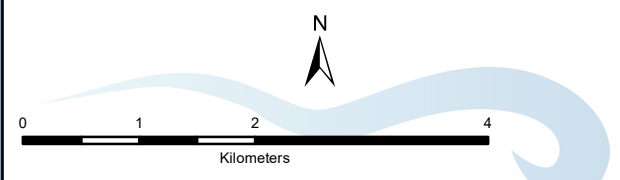


**Cobourg  
Surface Water Supply  
Ganaraska Region Source  
Protection Area**

**Intake Protection Zones  
& Vulnerability Scores**

**Legend**

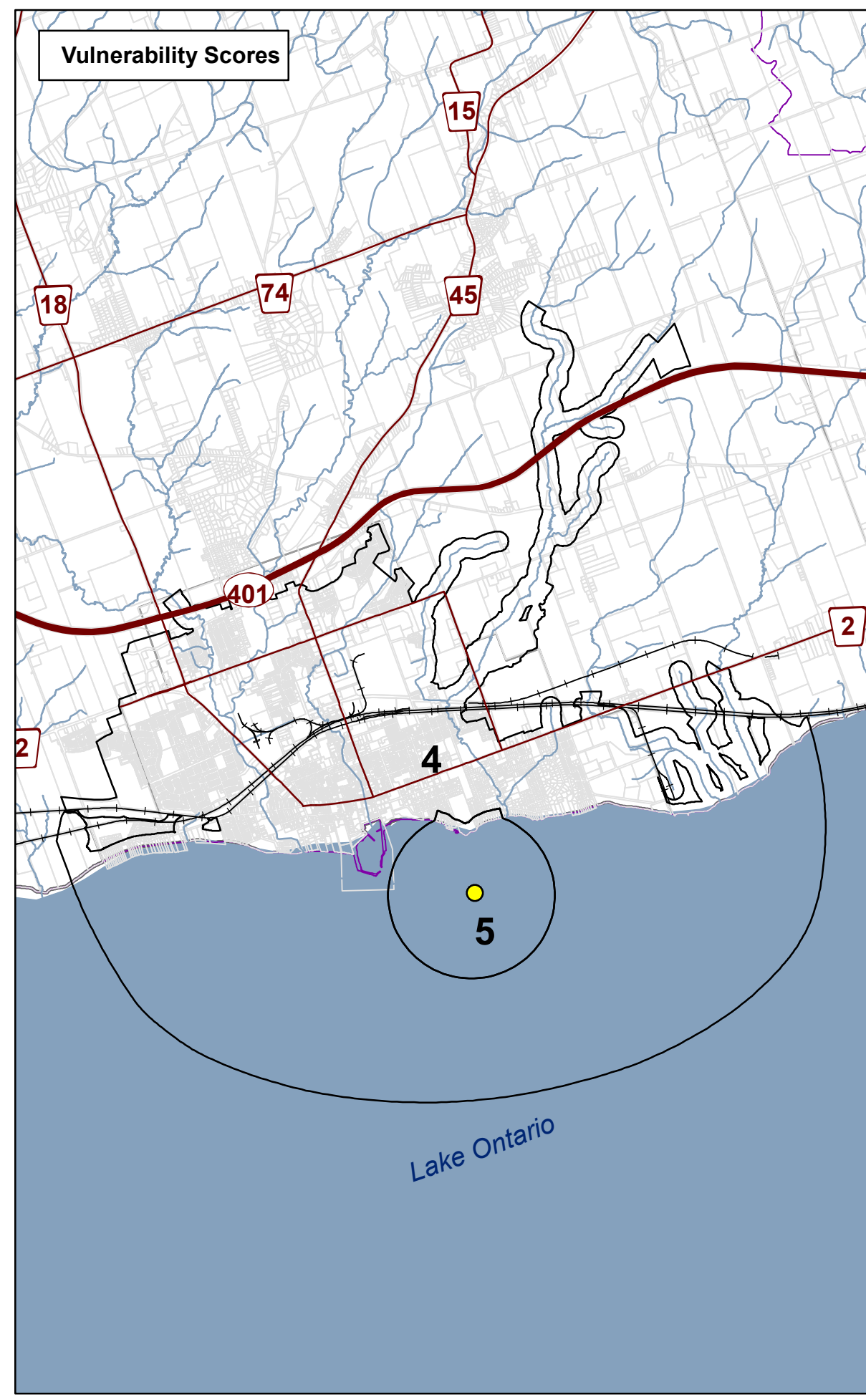
