Navigating the GNWT Air Quality Monitoring Website

- General GNWT AQ Website:
  http://www.enr.gov.nt.ca/programs/air-quality

(General information, GNWT annual AQ reports & guidelines)

- Envista Air Quality Monitoring Network Website:
  http://aqm.enr.gov.nt.ca/

(View & download AQ data and Reports)

Northwest Territories

Environment and Natural Resources

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Air Quality

- Air and Precipitation Monitoring Network
- Annual Reports
- Kid and Teachers
- Monitoring Network
- Position Papers
- Regulations and Guidelines

Monitoring Network

ENR operates four state-of-the-art continuous ambient air quality monitoring stations across the NWT. Stations are located in Fort Smith, Inuvik, Norman Wells and Yellowknife. Each of these stations sample and analyze air quality on a continuous basis for a variety of parameters including dust and chemicals. The network is part of the National Air Pollution Surveillance Network (NAPS), a federal program operated across the country.

Data from our four stations is available in almost real-time to the public on the Air Quality Monitoring Program website. The site also provides information on the monitoring network, including current and historical air quality monitoring data and additional related information.

Link to Monitoring Data
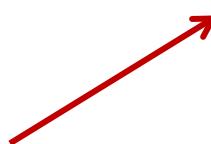
Maps

Current Air Quality

Data Reports

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Air Quality Standards

Parameters and Instruments

Creating Reports

Giant Mine PDF Reports

Giant Mine Program Summary

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- Click "Giant Mine Program Summary" under Information tab for AQ monitor locations and other Project info

Figure 1 – Roaster AQ Monitoring Station Locations

Figure 2 – Fenceline AQ Monitoring Station Locations
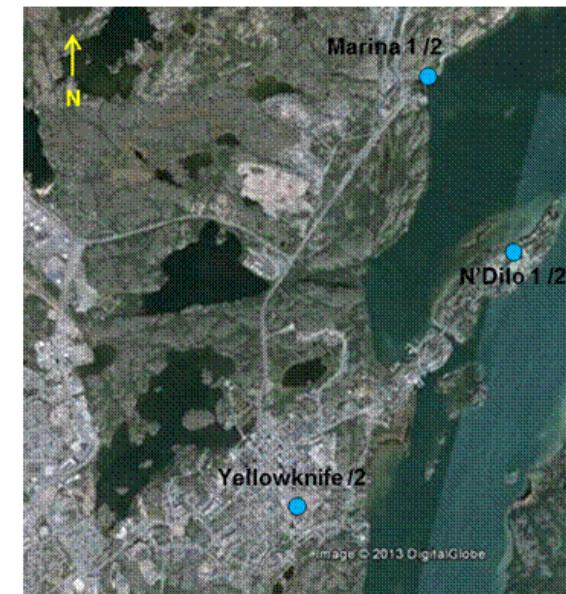
Figure 3 – Community Air Quality Monitoring Stations

Giant Mine PDF Reports

| Maps |
| Current Air Quality |
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Site Wide and Roaster Air Quality Monitoring - Weekly Reports	Monthly and Semi-Annual Report
May 4 - May 10, 2014	
April 27 - May 3, 2014	
April 20 - 26, 2014	
December 9 - 14, 2013	
December 2 - 7, 2013	
November 25 - 30, 2013	
November 18 - 23, 2013	

- Click "Giant Mine PDF Reports" under the information tab for weekly Giant Mine AQ monitoring updates

- Includes AQ data from the fenceline monitoring (Sites A-F), community monitoring (Stations NDL, YCC & NAPS) and roaster monitoring (Units 1-5) programs
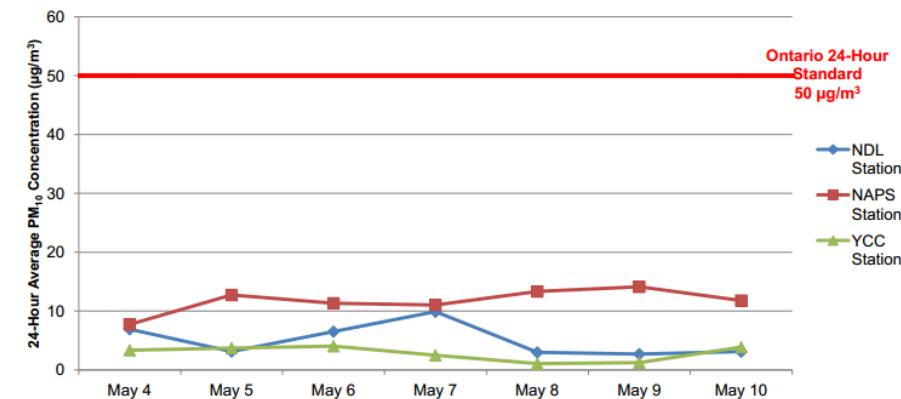

Figure 4: Community Stations 24-hour Average PM$_{10}$ Concentrations

SLR   6

NWT Air Quality Monitoring Network

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| GNWT Stations |
| Giant Mine Fenceline Stations |
| Giant Mine Community Stations |
| Giant Mine Roaster Perimeter Stations |
| Giant Mine Filter Samples |
| Giant Mine Met Station |
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Current Air Quality – GNWT Stations

📄 Text Export   🌐 HTML

Station	Date And Time	SO₂ ppb	H₂S ppb	NOₓ ppb	NO₂ ppb	NO ppb	O₃ ppb	CO ppm	PM₂.₅ ug/m3	PM₁₀ ug/m3
Fort Smith	5/15/2014 3:00 PM	0.4		1.2	0.8	0.3			3.0	31.0
Inuvik	5/15/2014 3:00 PM			8.9	5.5	3.5	34.7	0.156		58.0
Norman Wells	5/15/2014 3:00 PM		0.4						0.0	39.0
Yellowknife	5/15/2014 3:00 PM	0.32		1.9	1.0	1.0	35.8	0.141	3.0	19.0

Column headers with subscripts: SO_2, H_2S, NO_X, NO_2, NO, O_3, CO, $PM_{2.5}$, PM_{10}

In "Current Air Quality Results", cells that are missing a value represent data determined to be invalid or below laboratory detection limits. Cells with a grey background represent sites without the selected monitor.

Reported in standard time and represents averaged data from the hour prior (i.e. 2:00pm – 3:00pm)

- Click "GNWT Stations" under the Current Air Quality tab to view real-time continuous (hourly) PM data at the Yellowknife (NAPS) station

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Current Air Quality

GNWT Stations

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Giant Mine Community Stations

Giant Mine Roaster Perimeter Stations

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Current Air Quality – Giant Mine Community Stations

Excel   Text Export   HTML

Station	Date And Time	PM10 ug/m3	PM2.5 ug/m3
Marina 1	5/15/2014 3:00 PM	3.0	2.0
N'Dilo 1	5/15/2014 2:00 PM	4.0	4.0

In "Current Air Quality Results", cells that are missing a value represent data determined to be invalid or below laboratory detection limits. Cells without the selected monitor.

Click "Giant Mine Community Stations" under the Current Air Quality tab to view real-time continuous (hourly) PM data at the Marina (YCC) and N'Dilo (NDL) stations

Downloading AQ Data Reports

NWT Air Quality Monitoring Network
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Navigation menu:
- Maps
- Current Air Quality
- Data Reports
  - Station Report
  - Multi Station Report
  - Group
  - Wind Rose
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Form controls:

Report format: ○ Grid ○ Graph ○ 2Y ● Excel

Period: ○ Daily ○ Weekly ○ Monthly ● Periodic ○ Current

Owner: Giant Mine ▼
Stations: Site A ▼

☑ All Monitors
- ☑ PM10
- ☑ TSP
- ☑ Wind Speed
- ☑ Wind Dir
- ☑ Temperature

Start Date: 4/19/2014
Start Time: 00:00
End Date: 5/9/2014
End Time: 23:00
Type: Mean ▼
Time Base: 15 Minutes ▼

Generate Report

Annotations:

Select "Giant Mine" for fenceline & community station AQ data. Select "ENR" for Yellowknife NAPS AQ data

Select Station of interest: i.e. Marina1, N'Dilo 1 and Yellowknife (under ENR Owner) are hourly PM. Marina2, N'Dilo2 & Yellowknife2 are filter-based PM & metals data (24hr). Sites A-F are fenceline 15-minute PM. Roaster 2-7 are 15-minute PM.

Select individual monitors of interest or leave the "All Monitors" box checked to download all monitor data at the selected station

Select start date

Select end date

Select "mean"

Choose appropriate time base, i.e. 15 minutes for fenceline monitors (Site A-F) and roaster units (Roaster 2-7), 1 hour for continuous PM data at community stations (Marina 1, N'Dilo 1 & Yellowknife 1) and 24 hour for filter-based PM & Metals data at community stations (Marina 2, N'Dilo 2 & Yellowknife 2)

Viewing Wind Roses From NAPS Met Station

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● Wind Rose ○ Pollution Rose

○ Daily ○ Weekly ○ Monthly ● Periodic

Region
All

Station
Yellowknife

Monitor
SO2

Wind Direction
Wind Dir

Wind Speed
Wind Speed

Start Date 4/26/2014 — **Select start date**
Start Time 00:00
End Date 5/3/2014 — **Select end date**
End Time 12:00 AM
Time Base 1 Hour — **Select 1 Hour time base**

Calm 0.5
High Value 10
Classes 2
Sectors 4

Generate Report

Leave Region as "All"

Select "Yellowknife" Station (where Met station is located)

Leave Monitor box "as is"

Select "Wind Dir"

Select "Wind Speed"

Frequency (%)

Wind speed (m/s)

0.5-5.0 22 5.0-10.0 0 >10.0