

**From:** Irwin, Geneva (AADNC/AANDC)  
**Subject:** Air Quality Monitoring Weekly Summary - Week Ending in January 13 2017  
**Date:** January 19, 2018 11:52:49 AM  
**Attachments:** [GIANT - REGULATORY AND MONITORING - AQM WEEKLY SUMMARY - WEEK ENDING IN JANUARY 13 2018 933496 .pdf](#)

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Good Morning,

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending January 13, 2018 is as follows:

Fenceline Network:

- The real time fenceline air quality network was shut down for the winter season on November 30, 2017.
- There are no outstanding laboratory analyses of integrated 24-hour arsenic, PM<sub>10</sub>, and TSP filter samples collected at the fenceline sampling locations.
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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 analyses of community station filters collected after December 6, 2017 are pending;
- Laboratory analyses of asbestos samples collected at the community stations after December 6, 2017 are pending;
- There were no NO<sub>2</sub> concentrations measured at the Niven Lake community air monitoring station above the NWT Ambient Air Quality 24-Hour Standard of 106 parts per billion (ppb) or the 1-Hour Standard of 213 ppb during the week. Table 1 summarizes the daily hourly maximum concentrations and the daily 24-Hour average concentrations measured at the Niven Lake community station during the week.

Table 1

Niven Lake Community AQM Station NO<sub>2</sub> Concentrations

<b>Date</b>	<b>Maximum One-hour Average (ppb)</b>	<b>24-hour Average (ppb)</b>
January 07, 2018	1.1	0.5
January 08, 2018	2.2	0.9

January 09, 2018	2.4	0.9
January 10, 2018	11.6	2.6
January 11, 2018	12.4	2.0
January 12, 2018	21.3	8.3
January 13, 2018	13.7	3.6

-  
General Operation:

- The AQM program operated as specified during the week ending January 13, 2018, with the following exception:

A local power outage on January 11, 2018 resulted in the continuous PM<sub>10</sub> and PM<sub>2.5</sub> monitors at YCC not recording five hours of monitoring data.

Sincerely,

Geneva Irwin



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January 19, 2018

Distribution List

**RE: Air Quality Reports for the Week of January 13, 2018.**

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Sincerely,



Natalie Plato  
Deputy Director  
Giant Mine Remediation Project

c.c.: Distribution List