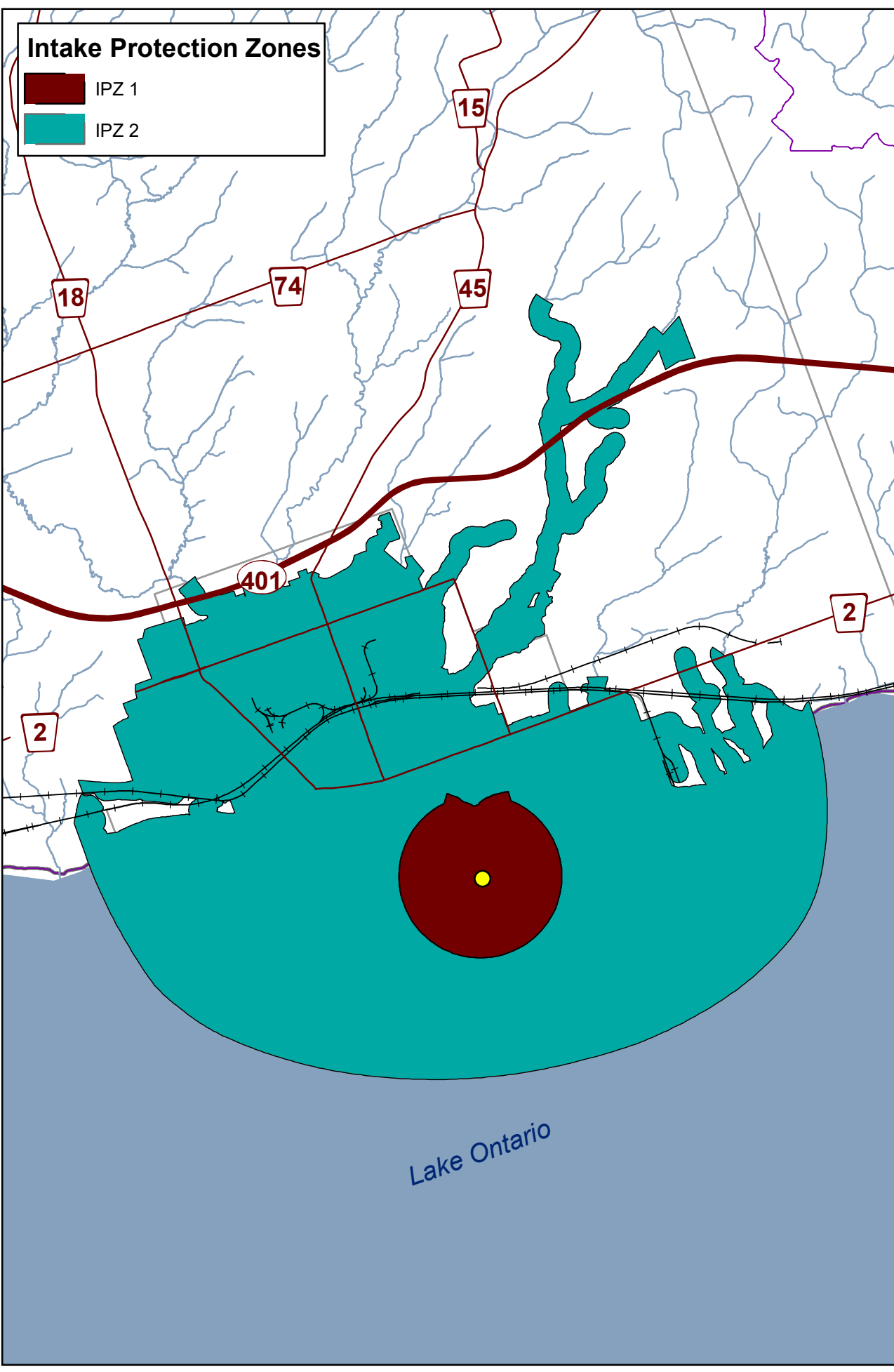
- Surface Water Intake
- Road
- Highway
- Multi-Lane Highway
- +— Railway
- Watercourse
- Waterbody
- IPZ 1 and 2
- Source Protection Area
- Property Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality



