             | 20.0            | ug/kg | 500         |                                                   | 62.5 | 43-120      | 8.60  | 30        |       |
| Hexachlorocyclopentadiene    | 879    | 24.5            | 100             | ug/kg | 1500        |                                                   | 58.6 | 10-120      | 9.51  | 30        |       |
| 2,4,6-Trichlorophenol        | 994    | 9.0             | 100             | ug/kg | 1500        |                                                   | 66.2 | 40-120      | 8.76  | 30        |       |
| 2,4,5-Trichlorophenol        | 1010   | 25.8            | 100             | ug/kg | 1500        |                                                   | 67.2 | 51.5-129    | 7.01  | 30        |       |
| 2-Chloronaphthalene          | 297    | 8.0             | 20.0            | ug/kg | 500         |                                                   | 59.4 | 40-120      | 7.36  | 30        |       |
| 2-Nitroaniline               | 971    | 16.4            | 100             | ug/kg | 1500        |                                                   | 64.7 | 40-152      | 7.54  | 30        |       |
| Acenaphthylene               | 295    | 6.2             | 20.0            | ug/kg | 500         |                                                   | 59.1 | 42-120      | 7.84  | 30        |       |
| Dimethylphthalate            | 347    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 69.5 | 43-120      | 8.19  | 30        |       |
| 2,6-Dinitrotoluene           | 1060   | 20.5            | 100             | ug/kg | 1500        |                                                   | 71.0 | 31-156      | 9.11  | 30        |       |
| Acenaphthene                 | 317    | 5.2             | 20.0            | ug/kg | 500         |                                                   | 63.4 | 45-120      | 7.62  | 30        |       |
| 3-Nitroaniline               | 912    | 22.3            | 100             | ug/kg | 1500        |                                                   | 60.8 | 22-120      | 11.60 | 30        |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

### Semivolatile Organic Compounds - Quality Control

**Batch BMC0692 - EPA 8270E**

Instrument: NT14 Analyst: FL

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BMC0692-BSD1)</b>     |        |                 |                 |       |             | Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 19:07 |      |             |       |           |       |
| 2,4-Dinitrophenol                 | 1770   | 33.8            | 200             | ug/kg | 2750        |                                                   | 64.4 | 13-160      | 10.40 | 30        |       |
| Dibenzofuran                      | 321    | 14.1            | 20.0            | ug/kg | 500         |                                                   | 64.2 | 43-120      | 6.58  | 30        |       |
| 4-Nitrophenol                     | 1110   | 32.6            | 100             | ug/kg | 1500        |                                                   | 73.9 | 18-154      | 4.70  | 30        |       |
| 2,4-Dinitrotoluene                | 1070   | 16.2            | 100             | ug/kg | 1500        |                                                   | 71.6 | 44-150      | 8.70  | 30        |       |
| Fluorene                          | 365    | 14.6            | 20.0            | ug/kg | 500         |                                                   | 73.0 | 40-120      | 8.03  | 30        |       |
| 4-Chlorophenylphenyl ether        | 345    | 19.2            | 50.0            | ug/kg | 500         |                                                   | 69.0 | 36-141      | 7.42  | 30        |       |
| Diethyl phthalate                 | 379    | 19.7            | 50.0            | ug/kg | 500         |                                                   | 75.7 | 43-140      | 7.83  | 30        |       |
| 4-Nitroaniline                    | 1000   | 29.4            | 100             | ug/kg | 1500        |                                                   | 66.9 | 15-120      | 11.60 | 30        | Q     |
| 4,6-Dinitro-2-methylphenol        | 1990   | 38.0            | 200             | ug/kg | 2750        |                                                   | 72.5 | 33-144      | 11.70 | 30        |       |
| N-Nitrosodiphenylamine            | 257    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 51.4 | 17-120      | 10.50 | 30        |       |
| 4-Bromophenyl phenyl ether        | 368    | 17.0            | 20.0            | ug/kg | 500         |                                                   | 73.5 | 39-120      | 9.56  | 30        |       |
| Hexachlorobenzene                 | 330    | 13.5            | 20.0            | ug/kg | 500         |                                                   | 65.9 | 33-120      | 8.97  | 30        |       |
| Pentachlorophenol                 | 933    | 31.3            | 100             | ug/kg | 1500        |                                                   | 62.2 | 33-133      | 9.64  | 30        |       |
| Phenanthrene                      | 322    | 8.7             | 20.0            | ug/kg | 500         |                                                   | 64.4 | 49-120      | 8.58  | 30        |       |
| Anthracene                        | 319    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 63.7 | 37-120      | 10.60 | 30        |       |
| Carbazole                         | 389    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 77.8 | 30-135      | 9.38  | 30        |       |
| Di-n-Butylphthalate               | 391    | 5.6             | 20.0            | ug/kg | 500         |                                                   | 78.1 | 48-126      | 11.10 | 30        |       |
| Fluoranthene                      | 396    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 79.2 | 38-127      | 8.04  | 30        |       |
| Pyrene                            | 380    | 5.7             | 20.0            | ug/kg | 500         |                                                   | 76.0 | 39-122      | 8.45  | 30        |       |
| Butylbenzylphthalate              | 427    | 9.4             | 20.0            | ug/kg | 500         |                                                   | 85.4 | 45-132      | 8.70  | 30        |       |
| Benzo(a)anthracene                | 343    | 6.0             | 20.0            | ug/kg | 500         |                                                   | 68.5 | 44-120      | 8.79  | 30        |       |
| 3,3'-Dichlorobenzidine            | 317    | 7.1             | 100             | ug/kg | 1000        |                                                   | 31.7 | 10-120      | 11.20 | 30        |       |
| Chrysene                          | 343    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 68.6 | 47-120      | 9.37  | 30        |       |
| bis(2-Ethylhexyl)phthalate        | 400    | 14.1            | 50.0            | ug/kg | 500         |                                                   | 80.1 | 10-130      | 8.77  | 30        |       |
| Di-n-Octylphthalate               | 341    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 68.2 | 10-124      | 8.68  | 30        |       |
| Benzo(a)fluoranthene, Total       | 767    | 21.0            | 40.0            | ug/kg | 1000        |                                                   | 76.7 | 30-160      | 9.60  | 30        |       |
| Benzo(a)pyrene                    | 337    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 67.3 | 37-120      | 11.40 | 30        |       |
| Indeno(1,2,3-cd)pyrene            | 315    | 14.7            | 20.0            | ug/kg | 500         |                                                   | 63.1 | 30-160      | 11.20 | 30        |       |
| Dibenzo(a,h)anthracene            | 308    | 17.2            | 20.0            | ug/kg | 500         |                                                   | 61.6 | 30-160      | 10.20 | 30        |       |
| Benzo(g,h,i)perylene              | 294    | 13.6            | 20.0            | ug/kg | 500         |                                                   | 58.8 | 10-150      | 10.00 | 30        |       |
| 1-Methylnaphthalene               | 286    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 57.1 | 42-120      | 8.67  | 30        |       |
| Surrogate: 2-Fluorophenol         | 529    |                 |                 | ug/kg | 750         |                                                   | 70.6 | 27-120      |       |           |       |
| Surrogate: Phenol-d5              | 522    |                 |                 | ug/kg | 750         |                                                   | 69.5 | 29-120      |       |           |       |
| Surrogate: 2-Chlorophenol-d4      | 547    |                 |                 | ug/kg | 750         |                                                   | 72.9 | 31-120      |       |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 346    |                 |                 | ug/kg | 500         |                                                   | 69.1 | 32-120      |       |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0692 - EPA 8270E

