



PO BOX 1500  
YELLOWKNIFE NT X1A 2R3

January 5, 2021

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending December 19, 2020 is as follows:

Site Perimeter Monitoring Network

- Air Quality monitoring at the site perimeter stations was completed at 12:00 AM December 1, 2020 for the season.
- All laboratory analyses of integrated 24-hour arsenic, PM<sub>10</sub>, and TSP filter samples collected at the site perimeter stations have been reported.

Community Station Monitoring Network

- No continuous PM<sub>2.5</sub> or PM<sub>10</sub> 24-hour average concentrations above the referenced standards for each were measured at any of 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 November 26, 2020 are pending.
- There were no NO<sub>2</sub> concentrations measured at the Niven Lake community station above the NWT Ambient Air Quality 24-hour standard of 106 parts per billion (ppb) or the one-hour standard of 213 ppb during the week. Table 1 summarizes each day's maximum hourly concentration and each day's 24-hour average concentration at the Niven Lake community station during the week.

**Table 1  
Niven Lake Community Station NO<sub>2</sub> Concentrations**

<b>Date</b>	<b>Maximum One-hour Average (ppb)</b>	<b>24-hour Average (ppb)</b>
December 13, 2020	24.4	6.9
December 14, 2020	18.5	6.6
December 15, 2020	16.5	7.6
December 16, 2020	20.7	7.8
December 17, 2020	14.6	3.5
December 18, 2020	18.8	5.2
December 19, 2020	8.6	2.3



## General Operation

- Integrated sampling for TSP, PM<sub>10</sub>, and trace metals was conducted on December 17, 2020. The next regularly scheduled sampling date is December 23, 2020.
- The AAQM program operated as specified during the week ending December 19, 2020, with the following exceptions:
  - Two hours of PM<sub>2.5</sub> data were invalidated at the YKB community station on both December 14, 2020 due to reported concentrations of less than -3 µg/m<sup>3</sup>.
  - Three hours of PM<sub>10</sub> data were invalidated at the NVN community station on December 16, 2020 due to a tape break in the instrument.

Sincerely,

A handwritten signature in blue ink that reads "Natalie Plato".

Natalie Plato  
Deputy Director  
Giant Mine Remediation Project  
c.c.: Distribution List