**Trent Conservation Coalition  
Source Protection Region**  
[www.trentsourceprotection.on.ca](http://www.trentsourceprotection.on.ca)

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






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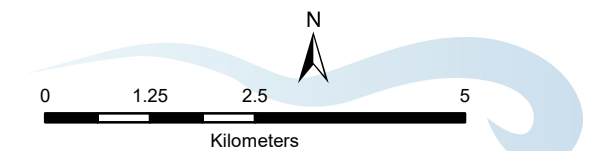


**Cobourg Surface Water Supply  
Ganaraska Region Source Protection Area**

**Managed Land, Livestock Density & Total Impervious Surface Area**

**Legend**

-  Surface Water Intake
-  Road
-  Highway
-  Multi-Lane Highway
-  Railway
-  IPZ 1 and 2
-  Watercourse
-  Waterbody
-  Source Protection Area Boundary
-  Property boundary
-  Upper and Single Tier Municipality
-  Lower Tier Municipality

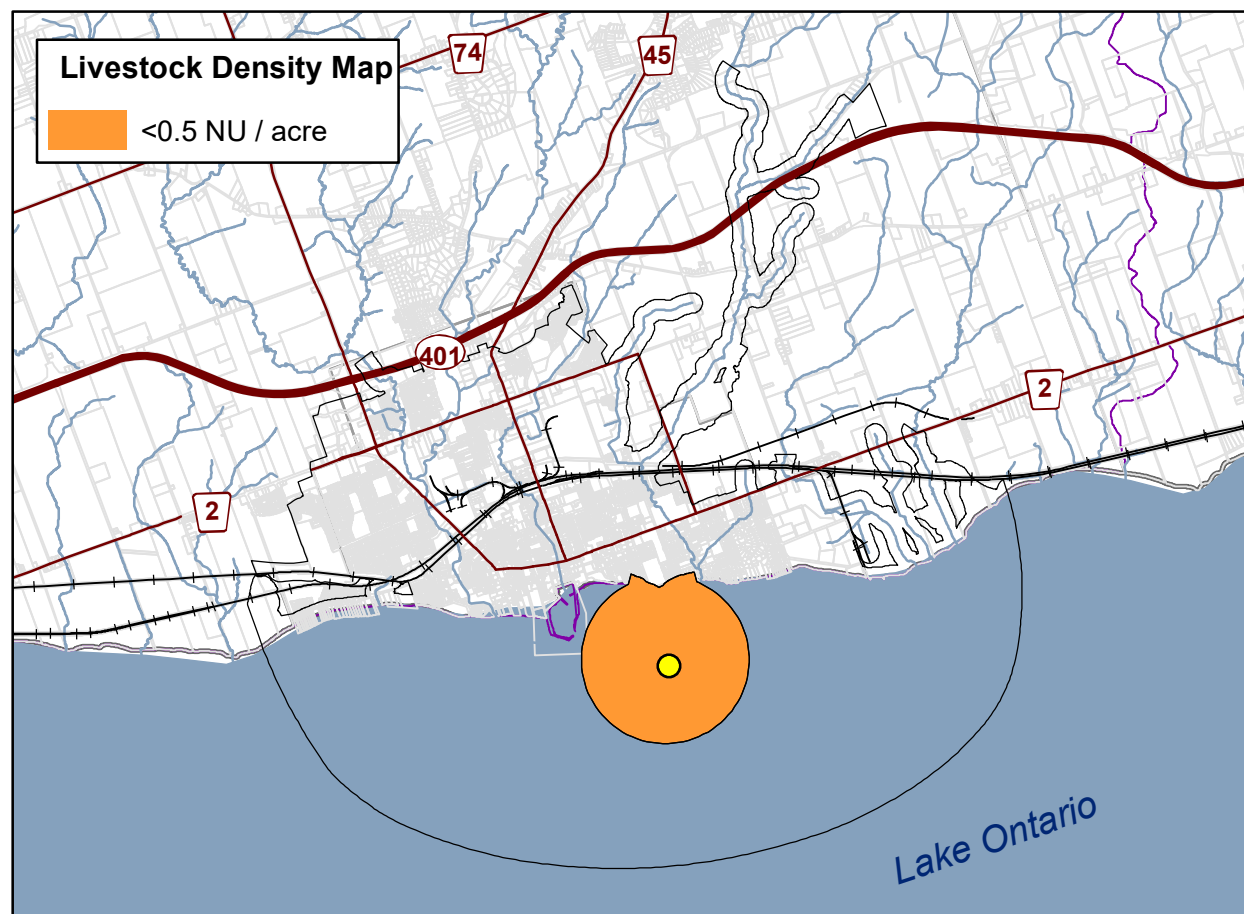
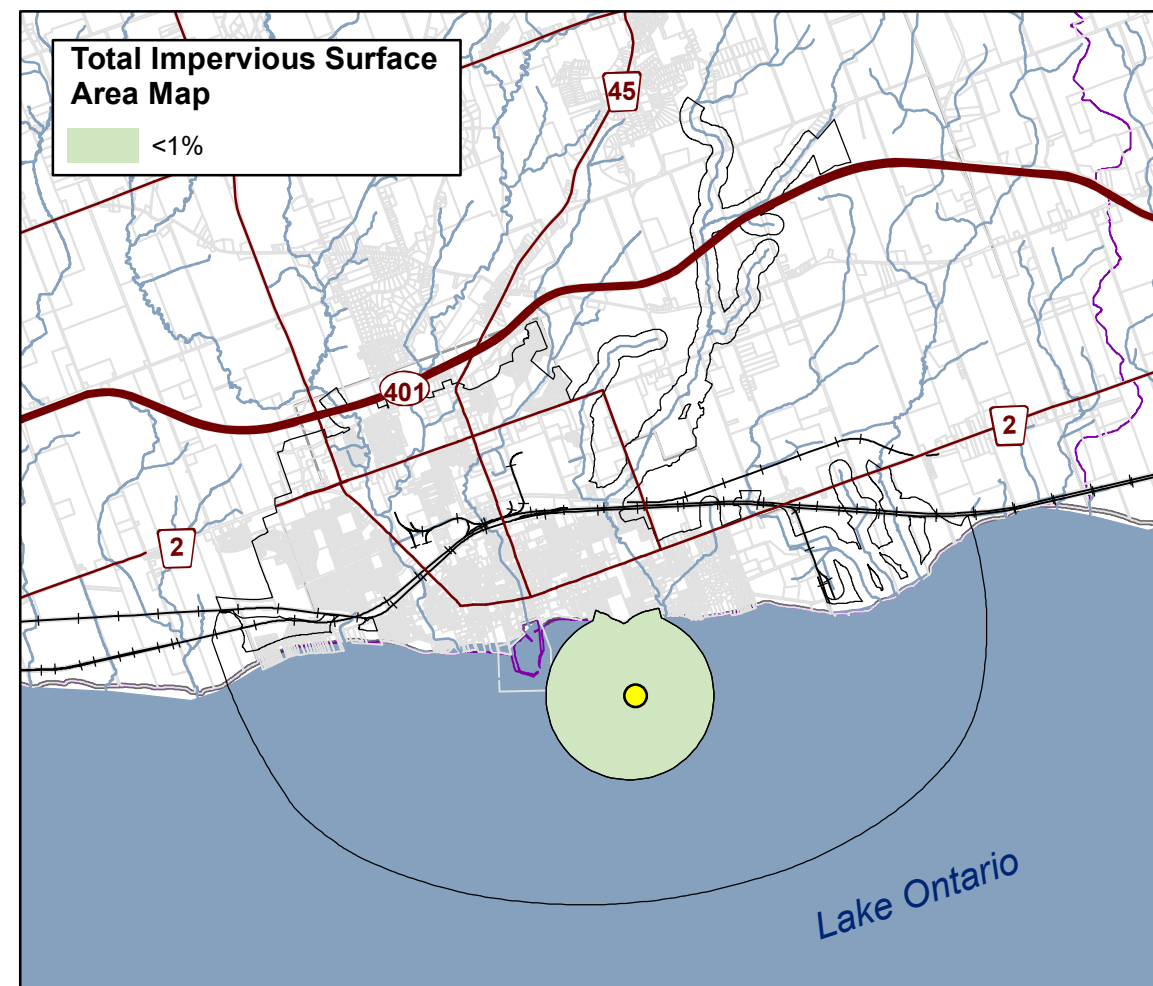
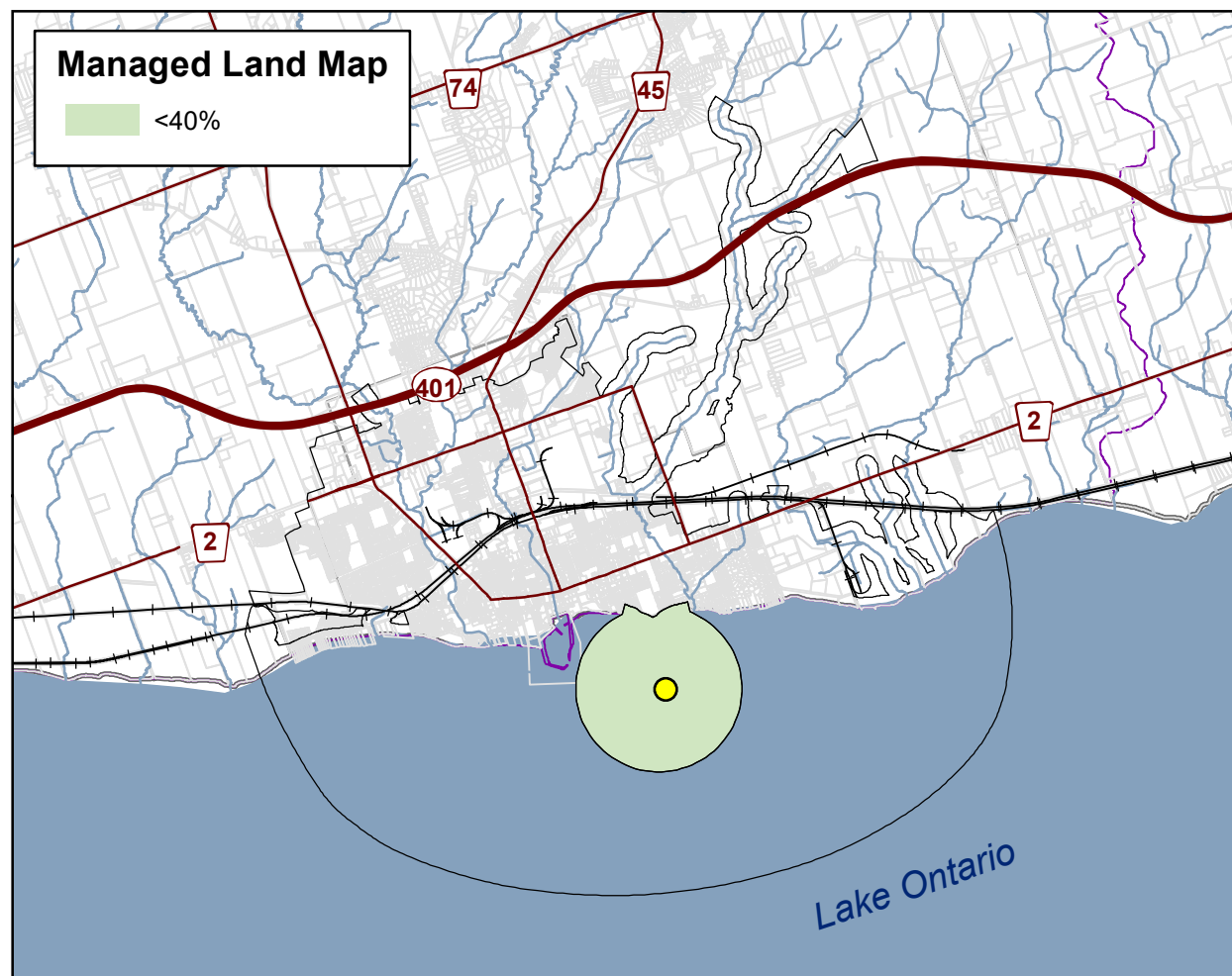


