



# FINAL 2024 ANNUAL REPORT

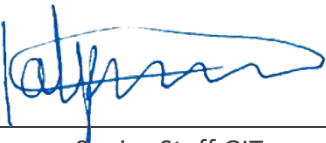
North Marina Ameron/Hulbert Site  
Everett, Washington

June 4, 2025

Prepared for  
Port of Everett

**2024 Annual Report  
North Marina Ameron/Hulbert Site  
1130 West Marine View Drive  
Everett, Washington**

This document was prepared by, or under the direct supervision of, the technical professionals noted below.

Document prepared by:  Kalpana Prasad, GIT  
Senior Staff GIT

Document reviewed by:  Dylan Frazer, LG  
Project Manager; Principal Geologist

Date: June 4, 2025  
Project No.: 0147029.510  
File path: P:\147\029\510\R\2024 Annual Report\Landau POE Ameron\_Hulbert 2024 Annual Report FINAL 031025\_060425  
Rev.docx  
Project Coordinator: LJJ

This page intentionally left blank.

## TABLE OF CONTENTS

|                                                     | Page |
|-----------------------------------------------------|------|
| 1.0 Introduction .....                              | 1-1  |
| 1.1 Background .....                                | 1-1  |
| 1.2 Site Description .....                          | 1-1  |
| 1.3 Capping Status .....                            | 1-1  |
| 2.0 Groundwater Compliance Monitoring.....          | 2-1  |
| 2.1 Groundwater Elevation Survey .....              | 2-1  |
| 2.2 Groundwater Sampling and Analysis .....         | 2-1  |
| 2.3 Quality Assurance/Quality Control.....          | 2-2  |
| 3.0 Results .....                                   | 3-1  |
| 3.1 Groundwater Elevations and Flow Direction ..... | 3-1  |
| 3.2 Groundwater Analytical Results .....            | 3-1  |
| 4.0 Conclusions .....                               | 4-1  |
| 5.0 Use of This Report .....                        | 5-1  |
| 6.0 References .....                                | 6-1  |

## FIGURES

| Figure | Title                                          |
|--------|------------------------------------------------|
| 1      | Vicinity Map                                   |
| 2      | Site Plan                                      |
| 3      | Groundwater Elevation Contours, June 2023      |
| 4      | Groundwater Elevation Contours, September 2023 |
| 5      | Groundwater Elevation Contours, December 2023  |
| 6      | Groundwater Elevation Contours, March 2024     |
| 7      | Groundwater Elevation Contours, June 2024      |
| 8      | Groundwater Elevation Contours, September 2024 |

## TABLES

| Table | Title                          |
|-------|--------------------------------|
| 1     | Groundwater Elevations         |
| 2     | Groundwater Analytical Results |

## APPENDICES

| Appendix | Title                   |
|----------|-------------------------|
| A        | J-3a Paving Photograph  |
| B        | Laboratory Data Reports |

## LIST OF ABBREVIATIONS AND ACRONYMS

|               |                                        |
|---------------|----------------------------------------|
| °C .....      | degrees Celsius                        |
| µg/L .....    | micrograms per liter                   |
| µS/cm .....   | microSiemens per centimeter            |
| CAP .....     | cleanup action plan                    |
| CMP .....     | compliance monitoring plan             |
| CUL .....     | cleanup levels                         |
| Ecology ..... | Washington State Department of Ecology |
| EDR .....     | engineering design report              |
| EPA .....     | US Environmental Protection Agency     |
| Landau .....  | Landau Associates, Inc.                |
| mg/L .....    | milligrams per liter                   |
| mV .....      | millivolts                             |
| NTU .....     | nephelometric turbidity units          |
| ORP .....     | oxidation reduction potential          |
| PLP .....     | potentially liable persons             |
| Port .....    | Port of Everett                        |
| RI .....      | remedial investigation                 |
| Site .....    | North Marina Ameron/Hulbert Site       |

## 1.0 INTRODUCTION

Landau Associates, Inc. (Landau) has prepared this report to present an annual summary of compliance monitoring conducted June 2023 through September 2024 at the North Marina Ameron/Hulbert Site located in Everett, Washington (Site; Figure 1). The Site is owned by the Port of Everett (Port), which is implementing the final cleanup action for the Site. This report presents the groundwater compliance monitoring activities occurring at the Site.

### 1.1 Background

The Port is implementing the approved Cleanup Action Plan (CAP) under Consent Decree No. 15 2 01720 7 between Site Potentially Liable Persons (PLPs) and the Washington State Department of Ecology (Ecology; Ecology 2014). As documented in the Cleanup Action Report, cleanup activities conducted to date included soil excavation and disposal in two areas (Cleanup Areas G-2 and G-4), and capping and institutional controls in the remaining cleanup areas (Landau 2022). Groundwater compliance monitoring is being completed as the final phase of CAP implementation in accordance with the Compliance Monitoring Plan (CMP; Landau 2021a) and compliance monitoring modifications documented in the 2023 Annual Report (Landau 2023). The CMP was submitted as an attachment to the Engineering Design Report (EDR), which describes the final cleanup action (Landau 2021b). The CMP and associated Consent Decree and CAP require confirmational groundwater monitoring to demonstrate that Site groundwater achieves the groundwater cleanup standards established for the Site.

### 1.2 Site Description

The Site is owned by the Port and is located at 1130 West Marine View Drive, Everett, Washington, as shown on Figure 1. The Site is relatively flat and generally bounded to the east by West Marine View Drive, to the north by the TC Systems Site, to the west by the North Marina, and to the south by the Hotel Indigo. The surrounding area consists of commercial and industrial development.

### 1.3 Capping Status

Containment and institutional controls are utilized as aspects of the cleanup in areas other than Cleanup Areas G-2 and G-4, which were addressed by excavation. Cleanup areas addressed by excavation and containment/institutional controls are shown on Figure 2. As described in the CAP, containment in these areas is accomplished by utilizing existing pavement and/or buildings that serve as a cap, which includes a small area in the northeast portion of Cleanup Area J-3a that was paved in November 2023. The area of additional paving (approximately 350 square feet) is included in the additional paving area shown on Figure 2 and a photograph is included in Appendix A; this additional paving completes the capping requirements of the CAP.

## 2.0 GROUNDWATER COMPLIANCE MONITORING

Quarterly groundwater monitoring was conducted in June 2023, September 2023, December 2023, and March 2024, and included collection of groundwater elevations, groundwater sampling, and analysis. Monitoring well locations are shown on Figure 2. Two additional groundwater monitoring events were conducted in June and September 2024, and results of these additional events are also presented in this report.

### 2.1 Groundwater Elevation Survey

During the monitoring events, a groundwater elevation survey was conducted prior to sampling the wells. The depth to water for the following nine wells was measured: RI-MW-1, RI-MW-2, RI-MW-3, RI-MW-4, RI-MW-6, RI-MW-7, P-10R, SEE-EC-3, and ECI-MW-3. Due to the tidal influence at some wells, the elevation survey was conducted within an approximately 1-hour window, and in particular, measurements at shoreline wells RI-MW-1, RI-MW-2, and RI-MW-3 were collected within an approximately 10-minute window to minimize the tidal influence between wells. Depth to groundwater data is presented in Table 1.

### 2.2 Groundwater Sampling and Analysis

Groundwater samples were collected at four wells identified in the CMP and per monitoring modifications presented in the 2023 Annual Report (RI-MW-1, RI-MW-3, SEE-EC-3, and ECI-MW-3) using a peristaltic pump following low-flow groundwater procedures. The depth to water was first measured before the well was purged with field parameters (temperature in degrees Celsius [°C], conductivity in microSiemens per centimeter [ $\mu\text{S}/\text{cm}$ ], dissolved oxygen in milligrams per liter [mg/L], pH, oxidation reduction potential [ORP] in millivolts [mV] and turbidity in nephelometric turbidity units [NTU] ) were recorded every 3 minutes until stabilization. Once stabilization occurred, groundwater was sampled and stored on ice. Monitoring wells RI-MW 1 and RI-MW-3 were sampled within +/- 1 hour of low tide to avoid influence by marine surface water.

Compliance monitoring groundwater samples were analyzed by ALS Laboratory in Everett, Washington. In accordance with the CAP, the wells listed below were analyzed for the following:

- RI-MW-1—dissolved copper
- RI-MW-3—dissolved copper (note that total copper was analyzed in December 2023 instead of dissolved copper due to a field oversight; the total copper results are interpreted as representative of dissolved copper concentrations, and likely biased high relative to dissolved copper results)
- SEE-EC-3—dissolved arsenic
- ECI-MW-3—dissolved arsenic (note that a sample at this well could not be collected in June 2024 due to access issues).

A summary of groundwater sample chemical analyses, analytical methods, cleanup levels (CULs), and analytical results are presented in Table 2.

## 2.3 Quality Assurance/Quality Control

In accordance with the CMP, field and laboratory quality control samples were used to evaluate data precision, accuracy, representativeness, completeness, and comparability of the analytical results. The quality control samples included analysis of laboratory control samples, method blanks, and trip blanks, and collection and analysis of one field duplicate for each analysis performed.

Validation of the analytical data was performed by Landau following the guidelines in applicable sections of the US Environmental Protection Agency (EPA) Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review (EPA 2020a, b).

Based on the validation, all data were determined to be acceptable for use.

## 3.0 RESULTS

This section presents the results of the quarterly groundwater monitoring events conducted from June 2023 through September 2024, consisting of groundwater quality and elevation data.

### 3.1 Groundwater Elevations and Flow Direction

Groundwater contour maps present groundwater elevations based on depth to water measurements collected in June 2023 (Figure 3), September 2023 (Figure 4), December 2023 (Figure 5), March 2024 (Figure 6), June 2024 (Figure 7), and September 2024 (Figure 8). As shown on these figures, groundwater flows generally to the west toward the three shoreline wells (RI-MW-1, RI-MW-2, and RI-MW-3). This flow direction is consistent with flow direction data from previous investigation at the Site.

### 3.2 Groundwater Analytical Results

Cumulative groundwater analytical data compared to Site CULs are presented in Table 2. The laboratory analytical reports are included in Appendix B. Results for the four most recent quarterly events, plus the additional fifth and sixth quarterly events, are summarized as follows:

- Dissolved arsenic results indicated concentrations less than the CUL at interior well SEE-EC-3 during the December 2023 and March 2024 compliance monitoring events. Results indicated dissolved arsenic exceedances of the Site CUL at interior wells ECI-MW-3 during all six quarters of monitoring and at SEE-EC-3 during the remaining four quarters of monitoring. All exceedances of the dissolved arsenic CUL are at interior monitoring wells; previous dissolved arsenic data collected at shoreline wells in 2022 and 2023 indicated concentrations less than the CUL.
  - At ECI-MW-3 concentrations of dissolved arsenic range between 7.7 micrograms per liter ( $\mu\text{g/L}$ ) and 96  $\mu\text{g/L}$ . Previous data at this well collected during the remedial investigation (RI; Landau 2014) ranged from 18.2  $\mu\text{g/L}$  to 65.8  $\mu\text{g/L}$ . The concentration at ECI-MW-3 in December 2023 of 7.7  $\mu\text{g/L}$  was the lowest recorded result yet, but still greater than the CUL.
  - At SEE-EC-3, the dissolved arsenic concentrations were the highest to date during the June and September monitoring events in both 2023 and 2024 (ranging from 120  $\mu\text{g/L}$  to 330  $\mu\text{g/L}$ ). During the December 2023 and March 2024 monitoring events, the dissolved arsenic concentrations were the lowest to date and below the CUL (3.7 and 2.3  $\mu\text{g/L}$ , respectively). For comparison, dissolved arsenic concentrations detected during the RI ranged between 34.6  $\mu\text{g/L}$  and 256  $\mu\text{g/L}$ .
- Dissolved copper results indicated concentrations below the CUL during all six quarterly monitoring events except for one exceedance of the CUL in September 2023 at RI-MW-3. Dissolved copper was less than the CUL at all wells for the most recent four consecutive quarterly monitoring events.
  - At RI-MW-1, dissolved copper was not detected at a concentration greater than the laboratory reporting limit, or was detected at a concentration below the CUL, during all six quarters.

- At RI-MW-3, dissolved copper was only detected at a concentration greater than the laboratory reporting limit during three quarters (September 2023, June 2024, and September 2024); only the September 2023 concentration (9.6 µg/L) exceeded the CUL of 3 µg/L. The dissolved copper concentration at RI-MW-3 was less than the CUL during all four of the most recent consecutive quarterly monitoring events.

## 4.0 CONCLUSIONS

Groundwater compliance monitoring was conducted quarterly from June 2023 through September 2024 in accordance with the CMP. Results of the six quarters of groundwater monitoring indicate the following:

- Groundwater flow direction at the Site is generally to the west toward the three shoreline monitoring wells RI-MW-1, RI-MW-2, and RI-MW-3. These wells are interpreted to be downgradient wells, and groundwater at these wells is representative of groundwater discharging from the Site to surface water.
- Groundwater compliance monitoring conducted prior to the most recent six quarterly monitoring events indicate compliance with cleanup standards at each monitoring well for the analytes indicated in the CAP and CMP except for dissolved copper at shoreline wells RI-MW-1 and RI-MW-3, and dissolved arsenic at interior wells ECI-MW-3 and SEE-EC-3.
- Based on results of the four most recent quarterly groundwater monitoring events, groundwater cleanup standards for the Site are being achieved at shoreline wells RI-MW-1, RI-MW-2, and RI-MW-3.
- Dissolved arsenic concentrations were detected at the lowest levels to date at ECI-MW-3 and SEE-EC-3 in December 2023 and March 2024, but continued to vary by quarter and were detected as high as 330 µg/L in September 2023. These results are relatively similar to dissolved arsenic concentrations detected during the RI, and dissolved arsenic exceedances are limited to interior monitoring wells.
- The Port completed capping of cleanup areas addressed by containment and institutional controls by additional paving completed in Cleanup Area J-3a.

