

From: [Geneva Irwin](#)
Subject: Air Quality Monitoring Weekly Summary Week Ending in September 3
Date: Friday, September 9, 2016 8:39:59 AM
Attachments: [September 3.pdf](#)

Good Morning,

The Giant Mine ambient air quality monitoring program (AQM) operated as specified for the week ending September 3, 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;

Laboratory results of arsenic concentrations from samples collected on August 10 and 13, 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 August 13, 2016 are pending.

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 August 10 and 13, 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 August 13, 2016 are pending;

- Laboratory results from asbestos samples collected July 26, 2016 (previously not reported) and August 13, 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 August 13, 2016 are pending.

Stope Borehole Drilling Program:

Air quality monitoring specific to the stope borehole drilling program was conducted near active drilling operations throughout the week at three locations within the vicinity of B3 Pit, and at three locations within the vicinity of the C1 Pit;

There were no 15-minute average PM₁₀ concentrations above the surface drilling RBAL of 260 µg/m³ measured at the monitors located in the vicinity of drilling operations during the week;

There were no 15-minute average PM₁₀ concentrations above the underground vent monitoring RBAL (300 µg/m³) measured during the week;

Laboratory results of arsenic concentrations from samples collected on August 7, 10, and 13, 2016 at the stope borehole and underground vent monitoring locations were less than the analytical detection limit and/or below the referenced standards. Laboratory analyses of arsenic filter samples collected after August 13, 2016 are pending.

General Operation:

The AQM program operated as specified during the week ending September 3, 2016, with the following exception:

- o Data was not complete at site F-Marina on September 2, 2016 due to an internal error in the DustTrak's software.

Best,

Natalie Plato



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

NT 855064

September 9, 2016

Distribution List

RE: Air Quality Reports for the Week of September 3, 2016.

The Giant Mine ambient air quality monitoring program (AQM) operated as specified for the week ending September 3, 2016 is as follows:

Fenceline Network:

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- 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;
- Laboratory results of arsenic concentrations from samples collected on August 10 and 13, 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 August 13, 2016 are pending.

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;
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detection limit and/or below the referenced standard. Laboratory analyses of asbestos samples collected at the community stations on August 13, 2016 are pending.

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- There were no 15-minute average PM_{10} concentrations above the surface drilling RBAL of $260 \mu\text{g}/\text{m}^3$ measured at the monitors located in the vicinity of drilling operations during the week;
- There were no 15-minute average PM_{10} concentrations above the underground vent monitoring RBAL ($300 \mu\text{g}/\text{m}^3$) measured during the week;
- Laboratory results of arsenic concentrations from samples collected on August 7, 10, and 13, 2016 at the stope borehole and underground vent monitoring locations were less than the analytical detection limit and/or below the referenced standards. Laboratory analyses of arsenic filter samples collected after August 13, 2016 are pending.

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Sincerely,



Natalie Plato
Deputy Director
Giant Mine Remediation Project

c.c.: Distribution List