Instrument: NT14 Analyst: FL

| QC Sample/Analyte                                 | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| LCS Dup (BMC0692-BSD1)                            |        |                    |                    |       |                |                  |      |                |     |              |       |
| Prepared: 29-Mar-2024 Analyzed: 29-Apr-2024 19:07 |        |                    |                    |       |                |                  |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5                        | 366    |                    |                    | ug/kg | 500            |                  | 73.3 | 30-120         |     |              |       |
| Surrogate: 2-Fluorobiphenyl                       | 383    |                    |                    | ug/kg | 500            |                  | 76.5 | 35-120         |     |              |       |
| Surrogate: 2,4,6-Tribromophenol                   | 766    |                    |                    | ug/kg | 750            |                  | 102  | 24-134         |     |              | Q     |
| Surrogate: p-Terphenyl-d14                        | 513    |                    |                    | ug/kg | 500            |                  | 103  | 37-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte            | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|------------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|----------------|-----|--------------|-------|
| Blank (BMC0697-BLK1)         |        |                    |                    |       | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 19:50 |                  |                |     |              |       |
| Phenol                       | ND     | 4.4                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| bis(2-chloroethyl) ether     | ND     | 19.3               | 50.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Chlorophenol               | ND     | 13.9               | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,3-Dichlorobenzene          | ND     | 3.1                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,4-Dichlorobenzene          | ND     | 6.4                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 1,2-Dichlorobenzene          | ND     | 6.1                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Benzyl Alcohol               | ND     | 16.3               | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2,2'-Oxybis(1-chloropropane) | ND     | 3.4                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Methylphenol               | ND     | 6.7                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Hexachloroethane             | ND     | 6.9                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| N-Nitroso-di-n-Propylamine   | ND     | 7.5                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 4-Methylphenol               | ND     | 7.4                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Nitrobenzene                 | ND     | 7.2                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Isophorone                   | ND     | 9.5                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Nitrophenol                | ND     | 4.9                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2,4-Dimethylphenol           | ND     | 8.9                | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| Bis(2-Chloroethoxy)methane   | ND     | 4.3                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2,4-Dichlorophenol           | ND     | 15.3               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| 1,2,4-Trichlorobenzene       | ND     | 8.5                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Naphthalene                  | ND     | 4.2                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Benzoic acid                 | ND     | 39.0               | 200                | ug/kg |                                                   |                  |                |     |              | U     |
| 4-Chloroaniline              | ND     | 26.3               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| Hexachlorobutadiene          | ND     | 4.8                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 4-Chloro-3-Methylphenol      | ND     | 12.4               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Methylnaphthalene          | ND     | 4.5                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Hexachlorocyclopentadiene    | ND     | 24.5               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| 2,4,6-Trichlorophenol        | ND     | 9.0                | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| 2,4,5-Trichlorophenol        | ND     | 25.8               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Chloronaphthalene          | ND     | 8.0                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2-Nitroaniline               | ND     | 16.4               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| Acenaphthylene               | ND     | 6.2                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| Dimethylphthalate            | ND     | 4.4                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 2,6-Dinitrotoluene           | ND     | 20.5               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| Acenaphthene                 | ND     | 5.2                | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |
| 3-Nitroaniline               | ND     | 22.3               | 100                | ug/kg |                                                   |                  |                |     |              | U     |
| 2,4-Dinitrophenol            | ND     | 33.8               | 200                | ug/kg |                                                   |                  |                |     |              | U     |
| Dibenzofuran                 | ND     | 14.1               | 20.0               | ug/kg |                                                   |                  |                |     |              | U     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| Blank (BMC0697-BLK1)              |        |                 |                 |       |             | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 19:50 |      |             |     |           |       |
| 4-Nitrophenol                     | ND     | 32.6            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 2,4-Dinitrotoluene                | ND     | 16.2            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Fluorene                          | ND     | 14.6            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Chlorophenylphenyl ether        | ND     | 19.2            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Diethyl phthalate                 | ND     | 19.7            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Nitroaniline                    | ND     | 29.4            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| 4,6-Dinitro-2-methylphenol        | ND     | 38.0            | 200             | ug/kg |             |                                                   |      |             |     |           | U     |
| N-Nitrosodiphenylamine            | ND     | 5.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 4-Bromophenyl phenyl ether        | ND     | 17.0            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Hexachlorobenzene                 | ND     | 13.5            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Pentachlorophenol                 | ND     | 31.3            | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Phenanthrene                      | ND     | 8.7             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Anthracene                        | ND     | 7.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Carbazole                         | ND     | 4.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Di-n-Butylphthalate               | ND     | 5.6             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Fluoranthene                      | ND     | 6.1             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Pyrene                            | ND     | 5.7             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Butylbenzylphthalate              | ND     | 9.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(a)anthracene                | ND     | 6.0             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 3,3'-Dichlorobenzidine            | ND     | 7.1             | 100             | ug/kg |             |                                                   |      |             |     |           | U     |
| Chrysene                          | ND     | 6.1             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| bis(2-Ethylhexyl)phthalate        | ND     | 14.1            | 50.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Di-n-Octylphthalate               | ND     | 4.4             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(a)fluoranthene, Total       | ND     | 21.0            | 40.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(a)pyrene                    | ND     | 4.2             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Indeno(1,2,3-cd)pyrene            | ND     | 14.7            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Dibenzo(a,h)anthracene            | ND     | 17.2            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Benzo(g,h,i)perylene              | ND     | 13.6            | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| 1-Methylnaphthalene               | ND     | 5.3             | 20.0            | ug/kg |             |                                                   |      |             |     |           | U     |
| Surrogate: 2-Fluorophenol         | 481    |                 |                 | ug/kg | 750         |                                                   | 64.1 | 27-120      |     |           |       |
| Surrogate: Phenol-d5              | 502    |                 |                 | ug/kg | 750         |                                                   | 66.9 | 29-120      |     |           |       |
| Surrogate: 2-Chlorophenol-d4      | 563    |                 |                 | ug/kg | 750         |                                                   | 75.1 | 31-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 401    |                 |                 | ug/kg | 500         |                                                   | 80.2 | 32-120      |     |           |       |
| Surrogate: Nitrobenzene-d5        | 315    |                 |                 | ug/kg | 500         |                                                   | 63.0 | 30-120      |     |           |       |
| Surrogate: 2-Fluorobiphenyl       | 446    |                 |                 | ug/kg | 500         |                                                   | 89.2 | 35-120      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|------|----------------|-----|--------------|-------|
| <b>Blank (BMC0697-BLK1)</b>     |        |                    |                    |       | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 19:50 |                  |      |                |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 511    |                    |                    | ug/kg | 750                                               |                  | 68.1 | 24-134         |     |              | Q     |
| Surrogate: p-Terphenyl-d14      | 506    |                    |                    | ug/kg | 500                                               |                  | 101  | 37-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte            | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0697-BS1)            |        |                 |                 |       |             | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 20:29 |      |             |     |           |       |
| Phenol                       | 309    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 61.8 | 31-120      |     |           |       |
| bis(2-chloroethyl) ether     | 300    | 19.3            | 50.0            | ug/kg | 500         |                                                   | 60.0 | 36-120      |     |           |       |
| 2-Chlorophenol               | 346    | 13.9            | 20.0            | ug/kg | 500         |                                                   | 69.1 | 39-120      |     |           |       |
| 1,3-Dichlorobenzene          | 310    | 3.1             | 20.0            | ug/kg | 500         |                                                   | 62.0 | 40-120      |     |           |       |
| 1,4-Dichlorobenzene          | 287    | 6.4             | 20.0            | ug/kg | 500         |                                                   | 57.4 | 39-120      |     |           |       |
| 1,2-Dichlorobenzene          | 314    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 62.9 | 40-120      |     |           |       |
| Benzyl Alcohol               | 312    | 16.3            | 20.0            | ug/kg | 500         |                                                   | 62.5 | 19-120      |     |           |       |
| 2,2'-Oxybis(1-chloropropane) | 349    | 3.4             | 20.0            | ug/kg | 500         |                                                   | 69.7 | 32-120      |     |           |       |
| 2-Methylphenol               | 290    | 6.7             | 20.0            | ug/kg | 500         |                                                   | 58.0 | 11-120      |     |           |       |
| Hexachloroethane             | 285    | 6.9             | 20.0            | ug/kg | 500         |                                                   | 57.0 | 38-120      |     |           |       |
| N-Nitroso-di-n-Propylamine   | 252    | 7.5             | 20.0            | ug/kg | 500         |                                                   | 50.4 | 24-120      |     |           | Q     |
| 4-Methylphenol               | 307    | 7.4             | 20.0            | ug/kg | 500         |                                                   | 61.4 | 29-120      |     |           |       |
| Nitrobenzene                 | 260    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 52.0 | 36-120      |     |           |       |
| Isophorone                   | 467    | 9.5             | 20.0            | ug/kg | 500         |                                                   | 93.4 | 37-126      |     |           |       |
| 2-Nitrophenol                | 443    | 4.9             | 20.0            | ug/kg | 500         |                                                   | 88.6 | 30-120      |     |           | Q     |
| 2,4-Dimethylphenol           | 186    | 8.9             | 100             | ug/kg | 1500        |                                                   | 12.4 | 10-120      |     |           |       |
| Bis(2-Chloroethoxy)methane   | 298    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 59.5 | 39-126      |     |           |       |
| 2,4-Dichlorophenol           | 1220   | 15.3            | 100             | ug/kg | 1500        |                                                   | 81.0 | 28-120      |     |           | Q     |
| 1,2,4-Trichlorobenzene       | 343    | 8.5             | 20.0            | ug/kg | 500         |                                                   | 68.6 | 35-120      |     |           |       |
| Naphthalene                  | 322    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 64.4 | 41-120      |     |           |       |
| Benzoic acid                 | 1190   | 39.0            | 200             | ug/kg | 2250        |                                                   | 53.0 | 10-120      |     |           |       |
| 4-Chloroaniline              | 715    | 26.3            | 100             | ug/kg | 1500        |                                                   | 47.7 | 10-120      |     |           |       |
| Hexachlorobutadiene          | 340    | 4.8             | 20.0            | ug/kg | 500         |                                                   | 68.0 | 37-120      |     |           |       |
| 4-Chloro-3-Methylphenol      | 990    | 12.4            | 100             | ug/kg | 1500        |                                                   | 66.0 | 32-120      |     |           |       |
| 2-Methylnaphthalene          | 357    | 4.5             | 20.0            | ug/kg | 500         |                                                   | 71.3 | 43-120      |     |           |       |
| Hexachlorocyclopentadiene    | 1130   | 24.5            | 100             | ug/kg | 1500        |                                                   | 75.4 | 10-120      |     |           |       |
| 2,4,6-Trichlorophenol        | 1180   | 9.0             | 100             | ug/kg | 1500        |                                                   | 78.8 | 40-120      |     |           | Q     |
| 2,4,5-Trichlorophenol        | 1150   | 25.8            | 100             | ug/kg | 1500        |                                                   | 76.8 | 51.5-129    |     |           |       |
| 2-Chloronaphthalene          | 332    | 8.0             | 20.0            | ug/kg | 500         |                                                   | 66.5 | 40-120      |     |           |       |
| 2-Nitroaniline               | 819    | 16.4            | 100             | ug/kg | 1500        |                                                   | 54.6 | 40-152      |     |           |       |
| Acenaphthylene               | 286    | 6.2             | 20.0            | ug/kg | 500         |                                                   | 57.2 | 42-120      |     |           |       |
| Dimethylphthalate            | 370    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 74.1 | 43-120      |     |           |       |
| 2,6-Dinitrotoluene           | 1230   | 20.5            | 100             | ug/kg | 1500        |                                                   | 81.8 | 31-156      |     |           |       |
| Acenaphthene                 | 351    | 5.2             | 20.0            | ug/kg | 500         |                                                   | 70.2 | 45-120      |     |           |       |
| 3-Nitroaniline               | 815    | 22.3            | 100             | ug/kg | 1500        |                                                   | 54.3 | 22-120      |     |           | Q     |





CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-----|-----------|-------|
| LCS (BMC0697-BS1)                 |        |                 |                 |       |             | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 20:29 |      |             |     |           |       |
| 2,4-Dinitrophenol                 | 2080   | 33.8            | 200             | ug/kg | 2750        |                                                   | 75.6 | 13-160      |     |           | Q     |
| Dibenzofuran                      | 366    | 14.1            | 20.0            | ug/kg | 500         |                                                   | 73.2 | 43-120      |     |           |       |
| 4-Nitrophenol                     | 828    | 32.6            | 100             | ug/kg | 1500        |                                                   | 55.2 | 18-154      |     |           |       |
| 2,4-Dinitrotoluene                | 1270   | 16.2            | 100             | ug/kg | 1500        |                                                   | 84.8 | 44-150      |     |           | Q     |
| Fluorene                          | 427    | 14.6            | 20.0            | ug/kg | 500         |                                                   | 85.4 | 40-120      |     |           |       |
| 4-Chlorophenylphenyl ether        | 398    | 19.2            | 50.0            | ug/kg | 500         |                                                   | 79.6 | 36-141      |     |           |       |
| Diethyl phthalate                 | 391    | 19.7            | 50.0            | ug/kg | 500         |                                                   | 78.2 | 43-140      |     |           |       |
| 4-Nitroaniline                    | 768    | 29.4            | 100             | ug/kg | 1500        |                                                   | 51.2 | 15-120      |     |           | Q     |
| 4,6-Dinitro-2-methylphenol        | 2590   | 38.0            | 200             | ug/kg | 2750        |                                                   | 94.1 | 33-144      |     |           | Q     |
| N-Nitrosodiphenylamine            | 315    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 62.9 | 17-120      |     |           |       |
| 4-Bromophenyl phenyl ether        | 414    | 17.0            | 20.0            | ug/kg | 500         |                                                   | 82.8 | 39-120      |     |           |       |
| Hexachlorobenzene                 | 371    | 13.5            | 20.0            | ug/kg | 500         |                                                   | 74.2 | 33-120      |     |           |       |
| Pentachlorophenol                 | 1160   | 31.3            | 100             | ug/kg | 1500        |                                                   | 77.1 | 33-133      |     |           |       |
| Phenanthrene                      | 355    | 8.7             | 20.0            | ug/kg | 500         |                                                   | 71.0 | 49-120      |     |           |       |
| Anthracene                        | 375    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 75.0 | 37-120      |     |           |       |
| Carbazole                         | 360    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 72.0 | 30-135      |     |           | Q     |
| Di-n-Butylphthalate               | 361    | 5.6             | 20.0            | ug/kg | 500         |                                                   | 72.3 | 48-126      |     |           |       |
| Fluoranthene                      | 390    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 78.1 | 38-127      |     |           |       |
| Pyrene                            | 384    | 5.7             | 20.0            | ug/kg | 500         |                                                   | 76.8 | 39-122      |     |           |       |
| Butylbenzylphthalate              | 370    | 9.4             | 20.0            | ug/kg | 500         |                                                   | 74.0 | 45-132      |     |           |       |
| Benzo(a)anthracene                | 383    | 6.0             | 20.0            | ug/kg | 500         |                                                   | 76.6 | 44-120      |     |           |       |
| 3,3'-Dichlorobenzidine            | 435    | 7.1             | 100             | ug/kg | 1000        |                                                   | 43.5 | 10-120      |     |           | Q     |
| Chrysene                          | 367    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 73.4 | 47-120      |     |           |       |
| bis(2-Ethylhexyl)phthalate        | 392    | 14.1            | 50.0            | ug/kg | 500         |                                                   | 78.4 | 10-130      |     |           |       |
| Di-n-Octylphthalate               | 360    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 72.1 | 10-124      |     |           |       |
| Benzo(a)fluoranthene, Total       | 805    | 21.0            | 40.0            | ug/kg | 1000        |                                                   | 80.5 | 30-160      |     |           |       |
| Benzo(a)pyrene                    | 367    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 73.3 | 37-120      |     |           |       |
| Indeno(1,2,3-cd)pyrene            | 331    | 14.7            | 20.0            | ug/kg | 500         |                                                   | 66.2 | 30-160      |     |           |       |
| Dibenzo(a,h)anthracene            | 317    | 17.2            | 20.0            | ug/kg | 500         |                                                   | 63.4 | 30-160      |     |           |       |
| Benzo(g,h,i)perylene              | 373    | 13.6            | 20.0            | ug/kg | 500         |                                                   | 74.6 | 10-150      |     |           |       |
| 1-Methylnaphthalene               | 314    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 62.9 | 42-120      |     |           |       |
| Surrogate: 2-Fluorophenol         | 571    |                 |                 | ug/kg | 750         |                                                   | 76.1 | 27-120      |     |           |       |
| Surrogate: Phenol-d5              | 545    |                 |                 | ug/kg | 750         |                                                   | 72.6 | 29-120      |     |           |       |
| Surrogate: 2-Chlorophenol-d4      | 615    |                 |                 | ug/kg | 750         |                                                   | 82.0 | 31-120      |     |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 386    |                 |                 | ug/kg | 500         |                                                   | 77.1 | 32-120      |     |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result                                  | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|----------------|---------------------------------------------------|------|----------------|-----|--------------|-------|
| <b>LCS (BMC0697-BS1)</b>        |        |                    |                    |       |                | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 20:29 |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5      | 313    |                    |                    | ug/kg | 500            |                                                   | 62.5 | 30-120         |     |              |       |
| Surrogate: 2-Fluorobiphenyl     | 427    |                    |                    | ug/kg | 500            |                                                   | 85.5 | 35-120         |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 863    |                    |                    | ug/kg | 750            |                                                   | 115  | 24-134         |     |              | Q     |
| Surrogate: p-Terphenyl-d14      | 482    |                    |                    | ug/kg | 500            |                                                   | 96.4 | 37-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

