

Permits

From: Adrian Paradis <Adrian.Paradis@aandc-aadnc.gc.ca>
Sent: Monday, November 30, 2015 1:52 PM
Subject: Giant Mine Weekly Air Quality Report for November 21, 2015
Attachments: YELLOWKN-#783858-v1-Giant_Monitoring_Air_Quality_Report_21_November_2015_.PDF; Adrian Paradis.vcf

A summary of the Giant Mine ambient air quality monitoring program for the week ending November 21, 2015 is as follows:

Fenceline Network:

- Fenceline daily sampling schedule was changed to 7 AM – 7 PM beginning on November 2, 2015.
- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria (159 µg/m³) were measured at the fenceline monitoring stations during the week. PM₁₀ concentrations measured at fenceline locations during the week were typical of seasonal background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL (333 µg/m³) were measured at the fenceline monitoring stations during the week. TSP concentrations measured at fenceline locations during the week were typical of seasonal background concentrations;

Community Stations:

- No twenty-four (24) hour average concentrations of PM_{2.5} and PM₁₀ were measured above the referenced criteria at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typical of seasonal background concentrations;
- Laboratory results from available TSP, PM₁₀, and trace metals (including arsenic) samples collected on November 2 and 5, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Laboratory analysis of community station filters collected after November 5, 2015 are pending;
 - Laboratory results from available asbestos samples collected on November 8, 2015 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 November 8, 2015 are pending;

General Operations:

- The AQM program operated as specified during the week ending November 21, 2015 with exception to the following:
 - Site F (Marina) fenceline monitor was stolen late Friday night around midnight, November 20, 2015. Data was unavailable at Site F from midnight on Friday to 6:15 AM the following Saturday morning when a replacement sampler was installed.

Regards,

Adrian Paradis

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November 30, 2015

Mr. Willard Hagen, Chair
Mackenzie Valley Land and Water Board
7TH FLOOR – 4910, 50TH AVE., PO BOX 2130
YELLOWKNIFE, NT X1A 2P6

**RE: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of
November 21, 2015**

Dear: Mr. Hagen,

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

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

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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>.

For information on RBALs, TSP, PM10 and for answers to other commonly asked questions about Air Quality Monitoring, please see the Giant Mine Remediation Project Team's [online FAQs](#). 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