

# Guidance for Compliance with Oakville By-Law 2010-035 on Airborne Fine Particulate Matter:

## Section 4 Emissions Reporting

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# Outline

- Development of Town Guide
- Overview of bylaw – s.4 reporting
- Purpose of s.4 Reporting
- Terms Used
- Who, When, What, How
- Appendices
- Focus Group Suggestions
- Town Assistance

## Town Guide for s.4 Reporting - Consultation

- Town issued draft Guidance document June 21<sup>st</sup>, 2010 to focus group
- Focus group meeting June 28<sup>th</sup>, 2010
- Feedback on:
  - Definitions; Confidentiality of data; Clarity; Timing; Additional suggestions
- First Stakeholder Session on July 15<sup>th</sup>

# Overview of the Bylaw

(Section 1 of the Town Guide)

**“The by-law seeks to safeguard the health, safety and well-being of persons in the Town of Oakville by gathering information on emission of fine PM and its precursors, and regulating major emitters of these pollutants.”**

# Overview of the Bylaw

(Section 1.1 of the Town Guide)

## **Section 4 Emissions Reporting**

- “where a facility may emit at least one health-risk air pollutant in a non-negligible quantity, its owner or operator shall report the emission to the town.”

## s.4 Reporting - Purpose

- Identify the overall emissions of health-risk air pollutants into Town air from stationary sources
- To provide data for Town-wide assessments of air quality

# Terms Used

(Section 1.2 of the Town Guide)

- “Facility” = a building, structure, equipment and other stationary items on a site or at a location that is under common operation, management, and/or control, but does not include:
  - (i) a residential site that contains less than 25 dwelling units; or,
  - (ii) a commercial, business or institutional site or location that is less than 0.1 ha in size

## Terms Used (cont'd)

- “Health-risk air pollutant” = fine particulate matter (PM<sub>2.5</sub>) and precursor pollutants:
  - NO<sub>x</sub>,
  - NH<sub>3</sub>,
  - SO<sub>2</sub> and
  - VOCs

# Added/Clarified Definitions

(Various sections of Guide)

- Volatility (optional)
- Negligibility
- Average and Worst-case daily and annual emissions
- Road dust

# Who needs to report?

(Section 2.1 of the Town Guide)

- Proposed and Existing –
  - (i) facility, and,
  - (ii) non-negligible emissions

# Exemptions

(Section 2.1 of the Town Guide)

- Not a “Facility”
- Emit only “negligible” emissions
- “Negligible” emission =
- <1 kg/year PM<sub>2.5</sub>,
- <10 kg/year for others
- Emergency Generator Periodic Testing

## By-law Phase-In

(Section 2.2 of the Town Guide)

- Existing facilities:
  - CofA holders must report before May 1, 2011
  - Non-CofA holders must report before Sep 1, 2012
  
- Proposed facilities:
  - (a) with Provincial CofA: within 30 days of receiving CofA
  - (b) without CofA: within 30 days of commencing emissions

## How often do you need to report?

(Section 2.3 of the Town Guide)

- Once
- But changes to facility emissions trigger an amended or new report “forthwith” (within 30 days of changed or new emission occurring)

# What you need to report I: Substances

(Section 2.4 of Town Guide)

- Health Risk Air Pollutants – PM<sub>2.5</sub>, NO<sub>x</sub>, NH<sub>3</sub>, SO<sub>2</sub> and VOCs
- VOCs = CEPA definition
- If VOCs are emitted provide emissions of toluene and xylene separately (if those species are emitted)

## What you need to report II: Numbers

- Daily emissions: average and worst-case emissions
- Annual emissions: average and worst-case emissions
- For all emission calculations:
  - Identify each source/point of emission
  - Identify method of estimating emissions
  - Provide all emissions calculations to the Town

## What you need to report III: Facility Info

(Section 2.4.1 of the Town Guide)

- Facility and Contact Information similar to NPRI
- Facility activities/process descriptions similar to requirements for CofA (i.e., use of ESDM descriptions)

# How do you submit reports?

(Section 2.4.2 of the Town Guide)

- Forms to report emissions from point sources (by stack)
- Form to report emissions from fugitive sources (e.g., storage piles, road dust)
- Form to report stack characteristics

## What will be Published/Confidentiality

(Section 2.4.2 of the Town Guide)

- Facility-wide emission will be posted
- Reporters may discuss information felt to be proprietary

# Where do you submit reports?

(Section 2.4.3 of the Town Guide)

- Postal and email addresses provided

# Appendices

- Bylaw
- Worked Example
- Oakville s.4 vs NPRI
- FAQs
- Listing of health-risk air pollutants
- Reporting Forms (available from Town website)
- References

## Worked Examples

- How to estimate worst case (maximum) and average daily and annual emissions of  $PM_{2.5}$ ,  $SO_2$ ,  $NO_x$ , VOC from Selected Sources
  - **A combustion source (Boiler)**
- More worked examples and Tools to come

## Main Additions Adopted from Focus Group

- Option for reporters to discuss consolidated annual reports
- Reporting and report amendment flowcharts
- Road dust reporting table modified
- Comparison table for s.4 reporting vs NPRI

## Town Assistance

- Town has staff here to assist you with addressing By-law requirements
- Especially for those running facilities that do not (i) have a Provincial CofA, or, (ii) report to NPRI, please contact Town staff for assistance
  - as to whether by-law could apply, or
  - where by-law applies, how to calculate emissions