The results summarized above demonstrate compliance with cleanup standards at the shoreline monitoring wells (e.g., dissolved copper concentrations are less than CULs at RI-MW-1 and RI-MW-3) during the four most recent consecutive groundwater monitoring events.

Finalization of this report, paired with filing of the restrictive covenant to address capped areas and shallow groundwater, will satisfy Section VI—*Work to Be Performed* of the Consent Decree. Consistent with Washington Administrative Code 173-340-420, the Port will coordinate with Ecology to plan for a periodic review when appropriate.

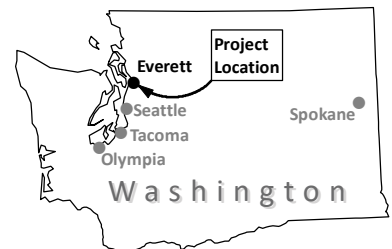
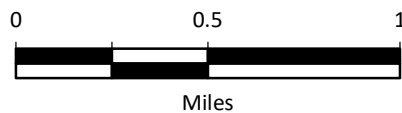
## 5.0 USE OF THIS REPORT

This report has been prepared for the exclusive use of the Port for specific application to the North Marina Ameron/Hulbert Site. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau, shall be at the user's sole risk. Landau warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. Landau makes no other warranty, either express or implied.

## 6.0 REFERENCES

- Ecology. 2014. Cleanup Action Plan, North Marina Ameron/Hulbert Site. Washington State Department of Ecology, Toxics Cleanup Program. November 21.
- EPA. 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. OLEM 9240.1-66; EPA-542-R-20-006. US Environmental Protection Agency. November.  
[https://www.epa.gov/sites/default/files/2021-03/documents/nfg\\_for\\_inorganic\\_superfund\\_methods\\_data\\_review\\_november\\_2020.pdf](https://www.epa.gov/sites/default/files/2021-03/documents/nfg_for_inorganic_superfund_methods_data_review_november_2020.pdf).
- EPA. 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. OLEM 9240.0-51; EPA-540-R-20-005. US Environmental Protection Agency. November.  
[https://www.epa.gov/sites/default/files/2021-03/documents/nfg\\_for\\_organic\\_superfund\\_methods\\_data\\_review\\_november\\_2020.pdf](https://www.epa.gov/sites/default/files/2021-03/documents/nfg_for_organic_superfund_methods_data_review_november_2020.pdf).
- Landau. 2014. Final Remedial Investigation/Feasibility Study, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. April 30.
- Landau. 2021a. Final Compliance Monitoring Plan, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. January 20.
- Landau. 2021b. Final Engineering Design Report, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. January 20.
- Landau. 2022. Final Cleanup Action Report, Port of Everett, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. September 27.
- Landau. 2023. 2023 Annual Report, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. September 6.

G:\Projects\147\029\510\2024 Annual Report\F01VicinityMap.mxd 3/6/2025

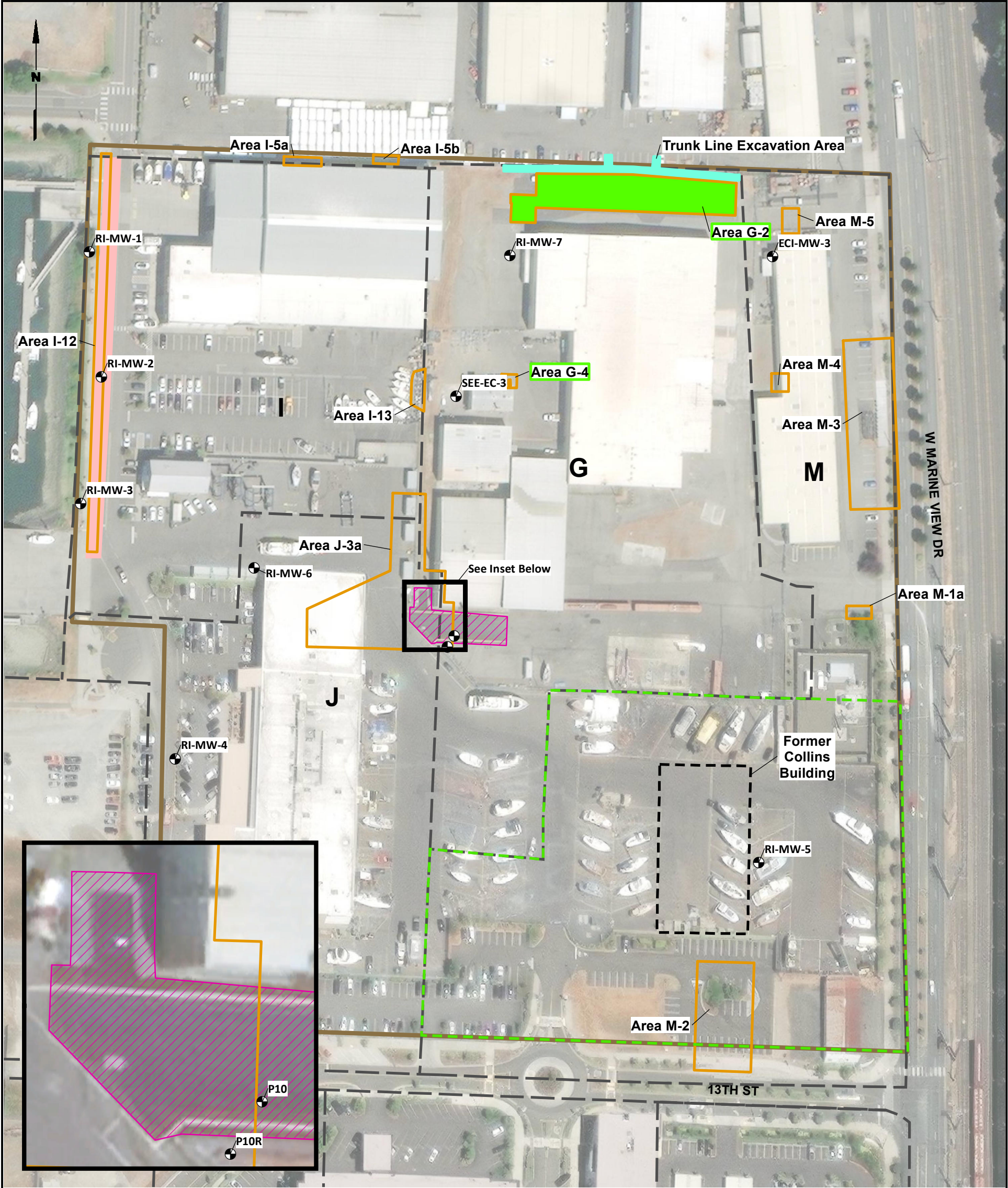


Data Source: Esri.

North Marina Ameron/Hulbert Site  
Everett, Washington

Vicinity Map

Figure  
1

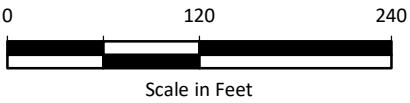


Legend

- North Marina Ameron/Hulbert Site Boundary  
(Determined in the RI/FS)
- G - Area Designation
- Statistical Compliance Area for  
Arsenic and Lead in Soil  
(Excluding Samples Containing  
Sandblast Grit within Area M-2)
- Area of Arsenic-Affected Crushed Rock  
(No Analytical Data Available for Crushed  
Rock Remaining in this Area)
- Cleanup Area to be Addressed  
by Containment and Institutional Controls
- Cleanup Area Addressed  
by Excavation
- Trunk Line Excavation
- Additional Paving,  
Completed November 2023

Notes

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

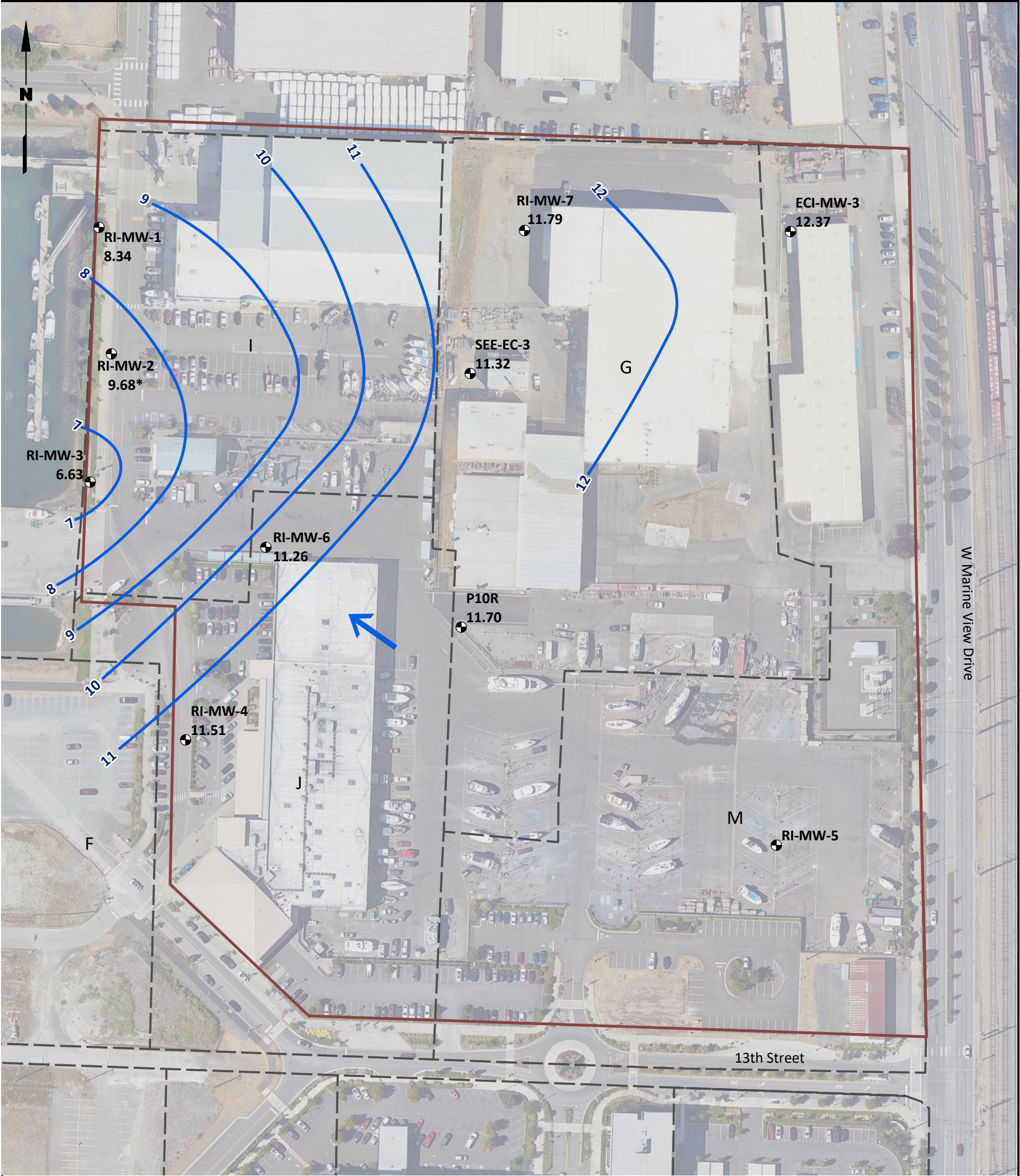


Data Sources: Snohomish County GIS; Esri World Imagery; Google Earth Pro.

North Marina Ameron/Hulbert Site  
Everett, Washington

Site Plan

Figure  
2



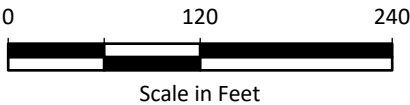
Legend

- Monitoring Well
- Groundwater Elevation Contour
- North Marina Ameron/Hulbert Site Boundary (Determined in the RI/FS)
- G - Area Designation