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







PRODUCED BY Ganaraska Region Conservation Authority on behalf of the Trent Conservation Coalition Source Protection Committee, March 2011, with data supplied under licence by members of the Ontario Geospatial Data Exchange.

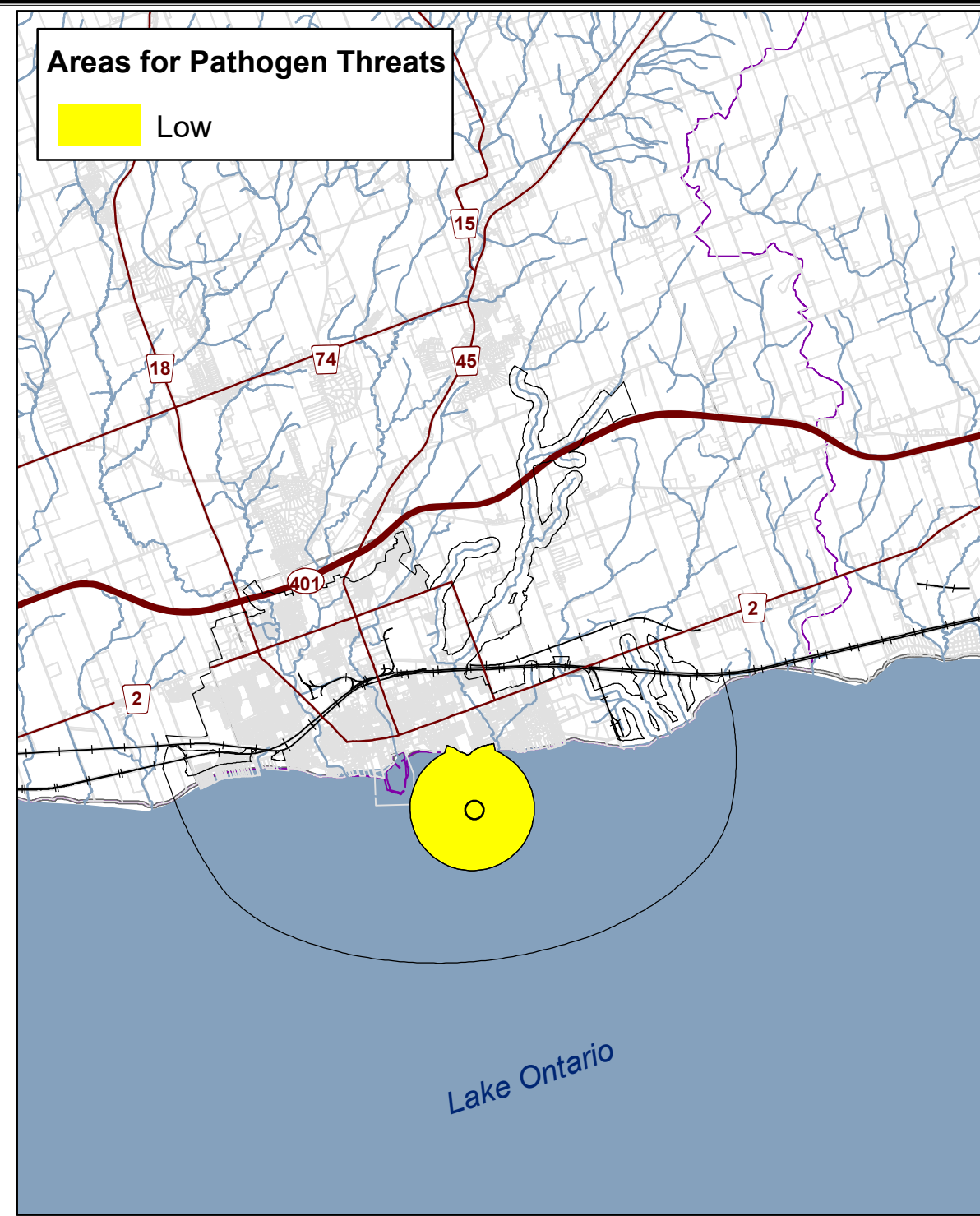
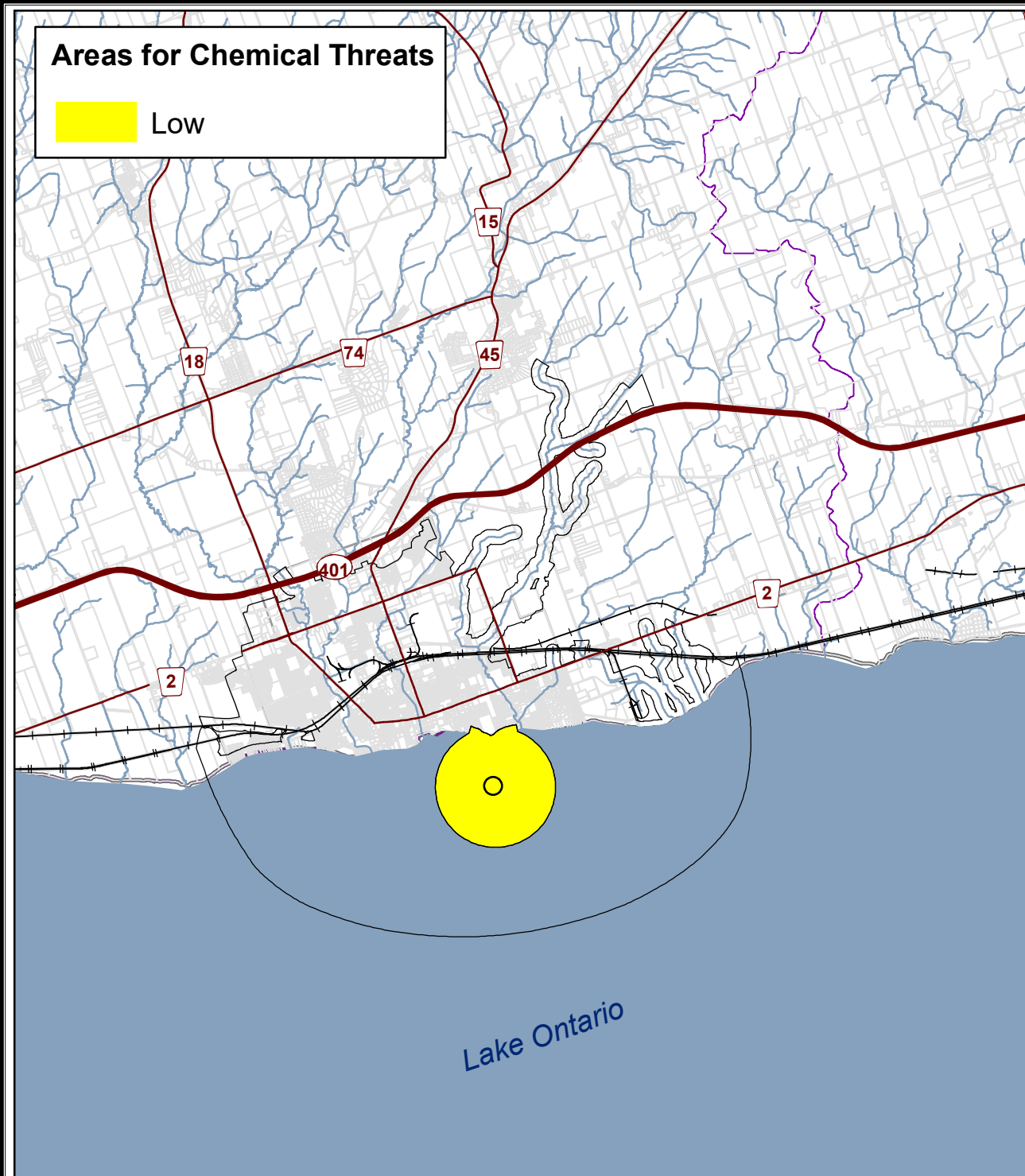
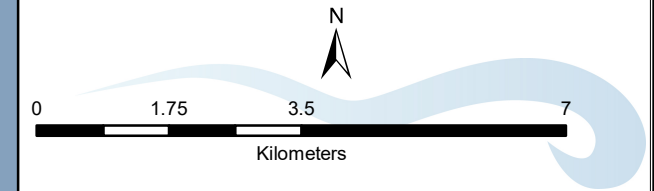



