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LANDSBURG MINE SITE REMEDIATION CONSTRUCTION ACTIVITIES SUMMARY REPORT SEPTEMBER 2020

Construction activities completed at the Landsburg Mine Site (the Site) during the period of September 8 to 25, 2020 are summarized as follows:

- From September 8 to September 18, backfilled trench Areas were regraded and rolled to achieve the design contour grades and provide an acceptable subgrade for the geomembrane liner installation. Anchor trenches were also dug along the perimeter of the trenches for the geomembrane liner installation. Geomembrane liner installation began on September 21, 2020. As of September 22, 2020, the geomembrane liner was deployed and seamed over Area 7 and most of Area 8. Due to inclement weather, liner installation was suspended on September 23 through 25, 2020. It is anticipated that the liner installation over the remaining areas will be completed by September 30, 2020.
- On September 14, five highly rusted and broken drums were discovered on the surface along the eastern edge of Area 9 as the crew was clearing brush and dragging out some blackberry bushes. The area where the rusted drum material was located is just outside of the area that will be capped. There was no liquid in the drums and no odors were noticed, but there was a small amount of black, solid, burnt-looking material in the drums. We removed the rusted drum pieces and the drum contents. The solid debris was placed in new drums and the rusted drum pieces and were placed on a plastic tarp and covered. We also scraped a few inches of soil across an approximate 10-foot by 10-foot area beneath where the drums were located to remove any rusted metal pieces and clear the area down to native soils. Removed drum pieces and debris will be characterized for off-site disposal. Ecology was notified of the discovery. The vegetated area along the eastern edge of Area 9 was visually inspected for any other non-native debris, and none was observed. All other edges of the backfilled trenches were cleared during Phase 2 remedial actions, and there were no drums or other non-native debris detected. To confirm the native soils beneath the area where the drums were located are not impacted, soil samples were collected and are being analyzed for Target Analyte List (TAL) metals, cyanide, VOCs, pesticides, polychlorinated biphenyls (PCBs), semi-volatile organics, and Total Petroleum Hydrocarbons.
- Golder started short-term groundwater monitoring in accordance with Table A-2 of the Construction Management Plan (CMP). Groundwater samples were collected from September 16 to 18, 2020, and delivered to the laboratory for analysis. This event also encompasses the quarterly monitoring event for the North End wells. Groundwater monitoring data for these events will be validated and compiled into monitoring reports for submittal to Ecology.

Anticipated Construction Tasks to Occur During the Next Month:

- Complete deploying, seaming, and seam testing of the geomembrane liner over Area 8 and Area 9.
Complete installing geocomposite liner over the geomembrane liner.
- Place general fill and topsoil over the installed liner.
- Construct the stormwater conveyance system and the infiltration pond.
- Continue short-term monitoring in accordance with Table A-2 of the CMP.

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

Golder Associates Inc.



Gary Zimmerman
Principal

JX/GLZ/sb

Attachments: Site Photographs

Photograph 1: Anchor trenches dug and Area 8 subgrade rolled in preparation for liner installation.



Photograph 2: Areas 7 and 8 regraded and being rolled in preparation for liner installation.



Photograph 3: Geomembrane liner deployed over Area 7.



Photograph 4: Geomembrane liner deployed over Area 8.

