

Quarterly Progress Report

January 20, 2023

To: Garin Schrieve, PE, Washington State Department of Ecology

From: Nicole Forsberg and Kendra Skellenger, PE, Anchor QEA, LLC

cc: Kristin Gaines and Cheryl Vezzani, Northwest Alloys, Inc.

Re: Former Reynolds Metals Remediation – Quarterly Progress Report, 2022 Q4

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 (October 1, 2022, to December 31, 2022) to implement the requirements of the CD.

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

- The fourth quarter 2022 groundwater monitoring occurred October 18, 19, 27, and 28, 2022. There was a gap in monitoring due to unhealthy air quality that restricted outside work.
- In an October 18, 2022, email, the Washington State Department of Ecology (Ecology) provided design review feedback on the updated *Reactive Backfill Report* (Appendix G to the *Final Revised Engineering Design Report* [Final Revised EDR]).
- The Former Reynolds Metals Company (RMC) Longview Ecology Update Meeting No. 19 with Ecology, NWA, and Anchor QEA was held via Microsoft (MS) Teams on October 11, 2022. Discussion included decision points on permeable reactive barrier design safety factor and activated alumina dosing for reactive backfill, WAC 173-240/*Engineering Report for NPDES Permit Renewal Application* (NPDES Engineering Report) crosswalk, and preliminary Ecology feedback on the Final Revised EDR.
- Ecology provided formal comments on the Final Revised EDR on November 2, 2022.
- On November 7, 2022, Anchor QEA submitted the "Field Logs from Ground Improvement Sampling" memorandum to Ecology. The memorandum presented notable observations and transmitted the boring logs for the ground improvement sampling at Site Unit (SU) 7/East Landfill No. 1.
- The Former RMC Longview Ecology Update Meeting No. 20 with Ecology, NWA, and Anchor QEA was held via MS Teams on November 9, 2022. Discussion included reviewing Ecology comments on the Final Revised EDR, East Landfill No. 1 field summary, and updates on permits and contractor procurement.
- On November 10, 2022, Anchor QEA provided Ecology the bid drawings and specifications.
- On November 16, 2022, Ecology, NWA, and Anchor QEA held a meeting to discuss financial assurance needs. The financial assurance memorandum and net present value costs will be

updated and provided to Ecology once long-term monitoring and contingency planning has been determined for the reactive backfill SUs.

- The Former RMC Longview Ecology Update Meeting No. 21 with Ecology, NWA, and Anchor QEA was held via MS Teams on November 17, 2022. Ecology's comments on the Final Revised EDR and *Remediation Water Management Plan* (Appendix K to the Final Revised EDR) were discussed.
- A Former RMC Longview Ecology NWA Coordination Meeting with Ecology, NWA, and Anchor QEA was held via MS Teams on December 1, 2022. Redlined sections of the Final Revised EDR, *Construction Quality Assurance Plan* (Appendix O to the Final Revised EDR), and specifications were reviewed in tandem with Ecology comments to understand if needed revisions were interpreted appropriately.
- A Former RMC Longview Ecology NWA Coordination Meeting with Ecology, NWA, and Anchor QEA was held via MS Teams on December 8, 2022. Discussion included NPDES Engineering Report response to comments.
- A Former RMC Longview Ecology NWA Coordination Meeting with Ecology, NWA, and Anchor QEA was held via MS Teams on December 15, 2022. Discussion included reviewing updated drawings and outstanding items on the response to comments matrix. A proposal for reactive backfill options was also reviewed.

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

None.

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 fourth quarter interim groundwater monitoring program. Those data will be reported in the *2022 Annual Groundwater Monitoring 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.