

MVLWB Registry

From: Fallon Morton <Fallon.Morton@aandc-aadnc.gc.ca>
Sent: Monday, April 20, 2015 9:05 AM
To: NWTLands
Subject: Giant Mine AQM weekly summary report for the week ending April 11, 2015
Attachments: Weekly AQM Summary April 5-11, 2015.pdf

Greetings,

Attached is the AQM weekly summary report for Giant Mine for week ending April 11, 2015.

In discussions with the Giant Mine Working Group, in lieu of the detailed weekly reports the project has decided to provide weekly summaries and a detailed monthly report. This is done to make the reporting more useful to users, while still maintaining the level of details previously provided.

A summary of the report is provided below:

Fenceline Network:

- Fenceline air quality monitoring started operations at all sites Friday April 10, 2015. Fenceline samplers are scheduled to run daily from 7 AM to 7 PM local time;
- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria were measured at the fenceline monitoring stations during the week. PM₁₀ concentrations measured at all fenceline locations remained typical of background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the Site D (Beach) fenceline locations during the week;

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 NDL and YCC community stations during the week. PM₁₀ concentrations were above the referenced criteria April 5 and April 7, 2015 at the NAPS community station due to road dust. PM_{2.5} concentrations at NAPS were below the reference criteria during the week;
- Laboratory results from all valid TSP, PM₁₀, and trace metals (including arsenic) samples measured on March 1, 7, and 13, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Note, the March 7th and 13th TSP samples collected at NAPS were invalidated due to irregular sampler motor performance; makeup samples at NAPS were completed on March 10th and March 17th, 2015. Laboratory results from samples collected at the community stations after March 17, 2015 are pending;
- There were no new laboratory analytical results received during the current reporting period for asbestos samples measured at the community stations. Laboratory results from asbestos samples collected at the community stations after February 23, 2015 are pending;

- The 3-day sampling schedule for 24-hour integrated TSP, PM₁₀, trace metals, and asbestos monitoring at the community stations has resumed as of March 19, 2015;

Interim Underground Stabilization (IUS) (tailings work)

- IUS activities for 2015 have not yet resumed;

General Operations

- The AQM program operated as specified during the week ending April 11, 2015 with the following exception:
 1. NDL and YCC PM₁₀ and PM_{2.5} BAM monitors were down from late Thursday through late Sunday (April 9 – April 12) for routine annual maintenance. The BAM monitors were undergoing 72-hour zero signal conditioning checks in preparation for the upcoming season.

Regards,

Fallon Morton
Giant Mine Remediation Project
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April 20, 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 April 5

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.

In discussions with the Giant Mine Working Group, in lieu of the detailed weekly reports the project has decided to provide weekly summaries and a detailed monthly report. 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 April 5 – April 11, 2015:

Fenceline Network:

- Fenceline air quality monitoring started operations at all sites Friday April 10, 2015. Fenceline samplers are scheduled to run daily from 7 AM to 7 PM local time;
- No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) criteria

were measured at the fenceline monitoring stations during the week. PM₁₀ concentrations measured at all fenceline locations remained typical of background concentrations;

- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the Site D (Beach) fenceline locations during the week;

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 NDL and YCC community stations during the week. PM₁₀ concentrations were above the referenced criteria April 5 and April 7, 2015 at the NAPS community station due to road dust. PM_{2.5} concentrations at NAPS were below the reference criteria during the week;
- Laboratory results from all valid TSP, PM₁₀, and trace metals (including arsenic) samples measured on March 1, 7, and 13, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Note, the March 7th and 13th TSP samples collected at NAPS were invalidated due to irregular sampler motor performance; makeup samples at NAPS were completed on March 10th and March 17th, 2015. Laboratory results from samples collected at the community stations after March 17, 2015 are pending;
- There were no new laboratory analytical results received during the current reporting period for asbestos samples measured at the community stations. Laboratory results from asbestos samples collected at the community stations after February 23, 2015 are pending;
- The 3-day sampling schedule for 24-hour integrated TSP, PM₁₀, trace metals, and asbestos monitoring at the community stations has resumed as of March 19, 2015;

Interim Underground Stabilization (IUS) (tailings work)

- IUS activities for 2015 have not yet resumed;

General Operations

- The AQM program operated as specified during the week ending April 11, 2015 with the following exception:
 1. NDL and YCC PM₁₀ and PM_{2.5} BAM monitors were down from late Thursday through late Sunday (April 9 – April 12) for routine annual

maintenance. The BAM monitors were undergoing 72-hour zero signal conditioning checks in preparation for the upcoming season.

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,

A handwritten signature in black ink, appearing to read 'A. Paradis', written in a cursive style.

Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List