### Semivolatile Organic Compounds - Quality Control

**Batch BMC0697 - EPA 8270E**

Instrument: NT10 Analyst: FL

| QC Sample/Analyte             | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BMC0697-BSD1)</b> |        |                 |                 |       |             | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 21:08 |      |             |       |           |       |
| Phenol                        | 295    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 59.0 | 31-120      | 4.70  | 30        |       |
| bis(2-chloroethyl) ether      | 298    | 19.3            | 50.0            | ug/kg | 500         |                                                   | 59.6 | 36-120      | 0.76  | 30        |       |
| 2-Chlorophenol                | 338    | 13.9            | 20.0            | ug/kg | 500         |                                                   | 67.6 | 39-120      | 2.22  | 30        |       |
| 1,3-Dichlorobenzene           | 309    | 3.1             | 20.0            | ug/kg | 500         |                                                   | 61.8 | 40-120      | 0.29  | 30        |       |
| 1,4-Dichlorobenzene           | 291    | 6.4             | 20.0            | ug/kg | 500         |                                                   | 58.2 | 39-120      | 1.46  | 30        |       |
| 1,2-Dichlorobenzene           | 315    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 63.1 | 40-120      | 0.30  | 30        |       |
| Benzyl Alcohol                | 308    | 16.3            | 20.0            | ug/kg | 500         |                                                   | 61.6 | 19-120      | 1.48  | 30        |       |
| 2,2'-Oxybis(1-chloropropane)  | 348    | 3.4             | 20.0            | ug/kg | 500         |                                                   | 69.6 | 32-120      | 0.14  | 30        |       |
| 2-Methylphenol                | 293    | 6.7             | 20.0            | ug/kg | 500         |                                                   | 58.5 | 11-120      | 0.86  | 30        |       |
| Hexachloroethane              | 292    | 6.9             | 20.0            | ug/kg | 500         |                                                   | 58.4 | 38-120      | 2.54  | 30        |       |
| N-Nitroso-di-n-Propylamine    | 240    | 7.5             | 20.0            | ug/kg | 500         |                                                   | 48.0 | 24-120      | 4.89  | 30        | Q     |
| 4-Methylphenol                | 305    | 7.4             | 20.0            | ug/kg | 500         |                                                   | 61.0 | 29-120      | 0.66  | 30        |       |
| Nitrobenzene                  | 258    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 51.6 | 36-120      | 0.64  | 30        |       |
| Isophorone                    | 410    | 9.5             | 20.0            | ug/kg | 500         |                                                   | 82.1 | 37-126      | 12.90 | 30        |       |
| 2-Nitrophenol                 | 443    | 4.9             | 20.0            | ug/kg | 500         |                                                   | 88.5 | 30-120      | 0.11  | 30        | Q     |
| 2,4-Dimethylphenol            | 327    | 8.9             | 100             | ug/kg | 1500        |                                                   | 21.8 | 10-120      | 55.10 | 30        | *     |
| Bis(2-Chloroethoxy)methane    | 295    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 59.0 | 39-126      | 0.93  | 30        |       |
| 2,4-Dichlorophenol            | 1200   | 15.3            | 100             | ug/kg | 1500        |                                                   | 79.9 | 28-120      | 1.42  | 30        | Q     |
| 1,2,4-Trichlorobenzene        | 343    | 8.5             | 20.0            | ug/kg | 500         |                                                   | 68.6 | 35-120      | 0.06  | 30        |       |
| Naphthalene                   | 318    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 63.7 | 41-120      | 1.09  | 30        |       |
| Benzoic acid                  | 857    | 39.0            | 200             | ug/kg | 2250        |                                                   | 38.1 | 10-120      | 32.70 | 30        | *     |
| 4-Chloroaniline               | 744    | 26.3            | 100             | ug/kg | 1500        |                                                   | 49.6 | 10-120      | 3.96  | 30        |       |
| Hexachlorobutadiene           | 340    | 4.8             | 20.0            | ug/kg | 500         |                                                   | 68.0 | 37-120      | 0.09  | 30        |       |
| 4-Chloro-3-Methylphenol       | 960    | 12.4            | 100             | ug/kg | 1500        |                                                   | 64.0 | 32-120      | 3.14  | 30        |       |
| 2-Methylnaphthalene           | 346    | 4.5             | 20.0            | ug/kg | 500         |                                                   | 69.3 | 43-120      | 2.92  | 30        |       |
| Hexachlorocyclopentadiene     | 1070   | 24.5            | 100             | ug/kg | 1500        |                                                   | 71.0 | 10-120      | 5.95  | 30        |       |
| 2,4,6-Trichlorophenol         | 1150   | 9.0             | 100             | ug/kg | 1500        |                                                   | 77.0 | 40-120      | 2.29  | 30        | Q     |
| 2,4,5-Trichlorophenol         | 1100   | 25.8            | 100             | ug/kg | 1500        |                                                   | 73.4 | 51.5-129    | 4.55  | 30        |       |
| 2-Chloronaphthalene           | 324    | 8.0             | 20.0            | ug/kg | 500         |                                                   | 64.7 | 40-120      | 2.71  | 30        |       |
| 2-Nitroaniline                | 792    | 16.4            | 100             | ug/kg | 1500        |                                                   | 52.8 | 40-152      | 3.45  | 30        |       |
| Acenaphthylene                | 277    | 6.2             | 20.0            | ug/kg | 500         |                                                   | 55.4 | 42-120      | 3.29  | 30        |       |
| Dimethylphthalate             | 365    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 73.0 | 43-120      | 1.53  | 30        |       |
| 2,6-Dinitrotoluene            | 1190   | 20.5            | 100             | ug/kg | 1500        |                                                   | 79.5 | 31-156      | 2.93  | 30        |       |
| Acenaphthene                  | 337    | 5.2             | 20.0            | ug/kg | 500         |                                                   | 67.5 | 45-120      | 3.88  | 30        |       |
| 3-Nitroaniline                | 792    | 22.3            | 100             | ug/kg | 1500        |                                                   | 52.8 | 22-120      | 2.84  | 30        | Q     |



CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

**Reported:**

09-May-2024 14:15

**Analysis by: Analytical Resources, LLC**

### Semivolatile Organic Compounds - Quality Control

**Batch BMC0697 - EPA 8270E**

Instrument: NT10 Analyst: FL

| QC Sample/Analyte                 | Result | Detection Limit | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-----------------|-------|-------------|---------------------------------------------------|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BMC0697-BSD1)</b>     |        |                 |                 |       |             | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 21:08 |      |             |       |           |       |
| 2,4-Dinitrophenol                 | 1960   | 33.8            | 200             | ug/kg | 2750        |                                                   | 71.3 | 13-160      | 5.80  | 30        | Q     |
| Dibenzofuran                      | 351    | 14.1            | 20.0            | ug/kg | 500         |                                                   | 70.3 | 43-120      | 4.12  | 30        |       |
| 4-Nitrophenol                     | 754    | 32.6            | 100             | ug/kg | 1500        |                                                   | 50.2 | 18-154      | 9.43  | 30        |       |
| 2,4-Dinitrotoluene                | 1230   | 16.2            | 100             | ug/kg | 1500        |                                                   | 81.9 | 44-150      | 3.44  | 30        | Q     |
| Fluorene                          | 354    | 14.6            | 20.0            | ug/kg | 500         |                                                   | 70.8 | 40-120      | 18.70 | 30        |       |
| 4-Chlorophenylphenyl ether        | 381    | 19.2            | 50.0            | ug/kg | 500         |                                                   | 76.2 | 36-141      | 4.34  | 30        |       |
| Diethyl phthalate                 | 369    | 19.7            | 50.0            | ug/kg | 500         |                                                   | 73.9 | 43-140      | 5.69  | 30        |       |
| 4-Nitroaniline                    | 751    | 29.4            | 100             | ug/kg | 1500        |                                                   | 50.1 | 15-120      | 2.18  | 30        | Q     |
| 4,6-Dinitro-2-methylphenol        | 1100   | 38.0            | 200             | ug/kg | 2750        |                                                   | 40.2 | 33-144      | 80.40 | 30        | *, Q  |
| N-Nitrosodiphenylamine            | 282    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 56.3 | 17-120      | 11.10 | 30        |       |
| 4-Bromophenyl phenyl ether        | 397    | 17.0            | 20.0            | ug/kg | 500         |                                                   | 79.4 | 39-120      | 4.25  | 30        |       |
| Hexachlorobenzene                 | 358    | 13.5            | 20.0            | ug/kg | 500         |                                                   | 71.7 | 33-120      | 3.44  | 30        |       |
| Pentachlorophenol                 | 1110   | 31.3            | 100             | ug/kg | 1500        |                                                   | 74.0 | 33-133      | 4.09  | 30        |       |
| Phenanthrene                      | 340    | 8.7             | 20.0            | ug/kg | 500         |                                                   | 68.1 | 49-120      | 4.22  | 30        |       |
| Anthracene                        | 357    | 7.2             | 20.0            | ug/kg | 500         |                                                   | 71.4 | 37-120      | 5.00  | 30        |       |
| Carbazole                         | 312    | 4.3             | 20.0            | ug/kg | 500         |                                                   | 62.3 | 30-135      | 14.50 | 30        | Q     |
| Di-n-Butylphthalate               | 343    | 5.6             | 20.0            | ug/kg | 500         |                                                   | 68.7 | 48-126      | 5.08  | 30        |       |
| Fluoranthene                      | 383    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 76.7 | 38-127      | 1.80  | 30        |       |
| Pyrene                            | 376    | 5.7             | 20.0            | ug/kg | 500         |                                                   | 75.1 | 39-122      | 2.14  | 30        |       |
| Butylbenzylphthalate              | 366    | 9.4             | 20.0            | ug/kg | 500         |                                                   | 73.2 | 45-132      | 1.11  | 30        |       |
| Benzo(a)anthracene                | 370    | 6.0             | 20.0            | ug/kg | 500         |                                                   | 73.9 | 44-120      | 3.62  | 30        |       |
| 3,3'-Dichlorobenzidine            | 415    | 7.1             | 100             | ug/kg | 1000        |                                                   | 41.5 | 10-120      | 4.77  | 30        | Q     |
| Chrysene                          | 356    | 6.1             | 20.0            | ug/kg | 500         |                                                   | 71.2 | 47-120      | 3.03  | 30        |       |
| bis(2-Ethylhexyl)phthalate        | 376    | 14.1            | 50.0            | ug/kg | 500         |                                                   | 75.3 | 10-130      | 3.99  | 30        |       |
| Di-n-Octylphthalate               | 341    | 4.4             | 20.0            | ug/kg | 500         |                                                   | 68.2 | 10-124      | 5.44  | 30        |       |
| Benzo(a)fluoranthene, Total       | 759    | 21.0            | 40.0            | ug/kg | 1000        |                                                   | 75.9 | 30-160      | 5.92  | 30        |       |
| Benzo(a)pyrene                    | 340    | 4.2             | 20.0            | ug/kg | 500         |                                                   | 68.0 | 37-120      | 7.53  | 30        |       |
| Indeno(1,2,3-cd)pyrene            | 301    | 14.7            | 20.0            | ug/kg | 500         |                                                   | 60.2 | 30-160      | 9.44  | 30        |       |
| Dibenzo(a,h)anthracene            | 289    | 17.2            | 20.0            | ug/kg | 500         |                                                   | 57.7 | 30-160      | 9.42  | 30        |       |
| Benzo(g,h,i)perylene              | 344    | 13.6            | 20.0            | ug/kg | 500         |                                                   | 68.7 | 10-150      | 8.20  | 30        |       |
| 1-Methylnaphthalene               | 313    | 5.3             | 20.0            | ug/kg | 500         |                                                   | 62.5 | 42-120      | 0.61  | 30        |       |
| Surrogate: 2-Fluorophenol         | 542    |                 |                 | ug/kg | 750         |                                                   | 72.2 | 27-120      |       |           |       |
| Surrogate: Phenol-d5              | 506    |                 |                 | ug/kg | 750         |                                                   | 67.4 | 29-120      |       |           |       |
| Surrogate: 2-Chlorophenol-d4      | 594    |                 |                 | ug/kg | 750         |                                                   | 79.2 | 31-120      |       |           |       |
| Surrogate: 1,2-Dichlorobenzene-d4 | 380    |                 |                 | ug/kg | 500         |                                                   | 76.1 | 32-120      |       |           |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Semivolatile Organic Compounds - Quality Control

