

August 30, 2019

Project No. 9231000005.5000

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Washington Department of Ecology (Ecology)

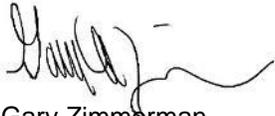
LANDSBURG MINE SITE REMEDIATION CONSTRUCTION ACTIVITIES SUMMARY REPORT AUGUST 2019

Construction activities completed at the Landsburg Mine Site (the Site) during August 2019 are summarized as follows:

- As of August 5, the trenches have been filled and a compacted cap layer approximately 3-feet thick above the previous elevation of the trench rim has been added on Areas 7, 8, and 9. A total of 148,016 cubic yards (cy) of fill material was placed at the Site. The material will be allowed to settle over the winter and the Site conditions will be reassessed in the spring of 2020 to prepare for the installation of a low-permeability cap and vegetated soil cover.
- Additional lab analyses were conducted on the fill material, and a technical memorandum was submitted to Ecology summarizing the final soil characterization sampling and analysis. There were no indications of contamination observed during the field screening and there were no contaminants detected in any soil sampling collected from the backfill material during the entire trench backfilling remedial action.
- Backfilling of Portal #2 was completed the week of August 19. Approximately 1,000 cy of fill material was placed at Portal #2. The same fill material that was used to backfill the trenches was used to backfill the Portal # 2 depression.
- Golder continued short-term groundwater monitoring in accordance with Table A-2 of the Construction Management Plan (CMP). Groundwater samples were collected on August 14 and 15 and delivered to the laboratory for analysis. Groundwater monitoring for measurement of field parameters was also completed during the week of August 26. Groundwater monitoring data for the June and July events have been validated and are currently being compiled into monitoring reports for submittal to Ecology. Short-term groundwater monitoring data have not shown any indications that the backfilling induced any change in groundwater quality at the Site.

Please contact Gary Zimmerman at (425) 883-0777 if you have any questions.

Golder Associates Inc.



Gary Zimmerman
Principal

JX/GLZ

Attachments: Site Photographs

Photo 1 – Portal #2 backfilled, August 29, 2019 (looking south from northern tip)



Photo 2 – Portal #2 backfilled, August 29, 2019 (looking northeast from northern tip)