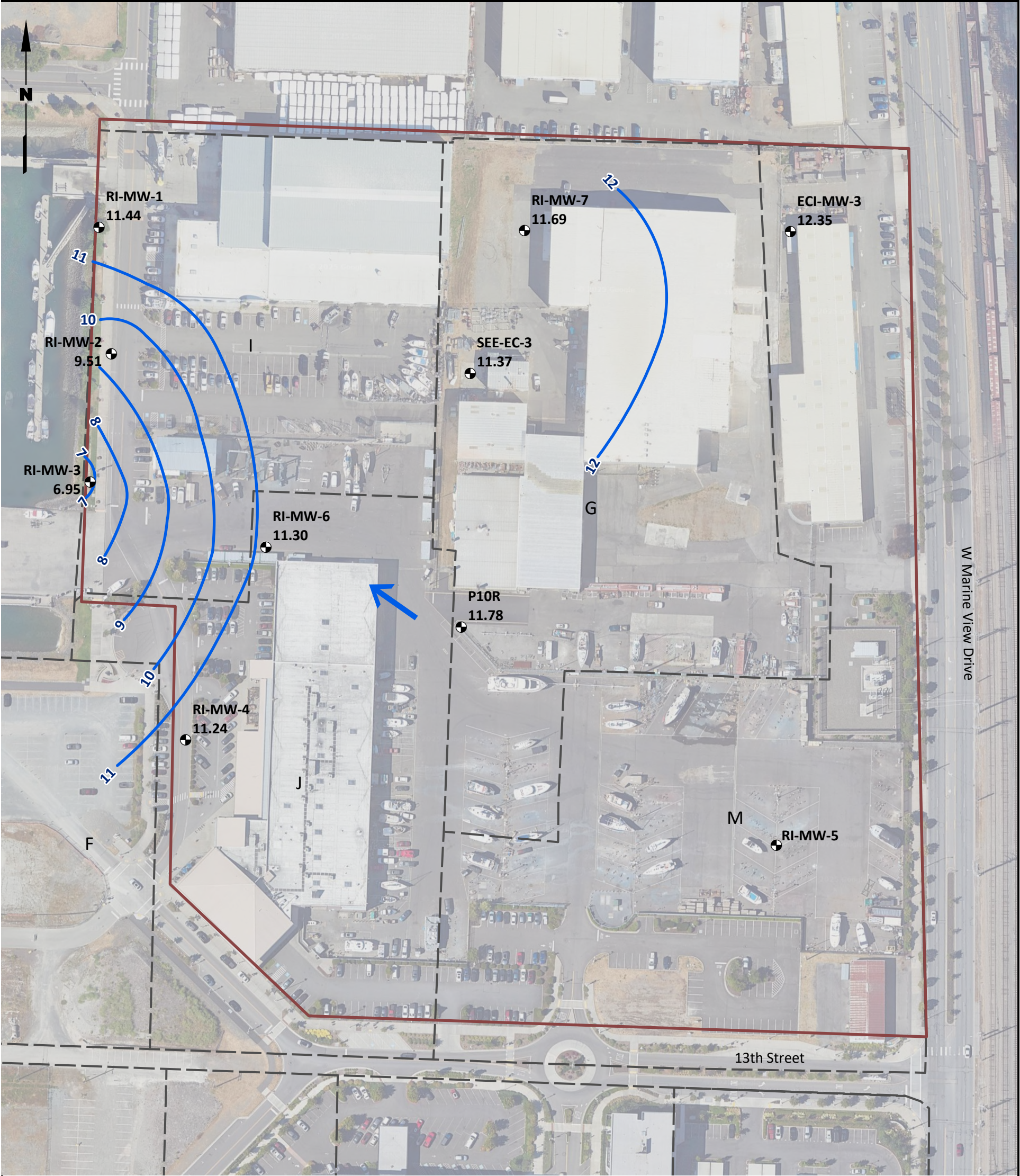
Groundwater Flow Direction

Notes

- \* = RI-MW-2 not used for contours.
- Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: Snohomish County GIS; Google Earth Imagery.

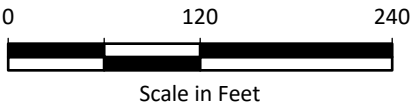


**Legend**

- Monitoring Well
- Groundwater Elevation Contour
- North Marina Ameron/Hulbert Site Boundary (Determined in the RI/FS)
- Areas G - Area Designation

**Note**

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: Snohomish County GIS; Google Earth Imagery.



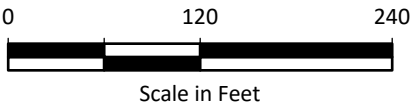
Legend

- Monitoring Well
- Groundwater Elevation Contour
- North Marina Ameron/Hulbert Site Boundary (Determined in the RI/FS)
- G - Area Designation

Groundwater Flow Direction

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.





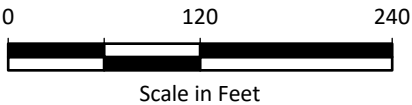
**Legend**

- Monitoring Well
- Groundwater Elevation Contour
- North Marina Ameron/Hulbert Site Boundary (Determined in the RI/FS)
- Areas G - Area Designation

Groundwater Flow Direction

**Note**

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: Snohomish County GIS; Google Earth Imagery.



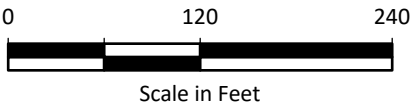
Legend

- Monitoring Well
- Groundwater Elevation Contour
- North Marina Ameron/Hulbert Site Boundary (Determined in the RI/FS)
- G - Area Designation

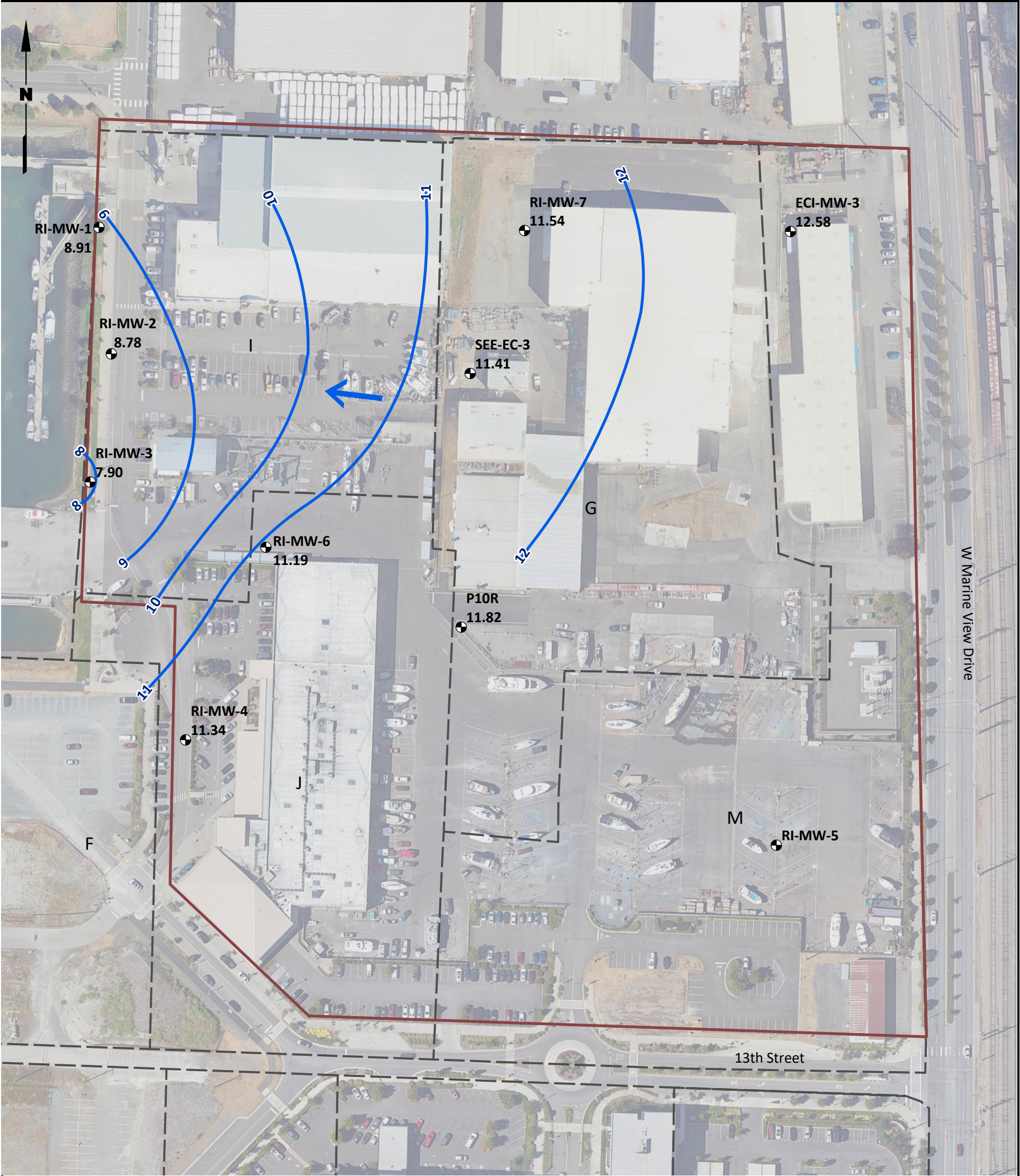
Groundwater Flow Direction

Notes:

- \* = RI-MW-2 not used for contours.
- Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



Sources: Snohomish County GIS; Google Earth Imagery.



Legend

- Monitoring Well
- Groundwater Elevation Contour
- North Marina Ameron/Hulbert Site Boundary (Determined in the RI/FS)
- G - Area Designation

Groundwater Flow Direction

Note

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

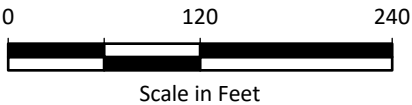


Table 1  
Groundwater Elevations  
Port of Everett North Marina Ameron/Hulbert Site  
Everett, Washington

| Monitoring Well | TOC Elevation (ft) | Sample Date | Depth to Groundwater (ft from TOC) | Groundwater Elevation (ft) | Tide Elevation at Time of Measurement (ft)* | Sample Date | Depth to Groundwater (ft from TOC) | Groundwater Elevation (ft) | Tide Elevation at Time of Measurement (ft)* | Sample Date | Depth to Groundwater (ft from TOC) | Groundwater Elevation (ft) | Tide Elevation at Time of Measurement (ft)* | Sample Date | Depth to Groundwater (ft from TOC) | Groundwater Elevation (ft) | Tide Elevation at Time of Measurement (ft)* | Sample Date | Depth to Groundwater (ft from TOC) | Groundwater Elevation (ft) | Tide Elevation at Time of Measurement (ft)* | Sample Date | Depth to Groundwater (ft from TOC) | Groundwater Elevation (ft) | Tide Elevation at Time of Measurement (ft)* |
|-----------------|--------------------|-------------|------------------------------------|----------------------------|---------------------------------------------|-------------|------------------------------------|----------------------------|---------------------------------------------|-------------|------------------------------------|----------------------------|---------------------------------------------|-------------|------------------------------------|----------------------------|---------------------------------------------|-------------|------------------------------------|----------------------------|---------------------------------------------|-------------|------------------------------------|----------------------------|---------------------------------------------|
| RI-MW-1         | 17.23              | 6/30/2023   | 8.89                               | 8.34                       | ~ -1.07                                     | 9/15/2023   | 5.79                               | 11.44                      | ~ 1.29                                      | 12/9/2023   | 7.1                                | 10.13                      | ~ 7.89                                      | 3/12/2024   | 6.84                               | 10.39                      | ~ 0.50                                      | 6/26/2024   | 7.49                               | 9.74                       | ~ 0.50                                      | 9/27/2024   | 8.32                               | 8.91                       | ~ 2.5                                       |
| RI-MW-2         | 17.66              | 6/30/2023   | 7.98                               | 9.68                       | ~ -1.07                                     | 9/15/2023   | 8.15                               | 9.51                       | ~ 1.29                                      | 12/9/2023   | 7.12                               | 10.54                      | ~ 7.89                                      | 3/12/2024   | 7.03                               | 10.63                      | ~ 0.50                                      | 6/26/2024   | 7.49                               | 10.17                      | ~ 0.50                                      | 9/27/2024   | 8.88                               | 8.78                       | ~ 2.5                                       |
| RI-MW-3         | 18.07              | 6/30/2023   | 11.44                              | 6.63                       | ~ -1.07                                     | 9/15/2023   | 11.12                              | 6.95                       | ~ 1.29                                      | 12/9/2023   | 8.27                               | 9.80                       | ~ 7.89                                      | 3/12/2024   | 9.27                               | 8.80                       | ~ 0.50                                      | 6/26/2024   | 9.42                               | 8.65                       | ~ 0.50                                      | 9/27/2024   | 10.17                              | 7.90                       | ~ 2.5                                       |
| RI-MW-4         | 18.1               | 6/30/2023   | 6.59                               | 11.51                      | ~ -1.07                                     | 9/15/2023   | 6.86                               | 11.24                      | ~ 1.29                                      | 12/9/2023   | 6.56                               | 11.54                      | ~ 7.89                                      | 3/12/2024   | 6.27                               | 11.83                      | ~ 0.50                                      | 6/26/2024   | 6.62                               | 11.48                      | ~ 0.50                                      | 9/27/2024   | 6.76                               | 11.34                      | ~ 2.5                                       |
| RI-MW-6         | 17.42              | 6/30/2023   | 6.16                               | 11.26                      | ~ -1.07                                     | 9/15/2023   | 6.12                               | 11.30                      | ~ 1.29                                      | 12/9/2023   | 6.76                               | 10.66                      | ~ 7.89                                      | 3/12/2024   | 6.06                               | 11.36                      | ~ 0.50                                      | 6/26/2024   | 6.29                               | 11.13                      | ~ 0.50                                      | 9/27/2024   | 6.23                               | 11.19                      | ~ 2.5                                       |
| RI-MW-7         | 15.05              | 6/30/2023   | 3.26                               | 11.79                      | ~ -1.07                                     | 9/15/2023   | 3.36                               | 11.69                      | ~ 1.29                                      | 12/9/2023   | 2.88                               | 12.17                      | ~ 7.89                                      | 3/12/2024   | 2.77                               | 12.28                      | ~ 0.50                                      | 6/26/2024   | 3.02                               | 12.03                      | ~ 0.50                                      | 9/27/2024   | 3.51                               | 11.54                      | ~ 2.5                                       |
| ECI-MW-3        | 15.07              | 6/30/2023   | 2.7                                | 12.37                      | ~ -1.07                                     | 9/15/2023   | 2.72                               | 12.35                      | ~ 1.29                                      | 12/9/2023   | 2.2                                | 12.87                      | ~ 7.89                                      | 3/12/2024   | 1.95                               | 13.12                      | ~ 0.50                                      | 6/26/2024   | 2.34                               | 12.73                      | ~ 0.50                                      | 9/27/2024   | 2.49                               | 12.58                      | ~ 2.5                                       |
| P-10R           | 16.41              | 6/30/2023   | 4.71                               | 11.70                      | ~ -1.07                                     | 9/15/2023   | 4.63                               | 11.78                      | ~ 1.29                                      | 12/9/2023   | 4.33                               | 12.08                      | ~ 7.89                                      | 3/12/2024   | 4.12                               | 12.29                      | ~ 0.50                                      | 6/26/2024   | 4.36                               | 12.05                      | ~ 0.50                                      | 9/27/2024   | 4.59                               | 11.82                      | ~ 2.5                                       |
| SEE-EC-3        | 16.48              | 6/30/2023   | 5.16                               | 11.32                      | ~ -1.07                                     | 9/15/2023   | 5.11                               | 11.37                      | ~ 1.29                                      | 12/9/2023   | 4.52                               | 11.96                      | ~ 7.89                                      | 3/12/2024   | 4.41                               | 12.07                      | ~ 0.50                                      | 6/26/2024   | 4.8                                | 11.68                      | ~ 0.50                                      | 9/27/2024   | 5.07                               | 11.41                      | ~ 2.5                                       |

Notes:

\* Elevations are in mean lower low water.  
Tide elevation from NOAA .

