

## MVLWB Registry

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**From:** Adrian Paradis <Adrian.Paradis@aandc-aadnc.gc.ca>  
**Sent:** Monday, June 1, 2015 4:42 PM  
**To:** GiantMine  
**Cc:** Aaron Braumberger; Chris MacInnis; Danielle Jeddore; Jane Amphlett; Katherine Ross; Adrian Paradis; Benny Nordahn; Jennifer Lukas; Lisa Colas; Michael Roesch; Natalie Plato; info@alternativenorth.ca; wrivers@aptn.ca; Matthew Spence; elizabeth.mcmillan@cbc.ca; joanne.stassen@cbc.ca; jesse@dcnwt.com; ron@dcnwt.com; czoechocolate@denenation.com; mcintyre@denendeh.ca; bobmurphy@detoncho.com; morag.mcpherson@dfo-mpo.gc.ca; dave.colbourne@dxbprojects.ca; scellis@eastarm.com; screeningofficer@eastarm.com; ec.ea.nwt@ec.gc.ca; admin@ecologynorth.ca; mrendell@edgeyk.ca; aplutselke@gmail.com; Carolc.lands@gmail.com; cody.drygeese@gmail.com; craigyeo@gmail.com; gordon.hamre@gmail.com; goyatiko@gmail.com; iriscatholique@gmail.com; jen.potten@gmail.com; lesleyajohnson@gmail.com; lindamaljan@gmail.com; lkdfn.executiveChiefandCouncil@gmail.com; lkdfnlands@gmail.com; nyra.mac08@gmail.com; peter.fast@gmail.com; ryansilke@gmail.com; sao.lkdfn@gmail.com; sombakpadding@gmail.com; topfccayprogram@gmail.com; wendylahey@gmail.com; Amy\_Lizotte@gov.nt.ca; Bob\_Bromley@gov.nt.ca; Bob\_Mcleod@gov.nt.ca; catherine.lafferty@gov.nt.ca; Charlene\_Coe@gov.nt.ca; Charlotte\_Henry@gov.nt.ca; daryl.dolynny@gov.nt.ca; david\_ramsay@gov.nt.ca; Duane\_Fleming@gov.nt.ca; erika\_nyssonen@gov.nt.ca; glen\_abernethy@gov.nt.ca; Glen\_MacKay@gov.nt.ca; gnwt\_ea@gov.nt.ca; grant\_pryznyk@gov.nt.ca; haylee\_carlson@gov.nt.ca; iqbal\_arshad@gov.nt.ca; jackson\_lafferty@gov.nt.ca; jaysen\_knight@gov.nt.ca; katherine\_robinson@gov.nt.ca; matthew\_seaboyer@gov.nt.ca; michael\_miltenberger@gov.nt.ca; monique\_robitaille@gov.nt.ca; nora\_sangris@gov.nt.ca; Patrick\_Clancy@gov.nt.ca; Rhonda\_Batchelor@gov.nt.ca; robert\_hawkins@gov.nt.ca; Robert\_Jenkins@gov.nt.ca; russell\_teed@gov.nt.ca; wendy\_bisaro@gov.nt.ca; bjdrygeese@hotmail.com; cnooneesans@hotmail.com; gamble\_bob@hotmail.com; ivorydettah\_21@hotmail.com; kelly.cumming@hotmail.com; m\_mackenzie2007@hotmail.com; shirleydno@hotmail.com; whitehouse\_simon@hotmail.com; walth@internorth.com; hrdb@katlodeeche.com; kfnceo@katlodeeche.com; jennifer2010@live.ca; linds.armer@mac.com; csilzer@mail.ycs.nt.ca; executivedirector@miningnorth.com; 100news@moosefm.com; mike@moosefm.com; ollie@moosefm.com; fcatholique@msn.com; permits@mvlwb.com; tyree@mvlwb.com; royshields@netkaster.ca; bryant@nnsf.com; editorial@nnsf.com; execassist.nwtmn@northwestel.net; forsmithmetiscouncil@northwestel.net; frmc@northwestel.net; hrnc@northwestel.net; lma\_dkfn@northwestel.net; president.nwtmn@northwestel.net; rcc.nwtmn@northwestel.net; Sao\_enterprise@northwestel.net; wpfm@northwestel.net; billenge@nsma.net; heritage@nsma.net; shin.shiga@nsma.net; carolinam@nunalogistics.com; mikeb@nunalogistics.com; director@nwtca.ca; admin@nwtchamber.com; dennis.bevington.c1@parl.gc.ca; dennis.bevington.c1a@parl.gc.ca; colin.campbell@parsons.com; james.carss@parsons.com; Belinda.Campbell@pwgsc-tpsgc.gc.ca; Chris.Doupe@pwgsc-tpsgc.gc.ca; David.Hango@pwgsc-tpsgc.gc.ca; Linda.Pickett@pwgsc-tpsgc.gc.ca; robert.girvan@pwgsc-tpsgc.gc.ca; Sylvia.MacDonald@pwgsc-tpsgc.gc.ca; aehrlich@reviewboard.ca; chubert@reviewboard.ca; preliminaryscreening@reviewboard.ca; vchristensen@reviewboard.ca; robert@robert-wilson.ca; lands@slfn196.com; manager@slfn196.com; cbayly@ssimicro.com; loislutra@ssimicro.com;

