## Substance & CAS No:
- Nitrogen Oxides: 11104-93-1
- Copper (and its compounds): N/A
- Manganese (and its compounds): N/A
- Carbon Monoxide: 630-08-0
- Particulate Matter ≤ 10 micron: N/A
- Particulate Matter ≤ 2.5 micron: N/A

## Facility Identification and Site Address
- **Company Name**: Essex Manufacturing
- **Facility Name**: Essex Engine Plant
- **Physical Address**: 1 Quality Way, Windsor, Ontario N9A 6X3
- **Mailing Address (if different)**: same as physical address
- **Spatial Coordinates of Facility**: 340918 m E, 4684629 m N, Expressed as UTM within NAD
- **Number of Employees**: 781
- **NPRI ID Number**: 3886
- **Ontario MOE ID Number**: -

## Parent Company Information
- **Parent Company Name**: Ford Motor Company of Canada Limited
- **Parent Company Address**: 100 The Canadian Road, Oakville, ON, L6J 5E4
- **Percent Ownership**: 100%

## Facility Public Contact
- **Name**: Blake Smith
- **Title**: Director EEVS
- **Email**: bsmith29@ford.com
- **Telephone #**: 905-845-2511 x.1209
- **Fax #**: 905-845-5360

## Toxic Substance Reduction Planner Information
- **Planner Responsible for Making Recommendations**: Shannon Belleau
  - **Company**: Dillon Consulting Limited
  - **License #**: TSRP0155
  - **Email**: sbelleau@dillon.ca
  - **Telephone #**: 519-948-5000 x.3258
  - **Fax #**: 519-948-5054
- **Location**: 3200 Deziel Drive Suite 606 Windsor, Ontario N8W 5K8

- **Planner Responsible for Certification**: Shannon Belleau
  - **Company**: Dillon Consulting Limited
  - **License #**: TSRP0155
  - **Email**: sbelleau@dillon.ca
  - **Telephone #**: 519-948-5000 x.3258
  - **Fax #**: 519-948-5054

## Primary North American Industrial Classification System Code (NAICS)
- **2-digit NAICS Code**: 33 (Manufacturing)
- **4-digit NAICS Code**: 3363 (Motor Vehicle Parts Manufacturing)
- **6-digit NAICS Code**: 336312 (Engines & Parts, Automotive & Truck, Manufacturing)
# O.Reg. 455/09 Toxic Substance Reduction Plan Summary

**Ford Motor Company of Canada - Essex Engine Plant**

## Plan Summary Statement

The plan summary accurately reflects the content of the toxic substance reduction plan for Nitrogen Oxides, prepared by Essex Engine Plant, dated December 18, 2013.

## Statement of Intent

Ford Motor Company of Canada intends to reduce the creation of Nitrogen Oxides at the Essex Engine Plant located in Windsor, Ontario by implementing selected reduction options.

## Objective

Essex Engine Plant will reduce the creation of Nitrogen Oxides by implementing equipment modifications and improved operating procedures.

## Description of Substance and Use/Creation

For a description of how, when, where and why Nitrogen Oxides are created, including quantifications for accounting and process flow diagrams, see the "2012 Toxic Substance Accounting for TRA & O.Reg. 455/09" Report, prepared by Dillon Consulting Limited and located at the Environmental Engineer's desk.

## Options to be Implemented

<table>
<thead>
<tr>
<th>Option Category</th>
<th>Option Description</th>
<th>Use</th>
<th>Creation</th>
<th>Release to Air</th>
<th>Release to Water</th>
<th>Release to Land</th>
<th>On-Site Disposal</th>
<th>Off-Site Disposal</th>
<th>Off-Site Recycle</th>
<th>Contained In Product</th>
<th>Timeline to Achieve Reductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Equipment or process modification</td>
<td>Continue to investigate reducing the temperature set points for natural gas equipment.</td>
<td>N/A</td>
<td>&lt;0.05 tonne/year</td>
<td>&lt;0.05 tonne/year</td>
<td>NA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>July 2015</td>
</tr>
<tr>
<td>3. Equipment or process modification</td>
<td></td>
<td></td>
<td>&lt;0.1%</td>
<td>&lt;0.1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Training or improved operating practices</td>
<td>Continue to instruct operating practices to improve natural gas heating equipment run-time and improve energy conservation communication to employees: 1) By assessing external temperatures and adjusting run-time accordingly; 2) By improving weekend &quot;turn down&quot; by identifying further areas that can be turned down or shut-off during weekend hours.</td>
<td>N/A</td>
<td>&lt;0.05 tonne/year</td>
<td>&lt;0.05 tonne/year</td>
<td>NA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>December 2014</td>
</tr>
<tr>
<td>7. Training or improved operating practices</td>
<td></td>
<td></td>
<td>&lt;0.1%</td>
<td>&lt;0.1%</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

## Certifications

**Highest Ranking Employee:** As of December 18, 2013, I, Shaun Whitehead, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

### Nitrogen Oxides

- **HRE:** Shaun Whitehead  
  **Date:** 12/18/13

### Toxic Substance Reduction Plan

As of December 18, 2013, I, Shaun Whitehead, certify that I am familiar with the processes at Essex Engine Plant that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, v of subsection 4(1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 18, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

### Nitrogen Oxides

- **TSRP:** Shaun Whitehead  
  **Date:** Dec 18, 2013