Abbreviations and Acronyms:

ft = feet  
TOC = top of casing (2-inch diameter polyvinyl chloride well casing)

**Table 2**  
**Groundwater Analytical Results**  
**Port of Everett North Marina Ameron/Hulbert Site**  
**Everett, Washington**

| Sample Location | Sample Date | Laboratory SDG | Sample Type | Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a) |                  |                           |                        |                     |                             |
|-----------------|-------------|----------------|-------------|----------------------------------------------------------------------------------|------------------|---------------------------|------------------------|---------------------|-----------------------------|
|                 |             |                |             | EPA 200.8 (µg/L)                                                                 |                  | NWTPH-Dx/-DXSG (µg/L)     |                        | SW-846 8260D (µg/L) | SW-846 8270E (µg/L)         |
|                 |             |                |             | Dissolved Arsenic                                                                | Dissolved Copper | Diesel Range Organics (b) | Oil Range Organics (b) | 1,1-Dichloroethene  | bis(2-Ethylhexyl) Phthalate |
|                 |             |                |             | 5                                                                                | 3                | 500                       | 500                    | 3.2                 | 2.2                         |
| ECI-MW-3        | 6/23/2022   | EV22060151     | N           | 65                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 6/23/2022   | EV22060151     | FD          | 64                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 9/19/2022   | EV22090083     | N           | 96                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 9/19/2022   | EV22090083     | FD          | --                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 12/8/2022   | EV22120069     | N           | 60                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 12/8/2022   | EV22120069     | FD          | --                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 3/9/2023    | EV23030073     | N           | 16                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 3/9/2023    | EV23030073     | FD          | --                                                                               | --               | --                        | --                     | 2.0 U               | --                          |
| ECI-MW-3        | 6/30/2023   | EV23060196     | N           | 96                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 6/30/2023   | EV23060196     | FD          | 95                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 9/15/2023   | EV23090087     | N           | 91                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 9/15/2023   | EV23090087     | FD          | 94                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 12/21/2023  | EV23120191     | N           | 7.7                                                                              | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 12/21/2023  | EV23120191     | FD          | 8.6                                                                              | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 3/12/2024   | EV24030094     | N           | 17                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 3/12/2024   | EV24030094     | FD          | 16                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 9/27/2024   | EV24090211     | N           | 44                                                                               | --               | --                        | --                     | --                  | --                          |
| ECI-MW-3        | 9/27/2024   | EV24090211     | FD          | 43                                                                               | --               | --                        | --                     | --                  | --                          |
| P-10R-2         | 6/23/2022   | EV22060151     | N           | 1.6                                                                              | 2.0 U            | 130 UJ/130 UJ             | 250 UJ/250 UJ          | --                  | --                          |
| P-10R-2         | 9/20/2022   | EV22090083     | N           | 1.9                                                                              | 2.0 U            | --                        | --                     | --                  | --                          |
| P-10R-2         | 12/8/2022   | EV22120069     | N           | 1.1                                                                              | 2.0 U            | --                        | --                     | --                  | --                          |
| P-10R-2         | 3/9/2023    | EV23030073     | N           | 1.0 U                                                                            | 2.1              | --                        | --                     | --                  | --                          |
| RI-MW1          | 6/23/2022   | EV22060151     | N           | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 9/19/2022   | EV22090083     | N           | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 12/9/2022   | EV22120069     | N           | 1.0 U                                                                            | 4.0              | --                        | --                     | --                  | --                          |
| RI-MW1          | 3/9/2023    | EV23030073     | N           | 1.0 U                                                                            | 3.2              | --                        | --                     | --                  | --                          |
| RI-MW1          | 6/30/2023   | EV23060196     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 6/30/2023   | EV23060196     | FD          | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |

**Table 2**  
**Groundwater Analytical Results**  
**Port of Everett North Marina Ameron/Hulbert Site**  
**Everett, Washington**

| Sample Location | Sample Date | Laboratory SDG | Sample Type | Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a) |                  |                           |                        |                     |                             |
|-----------------|-------------|----------------|-------------|----------------------------------------------------------------------------------|------------------|---------------------------|------------------------|---------------------|-----------------------------|
|                 |             |                |             | EPA 200.8 (µg/L)                                                                 |                  | NWTPH-Dx/-DXSG (µg/L)     |                        | SW-846 8260D (µg/L) | SW-846 8270E (µg/L)         |
|                 |             |                |             | Dissolved Arsenic                                                                | Dissolved Copper | Diesel Range Organics (b) | Oil Range Organics (b) | 1,1-Dichloroethene  | bis(2-Ethylhexyl) Phthalate |
|                 |             |                |             | 5                                                                                | 3                | 500                       | 500                    | 3.2                 | 2.2                         |
| RI-MW1          | 9/15/2023   | EV23090087     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 9/15/2023   | EV23090087     | FD          | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 12/21/2023  | EV23120191     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 12/21/2023  | EV23120191     | FD          | --                                                                               | <b>2.2</b>       | --                        | --                     | --                  | --                          |
| RI-MW1          | 3/12/2024   | EV24030094     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 3/12/2024   | EV24030094     | FD          | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 6/26/2024   | EV24060213     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 6/26/2024   | EV24060213     | FD          | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 9/27/2024   | EV24090211     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW1          | 9/27/2024   | EV24090211     | FD          | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW2          | 6/23/2022   | EV22060151     | N           | 1.0 U                                                                            | <b>2.3</b>       | --                        | --                     | --                  | --                          |
| RI-MW2          | 9/19/2022   | EV22090083     | N           | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW2          | 12/8/2022   | EV22120069     | N           | 1.0 U                                                                            | <b>2.3</b>       | --                        | --                     | --                  | --                          |
| RI-MW2          | 3/9/2023    | EV23030073     | N           | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW3          | 6/24/2022   | EV22060161     | N           | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | 2.0 U                       |
| RI-MW3          | 9/19/2022   | EV22090083     | N           | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | 2.0 U                       |
| RI-MW3          | 9/19/2022   | EV22090083     | FD          | <b>4.7 J</b>                                                                     | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW3          | 12/8/2022   | EV22120069     | N           | 1.0 U                                                                            | <b>2.4</b>       | --                        | --                     | --                  | 2.0 U                       |
| RI-MW3          | 12/8/2022   | EV22120069     | FD          | <b>1.0</b>                                                                       | <b>3.2</b>       | --                        | --                     | --                  | 2.0 U                       |
| RI-MW3          | 3/10/2023   | EV23030073     | N           | 1.0 U                                                                            | <b>3.6</b>       | --                        | --                     | --                  | 2.0 U                       |
| RI-MW3          | 3/10/2023   | EV23030073     | FD          | 1.0 U                                                                            | 2.0 U            | --                        | --                     | --                  | 2.0 U                       |
| RI-MW3          | 6/30/2023   | EV23060196     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW3          | 9/15/2023   | EV23090087     | N           | --                                                                               | <b>9.6</b>       | --                        | --                     | --                  | --                          |
| RI-MW3          | 12/21/2023  | EV23120191     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW3          | 3/12/2024   | EV24030094     | N           | --                                                                               | 2.0 U            | --                        | --                     | --                  | --                          |
| RI-MW3          | 6/26/2024   | EV24060213     | N           | --                                                                               | <b>2.9</b>       | --                        | --                     | --                  | --                          |
| RI-MW3          | 9/27/2024   | EV24090211     | N           | --                                                                               | <b>2.9</b>       | --                        | --                     | --                  | --                          |

**Table 2**  
**Groundwater Analytical Results**  
**Port of Everett North Marina Ameron/Hulbert Site**  
**Everett, Washington**

| Sample Location | Sample Date | Laboratory SDG | Sample Type | Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a) |                  |                           |                        |                     |                             |
|-----------------|-------------|----------------|-------------|----------------------------------------------------------------------------------|------------------|---------------------------|------------------------|---------------------|-----------------------------|
|                 |             |                |             | EPA 200.8 (µg/L)                                                                 |                  | NWTPH-Dx/-DXSG (µg/L)     |                        | SW-846 8260D (µg/L) | SW-846 8270E (µg/L)         |
|                 |             |                |             | Dissolved Arsenic                                                                | Dissolved Copper | Diesel Range Organics (b) | Oil Range Organics (b) | 1,1-Dichloroethene  | bis(2-Ethylhexyl) Phthalate |
|                 |             |                |             | 5                                                                                | 3                | 500                       | 500                    | 3.2                 | 2.2                         |
| RI-MW4          | 6/24/2022   | EV22060161     | N           | --                                                                               | --               | 130 U/130 U               | 250 U/250 U            | --                  | --                          |
| RI-MW4          | 9/19/2022   | EV22090083     | N           | --                                                                               | --               | 130 U/130 U               | 250 U/ 250 U           | --                  | --                          |
| RI-MW4          | 12/8/2022   | EV22120069     | N           | --                                                                               | --               | <b>160</b> /130 U         | 250 U/250 U            | --                  | --                          |
| RI-MW4          | 3/9/2023    | EV23030073     | N           | --                                                                               | --               | 130 U/130 U               | 250 U/250 U            | --                  | --                          |
| RI-MW-6         | 6/24/2022   | EV22060161     | N           | <b>2.6</b>                                                                       | --               | <b>300</b> /130 U         | 250 U/250 U            | --                  | --                          |
| RI-MW-6         | 6/24/2022   | EV22060161     | FD          | <b>3.3</b>                                                                       | --               | <b>340</b> /130 U         | 250 U/250 U            | --                  | --                          |
| RI-MW-6         | 9/20/2022   | EV22090083     | N           | <b>4.6</b>                                                                       | --               | <b>430</b> /150           | 250 U/ 250 U           | --                  | --                          |
| RI-MW-6         | 9/20/2022   | EV22090083     | FD          | --                                                                               | --               | <b>420</b> /140           | <b>250 J</b> / 250 U   | --                  | --                          |
| RI-MW-6         | 12/9/2022   | EV22120069     | N           | <b>3.5</b>                                                                       | --               | <b>480</b> /170           | <b>320</b> /250 U      | --                  | --                          |
| RI-MW-6         | 12/9/2022   | EV22120069     | FD          | --                                                                               | --               | <b>440</b> /140           | <b>300</b> /250 U      | --                  | --                          |
| RI-MW-6         | 3/9/2023    | EV23030073     | N           | <b>2.5</b>                                                                       | --               | <b>300</b> /130 U         | 250 U/250 U            | --                  | --                          |
| RI-MW-6         | 3/9/2023    | EV23030073     | FD          | --                                                                               | --               | <b>330</b> /130 U         | 250 U/250 U            | --                  | --                          |
| RI-MW-7         | 6/23/2022   | EV22060151     | N           | --                                                                               | --               | --                        | --                     | --                  | 2.0 U                       |
| RI-MW-7         | 6/23/2022   | EV22060151     | FD          | --                                                                               | --               | --                        | --                     | --                  | 2.0 U                       |
| RI-MW-7         | 9/19/2022   | EV22090083     | N           | --                                                                               | --               | --                        | --                     | --                  | 2.0 U                       |
| RI-MW-7         | 9/19/2022   | EV22090083     | FD          | --                                                                               | --               | --                        | --                     | --                  | 2.0 U                       |
| RI-MW-7         | 12/8/2022   | EV22120069     | N           | --                                                                               | --               | --                        | --                     | --                  | 2.0 U                       |
| RI-MW-7         | 3/9/2023    | EV23030073     | N           | --                                                                               | --               | --                        | --                     | --                  | 2.0 UJ                      |
| SEE-EC-3        | 6/23/2022   | EV22060151     | N           | <b>63</b>                                                                        | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 9/19/2022   | EV22090083     | N           | <b>80</b>                                                                        | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 12/8/2022   | EV22120069     | N           | <b>17</b>                                                                        | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 3/9/2023    | EV23030073     | N           | <b>4.0</b>                                                                       | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 6/30/2023   | EV23060196     | N           | <b>160</b>                                                                       | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 9/15/2023   | EV23090087     | N           | <b>330</b>                                                                       | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 12/21/2023  | EV23120191     | N           | <b>3.7</b>                                                                       | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 3/12/2024   | EV24030094     | N           | <b>2.3</b>                                                                       | --               | --                        | --                     | --                  | --                          |
| SEE-EC-3        | 6/26/2024   | EV24060213     | N           | <b>120</b>                                                                       | --               | --                        | --                     | --                  | --                          |

**Table 2**  
**Groundwater Analytical Results**  
**Port of Everett North Marina Ameron/Hulbert Site**  
**Everett, Washington**

| Sample Location | Sample Date | Laboratory SDG | Sample Type | Analytical Method, Unit of Measurement, Analyte, Site-Specific Cleanup Level (a) |                  |                           |                        |                     |                             |
|-----------------|-------------|----------------|-------------|----------------------------------------------------------------------------------|------------------|---------------------------|------------------------|---------------------|-----------------------------|
|                 |             |                |             | EPA 200.8 (µg/L)                                                                 |                  | NWTPH-Dx/-DXSG (µg/L)     |                        | SW-846 8260D (µg/L) | SW-846 8270E (µg/L)         |
|                 |             |                |             | Dissolved Arsenic                                                                | Dissolved Copper | Diesel Range Organics (b) | Oil Range Organics (b) | 1,1-Dichloroethene  | bis(2-Ethylhexyl) Phthalate |
|                 |             |                |             | 5                                                                                | 3                | 500                       | 500                    | 3.2                 | 2.2                         |
| SEE-EC-3        | 6/26/2024   | EV24060213     | FD          | <b>120</b>                                                                       | --               | --                        | --                     | --                  | --                          |
| SEE-EI-3        | 9/27/2024   | EV24090211     | N           | <b>140</b>                                                                       | --               | --                        | --                     | --                  | --                          |

**Notes:**

(a) Cleanup levels from Final Compliance Monitoring Plan, North Marina Ameron/Hulbert Site, Everett, Washington (Landau. 2021. Final Compliance Monitoring Plan, North Marina Ameron/Hulbert Site, Everett, Washington. Landau Associates, Inc. January 20.).

