

# Quarterly Progress Report

April 20, 2022

To: Garin Schrieve, PE, Washington State Department of Ecology  
From: Nicole LaFranchise and Kendra Skellenger, PE, Anchor QEA, LLC  
cc: Kristin Gaines and Cheryl Vezzani, Northwest Alloys, Inc.

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**Re: Former Reynolds Metals Remediation – Quarterly Progress Report, 2022 Q1**

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Per Section XI of the Consent Decree (CD) issued by the State of Washington Cowlitz County Superior Court on December 14, 2018, Anchor QEA, LLC, is providing the following quarterly progress report on behalf of Northwest Alloys, Inc. (NWA). This quarterly progress report describes the actions taken during the previous quarter (January 1 to March 31, 2022) to implement the requirements of the CD.

## **A. List of on-site activities that have taken place during the quarter**

- The first quarter 2022 groundwater sampling occurred January 25 and 26, 2022.
- On February 10, 2022, Anchor QEA submitted the “Summary of Long-Term Monitoring Program for the Permeable Reactive Barriers” memorandum to the Washington State Department of Ecology (Ecology). The memorandum summarizes the existing long-term monitoring program for the permeable reactive barriers (PRBs) and the proposed alignment of the groundwater wells contained in the program for monitoring the PRBs, plus includes a discussion on potential assessments and action triggers that could be included in the updated Contingency Response Plan.
- On February 15, 2022, a “Pre-Design Investigation Work Plan Addendum: Additional Geotechnical Borings” (PDI Work Plan Addendum) for design of the pump station and manhole in the vicinity of SU-6 and SU-7 was submitted to Ecology.
- On February 16, 2022, Ecology provided comments and recommendations on the PDI Work Plan Addendum. Additional emails between Anchor QEA and Ecology were exchanged, with the investigation approach being approved by Ecology that day.
- The Former Reynolds Metals Company (RMC) Longview Ecology Update Meeting No. 11 conference call with Ecology, NWA, and Anchor QEA was held on February 17, 2022. Discussion included long-term monitoring for the PRBs and the contents of the “Summary of Long-Term Monitoring Program for the Permeable Reactive Barriers” memorandum that was submitted to Ecology on February 10, 2022.
- On February 22 and 23, 2022, Anchor QEA oversaw the installation of the two geotechnical borings as outlined in the PDI Work Plan Addendum.

- On February 28, 2022, Anchor QEA submitted the "Reactive Backfill Design" memorandum, which provided additional information about how the reactive backfill design was developed using a groundwater zone of fluctuation, how those fluctuation zones were determined, and provided an update on proposed backfill media changes.
- On March 1, 2022, the *2021 Annual Groundwater Monitoring Report* was submitted to Ecology.
- Ecology approved the *Sampling Location Study Work Plan* on March 3, 2022. Anchor QEA and NWA are currently using the work plan criteria to schedule the site reconnaissance.
- The Former RMC Longview Ecology Update Meeting No. 12 conference call with Ecology, NWA, and Anchor QEA was held on March 4, 2022. Discussion included the process monitoring proposal for PRBs as had been discussed in February, reactive backfill design, and preliminary procurement and construction schedule. The preliminary schedule that was shown during the meeting was provided to Ecology later that day.
- On March 15, 2022, additional PRB monitoring figures were provided to Ecology as a follow-up to the Former RMC Longview Ecology Update Meeting No. 12. The figures depict the additional upgradient monitoring wells in plan and cross-sectional view that Ecology requested.
- On February 22, 2022, the Consolidated Diking Improvement District (CDID) issued the Encroachment Permit.

**B. Detailed description of any deviations from required tasks not otherwise documented in project plans or amendment requests**

None.

**C. Description of all deviations from the Scope of Work and Schedule (Exhibit C) during the current quarter and any planned deviations in the upcoming quarter**

On March 4, 2022, NWA and Anchor QEA discussed with Ecology the overall project schedule relative to meeting the Scope of Work and based on receiving the CDID encroachment permit much earlier than expected.

**D. For any deviations in schedule, a plan for recovering lost time and maintaining compliance with the schedule**

None.

**E. Summary of all environmental data received by Owner during the past quarter**

Data were received for the first quarter interim groundwater monitoring program. Those data will be reported in the *2022 Annual Groundwater Monitoring Report*. Geotechnical data were received on March 10, 2020, and will be included in the *Final Revised Engineering Design Report*.

**F. (At Ecology's request) All raw data, including laboratory analyses and an identification of the source of the sample**

No data were requested.

**G. List of deliverables for the upcoming quarter, if different from the schedule**

There are no changes to the CD Scope of Work.

**H. References**

There are no applicable references.