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**Subject:** Water Licence MV2012L8-0010 – Air Quality Reports for the Week of May 23, 2015

**Attachments:** YELLOWKN-#689974-v1-giant\_monitoring\_air\_quality\_report\_for\_week\_of\_may\_23\_\_2015\_.pdf; Adrian Paradis.vcf

A summary of the Giant Mine ambient air quality monitoring program for the week ending May 23, 2015 is as follows:

#### Fenceline Network:

- Fenceline air quality monitoring started operations at all sites Friday April 10, 2015. Fenceline samplers are scheduled to run daily from 7 AM to 7 PM local time.
- There were no 15-minute average particulate matter less than 10 microns in diameter (PM<sub>10</sub>) concentrations measured above the established Risk Based Action Level (RBAL) criteria at the fenceline monitoring stations during the week. PM<sub>10</sub> concentrations measured at fenceline locations were typical of seasonal background concentrations.
- No 15-minute average total suspended particulate (TSP) concentrations above the established RBAL were measured at the fenceline monitoring stations during the week. TSP concentrations measured at fenceline locations were typical of seasonal background concentrations.

#### Community Stations:

- There were no continuous 24-hour average concentrations of particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>) and particulate matter less than 10 microns in diameter (PM<sub>10</sub>) above the referenced criteria measured at the community stations during the week.
- Laboratory results from available TSP, PM<sub>10</sub>, and trace metals (including arsenic) samples collected on April 6, 9, 12, 15, 27, and 30, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria with exception to a TSP and total iron exceedance at the NAPS community station on April 30, 2015. TSP and total iron concentrations at YCC and NDL community stations were more than seven times lower than concentrations at NAPS indicating the exceedances at NAPS were likely caused by sources in close proximity to the NAPS station. Laboratory analysis of community station filters collected on May 3, 6, 9, 12, and after May 15, 2015 are pending.
- Laboratory analytical results received for TSP, PM<sub>10</sub>, total inorganics (trace metals), and arsenic filter samples collected during the high wind event on May 15, 2015 at the community stations were below the referenced criteria. Elevated PM<sub>10</sub> concentrations measured at the Site D fenceline station and the E-Sampler T7 site at the South Tailings Pond were diluted well below referenced criteria by the time windblown dust reached community stations.

- Laboratory analytical results received for asbestos samples collected on April 18, 24, 27, May 3, 6, and May 15, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria. Laboratory results from asbestos samples collected at the community stations on April 15, 21, May 9, and after May 12, 2015 are pending.

