



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

November 27, 2020

Distribution List

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending November 21, 2020 is as follows:

Site Perimeter Monitoring 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 site perimeter monitoring stations during the week. PM₁₀ concentrations measured at the site perimeter monitoring locations during the week were typical of seasonal background concentrations;
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL of 333 µg/m³ were measured at the site perimeter monitoring stations during the week. TSP concentrations measured at the site perimeter monitoring locations during the week were typical of seasonal background concentrations;
- Laboratory results for integrated TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on November 2, 8, and 11, 2020 at the site perimeter monitoring stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of integrated filter samples collected at the site perimeter stations on November 5 and after November 11, 2020 are pending.

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 (including arsenic) analyses from samples collected on October 30, November 2, and 5, 2020 at the community stations were less than the analytical detection limit and/or below the referenced standard;
- 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)
November 15, 2020	3.2	0.6
November 16, 2020	14.9	4.4
November 17, 2020	23.8	4.3
November 18, 2020	1.8	0.4
November 19, 2020	24.4	10.2
November 20, 2020	29.2	9.4
November 21, 2020	2.5	0.0

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals (including arsenic) was conducted on November 17 and 20, 2020. The next regularly scheduled sampling is November 23, 2020;
- Data completeness for the reporting period was 99.36% for continuous TSP and 99.52% for continuous PM₁₀ concentrations measured at the site perimeter monitoring stations;
- The AAQM program operated as specified during the week ending November 21, with the following exception:
 - Monthly quality control checks were completed on November 18, 2020 at NDL and NVN, and on November 19, 2020 at YKB, requiring the invalidation of one hour of PM_{2.5} and PM₁₀ data at each station;
 - The PM₁₀ and TSP sampler at site perimeter station E-A1C1 did not record data from 10:30 to 13:00 MST on November 21, 2020 due to a battery failure.

Sincerely,



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