

From: Geneva Irwin
Subject: Air Quality Monitoring Weekly Summary - Week Ending in November 26
Date: Friday, December 2, 2016 10:22:17 AM
Attachments: [YELLOWKN-#862032-v1-GIANT - REGULATORY AND MONITORING - AQM 1.pdf](#)

Good Morning,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending November 26, 2016 is as follows:

Fenceline Network:

No 15-minute average particulate matter less than 10 microns in diameter (PM₁₀) concentrations above the established Risk Based Action Level (RBAL) of 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 fenceline RBAL of 333 µg/m³ were measured at the fenceline monitoring stations during the week. TSP concentrations measured at the fenceline locations during the week were typical of seasonal background concentrations.

Community Stations:

No 24-hour average concentrations of PM_{2.5} and PM₁₀ were measured above the referenced standards at the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations;

Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on October 30, November 2, 5, 8, and 11, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analysis of community station filters collected after November 11, 2016 are pending;

- Laboratory results from asbestos samples collected on October 30, November 5, 8, and 11, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of asbestos samples collected at the community stations after November 11, 2016 are pending.

General Operation:

The AQM program operated as specified during the week ending November 26, 2016, with the following exceptions:

- Scheduled monthly quality assurance checks and equipment maintenance were conducted on the PM₁₀ and PM_{2.5} continuous monitors at the NDL station on November 21, 2016. During this time the monitors did not record two hours of particulate data. The PM_{2.5} continuous monitor did not record three additional hours of particulate data due to the monitor having an internal error directly following the maintenance;
- The YCC community station did not report five hours from the PM₁₀ and PM_{2.5} continuous monitors on November 22, 2016 due to a power shut off to upgrade the electrical wiring at the station.

Sincerely,

Craig Wells



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

NT 862032

December 2, 2016

Distribution List

RE: Air Quality Reports for the Week of November 26, 2016.

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending November 26, 2016 is as follows:

Fenceline Network:

- No 15-minute average particulate matter less than 10 microns in diameter (PM_{10}) concentrations above the established Risk Based Action Level (RBAL) of $159 \mu\text{g}/\text{m}^3$ were measured at the fenceline monitoring stations during the week. PM_{10} 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 fenceline RBAL of $333 \mu\text{g}/\text{m}^3$ were measured at the fenceline monitoring stations during the week. TSP concentrations measured at the fenceline locations during the week were typical of seasonal background concentrations.

Community Stations:

- No 24-hour average concentrations of $PM_{2.5}$ and PM_{10} were measured above the referenced standards at the community stations during the week. $PM_{2.5}$ and PM_{10} concentrations during the week were typically representative of seasonal background concentrations;
- Laboratory results from TSP, PM_{10} , and trace metals (including arsenic) samples collected on October 30, November 2, 5, 8, and 11, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analysis of community station filters collected after November 11, 2016 are pending;
- Laboratory results from asbestos samples collected on October 30, November 5, 8, and 11, 2016 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of asbestos samples collected at the community stations after November 11, 2016 are pending.

General Operation:

- The AQM program operated as specified during the week ending November 26, 2016, with the following exceptions:
 - Scheduled monthly quality assurance checks and equipment maintenance were conducted on the PM₁₀ and PM_{2.5} continuous monitors at the NDL station on November 21, 2016. During this time the monitors did not record two hours of particulate data. The PM_{2.5} continuous monitor did not record three additional hours of particulate data due to the monitor having an internal error directly following the maintenance;
 - The YCC community station did not report five hours from the PM₁₀ and PM_{2.5} continuous monitors on November 22, 2016 due to a power shut off to upgrade the electrical wiring at the station.

Sincerely,

A handwritten signature in black ink, appearing to read 'Craig Wells', with a stylized, cursive script.

Craig Wells
Giant Mine Remediation Project

c.c.: Distribution List