Batch BMC0697 - EPA 8270E

Instrument: NT10 Analyst: FL

| QC Sample/Analyte               | Result | Detection<br>Limit | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------|--------|--------------------|--------------------|-------|---------------------------------------------------|------------------|------|----------------|-----|--------------|-------|
| <b>LCS Dup (BMC0697-BSD1)</b>   |        |                    |                    |       | Prepared: 01-Apr-2024 Analyzed: 02-May-2024 21:08 |                  |      |                |     |              |       |
| Surrogate: Nitrobenzene-d5      | 306    |                    |                    | ug/kg | 500                                               |                  | 61.2 | 30-120         |     |              |       |
| Surrogate: 2-Fluorobiphenyl     | 410    |                    |                    | ug/kg | 500                                               |                  | 82.1 | 35-120         |     |              |       |
| Surrogate: 2,4,6-Tribromophenol | 829    |                    |                    | ug/kg | 750                                               |                  | 111  | 24-134         |     |              | Q     |
| Surrogate: p-Terphenyl-d14      | 468    |                    |                    | ug/kg | 500                                               |                  | 93.6 | 37-120         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

#### Batch BMC0564 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte                  | Result | Reporting<br>Limit                                | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|------------------------------------|--------|---------------------------------------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| <b>Blank (BMC0564-BLK1)</b>        |        | Prepared: 21-Mar-2024 Analyzed: 12-Apr-2024 11:59 |       |                |                  |      |                |     |              |       |
| Diesel Range Organics (C12-C24)    | ND     | 0.100                                             | mg/L  |                |                  |      |                |     |              | U     |
| Motor Oil Range Organics (C24-C38) | ND     | 0.200                                             | mg/L  |                |                  |      |                |     |              | U     |
| Surrogate: o-Terphenyl             | 0.232  |                                                   | mg/L  | 0.225          |                  | 103  | 50-150         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

#### Batch BMC0564 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte                                 | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
| LCS (BMC0564-BS1)                                 |        |                    |       |                |                  |                |     |              |       |
| Prepared: 21-Mar-2024 Analyzed: 12-Apr-2024 12:19 |        |                    |       |                |                  |                |     |              |       |
| Diesel Range Organics (C12-C24)                   | 3.78   | 0.100              | mg/L  | 3.00           | 126              | 56-120         |     |              | *     |
| Surrogate: o-Terphenyl                            | 0.260  |                    | mg/L  | 0.225          | 115              | 50-150         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

#### Batch BMC0564 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte               | Result | Reporting<br>Limit                                | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|---------------------------------|--------|---------------------------------------------------|-------|----------------|------------------|------|----------------|-------|--------------|-------|
| <b>LCS Dup (BMC0564-BSD1)</b>   |        | Prepared: 21-Mar-2024 Analyzed: 12-Apr-2024 12:40 |       |                |                  |      |                |       |              |       |
| Diesel Range Organics (C12-C24) | 2.85   | 0.100                                             | mg/L  | 3.00           |                  | 95.1 | 56-120         | 27.90 | 30           |       |
| Surrogate: o-Terphenyl          | 0.186  |                                                   | mg/L  | 0.225          |                  | 82.6 | 50-150         |       |              |       |





CALIBRE

Project: Boeing Renton

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Project Number: Boeing Renton

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Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

### Petroleum Hydrocarbons - Quality Control

#### Batch BMC0691 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte                  | Result | Reporting<br>Limit | Units | Spike<br>Level                                    | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-------|---------------------------------------------------|------------------|------|----------------|-----|--------------|-------|
| <b>Blank (BMC0691-BLK1)</b>        |        |                    |       |                                                   |                  |      |                |     |              |       |
|                                    |        |                    |       | Prepared: 29-Mar-2024 Analyzed: 04-Apr-2024 15:38 |                  |      |                |     |              |       |
| Diesel Range Organics (C12-C24)    | ND     | 5.00               | mg/kg |                                                   |                  |      |                |     |              | U     |
| Motor Oil Range Organics (C24-C38) | ND     | 10.0               | mg/kg |                                                   |                  |      |                |     |              | U     |
| Surrogate: <i>o</i> -Terphenyl     | 4.91   |                    | mg/kg | 11.3                                              |                  | 43.6 | 50-150         |     |              | *     |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

Batch BMC0691 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte                                 | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| LCS (BMC0691-BS1)                                 |        |                    |       |                |                  |      |                |     |              |       |
| Prepared: 29-Mar-2024 Analyzed: 02-Apr-2024 18:34 |        |                    |       |                |                  |      |                |     |              |       |
| Diesel Range Organics (C12-C24)                   | 108    | 5.00               | mg/kg | 150            |                  | 72.0 | 63-120         |     |              |       |
| Surrogate: o-Terphenyl                            | 8.52   |                    | mg/kg | 11.3           |                  | 75.7 | 50-150         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

#### Batch BMC0691 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte               | Result | Reporting<br>Limit                                | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|---------------------------------|--------|---------------------------------------------------|-------|----------------|------------------|----------------|-------|--------------|-------|
| <b>LCS Dup (BMC0691-BSD1)</b>   |        | Prepared: 29-Mar-2024 Analyzed: 04-Apr-2024 15:58 |       |                |                  |                |       |              |       |
| Diesel Range Organics (C12-C24) | 97.7   | 5.00                                              | mg/kg | 150            | 65.1             | 63-120         | 10.00 | 30           |       |
| Surrogate: o-Terphenyl          | 7.42   |                                                   | mg/kg | 11.3           | 66.0             | 50-150         |       |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Petroleum Hydrocarbons - Quality Control

Batch BMC0693 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte                  | Result | Reporting<br>Limit                                | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|------------------------------------|--------|---------------------------------------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
| <b>Blank (BMC0693-BLK1)</b>        |        | Prepared: 01-Apr-2024 Analyzed: 04-Apr-2024 16:38 |       |                |                  |      |                |     |              |       |
| Diesel Range Organics (C12-C24)    | ND     | 5.00                                              | mg/kg |                |                  |      |                |     |              | U     |
| Motor Oil Range Organics (C24-C38) | ND     | 10.0                                              | mg/kg |                |                  |      |                |     |              | U     |
| Surrogate: o-Terphenyl             | 8.73   |                                                   | mg/kg | 11.3           |                  | 77.6 | 50-150         |     |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

Batch BMC0693 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte                                 | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD<br>Limit | Notes |
|---------------------------------------------------|--------|--------------------|-------|----------------|------------------|----------------|--------------|-------|
| LCS (BMC0693-BS1)                                 |        |                    |       |                |                  |                |              |       |
| Prepared: 01-Apr-2024 Analyzed: 04-Apr-2024 16:58 |        |                    |       |                |                  |                |              |       |
| Diesel Range Organics (C12-C24)                   | 128    | 5.00               | mg/kg | 150            | 85.5             | 63-120         |              |       |
| Surrogate: o-Terphenyl                            | 10.1   |                    | mg/kg | 11.3           | 89.5             | 50-150         |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Project Manager: Tom McKeon

Reported:

09-May-2024 14:15

Analysis by: Analytical Resources, LLC

### Petroleum Hydrocarbons - Quality Control

#### Batch BMC0693 - NWTPH-Dx

Instrument: FID4 Analyst: NRB

| QC Sample/Analyte               | Result | Reporting<br>Limit                                | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|---------------------------------|--------|---------------------------------------------------|-------|----------------|------------------|------|----------------|------|--------------|-------|
| <b>LCS Dup (BMC0693-BSD1)</b>   |        | Prepared: 01-Apr-2024 Analyzed: 04-Apr-2024 17:18 |       |                |                  |      |                |      |              |       |
| Diesel Range Organics (C12-C24) | 119    | 5.00                                              | mg/kg | 150            |                  | 79.0 | 63-120         | 7.93 | 30           |       |
| Surrogate: o-Terphenyl          | 9.13   |                                                   | mg/kg | 11.3           |                  | 81.2 | 50-150         |      |              |       |



CALIBRE

Project: Boeing Renton

Project Number: Boeing Renton

Reported:

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Project Manager: Tom McKeon

09-May-2024 14:15

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## Certified Analyses included in this Report

| Analyte                            | Certifications            |
|------------------------------------|---------------------------|
| <b>EPA 8260D in Solid</b>          |                           |
| Chloromethane                      | WADOE,DoD-ELAP,NELAP,ADEC |
| Vinyl Chloride                     | WADOE,DoD-ELAP,NELAP,ADEC |
| Bromomethane                       | WADOE,DoD-ELAP,NELAP,ADEC |
| Chloroethane                       | WADOE,DoD-ELAP,NELAP,ADEC |
| Trichlorofluoromethane             | WADOE,DoD-ELAP,NELAP,ADEC |
| Acrolein                           | WADOE,DoD-ELAP,NELAP      |
| 1,1,2-Trichloro-1,2,2-Trifluoroeth | WADOE,DoD-ELAP,NELAP,ADEC |
| Acetone                            | WADOE,DoD-ELAP,NELAP      |
| 1,1-Dichloroethene                 | WADOE,DoD-ELAP,NELAP,ADEC |
| Iodomethane                        | WADOE,DoD-ELAP,NELAP,ADEC |
| Methylene Chloride                 | WADOE,DoD-ELAP,NELAP,ADEC |
| Acrylonitrile                      | WADOE,DoD-ELAP,NELAP      |
| Carbon Disulfide                   | WADOE,DoD-ELAP,NELAP,ADEC |
| trans-1,2-Dichloroethene           | WADOE,DoD-ELAP,NELAP,ADEC |
| Vinyl Acetate                      | WADOE,DoD-ELAP,NELAP      |
| 1,1-Dichloroethane                 | WADOE,DoD-ELAP,NELAP,ADEC |
| 2-Butanone                         | WADOE,DoD-ELAP,NELAP      |
| 2,2-Dichloropropane                | WADOE,DoD-ELAP,NELAP      |
| cis-1,2-Dichloroethene             | WADOE,DoD-ELAP,NELAP,ADEC |
| Chloroform                         | WADOE,DoD-ELAP,NELAP,ADEC |
| Bromochloromethane                 | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,1,1-Trichloroethane              | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,1-Dichloropropene                | WADOE,DoD-ELAP,NELAP,ADEC |
| Carbon tetrachloride               | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,2-Dichloroethane                 | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzene                            | WADOE,DoD-ELAP,NELAP,ADEC |
| Trichloroethene                    | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,2-Dichloropropane                | WADOE,DoD-ELAP,NELAP,ADEC |
| Bromodichloromethane               | WADOE,DoD-ELAP,NELAP,ADEC |
| Dibromomethane                     | WADOE,DoD-ELAP,NELAP,ADEC |



