## O.Reg. 455/09 Toxic Substance Reduction Plan Summary
**Ford Motor Company of Canada - Essex Engine Plant**

### Facility Identification and Site Address

<table>
<thead>
<tr>
<th>Substance &amp; CAS No:</th>
<th>Other Substances at the Facility for which a Plan has been developed:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate Matter ≤ 10 micron</td>
<td>Copper (and its compounds)</td>
</tr>
<tr>
<td></td>
<td>Manganese (and its compounds)</td>
</tr>
<tr>
<td></td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td></td>
<td>Carbon Monoxide</td>
</tr>
<tr>
<td>Particulate Matter ≤ 2.5 micron</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Essex Manufacturing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Facility Name</strong></td>
<td>Essex Engine Plant</td>
</tr>
</tbody>
</table>

**Facility Address**
- **Physical Address**: 1 Quality Way, Windsor, Ontario, N8A 6X3
- **Mailing Address (if different)**: same as physical address

**Spatial Coordinates of Facility**: 340918 m E, 4684629 m N

<table>
<thead>
<tr>
<th>Number of Employees</th>
<th>781</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPRI ID Number</td>
<td>3886</td>
</tr>
</tbody>
</table>

**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%

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

### Primary North American Industrial Classification System Code (NAICS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Manufacturing</td>
</tr>
<tr>
<td>3363</td>
<td>Motor Vehicle Parts Manufacturing</td>
</tr>
<tr>
<td>336312</td>
<td>Engines &amp; Parts, Automotive &amp; Truck, Manufacturing</td>
</tr>
</tbody>
</table>

### Company Contact Information

**Facility public contact**
- **Name**: Blake Smith
- **Title**: Director EEVS
- **Email**: bsmith29@ford.com
- **Telephone #**: 905-845-2511 x.1209
- **Fax #**: 905-845-5360
- **The Canadian Road**: Oakville, Ontario, L6J 5E4

### Toxic Substance Reduction Planner Information

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

#### Planner Responsible for Certification
- **Name**: Shannon Belleau
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# O.Reg. 455/09 Toxic Substance Reduction Plan Summary

## Ford Motor Company of Canada - Essex Engine Plant

### Plan Summary Statement

This plan summary accurately reflects the content of the toxic substance reduction plan for Particulate Matter ≤ 10 micron, prepared by Essex Engine Plant, dated December 18, 2013.

### Statement of Intent

Ford Motor Company of Canada intends to reduce the creation of Particulate Matter ≤ 10 micron at the Essex Engine Plant located in Windsor, Ontario by implementing selected reduction options.

### Objective

Essex Engine Plant will reduce the creation of Particulate Matter ≤ 10 micron by implementing improved operating procedures and training efforts with a goal of improving department specific first time through numbers.

### Description of Substance and Use/Creation

For a description of how, when, where and why PM10 is 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>Estimated Reductions (tonnes/yr and %)</th>
<th>Timeline to Achieve Reductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Equipment or process modification</td>
<td>Replace/Upgrade cooling tower (CT-1 or CT-3) in the site.</td>
<td>N/A</td>
<td>&lt;0.2 tonnes/yr</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>7. Training or improved operating practices</td>
<td>Continue to improve operating procedures and associated employee training programs to reduce the volume of scrap and improve “first time through” numbers.</td>
<td>N/A</td>
<td>&lt;1 tonnes/yr</td>
<td>N/A</td>
<td>&lt;1%</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Certifications (s. 19)

**High Rank Operating 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.

Particulate Matter ≤ 10 micron.

_HRE: [Signature] Date: 12-18-13_

**Toxic Substance Reduction Planner**

As of December 18, 2013, I, Shannon Belline, 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, and 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.

Particulate Matter ≤ 10 micron.

_TSRP: [Signature] Date: Dec 8 2013_