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NT 676885

January 9, 2015

Mr. Willard Hagen, Chair
Mackenzie Valley Land and Water Board
7TH FLOOR – 4922, 48TH ST., PO BOX 2130
YELLOWKNIFE, NT X1A 2P6

Dear: Mr. Hagen,

RE: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of December 21

This report is meant to satisfy commitments made in the May 21, 2013 responses to review comments on the draft roaster waste plan. Our commitment was to provide weekly summaries of the following data:

- PM₁₀ measurements captured by the contractor and the fenceline program;
- All other available and quality assured data, including TSP, trace elements (metals) and asbestos data.

In discussions with the Giant Mine Working Group, in lieu of the detailed weekly reports made on May 21, 2013 the project has requested to provide weekly summaries with a visual summary of any results above the Risk Based Action Levels (RBALs). This is done to make the reporting more useful to users, while still maintaining the level of details previously provided.

In summary for the week of December 21 – December 27, 2014:

Fenceline network:

- Air quality monitoring along the fenceline was suspended on December 20, 2014, coinciding with the completion of the Interim Underground Stabilization (IUS) program (tailings work) for the 2014 season. Fenceline monitoring is scheduled to resume on January 5, 2015 in support of the resumption of IUS activities.

Community Stations

- There were no continuous 24-hour average concentrations of particulate matter less than 2.5 microns in diameter (PM_{2.5}) and no continuous 24-hour average PM₁₀ concentrations above the referenced criteria measured at the community stations during the week;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples measured on November 28, December 1, December 4, December 7, and December 10, 2014 at the community stations were less than the analytical detection limit and/or below

the referenced criteria. Laboratory results from samples collected at the community stations after December 10, 2014 are pending; and

- Laboratory results from asbestos samples collected on December 4, 7, and 10, 2014 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Laboratory results from asbestos samples collected at the community stations after December 10, 2014 are pending.

Interim Underground Stabilization (IUS) (tailings work)

- Air quality monitoring near the IUS work was suspended on December 19, 2014, with the completion of this work for the 2014 season. Air quality monitoring is scheduled to continue starting on January 5, 2015 in support of remaining IUS activities (tailings work); and
- Analytical 24-hour arsenic results measured at six locations near IUS work activities around the North and Central Tailings Ponds on December 1, 4, and 7, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after December 7, 2014 is pending.

General Operations

- The AQM program operated as specified during the week ending December 27, 2014 with the exception of:
 1. PM_{2.5} BAM monitor at the NAPS station stopped operating during the week due to unknown causes, beginning at 2 PM on December 24, 2014.

Additional air quality information for the Giant Mine can be found on the NWT Air Quality Monitoring Network web page: <http://aqm.enr.gov.nt.ca>.

Should you have any questions or comments, please contact Adrian Paradis by Telephone: (867) 669-2425 or by E-mail: Adrian.Paradis@aandc-aadnc.gc.ca.

Sincerely,



Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List