

MVLWB Registry

From: Fallon Morton <Fallon.Morton@aandc-aadnc.gc.ca>
Sent: Friday, October 10, 2014 2:59 PM
To: NWTLands
Subject: Giant Mine AQM weekly summary report for the week ending October 4, 2014
Attachments: Weekly Summary Sep 28 - Oct 4.pdf

Greetings,

Attached is the AQM weekly summary report for Giant Mine for week ending October 4, 2014.

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:

- 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 locations during the week;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline locations during the week;
- No 15-minute average PM₁₀ concentrations above the established RBAL criteria were measured at the underground vent locations during the week. The established RBAL criterion is 390 µg/m³ at the underground vent locations.
- There were four (4) 15-minute average PM₁₀ concentrations above the fenceline RBAL criteria (159 µg/m³) at the underground vent locations. Fenceline monitoring results remained very low and well below the fenceline RBAL during the reporting period, indicating there is likely no correlation between concentrations at the fenceline and the higher concentrations at the underground vent outflow locations.
- No PM₁₀ concentrations above the established RBAL were measured at the perimeter of the Central and North Tailings Ponds monitor locations during the week;
- Analytical 24-hour arsenic results measured from underground vents September 11, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after September 11, 2014 is pending;
- Laboratory results from 24-hour and 8-hour asbestos samples collected at three sites surrounding the Boneyard cleanup area on September 29 and September 30, 2014 were below the referenced criteria for protection of public health and worker safety. Laboratory results from 24-hour and 8-hour asbestos samples collected at three sites surrounding the Conveyor Gallery cleanup area on October 1, October 2, October 3, and October 4, 2014 were below the referenced criteria for protection of public health and worker safety. Analysis of asbestos samples collected after October 4, 2014 are pending;

- No real time 15-minute average PM₁₀ concentrations above the established RBAL were measured during the week at each perimeter monitoring location (upwind and downwind) for the Roaster deconstruction specific air quality monitoring program;
- 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. The PM₁₀ BAM monitor at the NAPS station was down for most of the week due to unknown causes;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples measured on September 14 and September 18, 2014 were less than the analytical detection limit and/or below the reference criteria at the community stations. Laboratory results from samples collected on September 11, 2014 and after September 18, 2014 are pending;
- Laboratory results from asbestos samples collected on September 11, September 14, September 17, and September 20, 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 September 20, 2014 are pending;
- Laboratory results from samples collected on September 23 – 24, September 26 – 27, September 29 – 30, and September 30 – October 1, 2014 for the roaster deconstruction specific air quality monitoring program, indicated 24-hour average arsenic, PM₁₀, and TSP concentrations were below the referenced applicable criteria;
- The AQM program operated as specified during the week ending October 4, 2014.

Regards,

Fallon Morton
Giant Mine Remediation Project
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October 10, 2014

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 September 28th

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 September 28th – October 4th, 2014, 2014:

- 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 locations during the week;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline locations during the week;
- No 15-minute average PM₁₀ concentrations above the established RBAL criteria were measured at the underground vent locations during the week. The established RBAL criterion is 390 µg/m³ at the underground vent locations.

- There were four (4) 15-minute average PM₁₀ concentrations above the fenceline RBAL criteria (159 µg/m³) at the underground vent locations. Fenceline monitoring results remained very low and well below the fenceline RBAL during the reporting period, indicating there is likely no correlation between concentrations at the fenceline and the higher concentrations at the underground vent outflow locations.
- No PM₁₀ concentrations above the established RBAL were measured at the perimeter of the Central and North Tailings Ponds monitor locations during the week;
- Analytical 24-hour arsenic results measured from underground vents September 11, 2014 were less than the analytical detection limit and/or below the referenced criteria. Analysis of filter results collected after September 11, 2014 is pending;
- Laboratory results from 24-hour and 8-hour asbestos samples collected at three sites surrounding the Boneyard cleanup area on September 29 and September 30, 2014 were below the referenced criteria for protection of public health and worker safety. Laboratory results from 24-hour and 8-hour asbestos samples collected at three sites surrounding the Conveyor Gallery cleanup area on October 1, October 2, October 3, and October 4, 2014 were below the referenced criteria for protection of public health and worker safety. Analysis of asbestos samples collected after October 4, 2014 are pending;
- No real time 15-minute average PM₁₀ concentrations above the established RBAL were measured during the week at each perimeter monitoring location (upwind and downwind) for the Roaster deconstruction specific air quality monitoring program;
- 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. The PM₁₀ BAM monitor at the NAPS station was down for most of the week due to unknown causes;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples measured on September 14 and September 18, 2014 were less than the analytical detection limit and/or below the reference criteria at the community stations. Laboratory results from samples collected on September 11, 2014 and after September 18, 2014 are pending;
- Laboratory results from asbestos samples collected on September 11, September 14, September 17, and September 20, 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 September 20, 2014 are pending;

- Laboratory results from samples collected on September 23 – 24, September 26 – 27, September 29 – 30, and September 30 – October 1, 2014 for the roaster deconstruction specific air quality monitoring program, indicated 24-hour average arsenic, PM₁₀, and TSP concentrations were below the referenced applicable criteria;
- The AQM program operated as specified during the week ending October 4, 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,

A handwritten signature in blue ink, appearing to read 'A. Paradis', with a long horizontal flourish extending to the right.

Adrian Paradis
Regulatory Manager
Giant Mine Remediation Project

c.c.: Distribution List