(b) Results reported without and with silica gel cleanup, respectively.

**Bold** text indicates detected analyte

Green shading indicates detected analyte exceeds applicable cleanup level

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**Abbreviations and Acronyms:**

-- = not analyzed

µg/L = micrograms per liter

EPA = US Environmental Protection Agency

FD = field duplicate

N = primary sample

NWTPH = Northwest Total Petroleum Hydrocarbon

SDG = sample delivery group

## J-3a Paving Photograph



1. J-3a paving.

## Laboratory Data Reports



July 18, 2023

Mr. Dylan Frazer  
Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125

Dear Mr. Frazer,

On June 30th, 6 samples were received by our laboratory and assigned our laboratory project number EV23060196. The project was identified as your North Marina Ameron/ / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer  
Laboratory Director



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 7/18/2023  
ALS JOB#: EV23060196  
ALS SAMPLE#: EV23060196-01  
CLIENT CONTACT: Dylan Frazer  
DATE RECEIVED: 06/30/2023  
CLIENT PROJECT: North Marina Ameron/ / 147029.510  
COLLECTION DATE: 6/30/2023 8:40:00 AM  
CLIENT SAMPLE ID: RI-MW-1-230630  
WDOE ACCREDITATION: C601

## SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 07/13/2023       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/18/2023            |
|                  |                                                                          | ALS JOB#:           | EV23060196           |
|                  |                                                                          | ALS SAMPLE#:        | EV23060196-02        |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 06/30/2023           |
| CLIENT PROJECT:  | North Marina Ameron/ / 147029.510                                        | COLLECTION DATE:    | 6/30/2023 8:55:00 AM |
| CLIENT SAMPLE ID | RI-MW-3-230630                                                           | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 07/13/2023       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/18/2023             |
|                  |                                                                          | ALS JOB#:           | EV23060196            |
|                  |                                                                          | ALS SAMPLE#:        | EV23060196-03         |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 06/30/2023            |
| CLIENT PROJECT:  | North Marina Ameron/ / 147029.510                                        | COLLECTION DATE:    | 6/30/2023 10:05:00 AM |
| CLIENT SAMPLE ID | ECI-MW-3-230630                                                          | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 96      | 1.0                 | 1                  | UG/L  | 07/13/2023       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/18/2023             |
|                  |                                                                          | ALS JOB#:           | EV23060196            |
|                  |                                                                          | ALS SAMPLE#:        | EV23060196-04         |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 06/30/2023            |
| CLIENT PROJECT:  | North Marina Ameron/ / 147029.510                                        | COLLECTION DATE:    | 6/30/2023 10:10:00 AM |
| CLIENT SAMPLE ID | SEE-EC-3-230630                                                          | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 160     | 1.0                 | 1                  | UG/L  | 07/13/2023       | EBS            |



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/18/2023            |
|                  |                                                                          | ALS JOB#:           | EV23060196           |
|                  |                                                                          | ALS SAMPLE#:        | EV23060196-05        |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 06/30/2023           |
| CLIENT PROJECT:  | North Marina Ameron/ / 147029.510                                        | COLLECTION DATE:    | 6/30/2023 8:15:00 AM |
| CLIENT SAMPLE ID | DUP1-230630                                                              | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING LIMITS | DILUTION FACTOR | UNITS | ANALYSIS DATE | ANALYSIS BY |
|--------------------|-----------|---------|------------------|-----------------|-------|---------------|-------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0              | 1               | UG/L  | 07/13/2023    | EBS         |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/18/2023             |
|                  |                                                                          | ALS JOB#:           | EV23060196            |
|                  |                                                                          | ALS SAMPLE#:        | EV23060196-06         |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 06/30/2023            |
| CLIENT PROJECT:  | North Marina Ameron/ / 147029.510                                        | COLLECTION DATE:    | 6/30/2023 10:25:00 AM |
| CLIENT SAMPLE ID | DUP2-230630                                                              | WDOE ACCREDITATION: | C601                  |

# SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 95      | 1.0                 | 1                  | UG/L  | 07/13/2023       | EBS            |



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 7/18/2023  
ALS SDG#: EV23060196  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron/ / 147029.510

## LABORATORY BLANK RESULTS

### MB-071123W - Batch 197633 - Water by EPA-200.8

| ANALYTE             | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | U       | UG/L  | 1.0                 | 07/13/2023       | EBS            |
| Copper (Dissolved)  | EPA-200.8 | U       | UG/L  | 2.0                 | 07/13/2023       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/18/2023  |
|                 |                                                                          | ALS SDG#:           | EV23060196 |
|                 |                                                                          | WDOE ACCREDITATION: | C601       |
| CLIENT CONTACT: | Dylan Frazer                                                             |                     |            |
| CLIENT PROJECT: | North Marina Ameron/ / 147029.510                                        |                     |            |

**LABORATORY CONTROL SAMPLE RESULTS**
**ALS Test Batch ID: 197633 - Water by EPA-200.8**

| SPIKED COMPOUND           | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|---------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                           |           |      |     |      | MIN    | MAX |               |             |
| Arsenic (Dissolved) - BS  | EPA-200.8 | 95.4 |     |      | 89.1   | 110 | 07/13/2023    | EBS         |
| Arsenic (Dissolved) - BSD | EPA-200.8 | 94.9 | 1   |      | 89.1   | 110 | 07/13/2023    | EBS         |
| Copper (Dissolved) - BS   | EPA-200.8 | 99.8 |     |      | 85.4   | 109 | 07/13/2023    | EBS         |
| Copper (Dissolved) - BSD  | EPA-200.8 | 99.6 | 0   |      | 85.4   | 109 | 07/13/2023    | EBS         |

APPROVED BY



Rob Greer  
Laboratory Director



LANDAU  
ASSOCIATES

# Chain-of-Custody Record

☒ North Seattle (206) 631-8660  
☐ Tacoma (253) 926-2493  
☐ Olympia (360) 791-3178

☐ Spokane (509) 327-9737  
☐ Portland (503) 542-1080  
☐

Date 6/30/23  
Page 1 of 1

Turnaround Time:  
Standard X  
Accelerated

Project Name North Mainstem/Hillbert Project No. 147029.510

Project Location/Event 2Q 2023 GW Sampling

Sampler's Name Kalpana Prasad and Adam Tancsik

Project Contact Dylan Frazer, Devon Brandt

Send Results To D. Frazer, D. Brandt, Elise Gronewald

## Testing Parameters

E023060196

Special Handling Requirements:

drop off

Shipment Method:

Stored on ice: ☒ Yes ☐ No

Sample I.D.

Date

Time

Matrix

No. of  
Containers

PI-MW-1-230630

6/30/23

840

AQ

1

PI-MW-3-230630

855

↓

1

EC1-MW-3-230630

1005

↓

1

SEE-EC-3-230630

1010

↓

1

DUP1-230630

815

↓

1

DUP2-230630

1025

↓

1

Observations/Comments

— Allow water samples to settle, collect aliquot from clear portion ☐

— NWTPH-Dx - Acid wash cleanup ☐

— Silica gel cleanup ☐

— Dissolved metal samples were field filtered

Other

\* field filtered

3.8°C on ice

Relinquished by

Signature

Printed Name

Company

Date

Received by

Signature

Printed Name

Company

Date

Relinquished by

Signature

Printed Name

Company

Date

Received by

Signature

Printed Name

Company

Date

## Sample Receiving Checklist

ALS Job #: EU23060196

Received Date: 6/30/23 Received Time: 11:35 By: RE

Shipped via: FedEx Ground \_\_\_\_\_ UPS \_\_\_\_\_ Mail \_\_\_\_\_ Courier \_\_\_\_\_ Hand Delivered ✓  
 FedEx Express \_\_\_\_\_ *On Ice*

Was correct preservation added to samples? ✓

| <u>Sample Number</u> | <u>Reagent</u> | <u>Analyte</u> |
|----------------------|----------------|----------------|
| _____                | _____          | _____          |
| _____                | _____          | _____          |
| _____                | _____          | _____          |

Temperature of cooler upon receipt: 3.8°C (Cold) Cool Ambient N/A

Explain any discrepancies: \_\_\_\_\_

Was client contacted?                      Who was called?                      By whom?                      Date:

Outcome of call: \_\_\_\_\_



September 25, 2023

Mr. Dylan Frazer  
Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125

Dear Mr. Frazer,

On September 15th, 6 samples were received by our laboratory and assigned our laboratory project number EV23090087. The project was identified as your North Marina Ameron Hulbert / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer  
Laboratory Director



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 9/25/2023  
ALS JOB#: EV23090087  
ALS SAMPLE#: EV23090087-01  
CLIENT CONTACT: Dylan Frazer  
DATE RECEIVED: 09/15/2023  
CLIENT PROJECT: North Marina Ameron Hulbert /  
147029.510  
COLLECTION DATE: 9/15/2023 10:00:00 AM  
CLIENT SAMPLE ID DUP1-230915  
WDOE ACCREDITATION: C601

## SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 09/20/2023       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 9/25/2023             |
|                  |                                                                          | ALS JOB#:           | EV23090087            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS SAMPLE#:        | EV23090087-02         |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>147029.510                              | DATE RECEIVED:      | 09/15/2023            |
|                  |                                                                          | COLLECTION DATE:    | 9/15/2023 11:10:00 AM |
| CLIENT SAMPLE ID | RI-MW-3-230915                                                           | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | 9.6     | 2.0                 | 1                  | UG/L  | 09/20/2023       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                       |
|-------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 9/25/2023             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV23090087            |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV23090087-03         |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>147029.510                              | <b>DATE RECEIVED:</b>      | 09/15/2023            |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 9/15/2023 12:10:00 PM |
| <b>CLIENT SAMPLE ID</b> | RI-MW-1-230915                                                           | <b>WDOE ACCREDITATION:</b> | C601                  |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>     | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|--------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Copper (Dissolved) | EPA-200.8     | U              | 2.0                         | 1                          | UG/L         | 09/20/2023               | EBS                    |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 9/25/2023            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV23090087           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>147029.510                              | ALS SAMPLE#:        | EV23090087-04        |
|                  |                                                                          | DATE RECEIVED:      | 09/15/2023           |
|                  |                                                                          | COLLECTION DATE:    | 9/15/2023 1:30:00 PM |
| CLIENT SAMPLE ID | SEE-EC-3-230915                                                          | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 330     | 1.0                 | 1                  | UG/L  | 09/20/2023       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                      |
|-------------------------|--------------------------------------------------------------------------|----------------------------|----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 9/25/2023            |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV23090087           |
|                         |                                                                          | <b>ALS SAMPLE#:</b>        | EV23090087-05        |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>DATE RECEIVED:</b>      | 09/15/2023           |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>147029.510                              | <b>COLLECTION DATE:</b>    | 9/15/2023 2:20:00 PM |
| <b>CLIENT SAMPLE ID</b> | ECI-MW-3-230915                                                          | <b>WDOE ACCREDITATION:</b> | C601                 |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>      | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|---------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Arsenic (Dissolved) | EPA-200.8     | 91             | 1.0                         | 1                          | UG/L         | 09/20/2023               | EBS                    |



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 9/25/2023            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV23090087           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>147029.510                              | ALS SAMPLE#:        | EV23090087-06        |
|                  |                                                                          | DATE RECEIVED:      | 09/15/2023           |
|                  |                                                                          | COLLECTION DATE:    | 9/15/2023 3:00:00 PM |
| CLIENT SAMPLE ID | DUP2-230915                                                              | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 94      | 1.0                 | 1                  | UG/L  | 09/20/2023       | EBS            |



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 9/25/2023  
ALS SDG#: EV23090087  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron Hulbert /  
147029.510

## LABORATORY BLANK RESULTS

### MB-091823W - Batch 200649 - Water by EPA-200.8

| ANALYTE             | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | U       | UG/L  | 1.0                 | 09/19/2023       | EBS            |
| Copper (Dissolved)  | EPA-200.8 | U       | UG/L  | 2.0                 | 09/19/2023       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 9/25/2023  |
|                 |                                                                          | ALS SDG#:           | EV23090087 |
|                 |                                                                          | WDOE ACCREDITATION: | C601       |
| CLIENT CONTACT: | Dylan Frazer                                                             |                     |            |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>147029.510                              |                     |            |

**LABORATORY CONTROL SAMPLE RESULTS**
**ALS Test Batch ID: 200649 - Water by EPA-200.8**

| SPIKED COMPOUND           | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|---------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                           |           |      |     |      | MIN    | MAX |               |             |
| Arsenic (Dissolved) - BS  | EPA-200.8 | 103  |     |      | 89.1   | 110 | 09/19/2023    | EBS         |
| Arsenic (Dissolved) - BSD | EPA-200.8 | 104  | 1   |      | 89.1   | 110 | 09/19/2023    | EBS         |
| Copper (Dissolved) - BS   | EPA-200.8 | 106  |     |      | 85.4   | 109 | 09/19/2023    | EBS         |
| Copper (Dissolved) - BSD  | EPA-200.8 | 105  | 1   |      | 85.4   | 109 | 09/19/2023    | EBS         |