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|-----------------------------|---------------------------|
| 2-Chloroethyl vinyl ether   | WADOE,DoD-ELAP,NELAP      |
| 4-Methyl-2-Pentanone        | WADOE,DoD-ELAP,NELAP      |
| cis-1,3-Dichloropropene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Toluene                     | WADOE,DoD-ELAP,NELAP,ADEC |
| trans-1,3-Dichloropropene   | WADOE,DoD-ELAP,NELAP,ADEC |
| 2-Hexanone                  | WADOE,DoD-ELAP,NELAP      |
| 1,1,2-Trichloroethane       | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,3-Dichloropropane         | WADOE,DoD-ELAP,NELAP,ADEC |
| Tetrachloroethene           | WADOE,DoD-ELAP,NELAP,ADEC |
| Dibromochloromethane        | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,2-Dibromoethane           | WADOE,DoD-ELAP,NELAP,ADEC |
| Chlorobenzene               | WADOE,DoD-ELAP,NELAP,ADEC |
| Ethylbenzene                | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,1,1,2-Tetrachloroethane   | WADOE,DoD-ELAP,NELAP,ADEC |
| m,p-Xylene                  | WADOE,DoD-ELAP,NELAP,ADEC |
| o-Xylene                    | WADOE,DoD-ELAP,NELAP,ADEC |
| Xylenes, total              | WADOE                     |
| Styrene                     | WADOE,DoD-ELAP,NELAP,ADEC |
| Bromoform                   | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,1,2,2-Tetrachloroethane   | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,2,3-Trichloropropane      | WADOE,DoD-ELAP,NELAP,ADEC |
| trans-1,4-Dichloro 2-Butene | WADOE,DoD-ELAP,NELAP      |
| n-Propylbenzene             | WADOE,DoD-ELAP,NELAP      |
| Bromobenzene                | WADOE,DoD-ELAP,NELAP,ADEC |
| Isopropyl Benzene           | WADOE,DoD-ELAP,NELAP,ADEC |
| 2-Chlorotoluene             | WADOE,DoD-ELAP,NELAP      |
| 4-Chlorotoluene             | WADOE,DoD-ELAP,NELAP      |
| t-Butylbenzene              | WADOE,DoD-ELAP,NELAP      |
| 1,3,5-Trimethylbenzene      | WADOE,DoD-ELAP,NELAP      |
| 1,2,4-Trimethylbenzene      | WADOE,DoD-ELAP,NELAP      |
| s-Butylbenzene              | WADOE,DoD-ELAP,NELAP      |
| 4-Isopropyl Toluene         | WADOE,DoD-ELAP,NELAP      |
| 1,3-Dichlorobenzene         | WADOE,DoD-ELAP,NELAP      |





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|-----------------------------|---------------------------|
| 1,4-Dichlorobenzene         | WADOE,DoD-ELAP,NELAP      |
| n-Butylbenzene              | WADOE,DoD-ELAP,NELAP      |
| 1,2-Dichlorobenzene         | WADOE,DoD-ELAP,NELAP      |
| 1,2-Dibromo-3-chloropropane | WADOE,DoD-ELAP,NELAP,ADEC |
| 1,2,4-Trichlorobenzene      | WADOE,DoD-ELAP,NELAP,ADEC |
| Hexachloro-1,3-Butadiene    | WADOE,DoD-ELAP,NELAP,ADEC |
| Naphthalene                 | WADOE,DoD-ELAP,NELAP      |
| 1,2,3-Trichlorobenzene      | WADOE,DoD-ELAP,NELAP,ADEC |
| Dichlorodifluoromethane     | WADOE,DoD-ELAP,NELAP,ADEC |
| Methyl tert-butyl Ether     | WADOE,DoD-ELAP,NELAP      |
| 2-Pentanone                 | WADOE                     |
| 4-Bromofluorobenzene        | WADOE                     |

**EPA 8260D in Water**

|                        |                           |
|------------------------|---------------------------|
| Chloromethane          | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloromethane          | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloromethane          | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloromethane          | DoD-ELAP,ADEC,NELAP,WADOE |
| Vinyl Chloride         | DoD-ELAP,ADEC,NELAP,WADOE |
| Vinyl Chloride         | DoD-ELAP,ADEC,NELAP,WADOE |
| Vinyl Chloride         | DoD-ELAP,ADEC,NELAP,WADOE |
| Vinyl Chloride         | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromomethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromomethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromomethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromomethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroethane           | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichlorofluoromethane | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichlorofluoromethane | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichlorofluoromethane | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichlorofluoromethane | DoD-ELAP,ADEC,NELAP,WADOE |



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|                                    |                           |
|------------------------------------|---------------------------|
| Acrolein                           | DoD-ELAP,NELAP,WADOE      |
| Acrolein                           | DoD-ELAP,NELAP,WADOE      |
| Acrolein                           | DoD-ELAP,NELAP,WADOE      |
| Acrolein                           | DoD-ELAP,NELAP,WADOE      |
| 1,1,2-Trichloro-1,2,2-Trifluoroeth | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2-Trichloro-1,2,2-Trifluoroeth | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2-Trichloro-1,2,2-Trifluoroeth | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2-Trichloro-1,2,2-Trifluoroeth | DoD-ELAP,ADEC,NELAP,WADOE |
| Acetone                            | DoD-ELAP,ADEC,NELAP,WADOE |
| Acetone                            | DoD-ELAP,ADEC,NELAP,WADOE |
| Acetone                            | DoD-ELAP,ADEC,NELAP,WADOE |
| Acetone                            | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Iodomethane                        | DoD-ELAP,NELAP,WADOE      |
| Iodomethane                        | DoD-ELAP,NELAP,WADOE      |
| Iodomethane                        | DoD-ELAP,NELAP,WADOE      |
| Iodomethane                        | DoD-ELAP,NELAP,WADOE      |
| Methylene Chloride                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Methylene Chloride                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Methylene Chloride                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Methylene Chloride                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Acrylonitrile                      | DoD-ELAP,NELAP,WADOE      |
| Acrylonitrile                      | DoD-ELAP,NELAP,WADOE      |
| Acrylonitrile                      | DoD-ELAP,NELAP,WADOE      |
| Acrylonitrile                      | DoD-ELAP,NELAP,WADOE      |
| Carbon Disulfide                   | DoD-ELAP,NELAP,WADOE      |
| Carbon Disulfide                   | DoD-ELAP,NELAP,WADOE      |
| Carbon Disulfide                   | DoD-ELAP,NELAP,WADOE      |
| Carbon Disulfide                   | DoD-ELAP,NELAP,WADOE      |
| trans-1,2-Dichloroethene           | DoD-ELAP,ADEC,NELAP,WADOE |



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|--------------------------|---------------------------|
| trans-1,2-Dichloroethene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,2-Dichloroethene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,2-Dichloroethene | DoD-ELAP,ADEC,NELAP,WADOE |
| Vinyl Acetate            | DoD-ELAP,NELAP,WADOE      |
| Vinyl Acetate            | DoD-ELAP,NELAP,WADOE      |
| Vinyl Acetate            | DoD-ELAP,NELAP,WADOE      |
| Vinyl Acetate            | DoD-ELAP,NELAP,WADOE      |
| 1,1-Dichloroethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloroethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Butanone               | DoD-ELAP,NELAP,WADOE      |
| 2-Butanone               | DoD-ELAP,NELAP,WADOE      |
| 2-Butanone               | DoD-ELAP,NELAP,WADOE      |
| 2-Butanone               | DoD-ELAP,NELAP,WADOE      |
| 2,2-Dichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 2,2-Dichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 2,2-Dichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 2,2-Dichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,2-Dichloroethene   | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,2-Dichloroethene   | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,2-Dichloroethene   | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,2-Dichloroethene   | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroform               | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroform               | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroform               | DoD-ELAP,ADEC,NELAP,WADOE |
| Chloroform               | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromochloromethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromochloromethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromochloromethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromochloromethane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1-Trichloroethane    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1-Trichloroethane    | DoD-ELAP,ADEC,NELAP,WADOE |



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|-----------------------|---------------------------|
| 1,1,1-Trichloroethane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1-Trichloroethane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| Carbon tetrachloride  | DoD-ELAP,ADEC,NELAP,WADOE |
| Carbon tetrachloride  | DoD-ELAP,ADEC,NELAP,WADOE |
| Carbon tetrachloride  | DoD-ELAP,ADEC,NELAP,WADOE |
| Carbon tetrachloride  | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloroethane    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloroethane    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloroethane    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloroethane    | DoD-ELAP,ADEC,NELAP,WADOE |
| Benzene               | DoD-ELAP,ADEC,NELAP,WADOE |
| Benzene               | DoD-ELAP,ADEC,NELAP,WADOE |
| Benzene               | DoD-ELAP,ADEC,NELAP,WADOE |
| Benzene               | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichloroethene       | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichloroethene       | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichloroethene       | DoD-ELAP,ADEC,NELAP,WADOE |
| Trichloroethene       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloropropane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloropropane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloropropane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichloropropane   | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromodichloromethane  | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromodichloromethane  | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromodichloromethane  | DoD-ELAP,ADEC,NELAP,WADOE |
| Bromodichloromethane  | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromomethane        | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromomethane        | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromomethane        | DoD-ELAP,ADEC,NELAP,WADOE |



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|---------------------------|---------------------------|
| Dibromomethane            | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Chloroethyl vinyl ether | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Chloroethyl vinyl ether | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Chloroethyl vinyl ether | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Chloroethyl vinyl ether | DoD-ELAP,ADEC,NELAP,WADOE |
| 4-Methyl-2-Pentanone      | DoD-ELAP,NELAP,WADOE      |
| 4-Methyl-2-Pentanone      | DoD-ELAP,NELAP,WADOE      |
| 4-Methyl-2-Pentanone      | DoD-ELAP,NELAP,WADOE      |
| 4-Methyl-2-Pentanone      | DoD-ELAP,NELAP,WADOE      |
| cis-1,3-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,3-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,3-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| cis-1,3-Dichloropropene   | DoD-ELAP,ADEC,NELAP,WADOE |
| Toluene                   | DoD-ELAP,ADEC,NELAP,WADOE |
| Toluene                   | DoD-ELAP,ADEC,NELAP,WADOE |
| Toluene                   | DoD-ELAP,ADEC,NELAP,WADOE |
| Toluene                   | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,3-Dichloropropene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,3-Dichloropropene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,3-Dichloropropene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,3-Dichloropropene | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Hexanone                | DoD-ELAP,NELAP,WADOE      |
| 2-Hexanone                | DoD-ELAP,NELAP,WADOE      |
| 2-Hexanone                | DoD-ELAP,NELAP,WADOE      |
| 2-Hexanone                | DoD-ELAP,NELAP,WADOE      |
| 1,1,2-Trichloroethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2-Trichloroethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2-Trichloroethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2-Trichloroethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichloropropane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichloropropane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichloropropane       | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichloropropane       | DoD-ELAP,ADEC,NELAP,WADOE |



