

ATMOSPHERIC DISPERSION MODELING

Applicable legislations:

Certificates of Approval are required by Section 9 of the [Ontario Environmental Protection Act](#).

O. Reg 419 (Air Pollution - Local Air Quality).

Atmospheric Dispersion Modelling (Modelling) is usually performed to check compliance with air quality standards when applying for a Certificate of Approval – Air and when creating an Emergency Preparedness Plans. Modelling is used to predict the down-wind contaminant concentration due to industrial discharge. Modern modelling programs often take into consideration, but are not limited to parameters like: wind velocity & direction, ambient temperature, stack elevation, building elevation, and emissions flow rate, terrain and receptor locations.

Recently, the MOE has made changes to O. Reg 419, which will come into effect on certain dates in 2010 and 2013. The changes require facilities whose North American Industrial classification System (NAICS) code is in Schedule 4 and 5 of the regulation to update their Modeling and Emission Summary Tables.

How Oakhill Can Help:

Oakhill Environmental has performed dispersion modeling for many clients. We also have carried out ALOHA (Areal Locations of Hazardous Atmospheres) modeling for emergency air releases.

In addition, Oakhill is qualified and able to provide the necessary updates to ensure your facility meets the requirements for the new O. Reg 419 requirements.

Dispersion Modeling Programs:

- O. Reg 346 model;
- O. Reg 419/05-AERMOD model; and
- ALOHA.

Call Oakhill for a free no obligation quote and to inquire about your facilities O. Reg 419 compliance dates.