APPROVED BY



Rob Greer  
Laboratory Director



# Chain-of-Custody Record

☒ North Seattle (206) 631-8660  
☐ Tacoma (253) 926-2493  
☐ Olympia (360) 791-3178

Date 9/15/23  
Page 1 of 1

Turnaround Time: 24  
Standard ✓  
Accelerated   

## Testing Parameters

Special Handling Requirements:   

Project Name North Valley American Hubco Project No. 147029.510

Project Location/Event Everett, WA / 30 2023 GW Sampling

Sampler's Name Kalpana Prasad

Project Contact Dylan Fraser

Send Results To "Elise Grenenwald" [Devan.Brault@landauinc.com](mailto:Devan.Brault@landauinc.com)

Sample I.D.    Date    Time    Matrix    No. of Containers   

DUP1-230915  
R1-MW-3-230915  
R1-MW-1-230915  
SET-EC-3-230915  
EC1-MW-3-230915  
DUP2-230915

9/15/23 1000  
1110  
1210  
1330  
1420  
1500

AA  
1  
1  
1  
1  
1

++  
++  
++  
++  
++  
++

## Observations/Comments

Shipment Method:     
Stored on ice: Yes / No

— Allow water samples to settle, collect aliquot from clear portion ☐  
— NWTPH-Dx - Acid wash cleanup ☐  
— Silica gel cleanup ☐  
— Dissolved metal samples were field filtered

Other \* Field Filtered

## Relinquished by

Signature [Signature]  
Printed Name Kalpana Prasad  
Company Landau Associates  
Date 9/15/23 Time 1543

## Received by

Signature [Signature]  
Printed Name Devan Brault  
Company ALS  
Date 9.15.23 Time 3:45

## Relinquished by

Signature     
Printed Name     
Company     
Date    Time   

## Received by

Signature     
Printed Name     
Company     
Date    Time

# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: Landa Associates ALS Job#: Ev23090087

Project: North Marina Ameron Hubert

Received Date: 9-15-23 Received Time: 3:45 By: MH

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐  
FedEx Express ☐

|                                                                                              | <u>Yes</u>                          | <u>No</u>                           | <u>N/A</u>                          |
|----------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Were custody seals on outside of shipping container?                                         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| If yes, how many? <u>          </u> Where? <u>          </u>                                 |                                     |                                     |                                     |
| Custody seal date: <u>          </u> Seal name: <u>          </u>                            |                                     |                                     |                                     |
| Was Chain of Custody properly filled out (ink, signed, dated, etc.)?                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Did all bottles have labels?                                                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Did all bottle labels and tags agree with Chain of Custody?                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Were samples received within hold time?                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Did all bottles arrive in good condition (unbroken, etc.)?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Was sufficient amount of sample sent for the tests indicated?                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Was correct preservation added to samples?                                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Subcontract test containers added to Subcontract Bin?                                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Wetchem test containers marked with required Tests?                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Short hold time test containers delivered to analysts?                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| Were VOA vials checked for absence of air bubbles?                                           | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Bubbles present in sample #: <u>                                  </u>                       |                                     |                                     |                                     |
| 5035A kits received?                                                                         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| # Low Kits: <u>          </u> # High Kits: <u>          </u>                                 |                                     |                                     |                                     |
| Temperature of cooler upon receipt: <u>6.0°C</u> On ice? <input checked="" type="checkbox"/> |                                     |                                     |                                     |
| Explain any discrepancies:                                                                   |                                     |                                     |                                     |

Was client contacted?            Who was called?            By whom?            Date:           

Outcome of call:



January 8, 2024

Mr. Dylan Frazer  
Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125

Dear Mr. Frazer,

On December 22nd, 6 samples were received by our laboratory and assigned our laboratory project number EV23120191. The project was identified as your North Marina Ameron Hulbert / 147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer  
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 1/8/2024  
155 NE 100th St, Ste 302 ALS JOB#: EV23120191  
Seattle, WA 98125 ALS SAMPLE#: EV23120191-01  
CLIENT CONTACT: Dylan Frazer DATE RECEIVED: 12/22/2023  
CLIENT PROJECT: North Marina Ameron Hulbert / COLLECTION DATE: 12/21/2023 3:10:00 PM  
147029.510  
CLIENT SAMPLE ID DUP2-231221 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 8.6     | 1.0                 | 1                  | UG/L  | 01/02/2024       | EBS            |



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 1/8/2024              |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV23120191            |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>147029.510                              | ALS SAMPLE#:        | EV23120191-02         |
|                  |                                                                          | DATE RECEIVED:      | 12/22/2023            |
|                  |                                                                          | COLLECTION DATE:    | 12/21/2023 3:35:00 PM |
| CLIENT SAMPLE ID | DUP1-231221                                                              | WDOE ACCREDITATION: | C601                  |

# SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | 2.2     | 2.0                 | 1                  | UG/L  | 01/02/2024       | EBS            |



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 1/8/2024  
ALS JOB#: EV23120191  
ALS SAMPLE#: EV23120191-03  
CLIENT CONTACT: Dylan Frazer  
DATE RECEIVED: 12/22/2023  
CLIENT PROJECT: North Marina Ameron Hulbert /  
147029.510  
COLLECTION DATE: 12/21/2023 4:37:00 PM  
CLIENT SAMPLE ID SEE-EC-3-231221  
WDOE ACCREDITATION: C601

## SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 3.7     | 1.0                 | 1                  | UG/L  | 01/02/2024       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                       |
|-------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 1/8/2024              |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV23120191            |
|                         |                                                                          | <b>ALS SAMPLE#:</b>        | EV23120191-04         |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>DATE RECEIVED:</b>      | 12/22/2023            |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>147029.510                              | <b>COLLECTION DATE:</b>    | 12/21/2023 4:40:00 PM |
| <b>CLIENT SAMPLE ID</b> | ECI-MW-3-231221                                                          | <b>WDOE ACCREDITATION:</b> | C601                  |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>      | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|---------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Arsenic (Dissolved) | EPA-200.8     | 7.7            | 1.0                         | 1                          | UG/L         | 01/02/2024               | EBS                    |



## CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 1/8/2024              |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV23120191            |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>147029.510                              | ALS SAMPLE#:        | EV23120191-05         |
|                  |                                                                          | DATE RECEIVED:      | 12/22/2023            |
|                  |                                                                          | COLLECTION DATE:    | 12/21/2023 6:00:00 PM |
| CLIENT SAMPLE ID | RI-MW-3-231221                                                           | WDOE ACCREDITATION: | C601                  |

## SAMPLE DATA RESULTS

| ANALYTE | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper  | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 01/02/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



## CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 1/8/2024              |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV23120191            |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>147029.510                              | ALS SAMPLE#:        | EV23120191-06         |
|                  |                                                                          | DATE RECEIVED:      | 12/22/2023            |
|                  |                                                                          | COLLECTION DATE:    | 12/21/2023 6:03:00 PM |
| CLIENT SAMPLE ID | RI-MW-1-231221                                                           | WDOE ACCREDITATION: | C601                  |

## SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 01/02/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 1/8/2024  
ALS SDG#: EV23120191  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron Hulbert /  
147029.510

## LABORATORY BLANK RESULTS

### MB-122923W - Batch 205541 - Water by EPA-200.8

| ANALYTE | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------|-----------|---------|-------|---------------------|------------------|----------------|
| Copper  | EPA-200.8 | U       | UG/L  | 2.0                 | 01/03/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

### MB-122923W - Batch 205542 - Water by EPA-200.8

| ANALYTE             | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | U       | UG/L  | 1.0                 | 01/03/2024       | EBS            |
| Copper (Dissolved)  | EPA-200.8 | U       | UG/L  | 2.0                 | 01/03/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 1/8/2024   |
| CLIENT CONTACT: | Dylan Frazer                                                             | ALS SDG#:           | EV23120191 |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>147029.510                              | WDOE ACCREDITATION: | C601       |

**LABORATORY CONTROL SAMPLE RESULTS**
**ALS Test Batch ID: 205541 - Water by EPA-200.8**

| SPIKED COMPOUND | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|-----------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                 |           |      |     |      | MIN    | MAX |               |             |
| Copper - BS     | EPA-200.8 | 101  |     |      | 85.4   | 109 | 01/02/2024    | EBS         |
| Copper - BSD    | EPA-200.8 | 102  | 1   |      | 85.4   | 109 | 01/02/2024    | EBS         |

**ALS Test Batch ID: 205542 - Water by EPA-200.8**

| SPIKED COMPOUND           | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|---------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                           |           |      |     |      | MIN    | MAX |               |             |
| Arsenic (Dissolved) - BS  | EPA-200.8 | 99.8 |     |      | 89.1   | 110 | 01/02/2024    | EBS         |
| Arsenic (Dissolved) - BSD | EPA-200.8 | 99.4 | 0   |      | 89.1   | 110 | 01/02/2024    | EBS         |
| Copper (Dissolved) - BS   | EPA-200.8 | 101  |     |      | 85.4   | 109 | 01/02/2024    | EBS         |
| Copper (Dissolved) - BSD  | EPA-200.8 | 102  | 1   |      | 85.4   | 109 | 01/02/2024    | EBS         |

APPROVED BY



Rob Greer  
Laboratory Director

☒ North Seattle (206) 631-8660  
☐ Tacoma (253) 926-2493  
☐ Olympia (360) 791-3178

Date 12/21/23  
 Page 1 of 1

Turnaround Time: Standard  
 Accelerated \_\_\_\_\_

Project Name North Marine Arm Canal Project No. 147029.510

Project Location/Event Fittell, WA / 40 Lbs Sample

Sampler's Name Kalpana Prasad and Graham Johnson

Project Contact Dylan Frazer

Send Results To P. Frazer, Felix Gracwald, data@landauinc.com

**Testing Parameters**

Dissolved Arsenic\*  
Dissolved Copper\*  
Total Copper Δ

**Observations/Comments**

Special Handling Requirements: \_\_\_\_\_  
 Shipment Method: Pickup  
 Stored on ice: Yes / No

| Sample I.D.                  | Date            | Time        | Matrix    | No. of Containers |
|------------------------------|-----------------|-------------|-----------|-------------------|
| <u>DUP2 - 231221</u>         | <u>12/21/23</u> | <u>1510</u> | <u>AQ</u> | <u>1</u>          |
| <u>DUP1 - 231221</u>         |                 | <u>1535</u> |           | <u>1</u>          |
| <u>SEE - EC - 3 - 231221</u> |                 | <u>1637</u> |           | <u>1</u>          |
| <u>EC1 - MW - 3 - 231221</u> |                 | <u>1646</u> |           | <u>1</u>          |
| <u>EC1 - MW - 3 - 231221</u> |                 | <u>1800</u> |           | <u>1</u>          |
| <u>EC1 - MW - 1 - 231221</u> |                 | <u>1803</u> |           | <u>1</u>          |

— Allow water samples to settle, collect aliquot from clear portion ☐  
 — NWT PH-Dx - Acid wash cleanup ☐  
 — Silica gel cleanup ☐  
 — Dissolved metal samples were field filtered

**Other**

Field Filtered  
Method 6020  
not field filtered  
6020

**Relinquished by**

Signature \_\_\_\_\_  
 Printed Name Kalpana Prasad  
 Company Landau Associates  
 Date 12/21/23 Time 1045

**Received by**

Signature \_\_\_\_\_  
 Printed Name AFREESC  
 Company ALS  
 Date 12-22-23 Time 1305

**Relinquished by**

Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

**Received by**

Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: LANDAU ASSOCIATES ALS Job#: E23120191

Project: NORTH MARINA Ameron / Hulbert

Login Date: 12-22-23 Login Time: 1430 Login By: AHP

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☐ ALS Courier ☒  
FedEx Express ☐

|                                                                      | Yes                                 | No                       | N/A                                 |
|----------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Were custody seals on outside of shipping container?                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| If yes, how many? <u>1</u> Where? <u>LID</u>                         |                                     |                          |                                     |
| Custody seal date: <u>12-21-23</u> Seal name: <u>KP</u>              |                                     |                          |                                     |
| Was Chain of Custody properly filled out (ink, signed, dated, etc.)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Did all bottles have labels?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Did all bottle labels and tags agree with Chain of Custody?          | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Were samples received within hold time?                              | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Did all bottles arrive in good condition (unbroken, etc.)?           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Was sufficient amount of sample sent for the tests indicated?        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Was correct preservation added to samples?                           | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| Subcontract test containers added to Subcontract Bin?                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Wetchem test containers marked with required Tests?                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Short hold time test containers delivered to analysts?               | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for absence of air bubbles?                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Bubbles present in sample #: _____                                   |                                     |                          |                                     |

5035A kits received?  
    # Low Kits: \_\_\_\_\_ # High Kits: \_\_\_\_\_

5035A kits returned?  
    # Low Kits: \_\_\_\_\_ # High Kits: \_\_\_\_\_

Temperature of cooler upon receipt: 4.3°C On ice? ☒

Explain any discrepancies:

Was client contacted? \_\_\_\_\_ Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Outcome of call:



March 18, 2024

Mr. Dylan Frazer  
Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125

Dear Mr. Frazer,

On March 12th, 6 samples were received by our laboratory and assigned our laboratory project number EV24030094. The project was identified as your North Marina Ameron Hulbert / 0147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer  
Laboratory Director

**CERTIFICATE OF ANALYSIS**

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024            |
|                  |                                                                          | ALS JOB#:           | EV24030094           |
|                  |                                                                          | ALS SAMPLE#:        | EV24030094-01        |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 03/12/2024           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | COLLECTION DATE:    | 3/12/2024 1:00:00 PM |
| CLIENT SAMPLE ID | DUP1-240312                                                              | WDOE ACCREDITATION: | C601                 |