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| Tetrachloroethene         | DoD-ELAP,ADEC,NELAP,WADOE |
| Tetrachloroethene         | DoD-ELAP,ADEC,NELAP,WADOE |
| Tetrachloroethene         | DoD-ELAP,ADEC,NELAP,WADOE |
| Tetrachloroethene         | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromochloromethane      | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromochloromethane      | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromochloromethane      | DoD-ELAP,ADEC,NELAP,WADOE |
| Dibromochloromethane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dibromoethane         | DoD-ELAP,NELAP,WADOE      |
| 1,2-Dibromoethane         | DoD-ELAP,NELAP,WADOE      |
| 1,2-Dibromoethane         | DoD-ELAP,NELAP,WADOE      |
| 1,2-Dibromoethane         | DoD-ELAP,NELAP,WADOE      |
| Chlorobenzene             | DoD-ELAP,ADEC,NELAP,WADOE |
| Chlorobenzene             | DoD-ELAP,ADEC,NELAP,WADOE |
| Chlorobenzene             | DoD-ELAP,ADEC,NELAP,WADOE |
| Chlorobenzene             | DoD-ELAP,ADEC,NELAP,WADOE |
| Ethylbenzene              | DoD-ELAP,ADEC,NELAP,WADOE |
| Ethylbenzene              | DoD-ELAP,ADEC,NELAP,WADOE |
| Ethylbenzene              | DoD-ELAP,ADEC,NELAP,WADOE |
| Ethylbenzene              | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1,2-Tetrachloroethane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1,2-Tetrachloroethane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1,2-Tetrachloroethane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,1,2-Tetrachloroethane | DoD-ELAP,ADEC,NELAP,WADOE |
| m,p-Xylene                | DoD-ELAP,ADEC,NELAP,WADOE |
| m,p-Xylene                | DoD-ELAP,ADEC,NELAP,WADOE |
| m,p-Xylene                | DoD-ELAP,ADEC,NELAP,WADOE |
| m,p-Xylene                | DoD-ELAP,ADEC,NELAP,WADOE |
| o-Xylene                  | DoD-ELAP,ADEC,NELAP,WADOE |
| o-Xylene                  | DoD-ELAP,ADEC,NELAP,WADOE |
| o-Xylene                  | DoD-ELAP,ADEC,NELAP,WADOE |
| o-Xylene                  | DoD-ELAP,ADEC,NELAP,WADOE |
| Styrene                   | DoD-ELAP,NELAP,WADOE      |



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|-----------------------------|---------------------------|
| Styrene                     | DoD-ELAP,NELAP,WADOE      |
| Styrene                     | DoD-ELAP,NELAP,WADOE      |
| Styrene                     | DoD-ELAP,NELAP,WADOE      |
| Bromoform                   | DoD-ELAP,NELAP,WADOE      |
| Bromoform                   | DoD-ELAP,NELAP,WADOE      |
| Bromoform                   | DoD-ELAP,NELAP,WADOE      |
| Bromoform                   | DoD-ELAP,NELAP,WADOE      |
| 1,1,2,2-Tetrachloroethane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2,2-Tetrachloroethane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2,2-Tetrachloroethane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,1,2,2-Tetrachloroethane   | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichloropropane      | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,4-Dichloro 2-Butene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,4-Dichloro 2-Butene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,4-Dichloro 2-Butene | DoD-ELAP,ADEC,NELAP,WADOE |
| trans-1,4-Dichloro 2-Butene | DoD-ELAP,ADEC,NELAP,WADOE |
| n-Propylbenzene             | DoD-ELAP,NELAP,WADOE      |
| n-Propylbenzene             | DoD-ELAP,NELAP,WADOE      |
| n-Propylbenzene             | DoD-ELAP,NELAP,WADOE      |
| n-Propylbenzene             | DoD-ELAP,NELAP,WADOE      |
| Bromobenzene                | DoD-ELAP,NELAP,WADOE      |
| Bromobenzene                | DoD-ELAP,NELAP,WADOE      |
| Bromobenzene                | DoD-ELAP,NELAP,WADOE      |
| Bromobenzene                | DoD-ELAP,NELAP,WADOE      |
| Isopropyl Benzene           | DoD-ELAP,NELAP,WADOE      |
| Isopropyl Benzene           | DoD-ELAP,NELAP,WADOE      |
| Isopropyl Benzene           | DoD-ELAP,NELAP,WADOE      |
| Isopropyl Benzene           | DoD-ELAP,NELAP,WADOE      |
| 2-Chlorotoluene             | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Chlorotoluene             | DoD-ELAP,ADEC,NELAP,WADOE |



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|                        |                           |
|------------------------|---------------------------|
| 2-Chlorotoluene        | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Chlorotoluene        | DoD-ELAP,ADEC,NELAP,WADOE |
| 4-Chlorotoluene        | DoD-ELAP,ADEC,NELAP,WADOE |
| 4-Chlorotoluene        | DoD-ELAP,ADEC,NELAP,WADOE |
| 4-Chlorotoluene        | DoD-ELAP,ADEC,NELAP,WADOE |
| 4-Chlorotoluene        | DoD-ELAP,ADEC,NELAP,WADOE |
| t-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| t-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| t-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| t-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| 1,3,5-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,3,5-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,3,5-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,3,5-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,2,4-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,2,4-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,2,4-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| 1,2,4-Trimethylbenzene | DoD-ELAP,NELAP,WADOE      |
| s-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| s-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| s-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| s-Butylbenzene         | DoD-ELAP,NELAP,WADOE      |
| 4-Isopropyl Toluene    | DoD-ELAP,NELAP,WADOE      |
| 4-Isopropyl Toluene    | DoD-ELAP,NELAP,WADOE      |
| 4-Isopropyl Toluene    | DoD-ELAP,NELAP,WADOE      |
| 4-Isopropyl Toluene    | DoD-ELAP,NELAP,WADOE      |
| 1,3-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,3-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,4-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,4-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,4-Dichlorobenzene    | DoD-ELAP,ADEC,NELAP,WADOE |





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|                             |                           |
|-----------------------------|---------------------------|
| 1,4-Dichlorobenzene         | DoD-ELAP,ADEC,NELAP,WADOE |
| n-Butylbenzene              | DoD-ELAP,NELAP,WADOE      |
| n-Butylbenzene              | DoD-ELAP,NELAP,WADOE      |
| n-Butylbenzene              | DoD-ELAP,NELAP,WADOE      |
| n-Butylbenzene              | DoD-ELAP,NELAP,WADOE      |
| 1,2-Dichlorobenzene         | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichlorobenzene         | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichlorobenzene         | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dichlorobenzene         | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dibromo-3-chloropropane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dibromo-3-chloropropane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dibromo-3-chloropropane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2-Dibromo-3-chloropropane | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,4-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,4-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,4-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,4-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| Hexachloro-1,3-Butadiene    | DoD-ELAP,ADEC,NELAP,WADOE |
| Hexachloro-1,3-Butadiene    | DoD-ELAP,ADEC,NELAP,WADOE |
| Hexachloro-1,3-Butadiene    | DoD-ELAP,ADEC,NELAP,WADOE |
| Hexachloro-1,3-Butadiene    | DoD-ELAP,ADEC,NELAP,WADOE |
| Naphthalene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Naphthalene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Naphthalene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| Naphthalene                 | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| 1,2,3-Trichlorobenzene      | DoD-ELAP,ADEC,NELAP,WADOE |
| Dichlorodifluoromethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| Dichlorodifluoromethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| Dichlorodifluoromethane     | DoD-ELAP,ADEC,NELAP,WADOE |
| Dichlorodifluoromethane     | DoD-ELAP,ADEC,NELAP,WADOE |



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|                         |                           |
|-------------------------|---------------------------|
| Methyl tert-butyl Ether | DoD-ELAP,ADEC,NELAP,WADOE |
| Methyl tert-butyl Ether | DoD-ELAP,ADEC,NELAP,WADOE |
| Methyl tert-butyl Ether | DoD-ELAP,ADEC,NELAP,WADOE |
| Methyl tert-butyl Ether | DoD-ELAP,ADEC,NELAP,WADOE |
| 2-Pentanone             | WADOE                     |
| 2-Pentanone             | WADOE                     |
| 2-Pentanone             | WADOE                     |
| 2-Pentanone             | WADOE                     |

**EPA 8270E in Solid**

|                              |                           |
|------------------------------|---------------------------|
| Phenol                       | DoD-ELAP,NELAP,WADOE      |
| bis(2-chloroethyl) ether     | DoD-ELAP,NELAP,WADOE      |
| 2-Chlorophenol               | DoD-ELAP,NELAP,WADOE      |
| 1,3-Dichlorobenzene          | DoD-ELAP,NELAP,WADOE      |
| 1,4-Dichlorobenzene          | DoD-ELAP,NELAP,WADOE      |
| 1,2-Dichlorobenzene          | DoD-ELAP,NELAP,WADOE      |
| Benzyl Alcohol               | DoD-ELAP,NELAP,WADOE      |
| 2,2'-Oxybis(1-chloropropane) | DoD-ELAP,NELAP            |
| 2-Methylphenol               | DoD-ELAP,NELAP,WADOE      |
| Hexachloroethane             | DoD-ELAP,NELAP,WADOE      |
| N-Nitroso-di-n-Propylamine   | DoD-ELAP,NELAP,WADOE      |
| 4-Methylphenol               | DoD-ELAP,NELAP,WADOE      |
| Nitrobenzene                 | DoD-ELAP,NELAP,WADOE      |
| Isophorone                   | DoD-ELAP,NELAP,WADOE      |
| 2-Nitrophenol                | DoD-ELAP,NELAP,WADOE      |
| 2,4-Dimethylphenol           | DoD-ELAP,NELAP,WADOE      |
| Bis(2-Chloroethoxy)methane   | DoD-ELAP,NELAP,WADOE      |
| 2,4-Dichlorophenol           | DoD-ELAP,NELAP,WADOE      |
| 1,2,4-Trichlorobenzene       | DoD-ELAP,NELAP,WADOE      |
| Naphthalene                  | DoD-ELAP,NELAP,WADOE,ADEC |
| Benzoic acid                 | DoD-ELAP,NELAP,WADOE      |
| 4-Chloroaniline              | DoD-ELAP,NELAP,WADOE      |
| Hexachlorobutadiene          | DoD-ELAP,NELAP,WADOE      |
| 4-Chloro-3-Methylphenol      | DoD-ELAP,NELAP,WADOE      |



