

From: [Garbutt, Nicole \(AADNC/AANDC\)](#)
Subject: Giant Mine ambient AQMP summary report for the week ending January 12, 2019
Date: January 22, 2019 2:40:18 PM
Attachments: [January 12.pdf](#)

Good afternoon,

A summary of the Giant Mine ambient air quality monitoring program (AQMP) for the week ending January 12, 2019 is attached and as follows:

Fence Line Network:

- Air Quality monitoring at the fence line stations was completed at 12:00 AM December 19, 2018;
- Laboratory results for TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on December 10, 2018 at the fence line stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the fence line stations after December 10, 2018 are pending.

Community Stations:

- No real-time 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;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on December 10, 2018 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of community station filters collected after December 10, 2018 are pending;
- Laboratory analyses of asbestos samples collected at the community stations after December 10, 2018 are pending;
- There were no NO₂ 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.

Niven Lake Community AQM Station NO₂ Concentrations

	Maximum One-hour Average	24-hour Average
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Date	(ppb)	(ppb)
January 06, 2019	1.6	0.8
January 07, 2019	24.3	7.8
January 08, 2019	11.6	4.9
January 09, 2019	4.9	2.5
January 10, 2019	2.2	1.5
January 11, 2019	5.0	2.6
January 12, 2019	28.5	3.3

C5-09 Slope Stabilization Program:

- Air Quality monitoring associated with the C5-09 slope stabilization program was completed at 12:00 AM December 19, 2018;
- Laboratory analyses of C5-09 PM₁₀ and arsenic filter samples collected on December 10, 2018 were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of C5-09 PM₁₀ and arsenic filter samples collected after December 10, 2018 are pending.

General Operation:

- The AQM program operated as specified during the week ending January 12, 2019.

Nicole Garbutt

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January 21, 2019

Distribution List

RE: Air Quality Reports for the Week of January 12 2019 .

A summary of the Giant Mine ambient air quality monitoring program (AQM) for the week ending January 12, 2019 is as follows:

Fence Line Network:

- Air Quality monitoring at the fence line stations was completed at 12:00 AM December 19, 2018;
- Laboratory results for TSP, PM₁₀, and trace metals (including arsenic) analyses from samples collected on December 10, 2018 at the fence line stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of integrated 24-hour arsenic, PM₁₀, and TSP filter samples collected at the fence line stations after December 10, 2018 are pending.

Community Stations:

- No real-time 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;
- Laboratory results from TSP, PM₁₀, and trace metals (including arsenic) samples collected on December 10, 2018 at the community stations were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of community station filters collected after December 10, 2018 are pending;
- Laboratory analyses of asbestos samples collected at the community stations after December 10, 2018 are pending;
- There were no NO₂ 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.

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Date	Maximum One-hour Average (ppb)	24-hour Average (ppb)
January 06, 2019	1.6	0.8
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January 12, 2019	28.5	3.3

C5-09 Stope Stabilization Program:

- Air Quality monitoring associated with the C5-09 stope stabilization program was completed at 12:00 AM December 19, 2018;
- Laboratory analyses of C5-09 PM₁₀ and arsenic filter samples collected on December 10, 2018 were less than the analytical detection limit and/or below the referenced standard. Laboratory analyses of C5-09 PM₁₀ and arsenic filter samples collected after December 10, 2018 are pending.

General Operation:

- The AQM program operated as specified during the week ending January 12, 2019.

Sincerely,



Natalie Plato
Giant Mine Remediation Project

c.c.: Distribution List