**SAMPLE DATA RESULTS**

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 03/13/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



## CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV24030094           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | ALS SAMPLE#:        | EV24030094-02        |
|                  |                                                                          | DATE RECEIVED:      | 03/12/2024           |
|                  |                                                                          | COLLECTION DATE:    | 3/12/2024 1:15:00 PM |
| CLIENT SAMPLE ID | R1-MW-3-240312                                                           | WDOE ACCREDITATION: | C601                 |

## SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 03/13/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024            |
|                  |                                                                          | ALS JOB#:           | EV24030094           |
|                  |                                                                          | ALS SAMPLE#:        | EV24030094-03        |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 03/12/2024           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | COLLECTION DATE:    | 3/12/2024 1:31:00 PM |
| CLIENT SAMPLE ID | R1-MW-1-240312                                                           | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 03/13/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                      |
|-------------------------|--------------------------------------------------------------------------|----------------------------|----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 3/18/2024            |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24030094           |
|                         |                                                                          | <b>ALS SAMPLE#:</b>        | EV24030094-04        |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>DATE RECEIVED:</b>      | 03/12/2024           |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>COLLECTION DATE:</b>    | 3/12/2024 3:30:00 PM |
| <b>CLIENT SAMPLE ID</b> | ECI-MW-3-240312                                                          | <b>WDOE ACCREDITATION:</b> | C601                 |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>      | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|---------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Arsenic (Dissolved) | EPA-200.8     | 17             | 1.0                         | 1                          | UG/L         | 03/13/2024               | EBS                    |



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV24030094           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | ALS SAMPLE#:        | EV24030094-05        |
|                  |                                                                          | DATE RECEIVED:      | 03/12/2024           |
|                  |                                                                          | COLLECTION DATE:    | 3/12/2024 4:30:00 PM |
| CLIENT SAMPLE ID | DUP2-240312                                                              | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 16      | 1.0                 | 1                  | UG/L  | 03/13/2024       | EBS            |



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS JOB#:           | EV24030094           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | ALS SAMPLE#:        | EV24030094-06        |
|                  |                                                                          | DATE RECEIVED:      | 03/12/2024           |
|                  |                                                                          | COLLECTION DATE:    | 3/12/2024 4:52:00 PM |
| CLIENT SAMPLE ID | SEE-EL-3-240312                                                          | WDOE ACCREDITATION: | C601                 |

# SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 2.3     | 1.0                 | 1                  | UG/L  | 03/13/2024       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024  |
| CLIENT CONTACT: | Dylan Frazer                                                             | ALS SDG#:           | EV24030094 |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>0147029.510                             | WDOE ACCREDITATION: | C601       |

**LABORATORY BLANK RESULTS**
**MB-031324W - Batch 208800 - Water by EPA-200.8**

| ANALYTE             | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | U       | UG/L  | 1.0                 | 03/13/2024       | EBS            |
| Copper (Dissolved)  | EPA-200.8 | U       | UG/L  | 2.0                 | 03/13/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 3/18/2024  |
|                 |                                                                          | ALS SDG#:           | EV24030094 |
|                 |                                                                          | WDOE ACCREDITATION: | C601       |
| CLIENT CONTACT: | Dylan Frazer                                                             |                     |            |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>0147029.510                             |                     |            |

**LABORATORY CONTROL SAMPLE RESULTS**
**ALS Test Batch ID: 208800 - Water by EPA-200.8**

| SPIKED COMPOUND           | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|---------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                           |           |      |     |      | MIN    | MAX |               |             |
| Arsenic (Dissolved) - BS  | EPA-200.8 | 95.6 |     |      | 89.1   | 110 | 03/13/2024    | EBS         |
| Arsenic (Dissolved) - BSD | EPA-200.8 | 95.7 | 0   |      | 89.1   | 110 | 03/13/2024    | EBS         |
| Copper (Dissolved) - BS   | EPA-200.8 | 101  |     |      | 85.4   | 109 | 03/13/2024    | EBS         |
| Copper (Dissolved) - BSD  | EPA-200.8 | 102  | 1   |      | 85.4   | 109 | 03/13/2024    | EBS         |



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 3/18/2024  
ALS SDG#: EV24030094  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron Hulbert /  
0147029.510

## LABORATORY BATCH SUMMARY

**ALS Test Batch ID: 208800 - Water by EPA-200.8**

**Prep Date/Time: 03/13/2024 10:00**

Associated samples:

EV24030094-01, EV24030094-02, EV24030094-03, EV24030094-04, EV24030094-05, EV24030094-06

APPROVED BY

A handwritten signature in black ink, appearing to read "Rob Greer".

Rob Greer  
Laboratory Director



☒ North Seattle (206) 631-8660  
☐ Tacoma (253) 926-2493  
☐ Olympia (360) 791-3178

☐ Spokane (509) 327-9737  
☐ Portland (503) 542-1080  
☐

Date 3/12/24  
Page 1 of 1

Standard 7

EV/24030094

[illegible]

# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: Lander ALS Job#: 612403 0094

Project: North Mary Amerson / Halbert

Login Date: 3/12/21 Login Time: 1722 Login By: CM

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐  
FedEx Express ☐

|                                                                                             | Yes                                 | No                                  | N/A                                 |
|---------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Were custody seals on outside of shipping container?                                        |                                     | <input checked="" type="checkbox"/> |                                     |
| If yes, how many? _____ Where? _____                                                        |                                     |                                     |                                     |
| Custody seal date: _____ Seal name: _____                                                   |                                     |                                     |                                     |
| Was Chain of Custody properly filled out (ink, signed, dated, etc.)?                        | <input checked="" type="checkbox"/> |                                     |                                     |
| Did all bottles have labels?                                                                | <input checked="" type="checkbox"/> |                                     |                                     |
| Did all bottle labels and tags agree with Chain of Custody?                                 | <input checked="" type="checkbox"/> |                                     |                                     |
| Were samples received within hold time?                                                     | <input checked="" type="checkbox"/> |                                     |                                     |
| Did all bottles arrive in good condition (unbroken, etc.)?                                  | <input checked="" type="checkbox"/> |                                     |                                     |
| Was sufficient amount of sample sent for the tests indicated?                               | <input checked="" type="checkbox"/> |                                     |                                     |
| Was correct preservation added to samples?                                                  | <input checked="" type="checkbox"/> |                                     |                                     |
| Subcontract test containers added to Subcontract Bin?                                       |                                     |                                     | <input checked="" type="checkbox"/> |
| Wetchem test containers marked with required Tests?                                         |                                     |                                     | <input checked="" type="checkbox"/> |
| Short hold time test containers delivered to analysts?                                      |                                     |                                     | <input checked="" type="checkbox"/> |
| Were VOA vials checked for absence of air bubbles?                                          |                                     |                                     | <input checked="" type="checkbox"/> |
| Bubbles present in sample #: _____                                                          |                                     |                                     |                                     |
| 5035A kits received?                                                                        |                                     |                                     | <input checked="" type="checkbox"/> |
| # Low Kits: _____ # High Kits: _____                                                        |                                     |                                     |                                     |
| 5035A kits returned?                                                                        |                                     |                                     |                                     |
| # Low Kits: _____ # High Kits: _____                                                        |                                     |                                     |                                     |
| Temperature of cooler upon receipt: <u>5.8C</u> On ice? <input checked="" type="checkbox"/> |                                     |                                     |                                     |
| Explain any discrepancies:                                                                  |                                     |                                     |                                     |

Was client contacted? \_\_\_\_\_ Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Outcome of call:



July 3, 2024

Mr. Dylan Frazer  
Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125

Dear Mr. Frazer,

On June 26th, 5 samples were received by our laboratory and assigned our laboratory project number EV24060213. The project was identified as your North Marina Ameron Hulbert / 0147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rob Greer  
Laboratory Director



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 7/3/2024  
ALS JOB#: EV24060213  
ALS SAMPLE#: EV24060213-01  
CLIENT CONTACT: Dylan Frazer  
DATE RECEIVED: 06/26/2024  
CLIENT PROJECT: North Marina Ameron Hulbert /  
0147029.510  
COLLECTION DATE: 6/26/2024 12:50:00 PM  
CLIENT SAMPLE ID SEE-EC-3-240626  
WDOE ACCREDITATION: C601

## SAMPLE DATA RESULTS

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 120     | 1.0                 | 1                  | UG/L  | 06/27/2024       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                      |
|-------------------------|--------------------------------------------------------------------------|----------------------------|----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 7/3/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24060213           |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24060213-02        |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 06/26/2024           |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 6/26/2024 2:30:00 PM |
| <b>CLIENT SAMPLE ID</b> | RI-MW-3-240626                                                           | <b>WDOE ACCREDITATION:</b> | C601                 |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>     | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|--------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Copper (Dissolved) | EPA-200.8     | <b>2.9</b>     | 2.0                         | 1                          | UG/L         | 06/27/2024               | EBS                    |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                      |
|-------------------------|--------------------------------------------------------------------------|----------------------------|----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 7/3/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24060213           |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24060213-03        |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 06/26/2024           |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 6/26/2024 2:12:00 PM |
| <b>CLIENT SAMPLE ID</b> | RI-MW-1-240626                                                           | <b>WDOE ACCREDITATION:</b> | C601                 |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>     | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|--------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Copper (Dissolved) | EPA-200.8     | U              | 2.0                         | 1                          | UG/L         | 06/27/2024               | EBS                    |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                      |
|-------------------------|--------------------------------------------------------------------------|----------------------------|----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 7/3/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24060213           |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24060213-04        |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 06/26/2024           |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 6/26/2024 2:00:00 PM |
| <b>CLIENT SAMPLE ID</b> | DUP-1-240626                                                             | <b>WDOE ACCREDITATION:</b> | C601                 |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>     | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|--------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Copper (Dissolved) | EPA-200.8     | U              | 2.0                         | 1                          | UG/L         | 06/27/2024               | EBS                    |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                          |                     |                       |
|------------------|--------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/3/2024              |
|                  |                                                                          | ALS JOB#:           | EV24060213            |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS SAMPLE#:        | EV24060213-05         |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | DATE RECEIVED:      | 06/26/2024            |
|                  |                                                                          | COLLECTION DATE:    | 6/26/2024 12:00:00 PM |
| CLIENT SAMPLE ID | DUP-2-240626                                                             | WDOE ACCREDITATION: | C601                  |

**SAMPLE DATA RESULTS**

| ANALYTE             | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | 120     | 1.0                 | 1                  | UG/L  | 06/27/2024       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/3/2024   |
|                 |                                                                          | ALS SDG#:           | EV24060213 |
|                 |                                                                          | WDOE ACCREDITATION: | C601       |
| CLIENT CONTACT: | Dylan Frazer                                                             |                     |            |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>0147029.510                             |                     |            |

**LABORATORY BLANK RESULTS**
**MB-062624W - Batch 214256 - Water by EPA-200.8**

| ANALYTE             | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | U       | UG/L  | 1.0                 | 06/27/2024       | EBS            |
| Copper (Dissolved)  | EPA-200.8 | U       | UG/L  | 2.0                 | 06/27/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 7/3/2024   |
|                 |                                                                          | ALS SDG#:           | EV24060213 |
|                 |                                                                          | WDOE ACCREDITATION: | C601       |
| CLIENT CONTACT: | Dylan Frazer                                                             |                     |            |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>0147029.510                             |                     |            |

**LABORATORY CONTROL SAMPLE RESULTS**
**ALS Test Batch ID: 214256 - Water by EPA-200.8**

| SPIKED COMPOUND           | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|---------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                           |           |      |     |      | MIN    | MAX |               |             |
| Arsenic (Dissolved) - BS  | EPA-200.8 | 102  |     |      | 89.1   | 110 | 06/27/2024    | EBS         |
| Arsenic (Dissolved) - BSD | EPA-200.8 | 102  | 1   |      | 89.1   | 110 | 06/27/2024    | EBS         |
| Copper (Dissolved) - BS   | EPA-200.8 | 104  |     |      | 85.4   | 109 | 06/27/2024    | EBS         |
| Copper (Dissolved) - BSD  | EPA-200.8 | 104  | 1   |      | 85.4   | 109 | 06/27/2024    | EBS         |



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 7/3/2024  
ALS SDG#: EV24060213  
WDOE ACCREDITATION: C601  
CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron Hulbert /  
0147029.510

## LABORATORY BATCH SUMMARY

**ALS Test Batch ID: 214256 - Water by EPA-200.8**

**Prep Date/Time: 06/26/2024 15:30**

Associated samples:

EV24060213-01, EV24060213-02, EV24060213-03, EV24060213-04, EV24060213-05

APPROVED BY

A handwritten signature in black ink, appearing to read "Rob Greer".