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|                            |                           |
|----------------------------|---------------------------|
| 2-Methylnaphthalene        | DoD-ELAP,NELAP,WADOE,ADEC |
| Hexachlorocyclopentadiene  | DoD-ELAP,NELAP,WADOE      |
| 2,4,6-Trichlorophenol      | DoD-ELAP,NELAP,WADOE      |
| 2,4,5-Trichlorophenol      | DoD-ELAP,NELAP,WADOE      |
| 2-Chloronaphthalene        | DoD-ELAP,NELAP,WADOE      |
| 2-Nitroaniline             | DoD-ELAP,NELAP,WADOE      |
| Acenaphthylene             | DoD-ELAP,NELAP,WADOE,ADEC |
| Dimethylphthalate          | DoD-ELAP,NELAP,WADOE      |
| 2,6-Dinitrotoluene         | DoD-ELAP,NELAP,WADOE      |
| Acenaphthene               | DoD-ELAP,NELAP,WADOE,ADEC |
| 3-Nitroaniline             | DoD-ELAP,NELAP,WADOE      |
| 2,4-Dinitrophenol          | DoD-ELAP,NELAP,WADOE      |
| Dibenzofuran               | DoD-ELAP,NELAP,WADOE,ADEC |
| 4-Nitrophenol              | DoD-ELAP,NELAP,WADOE      |
| 2,4-Dinitrotoluene         | DoD-ELAP,NELAP,WADOE      |
| Fluorene                   | DoD-ELAP,NELAP,WADOE,ADEC |
| 4-Chlorophenylphenyl ether | DoD-ELAP,NELAP            |
| Diethyl phthalate          | DoD-ELAP,NELAP,WADOE      |
| 4-Nitroaniline             | DoD-ELAP,NELAP,WADOE      |
| 4,6-Dinitro-2-methylphenol | DoD-ELAP,NELAP,WADOE      |
| N-Nitrosodiphenylamine     | DoD-ELAP,NELAP,WADOE      |
| 4-Bromophenyl phenyl ether | DoD-ELAP,NELAP,WADOE      |
| Hexachlorobenzene          | DoD-ELAP,NELAP,WADOE      |
| Pentachlorophenol          | DoD-ELAP,NELAP,WADOE      |
| Phenanthrene               | DoD-ELAP,NELAP,WADOE,ADEC |
| Anthracene                 | DoD-ELAP,NELAP,WADOE,ADEC |
| Carbazole                  | DoD-ELAP,NELAP,WADOE,ADEC |
| Di-n-Butylphthalate        | DoD-ELAP,NELAP,WADOE      |
| Fluoranthene               | DoD-ELAP,NELAP,WADOE,ADEC |
| Pyrene                     | DoD-ELAP,NELAP,WADOE,ADEC |
| Butylbenzylphthalate       | DoD-ELAP,NELAP,WADOE      |
| Benzo(a)anthracene         | DoD-ELAP,NELAP,WADOE,ADEC |
| 3,3'-Dichlorobenzidine     | DoD-ELAP,NELAP,WADOE      |



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|                            |                           |
|----------------------------|---------------------------|
| Chrysene                   | DoD-ELAP,NELAP,WADOE,ADEC |
| bis(2-Ethylhexyl)phthalate | DoD-ELAP,NELAP,WADOE      |
| Di-n-Octylphthalate        | DoD-ELAP,NELAP,WADOE      |
| Benzofluoranthenes, Total  | WADOE,ADEC                |
| Benzo(a)pyrene             | DoD-ELAP,NELAP,WADOE,ADEC |
| Indeno(1,2,3-cd)pyrene     | DoD-ELAP,NELAP,WADOE,ADEC |
| Dibenzo(a,h)anthracene     | DoD-ELAP,NELAP,WADOE,ADEC |
| Benzo(g,h,i)perylene       | DoD-ELAP,NELAP,WADOE,ADEC |
| 1-Methylnaphthalene        | DoD-ELAP,NELAP,WADOE,ADEC |

**EPA 8270E in Water**

|                          |                      |
|--------------------------|----------------------|
| Phenol                   | WADOE,DoD-ELAP,NELAP |
| Phenol                   | WADOE,DoD-ELAP,NELAP |
| Phenol                   | WADOE,DoD-ELAP,NELAP |
| Phenol                   | WADOE,DoD-ELAP,NELAP |
| bis(2-chloroethyl) ether | WADOE,DoD-ELAP,NELAP |
| bis(2-chloroethyl) ether | WADOE,DoD-ELAP,NELAP |
| bis(2-chloroethyl) ether | WADOE,DoD-ELAP,NELAP |
| bis(2-chloroethyl) ether | WADOE,DoD-ELAP,NELAP |
| 2-Chlorophenol           | WADOE,DoD-ELAP,NELAP |
| 2-Chlorophenol           | WADOE,DoD-ELAP,NELAP |
| 2-Chlorophenol           | WADOE,DoD-ELAP,NELAP |
| 2-Chlorophenol           | WADOE,DoD-ELAP,NELAP |
| 1,3-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,3-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,3-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,3-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,4-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,4-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,4-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,4-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,2-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,2-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |
| 1,2-Dichlorobenzene      | WADOE,DoD-ELAP,NELAP |



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|                              |                      |
|------------------------------|----------------------|
| 1,2-Dichlorobenzene          | WADOE,DoD-ELAP,NELAP |
| Benzyl alcohol               | WADOE,DoD-ELAP,NELAP |
| Benzyl alcohol               | WADOE,DoD-ELAP,NELAP |
| Benzyl alcohol               | WADOE,DoD-ELAP,NELAP |
| Benzyl alcohol               | WADOE,DoD-ELAP,NELAP |
| 2,2'-Oxybis(1-chloropropane) | WADOE,DoD-ELAP,NELAP |
| 2,2'-Oxybis(1-chloropropane) | WADOE,DoD-ELAP,NELAP |
| 2,2'-Oxybis(1-chloropropane) | WADOE,DoD-ELAP,NELAP |
| 2,2'-Oxybis(1-chloropropane) | WADOE,DoD-ELAP,NELAP |
| 2-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| 2-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| 2-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| 2-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| Hexachloroethane             | WADOE,DoD-ELAP,NELAP |
| Hexachloroethane             | WADOE,DoD-ELAP,NELAP |
| Hexachloroethane             | WADOE,DoD-ELAP,NELAP |
| Hexachloroethane             | WADOE,DoD-ELAP,NELAP |
| N-Nitroso-di-n-Propylamine   | WADOE,DoD-ELAP,NELAP |
| N-Nitroso-di-n-Propylamine   | WADOE,DoD-ELAP,NELAP |
| N-Nitroso-di-n-Propylamine   | WADOE,DoD-ELAP,NELAP |
| N-Nitroso-di-n-Propylamine   | WADOE,DoD-ELAP,NELAP |
| 4-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| 4-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| 4-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| 4-Methylphenol               | WADOE,DoD-ELAP,NELAP |
| Nitrobenzene                 | WADOE,DoD-ELAP,NELAP |
| Nitrobenzene                 | WADOE,DoD-ELAP,NELAP |
| Nitrobenzene                 | WADOE,DoD-ELAP,NELAP |
| Nitrobenzene                 | WADOE,DoD-ELAP,NELAP |
| Isophorone                   | WADOE,DoD-ELAP,NELAP |
| Isophorone                   | WADOE,DoD-ELAP,NELAP |
| Isophorone                   | WADOE,DoD-ELAP,NELAP |
| Isophorone                   | WADOE,DoD-ELAP,NELAP |



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|                            |                           |
|----------------------------|---------------------------|
| 2-Nitrophenol              | WADOE,DoD-ELAP,NELAP      |
| 2-Nitrophenol              | WADOE,DoD-ELAP,NELAP      |
| 2-Nitrophenol              | WADOE,DoD-ELAP,NELAP      |
| 2-Nitrophenol              | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dimethylphenol         | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dimethylphenol         | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dimethylphenol         | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dimethylphenol         | WADOE,DoD-ELAP,NELAP      |
| Bis(2-Chloroethoxy)methane | WADOE,DoD-ELAP,NELAP      |
| Bis(2-Chloroethoxy)methane | WADOE,DoD-ELAP,NELAP      |
| Bis(2-Chloroethoxy)methane | WADOE,DoD-ELAP,NELAP      |
| Bis(2-Chloroethoxy)methane | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dichlorophenol         | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dichlorophenol         | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dichlorophenol         | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dichlorophenol         | WADOE,DoD-ELAP,NELAP      |
| 1,2,4-Trichlorobenzene     | WADOE,DoD-ELAP,NELAP      |
| 1,2,4-Trichlorobenzene     | WADOE,DoD-ELAP,NELAP      |
| 1,2,4-Trichlorobenzene     | WADOE,DoD-ELAP,NELAP      |
| 1,2,4-Trichlorobenzene     | WADOE,DoD-ELAP,NELAP      |
| Naphthalene                | WADOE,DoD-ELAP,NELAP,ADEC |
| Naphthalene                | WADOE,DoD-ELAP,NELAP,ADEC |
| Naphthalene                | WADOE,DoD-ELAP,NELAP,ADEC |
| Naphthalene                | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzoic acid               | WADOE,DoD-ELAP,NELAP      |
| Benzoic acid               | WADOE,DoD-ELAP,NELAP      |
| Benzoic acid               | WADOE,DoD-ELAP,NELAP      |
| Benzoic acid               | WADOE,DoD-ELAP,NELAP      |
| 4-Chloroaniline            | WADOE,DoD-ELAP,NELAP      |
| 4-Chloroaniline            | WADOE,DoD-ELAP,NELAP      |
| 4-Chloroaniline            | WADOE,DoD-ELAP,NELAP      |
| 4-Chloroaniline            | WADOE,DoD-ELAP,NELAP      |
| 2,6-Dinitrotoluene         | WADOE,DoD-ELAP,NELAP      |



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|---------------------------|---------------------------|
| 2,6-Dinitrotoluene        | WADOE,DoD-ELAP,NELAP      |
| 2,6-Dinitrotoluene        | WADOE,DoD-ELAP,NELAP      |
| 2,6-Dinitrotoluene        | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobutadiene       | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobutadiene       | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobutadiene       | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobutadiene       | WADOE,DoD-ELAP,NELAP      |
| 4-Chloro-3-Methylphenol   | WADOE,DoD-ELAP,NELAP      |
| 4-Chloro-3-Methylphenol   | WADOE,DoD-ELAP,NELAP      |
| 4-Chloro-3-Methylphenol   | WADOE,DoD-ELAP,NELAP      |
| 4-Chloro-3-Methylphenol   | WADOE,DoD-ELAP,NELAP      |
| Hexachlorocyclopentadiene | WADOE,DoD-ELAP,NELAP      |
| Hexachlorocyclopentadiene | WADOE,DoD-ELAP,NELAP      |
| Hexachlorocyclopentadiene | WADOE,DoD-ELAP,NELAP      |
| Hexachlorocyclopentadiene | WADOE,DoD-ELAP,NELAP      |
| 2,4,6-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,6-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,6-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,6-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,5-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,5-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,5-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2,4,5-Trichlorophenol     | WADOE,DoD-ELAP,NELAP      |
| 2-Chloronaphthalene       | WADOE,DoD-ELAP,NELAP      |
| 2-Chloronaphthalene       | WADOE,DoD-ELAP,NELAP      |
| 2-Chloronaphthalene       | WADOE,DoD-ELAP,NELAP      |
| 2-Chloronaphthalene       | WADOE,DoD-ELAP,NELAP      |
| 2-Nitroaniline            | WADOE,DoD-ELAP,NELAP      |
| 2-Nitroaniline            | WADOE,DoD-ELAP,NELAP      |
| 2-Nitroaniline            | WADOE,DoD-ELAP,NELAP      |
| 2-Nitroaniline            | WADOE,DoD-ELAP,NELAP      |
| Acenaphthylene            | WADOE,DoD-ELAP,NELAP,ADEC |
| Acenaphthylene            | WADOE,DoD-ELAP,NELAP,ADEC |



