



INSPECTION REPORT: GREENS CREEK MINE

Tongass National Forest Minerals Group
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Date of Inspection: Thursday December 6, 2018
Date of Report: Tuesday December 18, 2018
USDA Forest Service Inspector: Richard Dudek

Ranger District: Admiralty National Monument, Juneau Ranger District
Weather Conditions: Cloudy with low fog Temperature: Mid 30's (°F).

Exploration in accordance with operating plan	Not Applicable
Timber removal following timber sale contract	Not Applicable
BMP for erosion control	Satisfactory
Water Quality BMP	Satisfactory
Public safety & fire prevention	Satisfactory
Reclamation work adequate and timely	Satisfactory
Roads maintenance adequate and current	Satisfactory
Tails placement in accordance with plan	Satisfactory
Waste Rock placement in compliance	Satisfactory
Company supervision of operation	Satisfactory
Operating in a clean and orderly manner	Satisfactory

Any conditions noted as UNSATISFACTORY will require follow up action by the Mine Inspector and a written memorandum to the operator, outlining the necessary work.

NEW REMARKS

Ward Air provided a Cessna 185 floatplane to and from site.

David Landes (Environmental Engineer, (HGCMC)) accompanied Richard Dudek (Geologist, United States Forest Service (USFS)), David Khan (Engineer, Alaska Department of Environmental Conservation (ADEC)), and Shannon Kelly (Mining Engineer, Alaska Department of Natural Resources (ADNR)).

The site inspection included the Access Road B, 920 area, 860 area, 7.4 mile B-road Bridge (Killer Creek Bridge), 3.4 mile B-road Bridge (Falls Creek Bridge), 3.0 mile B-road Bridge (Zinc Creek Bridge), and the Tailings Disposal Facility (TDF).

ACTION ITEMS

- **No new action items were observed during this inspection.**

NOTE WORTHY ITEMS

The 860 stairway that leads to upper C-Pond is now completed (Photo 1).

A/B ACCESS ROADS

At the time of the inspection, the B-road was in adequate condition. Surface operations are placing Pea gravel down for better vehicle traction (Appendix 08 Road Operations and Maintenance; page 8-5). HGCMC civil engineers are currently working on designs for repairing the failed section of the 0.8 A-road.





920 AREA

The recorded discharge rate for the Greens Creek weir (Photo 2-3) on 12/6/2018 was 22.04 cubic feet per second (cfs). The 920-area water withdrawal rate from Greens Creek was 1.5 cfs.

The 920 Bridge is being properly maintained and the splashguards are effective in preventing sediment splash over from vehicular traffic (Photo 4).

HGCMC personnel recently staged a storage container that will store gas cylinders for welding at the 920 warehouse (Photo 5-6). Good housekeeping practices were observed at the warehouse (Photo 7). All chemical and petroleum products were stored within secondary containment (Appendix 5 BMP plan; page 39).

The new 920 ore pad de-grit basin (Photo 8) is functioning as intended.

7.4-MILE B-ROAD BRIDGE (KILLER CREEK BRIDGE)

The bridge's decking is being adequately maintained by HGCMC Surface Operations (Photos 9). The bridges splashguards are effective in preventing sediment splash over from vehicular traffic.

3.4-MILE B-ROAD BRIDGE (FALLS CREEK BRIDGE)

The bridge's decking is being properly maintained by HGCMC Surface Operations (Photo 10).

3.0-MILE B-ROAD BRIDGE (ZINC CREEK BRIDGE)

HGCMC Surface Operations are maintaining the bridge, and the BMPs at the abutment. (Photos 11-12).

TAILINGS DISPOSAL FACILITY (TDF) AREA

Surface Operations continue to deposit tailings in the S3P1 expansion area (Photo 13). HGCMC personnel have staged portable wind screens (Photo 14) in active tailings placement areas for fugitive dust mitigation.

Surface Operations recently constructed a walkway (Photo 15-16) over the ditch to give personnel safer access when entering the S3P1 area.

Pond 7 (Photo 17) was receiving influent water, and Pond 10 (Photo 18) is collecting direct precipitation.

On 12/6/2018 the water treatment plant was treating 1,086 gallons per minute (gpm). Good housekeeping practices were observed inside the water treatment plant (Photo 19).

FOLLOW UP ITEMS

Inspect the 920 area.

Inspect the B-road bridges.

Conduct a site inspection of the TDF and facilities.

Updates to planning/repairs made for the 0.8 mile A-road.

PHOTOS (Images available upon request)





Figure 1. The 860 stairway for safely accessing upper and lower C-pond.



Photo 2. Greens Creek weir.



Photo 3. An upstream view of Greens Creek.



Photo 4. The 920 Bridge with the 920 adit in the background.



Photo 5. A new storage container for welding gas cylinders.



Photo 6. Inside the container are gas cylinder brackets for securing the cylinders.



Photo 7. Petrochemicals were properly stored within secondary containment.



Photo 8. The 920 de-grit basin.



Photo 9. The 7.4 mile B-road Bridge (Killer Creek Bridge).



Photo 10. The 3.4 mile B-road Bridge (Falls Creek Bridge).



Photo 11. The 3.0 mile B-road Bridge (Zinc Creek Bridge).



Photo 12. Zinc Creek bridge abutment BMPs.



Photo 13. The S3P1 tailings expansion area.



Photo 14. Portable wind screens staged in active tailings placement areas.



Photo 15. The S3P1 walkway.



Photo 16. The S3P1 contact water perimeter ditch.



Photo 17. Pond 7.



Photo 18. Pond 10



Photo 19. The water treatment plant.

Thanks to HGCMC for a safe visit.

U.S. Forest Service Officer: /s/ Richard Dudek