Rob Greer  
Laboratory Director



# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: Landau ALS Job#: EV24060213

Project: Ameron / 0142.029.510

Login Date: 0126/29 Login Time: 1540 Login By: ce/

Type of Shipping Container: Cooler ☒ Box ☐ Other ☐

Shipped via: FedEx Ground ☐ UPS ☐ Courier ☐ Hand Delivered ☒ ALS Courier ☐  
FedEx Express ☐

|                                                                      | Yes                                 | No | N/A                                 |
|----------------------------------------------------------------------|-------------------------------------|----|-------------------------------------|
| Were custody seals on outside of shipping container?                 |                                     |    | <input checked="" type="checkbox"/> |
| If yes, how many? _____ Where? _____                                 |                                     |    |                                     |
| Custody seal date: _____ Seal name: _____                            |                                     |    |                                     |
| Was Chain of Custody properly filled out (ink, signed, dated, etc.)? | <input checked="" type="checkbox"/> |    |                                     |
| Did all bottles have labels?                                         | <input checked="" type="checkbox"/> |    |                                     |
| Did all bottle labels and tags agree with Chain of Custody?          | <input checked="" type="checkbox"/> |    |                                     |
| Were samples received within hold time?                              | <input checked="" type="checkbox"/> |    |                                     |
| Did all bottles arrive in good condition (unbroken, etc.)?           | <input checked="" type="checkbox"/> |    |                                     |
| Was sufficient amount of sample sent for the tests indicated?        | <input checked="" type="checkbox"/> |    |                                     |
| Was correct preservation added to samples?                           | <input checked="" type="checkbox"/> |    |                                     |
| Subcontract test containers added to Subcontract Bin?                |                                     |    | <input checked="" type="checkbox"/> |
| Wetchem test containers marked with required Tests?                  |                                     |    | <input checked="" type="checkbox"/> |
| Short hold time test containers delivered to analysts?               |                                     |    | <input checked="" type="checkbox"/> |
| Were VOA vials checked for absence of air bubbles?                   |                                     |    | <input checked="" type="checkbox"/> |
| Bubbles present in sample #: _____                                   |                                     |    |                                     |

5035A kits received?  
    # Low Kits: \_\_\_\_\_ # High Kits: \_\_\_\_\_ ☒

5035A kits returned?  
    # Low Kits: \_\_\_\_\_ # High Kits: \_\_\_\_\_

Temperature of cooler upon receipt: 0.4° On ice? ☒

Explain any discrepancies:

Was client contacted? \_\_\_\_\_ Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Outcome of call:



October 4, 2024

Mr. Dylan Frazer  
Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125

Dear Mr. Frazer,

On September 27th, 6 samples were received by our laboratory and assigned our laboratory project number EV24090211. The project was identified as your North Marina Ameron Hulbert / 0147029.510. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Carl Nott  
Operations Manager



# CERTIFICATE OF ANALYSIS

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 10/4/2024            |
|                  |                                                                          | ALS JOB#:           | EV24090211           |
|                  |                                                                          | ALS SAMPLE#:        | EV24090211-01        |
| CLIENT CONTACT:  | Dylan Frazer                                                             | DATE RECEIVED:      | 09/27/2024           |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | COLLECTION DATE:    | 9/27/2024 7:45:00 AM |
| CLIENT SAMPLE ID | RI-MW-1-240927                                                           | WDOE ACCREDITATION: | C601                 |

## SAMPLE DATA RESULTS

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | 2.0                 | 1                  | UG/L  | 10/03/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                  |                                                                          |                     |                      |
|------------------|--------------------------------------------------------------------------|---------------------|----------------------|
| CLIENT:          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 10/4/2024            |
|                  |                                                                          | ALS JOB#:           | EV24090211           |
| CLIENT CONTACT:  | Dylan Frazer                                                             | ALS SAMPLE#:        | EV24090211-02        |
| CLIENT PROJECT:  | North Marina Ameron Hulbert /<br>0147029.510                             | DATE RECEIVED:      | 09/27/2024           |
|                  |                                                                          | COLLECTION DATE:    | 9/27/2024 8:21:00 AM |
| CLIENT SAMPLE ID | RI-MW-3-240927                                                           | WDOE ACCREDITATION: | C601                 |

**SAMPLE DATA RESULTS**

| ANALYTE            | METHOD    | RESULTS | REPORTING<br>LIMITS | DILUTION<br>FACTOR | UNITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|---------------------|--------------------|-------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | 2.9     | 2.0                 | 1                  | UG/L  | 10/01/2024       | EBS            |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                       |
|-------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 10/4/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24090211            |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24090211-03         |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 09/27/2024            |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 9/27/2024 10:58:00 AM |
| <b>CLIENT SAMPLE ID</b> | ECI-MW-3-240927                                                          | <b>WDOE ACCREDITATION:</b> | C601                  |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>      | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|---------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Arsenic (Dissolved) | EPA-200.8     | 44             | 1.0                         | 1                          | UG/L         | 10/01/2024               | EBS                    |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                       |
|-------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 10/4/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24090211            |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24090211-04         |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 09/27/2024            |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 9/27/2024 11:48:00 AM |
| <b>CLIENT SAMPLE ID</b> | SEE-EI-3-240927                                                          | <b>WDOE ACCREDITATION:</b> | C601                  |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>      | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|---------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Arsenic (Dissolved) | EPA-200.8     | <b>140</b>     | 1.0                         | 1                          | UG/L         | 10/01/2024               | EBS                    |

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                       |
|-------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 10/4/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24090211            |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24090211-05         |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 09/27/2024            |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 9/27/2024 10:00:00 AM |
| <b>CLIENT SAMPLE ID</b> | DUP-1-240927                                                             | <b>WDOE ACCREDITATION:</b> | C601                  |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>     | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|--------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Copper (Dissolved) | EPA-200.8     | U              | 2.0                         | 1                          | UG/L         | 10/01/2024               | EBS                    |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                         |                                                                          |                            |                       |
|-------------------------|--------------------------------------------------------------------------|----------------------------|-----------------------|
| <b>CLIENT:</b>          | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | <b>DATE:</b>               | 10/4/2024             |
|                         |                                                                          | <b>ALS JOB#:</b>           | EV24090211            |
| <b>CLIENT CONTACT:</b>  | Dylan Frazer                                                             | <b>ALS SAMPLE#:</b>        | EV24090211-06         |
| <b>CLIENT PROJECT:</b>  | North Marina Ameron Hulbert /<br>0147029.510                             | <b>DATE RECEIVED:</b>      | 09/27/2024            |
|                         |                                                                          | <b>COLLECTION DATE:</b>    | 9/27/2024 12:00:00 PM |
| <b>CLIENT SAMPLE ID</b> | DUP-2-240927                                                             | <b>WDOE ACCREDITATION:</b> | C601                  |

**SAMPLE DATA RESULTS**

| <b>ANALYTE</b>      | <b>METHOD</b> | <b>RESULTS</b> | <b>REPORTING<br/>LIMITS</b> | <b>DILUTION<br/>FACTOR</b> | <b>UNITS</b> | <b>ANALYSIS<br/>DATE</b> | <b>ANALYSIS<br/>BY</b> |
|---------------------|---------------|----------------|-----------------------------|----------------------------|--------------|--------------------------|------------------------|
| Arsenic (Dissolved) | EPA-200.8     | 43             | 1.0                         | 1                          | UG/L         | 10/01/2024               | EBS                    |



## CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 10/4/2024  
ALS SDG#: EV24090211  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron Hulbert /  
0147029.510

## LABORATORY BLANK RESULTS

### MB-093024W2 - Batch 218295 - Water by EPA-200.8

| ANALYTE             | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|---------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Arsenic (Dissolved) | EPA-200.8 | U       | UG/L  | 1.0                 | 10/01/2024       | EBS            |
| Copper (Dissolved)  | EPA-200.8 | U       | UG/L  | 2.0                 | 10/01/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

### MB-100224W - Batch 218437 - Water by EPA-200.8

| ANALYTE            | METHOD    | RESULTS | UNITS | REPORTING<br>LIMITS | ANALYSIS<br>DATE | ANALYSIS<br>BY |
|--------------------|-----------|---------|-------|---------------------|------------------|----------------|
| Copper (Dissolved) | EPA-200.8 | U       | UG/L  | 2.0                 | 10/03/2024       | EBS            |

U - Analyte analyzed for but not detected at level above reporting limit.

**CERTIFICATE OF ANALYSIS**

|                 |                                                                          |                     |            |
|-----------------|--------------------------------------------------------------------------|---------------------|------------|
| CLIENT:         | Landau Associates, Inc.<br>155 NE 100th St, Ste 302<br>Seattle, WA 98125 | DATE:               | 10/4/2024  |
|                 |                                                                          | ALS SDG#:           | EV24090211 |
|                 |                                                                          | WDOE ACCREDITATION: | C601       |
| CLIENT CONTACT: | Dylan Frazer                                                             |                     |            |
| CLIENT PROJECT: | North Marina Ameron Hulbert /<br>0147029.510                             |                     |            |

**LABORATORY CONTROL SAMPLE RESULTS**
**ALS Test Batch ID: 218295 - Water by EPA-200.8**

| SPIKED COMPOUND           | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|---------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                           |           |      |     |      | MIN    | MAX |               |             |
| Arsenic (Dissolved) - BS  | EPA-200.8 | 93.3 |     |      | 89.1   | 110 | 10/01/2024    | EBS         |
| Arsenic (Dissolved) - BSD | EPA-200.8 | 94.8 | 2   |      | 89.1   | 110 | 10/01/2024    | EBS         |
| Copper (Dissolved) - BS   | EPA-200.8 | 94.1 |     |      | 85.4   | 109 | 10/01/2024    | EBS         |
| Copper (Dissolved) - BSD  | EPA-200.8 | 96.1 | 2   |      | 85.4   | 109 | 10/01/2024    | EBS         |

**ALS Test Batch ID: 218437 - Water by EPA-200.8**

| SPIKED COMPOUND          | METHOD    | %REC | RPD | QUAL | LIMITS |     | ANALYSIS DATE | ANALYSIS BY |
|--------------------------|-----------|------|-----|------|--------|-----|---------------|-------------|
|                          |           |      |     |      | MIN    | MAX |               |             |
| Copper (Dissolved) - BS  | EPA-200.8 | 101  |     |      | 85.4   | 109 | 10/03/2024    | EBS         |
| Copper (Dissolved) - BSD | EPA-200.8 | 98.8 | 3   |      | 85.4   | 109 | 10/03/2024    | EBS         |

**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc.  
155 NE 100th St, Ste 302  
Seattle, WA 98125  
DATE: 10/4/2024  
ALS SDG#: EV24090211  
WDOE ACCREDITATION: C601

CLIENT CONTACT: Dylan Frazer  
CLIENT PROJECT: North Marina Ameron Hulbert /  
0147029.510

**LABORATORY BATCH SUMMARY****ALS Test Batch ID: 218295 - Water by EPA-200.8****Prep Date/Time: 09/30/2024 10:00**

Associated samples:

EV24090211-02, EV24090211-03, EV24090211-04, EV24090211-05, EV24090211-06

**ALS Test Batch ID: 218437 - Water by EPA-200.8****Prep Date/Time: 10/02/2024 10:00**

Associated samples:

EV24090211-01

APPROVED BY

Carl Nott  
Operations Manager



# Chain-of-Custody Record

☒ North Seattle (206) 631-8660  
☐ Tacoma (253) 926-2493  
☐ Olympia (360) 791-3178

☐ Spokane (509) 327-9737  
☐ Portland (503) 542-1080

Date 9/27/24  
Page 1 of 1  
Turnaround Time: Standard  
Accelerated           

Project Name North Marine Pier on Harbor Project No. 0147029.510

Project Location/Event 30 SW Sampling

Sampler's Name Spencer Lo

Project Contact Dylan Frezer

Send Results To Dylan Frezer - dfraser@landauinc.com | data@landauinc.com

## Testing Parameters

EV24090211

Special Handling Requirements:

Shipment Method:           

Stored on ice: ☒ Yes / No

## Observations/Comments

— Allow water samples to settle, collect aliquot from clear portion ☐

— NWTPH-DX - Acid wash cleanup ☐

— Silica gel cleanup ☐

☒ Dissolved metal samples were field filtered

## Other

Hold FE-MW-3-240927, will

analyze for dissolved copper if

needed - See Dylan Frezer

Send copy of report to

Elise Groenewald at eliseg@portofseattle.com

## Relinquished by

Signature [Signature]

Printed Name Spencer Lo

Company LAI

Date 9/27/24 Time 1238

## Received by

Signature [Signature]

Printed Name Arnel Villa

Company ALS

Date 9/27/24 Time 1238

## Relinquished by

Signature           

Printed Name           

Company           

Date            Time           

## Received by

Signature           

Printed Name           

Company           

Date            Time           

• Taken at HSH 9/30/24

Mr Dylan email. CN

9/30/24



**SAMPLE RECEIVING CHECKLIST**

Client: Lan Dau  
Project: North Marina Amazon Hubert

ALS Job #: E24090211  
Login Date: 9-27-24  
Login Time: 12:38  
Login By: MT

Type of Shipping Container: ☒ Cooler  
☐ Box  
☐ Other: \_\_\_\_\_

Shipped Via: ☐ FedEx Ground  
☐ FedEx Express  
☐ UPS  
☐ External Courier  
☐ ALS Courier  
☒ Hand Delivered

Were custody seals on the outside of the shipping container?

How Many? \_\_\_\_\_ Where? \_\_\_\_\_ Date: \_\_\_\_\_ Name: \_\_\_\_\_

Was CoC filled out properly? (in ink, signed, dated, etc.)

Did all bottles have labels?

Did all bottle labels and tags agree with CoC?

Were samples received within hold time?

Did all bottles arrive in good condition?

Was sufficient amount of sample sent for tests requested?

Was correct preservation added to samples?

Subcontract test containers added to subcontract bin?

Wetchem test containers marked with applicable tests?

Short hold time test containers delivered to analysts?

VOA vials checked for bubbles?

Bubbles in sample number(s): \_\_\_\_\_

5035A kits received?

Low kits: \_\_\_\_\_ High kits: \_\_\_\_\_

5035A kits returned?

Low kits: \_\_\_\_\_ High kits: \_\_\_\_\_

Temperature upon receipt: 3.1 °C

On ice? X

Thermometer ID: 189

Other discrepancies:

| Yes      | No    | N/A      |
|----------|-------|----------|
| _____    | _____ | <u>X</u> |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | _____    |
| <u>X</u> | _____ | <u>X</u> |
| <u>X</u> | _____ | _____    |
| _____    | _____ | <u>X</u> |
| _____    | _____ | <u>X</u> |
| _____    | _____ | <u>X</u> |

Was client contacted? \_\_\_\_\_ Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_  
Outcome of call: