



Peace Region Air Quality Survey

Data Collection: May – September 2010

Data Summary Report

June 17, 2011

Ministry of Environment

Mobile Air Monitoring Laboratory (MAML)

N.E. BC

Toms Lake

Ground Birch

Rolla

Farmington

Background

The Ministry of Environment's MAML, the mobile air monitoring laboratory, was deployed to monitor air quality in four communities in NE BC during 2010. The selected locations were Toms Lake, Ground Birch, Rolla, and Farmington. The MAML operated for approximately 3.5 weeks at each location from May 25 to September 10, 2010.

The MAML was used to collect data associated with possible health effects. The following parameters were measured: sulphur dioxide, nitrogen dioxide, carbon monoxide, ozone, total reduced sulphur, and particulate matter (PM).

Further information regarding the MAML is located at:

<http://www.bcairquality.ca/readings/maml.html>

MAML Project May 25 – September 10, 2010

Data Summary

The graphs below depict the data from May 25, 2010 to September 10, 2010 collected at Toms Lake, Ground Birch, Rolla, and Farmington. Ozone, particulate matter (PM2.5 and PM10), sulphur dioxide, total reduced sulphur, carbon monoxide, and nitrogen dioxide were monitored.

The particulate matter graphs are a 24 hour rolling average as the air quality objective is based on a 24 hour reading. Ozone exceedences are quite common in the spring and summer for a number of locations throughout the province. Aside from PM10 and PM2.5 exceedences which were associated with wildfire smoke, other pollutants were below the Level A objectives.

Toms Lake

MAML operated May 26 – June 21

2 exceedences of Level A 1-hour objective for ozone May 29.

Ground Birch

MAML operated June 23 – July 18

No exceedences of air quality objectives for ozone and particulate matter

Rolla

MAML operated July 20 – August 11

27 hours of PM2.5 exceedence due to August 06, 2010 wildfire smoke

5 hours of Ozone exceedences of Level A 1-hour objectives August 05.

Farmington

MAML operated August 13 – September 10

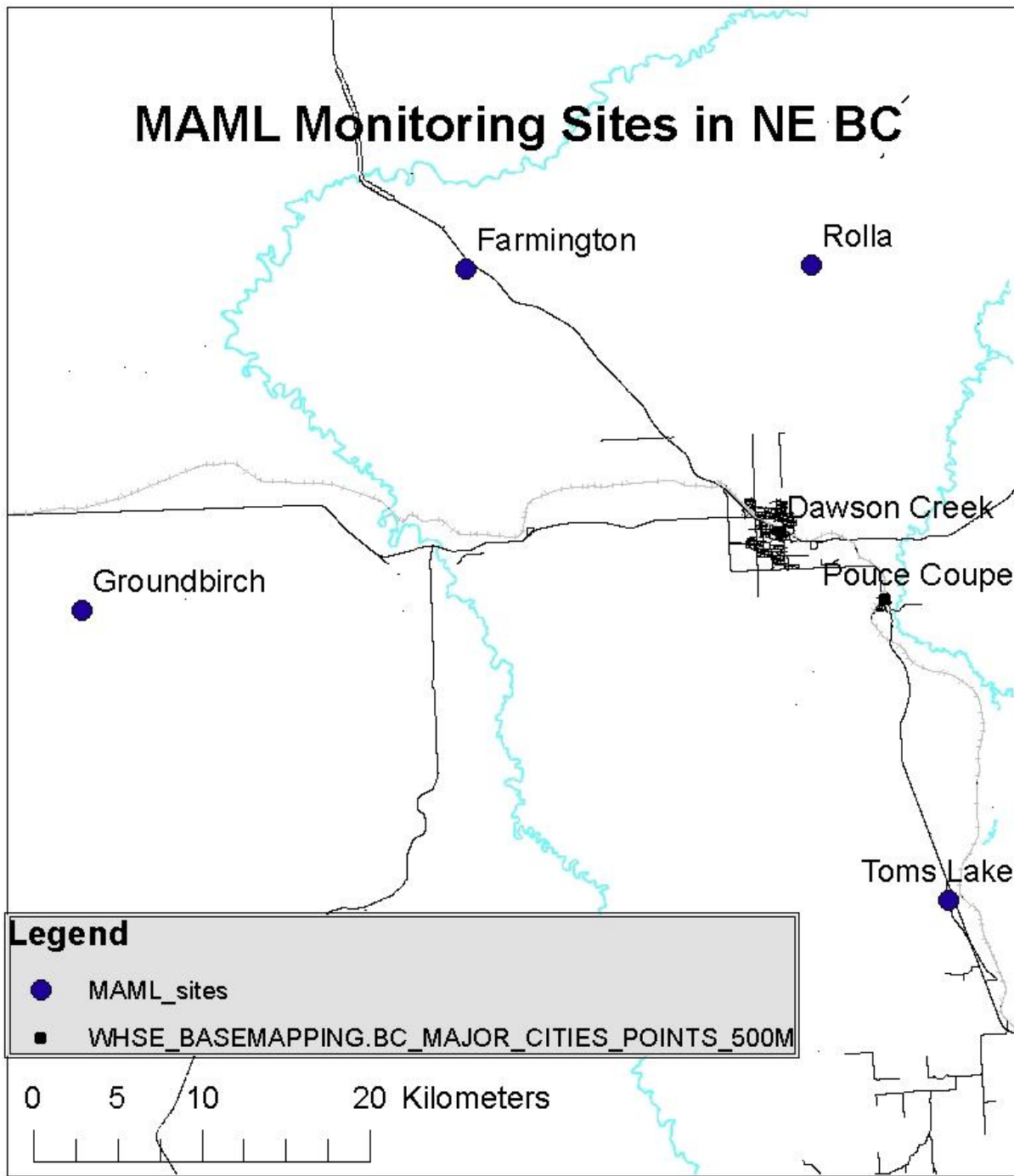
27 hours of PM2.5 exceedence due to August 22, 2010 wildfire smoke.

10 hours of PM10 exceedence due to August 22, 2010 wildfire smoke.

For questions regarding this data summary, please contact:

Stephen Lamble 250 565-6454 or Steve.Lamble@gov.bc.ca

MAML Monitoring Sites in NE BC



Legend

- MAML_sites
- WHSE_BASEMAPPING.BC_MAJOR_CITIES_POINTS_500M

0 5 10 20 Kilometers