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|                     |                           |
|---------------------|---------------------------|
| Acenaphthylene      | WADOE,DoD-ELAP,NELAP,ADEC |
| Acenaphthylene      | WADOE,DoD-ELAP,NELAP,ADEC |
| Dimethylphthalate   | WADOE,DoD-ELAP,NELAP      |
| Dimethylphthalate   | WADOE,DoD-ELAP,NELAP      |
| Dimethylphthalate   | WADOE,DoD-ELAP,NELAP      |
| Dimethylphthalate   | WADOE,DoD-ELAP,NELAP      |
| Acenaphthene        | WADOE,DoD-ELAP,NELAP,ADEC |
| Acenaphthene        | WADOE,DoD-ELAP,NELAP,ADEC |
| Acenaphthene        | WADOE,DoD-ELAP,NELAP,ADEC |
| Acenaphthene        | WADOE,DoD-ELAP,NELAP,ADEC |
| 3-Nitroaniline      | WADOE,DoD-ELAP,NELAP      |
| 3-Nitroaniline      | WADOE,DoD-ELAP,NELAP      |
| 3-Nitroaniline      | WADOE,DoD-ELAP,NELAP      |
| 3-Nitroaniline      | WADOE,DoD-ELAP,NELAP      |
| 2-Methylnaphthalene | WADOE,DoD-ELAP,NELAP,ADEC |
| 2-Methylnaphthalene | WADOE,DoD-ELAP,NELAP,ADEC |
| 2-Methylnaphthalene | WADOE,DoD-ELAP,NELAP,ADEC |
| 2-Methylnaphthalene | WADOE,DoD-ELAP,NELAP,ADEC |
| 2,4-Dinitrophenol   | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dinitrophenol   | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dinitrophenol   | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dinitrophenol   | WADOE,DoD-ELAP,NELAP      |
| Dibenzofuran        | WADOE,DoD-ELAP,NELAP      |
| Dibenzofuran        | WADOE,DoD-ELAP,NELAP      |
| Dibenzofuran        | WADOE,DoD-ELAP,NELAP      |
| Dibenzofuran        | WADOE,DoD-ELAP,NELAP      |
| 4-Nitrophenol       | WADOE,DoD-ELAP,NELAP      |
| 4-Nitrophenol       | WADOE,DoD-ELAP,NELAP      |
| 4-Nitrophenol       | WADOE,DoD-ELAP,NELAP      |
| 4-Nitrophenol       | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dinitrotoluene  | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dinitrotoluene  | WADOE,DoD-ELAP,NELAP      |
| 2,4-Dinitrotoluene  | WADOE,DoD-ELAP,NELAP      |





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|----------------------------|---------------------------|
| 2,4-Dinitrotoluene         | WADOE,DoD-ELAP,NELAP      |
| Fluorene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| Fluorene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| Fluorene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| Fluorene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| 4-Chlorophenylphenyl ether | WADOE,DoD-ELAP,NELAP      |
| 4-Chlorophenylphenyl ether | WADOE,DoD-ELAP,NELAP      |
| 4-Chlorophenylphenyl ether | WADOE,DoD-ELAP,NELAP      |
| 4-Chlorophenylphenyl ether | WADOE,DoD-ELAP,NELAP      |
| Diethyl phthalate          | WADOE,DoD-ELAP,NELAP      |
| Diethyl phthalate          | WADOE,DoD-ELAP,NELAP      |
| Diethyl phthalate          | WADOE,DoD-ELAP,NELAP      |
| Diethyl phthalate          | WADOE,DoD-ELAP,NELAP      |
| 4-Nitroaniline             | WADOE,DoD-ELAP,NELAP      |
| 4-Nitroaniline             | WADOE,DoD-ELAP,NELAP      |
| 4-Nitroaniline             | WADOE,DoD-ELAP,NELAP      |
| 4-Nitroaniline             | WADOE,DoD-ELAP,NELAP      |
| 4,6-Dinitro-2-methylphenol | WADOE,DoD-ELAP,NELAP      |
| 4,6-Dinitro-2-methylphenol | WADOE,DoD-ELAP,NELAP      |
| 4,6-Dinitro-2-methylphenol | WADOE,DoD-ELAP,NELAP      |
| 4,6-Dinitro-2-methylphenol | WADOE,DoD-ELAP,NELAP      |
| N-Nitrosodiphenylamine     | WADOE,DoD-ELAP,NELAP      |
| N-Nitrosodiphenylamine     | WADOE,DoD-ELAP,NELAP      |
| N-Nitrosodiphenylamine     | WADOE,DoD-ELAP,NELAP      |
| N-Nitrosodiphenylamine     | WADOE,DoD-ELAP,NELAP      |
| 4-Bromophenyl phenyl ether | WADOE,DoD-ELAP,NELAP      |
| 4-Bromophenyl phenyl ether | WADOE,DoD-ELAP,NELAP      |
| 4-Bromophenyl phenyl ether | WADOE,DoD-ELAP,NELAP      |
| 4-Bromophenyl phenyl ether | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobenzene          | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobenzene          | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobenzene          | WADOE,DoD-ELAP,NELAP      |
| Hexachlorobenzene          | WADOE,DoD-ELAP,NELAP      |



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|----------------------|---------------------------|
| Pentachlorophenol    | WADOE,DoD-ELAP,NELAP      |
| Pentachlorophenol    | WADOE,DoD-ELAP,NELAP      |
| Pentachlorophenol    | WADOE,DoD-ELAP,NELAP      |
| Pentachlorophenol    | WADOE,DoD-ELAP,NELAP      |
| Phenanthrene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Phenanthrene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Phenanthrene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Phenanthrene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Anthracene           | WADOE,DoD-ELAP,NELAP,ADEC |
| Anthracene           | WADOE,DoD-ELAP,NELAP,ADEC |
| Anthracene           | WADOE,DoD-ELAP,NELAP,ADEC |
| Anthracene           | WADOE,DoD-ELAP,NELAP,ADEC |
| Carbazole            | WADOE,DoD-ELAP,NELAP,ADEC |
| Carbazole            | WADOE,DoD-ELAP,NELAP,ADEC |
| Carbazole            | WADOE,DoD-ELAP,NELAP,ADEC |
| Carbazole            | WADOE,DoD-ELAP,NELAP,ADEC |
| Di-n-butylphthalate  | WADOE,DoD-ELAP,NELAP      |
| Di-n-butylphthalate  | WADOE,DoD-ELAP,NELAP      |
| Di-n-butylphthalate  | WADOE,DoD-ELAP,NELAP      |
| Di-n-butylphthalate  | WADOE,DoD-ELAP,NELAP      |
| Fluoranthene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Fluoranthene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Fluoranthene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Fluoranthene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Pyrene               | WADOE,DoD-ELAP,NELAP,ADEC |
| Pyrene               | WADOE,DoD-ELAP,NELAP,ADEC |
| Pyrene               | WADOE,DoD-ELAP,NELAP,ADEC |
| Pyrene               | WADOE,DoD-ELAP,NELAP,ADEC |
| Butylbenzylphthalate | WADOE,DoD-ELAP,NELAP      |
| Butylbenzylphthalate | WADOE,DoD-ELAP,NELAP      |
| Butylbenzylphthalate | WADOE,DoD-ELAP,NELAP      |
| Butylbenzylphthalate | WADOE,DoD-ELAP,NELAP      |
| Benzo(a)anthracene   | WADOE,DoD-ELAP,NELAP,ADEC |



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| Benzo(a)anthracene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)anthracene         | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)anthracene         | WADOE,DoD-ELAP,NELAP,ADEC |
| 3,3'-Dichlorobenzidine     | WADOE,DoD-ELAP,NELAP      |
| 3,3'-Dichlorobenzidine     | WADOE,DoD-ELAP,NELAP      |
| 3,3'-Dichlorobenzidine     | WADOE,DoD-ELAP,NELAP      |
| 3,3'-Dichlorobenzidine     | WADOE,DoD-ELAP,NELAP      |
| Chrysene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| Chrysene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| Chrysene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| Chrysene                   | WADOE,DoD-ELAP,NELAP,ADEC |
| bis(2-Ethylhexyl)phthalate | WADOE,DoD-ELAP,NELAP      |
| bis(2-Ethylhexyl)phthalate | WADOE,DoD-ELAP,NELAP      |
| bis(2-Ethylhexyl)phthalate | WADOE,DoD-ELAP,NELAP      |
| bis(2-Ethylhexyl)phthalate | WADOE,DoD-ELAP,NELAP      |
| Di-n-Octylphthalate        | WADOE,DoD-ELAP,NELAP      |
| Di-n-Octylphthalate        | WADOE,DoD-ELAP,NELAP      |
| Di-n-Octylphthalate        | WADOE,DoD-ELAP,NELAP      |
| Di-n-Octylphthalate        | WADOE,DoD-ELAP,NELAP      |
| Benzo(a)pyrene             | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)pyrene             | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)pyrene             | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)pyrene             | WADOE,DoD-ELAP,NELAP,ADEC |
| Indeno(1,2,3-cd)pyrene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Indeno(1,2,3-cd)pyrene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Indeno(1,2,3-cd)pyrene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Indeno(1,2,3-cd)pyrene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Dibenzo(a,h)anthracene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Dibenzo(a,h)anthracene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Dibenzo(a,h)anthracene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Dibenzo(a,h)anthracene     | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(g,h,i)perylene       | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(g,h,i)perylene       | WADOE,DoD-ELAP,NELAP,ADEC |



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|                             |                           |
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| Benzo(g,h,i)perylene        | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(g,h,i)perylene        | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)fluoranthene, Total | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)fluoranthene, Total | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)fluoranthene, Total | WADOE,DoD-ELAP,NELAP,ADEC |
| Benzo(a)fluoranthene, Total | WADOE,DoD-ELAP,NELAP,ADEC |
| 1-Methylnaphthalene         | WADOE,DoD-ELAP,NELAP,ADEC |
| 1-Methylnaphthalene         | WADOE,DoD-ELAP,NELAP,ADEC |
| 1-Methylnaphthalene         | WADOE,DoD-ELAP,NELAP,ADEC |
| 1-Methylnaphthalene         | WADOE,DoD-ELAP,NELAP,ADEC |

**NWTPH-Dx in Solid**

|                                |                      |
|--------------------------------|----------------------|
| Diesel Range Organics (C12-C2  | DoD-ELAP,NELAP,WADOE |
| Motor Oil Range Organics (C24- | DoD-ELAP,NELAP,WADOE |

**NWTPH-Dx in Water**

|                                |                      |
|--------------------------------|----------------------|
| Diesel Range Organics (C12-C2  | DoD-ELAP,NELAP,WADOE |
| Diesel Range Organics (C12-C2  | DoD-ELAP,NELAP,WADOE |
| Diesel Range Organics (C12-C2  | DoD-ELAP,NELAP,WADOE |
| Diesel Range Organics (C12-C2  | DoD-ELAP,NELAP,WADOE |
| Motor Oil Range Organics (C24- | DoD-ELAP,NELAP,WADOE |
| Motor Oil Range Organics (C24- | DoD-ELAP,NELAP,WADOE |
| Motor Oil Range Organics (C24- | DoD-ELAP,NELAP,WADOE |
| Motor Oil Range Organics (C24- | DoD-ELAP,NELAP,WADOE |

| Code     | Description                                                      | Number       | Expires    |
|----------|------------------------------------------------------------------|--------------|------------|
| ADEC     | Alaska Dept of Environmental Conservation                        | 17-015       | 03/28/2025 |
| DoD-ELAP | DoD-Environmental Laboratory Accreditation Program, PJLA Testing | 66169        | 02/28/2025 |
| NELAP    | ORELAP - Oregon Laboratory Accreditation Program                 | WA100006-012 | 05/12/2024 |
| WADOE    | WA Dept of Ecology                                               | C558         | 06/30/2024 |
| WA-DW    | Ecology - Drinking Water                                         | C558         | 06/30/2024 |



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### Notes and Definitions

|      |                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *    | Flagged value is not within established control limits.                                                                                                         |
| B    | This analyte was detected in the method blank.                                                                                                                  |
| D    | The reported value is from a dilution                                                                                                                           |
| D1   | Surrogate was not detected due to sample extract dilution                                                                                                       |
| E    | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)                      |
| H    | Hold time violation - Hold time was exceeded.                                                                                                                   |
| J    | Estimated concentration value detected below the reporting limit.                                                                                               |
| M    | Estimated value for a GC/MS analyte detected and confirmed by an analyst but with low spectral match parameters.                                                |
| Q    | Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF) |
| U    | This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).                                       |
| DET  | Analyte DETECTED                                                                                                                                                |
| ND   | Analyte NOT DETECTED at or above the reporting limit                                                                                                            |
| NR   | Not Reported                                                                                                                                                    |
| dry  | Sample results reported on a dry weight basis                                                                                                                   |
| RPD  | Relative Percent Difference                                                                                                                                     |
| [2C] | Indicates this result was quantified on the second column on a dual column analysis.                                                                            |