#### Interim Underground Stabilization (IUS) (tailings work):

- Air quality monitoring at three (3) locations centred on surface drilling in the B1 Pit was initiated on May 9, 2015 in preparation for remediation injection of tailings and paste mix materials. An additional two (2) monitoring locations centred on the freeze plant surface drilling were added on May 18, 2015 and one (1) more monitor was added on May 20, 2015.
- Air quality monitoring at three (3) locations set on the west, north, and south perimeters of tailings work activities in the Central and South Tailings Ponds was initiated on May 12, 2015. Two (2) additional samplers were deployed on May 14, 2015 to the western perimeters of the North and Central Tailings Ponds.
- There were no 15-minute average PM<sub>10</sub> concentrations above the surface drilling RBAL (260 µg/m<sup>3</sup>) measured in the B1 Pit or freeze plant surface drilling during the week.
- There were no 15-minute average PM<sub>10</sub> concentrations above the tailings work RBAL (180 µg/m<sup>3</sup>) measured during the week.
- Analytical 24-hour arsenic results measured at four (4) locations on May 15, 2015 near in the area of the North, Central, and South Tailings Ponds are currently being confirmed.
- Analysis of archived filter results collected May 9 – May 23, 2015 for the monitoring of tailings work areas and surface drilling is pending and/or on hold pending request for analysis.

#### General Operations:

- The AQM program operated as specified during the week ending May 23, 2015.

Additional air quality information for the Giant Mine can be found on the NWT Air Quality Monitoring Network web page: <http://aqm.enr.gov.nt.ca>. For information on RBALs, TSP, PM<sub>10</sub> and for answers to other commonly asked questions about Air Quality Monitoring, please see the Giant Mine Remediation Project Team's [online FAQs](#).

Should you have any questions or comments, please contact Adrian Paradis by Telephone: (867) 669-2425 or by E-mail: [Adrian.Paradis@aandc-aadnc.gc.ca](mailto:Adrian.Paradis@aandc-aadnc.gc.ca).

Sincerely,

Adrian Paradis

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June 1, 2015

Mr. Willard Hagen, Chair  
Mackenzie Valley Land and Water Board  
7<sup>TH</sup> FLOOR – 4910, 50<sup>TH</sup> AVE., PO BOX 2130  
YELLOWKNIFE, NT X1A 2P6

**RE: Water Licence MV2012L8-0010 – Air Quality Reports for the Week of May 23, 2015**

Dear: Mr. Hagen,

This report is meant to satisfy commitments made in the May 21, 2013, responses to review comments on the roaster plans. Our commitment was to provide weekly summaries of the following data:

- PM<sub>10</sub> measurements captured by the contractor and the fence-line program;
- All other available and quality assured data, including TSP, trace elements (metals) and asbestos data.

In discussions with the Giant Mine Working Group, in lieu of the detailed weekly reports the project has decided to provide weekly summaries and a detailed monthly report. This is done to make the reporting more useful to users, while still maintaining the level of details previously provided.

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criteria at the fenceline monitoring stations during the week.  $PM_{10}$  concentrations measured at fenceline locations were typical of seasonal background concentrations.

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- Laboratory results from available TSP,  $PM_{10}$ , and trace metals (including arsenic) samples collected on April 6, 9, 12, 15, 27, and 30, 2015 at the community stations were less than the analytical detection limit and/or below the referenced criteria with exception to a TSP and total iron exceedance at the NAPS community station on April 30, 2015. TSP and total iron concentrations at YCC and NDL community stations were more than seven times lower than concentrations at NAPS indicating the exceedances at NAPS were likely caused by sources in close proximity to the NAPS station. Laboratory analysis of community station filters collected on May 3, 6, 9, 12, and after May 15, 2015 are pending.
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12, 2015. Two (2) additional samplers were deployed on May 14, 2015 to the western perimeters of the North and Central Tailings Ponds.

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Sincerely,

Adrian Paradis  
Regulatory Manager  
Giant Mine Remediation Project

c.c.: Distribution List