

**From:** Geneva Irwin  
**Subject:** Air Quality Monitoring Weekly Summary - Week Ending in October 15  
**Date:** Thursday, October 20, 2016 3:23:37 PM  
**Attachments:** [October 15.pdf](#)

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Good Evening,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending October 15, 2016 is as follows:

Fenceline Network:

- No 15-minute average particulate matter less than 10 microns in diameter (PM<sub>10</sub>) concentrations above the established Risk Based Action Level (RBAL) of 159 µg/m<sup>3</sup> were measured at the fenceline monitoring stations during the week. PM<sub>10</sub> 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/m<sup>3</sup> 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;
- Laboratory results of arsenic concentrations from samples collected on September 18, 21, and 24, 2016 at the Fenceline E-Sampler locations were less than the analytical detection limit and/or below the referenced standards. Laboratory analyses of arsenic filter samples collected after September 24, 2016 are pending.

Community Stations:

- No 24-hour average concentrations of PM<sub>2.5</sub> and PM<sub>10</sub> were measured above the referenced standards at the community stations during the week. PM<sub>2.5</sub> and PM<sub>10</sub> concentrations during the week were typically representative of seasonal background concentrations;
- Laboratory results from TSP, PM<sub>10</sub>, and trace metals (including arsenic) samples collected on September 9 and 12, 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 September 12, 2016 are pending;
  - Laboratory results from asbestos samples collected on September 9 and 12, 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 on September 12, 2016 are pending.

Stope Borehole Drilling Program:

- There was no air quality monitoring specific to the stope borehole drilling program conducted during the week, as drilling operations have concluded;
- Laboratory results of arsenic concentrations from samples collected on September 18, 21, and 24, 2016 at the stope borehole locations were less than the analytical detection limit and/or below the referenced standards. Laboratory analyses of arsenic filter samples collected after September 24, 2016 are pending.

General Operation:

- The AQM program operated as specified during the week ending October 15, 2016, with the following exception:
  - Fenceline DustTrak instruments have been affected by an intermittent internal software error causing sporadic loss of PM<sub>10</sub> and TSP 15-minute concentration data. SLR has been working with the manufacturer to identify and correct this issue, but has yet to determine a cause. Backup E-Sampler PM<sub>10</sub> instruments have been collocated with the DustTraks at site F-Marina and G-West to provide data during periods affected by the DustTrak instrument software error;
  - Continuous PM<sub>10</sub> were incomplete on October 13, 2016 at NDL due to a failed sample pump, the station did not report five hours of PM<sub>10</sub> data while the pump was repaired.

Sincerely,

Natalie Plato



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

NT 858377

October 21, 2016

Distribution List

**RE: Air Quality Reports for the Week of October 15, 2016.**

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Sincerely,



Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List