



PO BOX 1500
YELLOWKNIFE NT X1A 2R3

June 24, 2020

Distribution List

Giant Mine Remediation Project Ambient Air Quality Monitoring Program summary for the week ending June 13, 2020

A summary of the Giant Mine Remediation Project ambient air quality monitoring program for the week ending June 13, 2020 is as follows:

Site Perimeter Stations

- 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 analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the site perimeter stations after May 27, 2020 are pending.

Community Stations

- 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 analyses of community station filters collected after May 27, 2020 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)
June 07, 2020	0.5	0.2
June 08, 2020	0.5	0.2
June 09, 2020	0.8	0.3
June 10, 2020	1.2	0.4
June 11, 2020	0.9	0.5
June 12, 2020	1.0	0.3
June 13, 2020	0.7	0.1

General Operation

- Integrated sampling for TSP, PM₁₀, and trace metals (including arsenic) was conducted on June 8 and 11, 2020. The next regularly scheduled sampling is June 14, 2020;
- Data completeness for the reporting period was 99.50% for continuous TSP and 99.64% for continuous PM₁₀ concentrations measured at the site perimeter monitoring stations;
- The AAQM program operated as specified during the week ending June 13, 2020, with the following exception:
 - Station I-South Pond PM₁₀ and TSP samplers did not report data from 14:00-17:30 MST due to AC power failure.

Sincerely,



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