



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

January 21, 2021

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending January 16, 2021 is as follows:

Community Station Monitoring Network

- No continuous PM_{2.5} or PM₁₀ 24-hour average concentrations above the referenced standards for each were measured at any of the community stations during the week. PM_{2.5} and PM₁₀ concentrations during the week were typically representative of seasonal background concentrations.
- Laboratory results for integrated TSP, PM₁₀, and trace metals analyses from samples collected on December 29, 2020, January 4, and 10, 2021 at the community stations were less than the analytical detection limit and/or below referenced standards. Laboratory analyses of community station filters collected after January 10, 2021 are pending.
- There were no NO₂ 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 NO₂ Concentrations

Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
January 10, 2021	19.0	4.0
January 11, 2021	9.3	3.9
January 12, 2021	30.7	7.5
January 13, 2021	1.0	0.4
January 14, 2021	18.0	3.9
January 15, 2021	5.8	1.1
January 16, 2021	2.1	1.0

General Operation



- Integrated sampling for TSP, PM₁₀, and trace metals was conducted on January 10 and 16, 2021. The next regularly scheduled sampling date is January 22, 2021.
- The AAQM program operated as specified during the week ending January 16, 2021, with the following exceptions:
 - One hour of PM₁₀ and PM_{2.5} data at NVN, NDL, and YKB community stations were invalidated on January 11, 2021 during monthly quality control checks.
 - One hour of PM₁₀ data were invalidated at the YKB community station on January 15, 2021 due to reported concentrations of less than -3 µg/m³.

Sincerely,

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

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