**Cobourg Surface Water Supply  
Ganaraska Region Source  
Protection Area**


**Areas of Significant, Moderate  
& Low Drinking Water Threats  
(Chemical & Pathogen Threats)**

**Legend**

-  Surface Water Intake
-  Road
-  Highway
-  Multi-Lane Highway
-  Railway
-  IPZ 1 and 2
-  Waterbody
-  Watercourse
-  Property Boundary
-  Source Protection Area Boundary
-  Upper and Single Tier Municipality
-  Lower Tier Municipality



| CHEMICAL THREATS   |                                   |          |   |
|--|-----------------------------------|----------|---|
| Area   | Provincial Table of Circumstances |          |   |
|  | Significant                       | Moderate | Low   |
|  | -                                 | -        | Table 74 (CIPZW ESL)<br>Local Threat -Table 4.4-2 |

| PATHOGEN THREATS   |                                   |          |                    |
|--|-----------------------------------|----------|--------------------|
| Area   | Provincial Table of Circumstances |          |                    |
|  | Significant                       | Moderate | Low                |
|  |                                   |          | Table 69 (PIP Z5L) |

These tables indicate where chemical and pathogen threats are (or would be for future activities) significant, moderate, or low in the Intake Protection Zone. The table numbers and codes refer to the Provincial Table of Circumstances that list the circumstances under which these threats can be significant, moderate, or low. The Provincial Table of Circumstances can be accessed from: <http://www.ene.gov.on.ca/en/water/cleanwater/provincialtables.php>

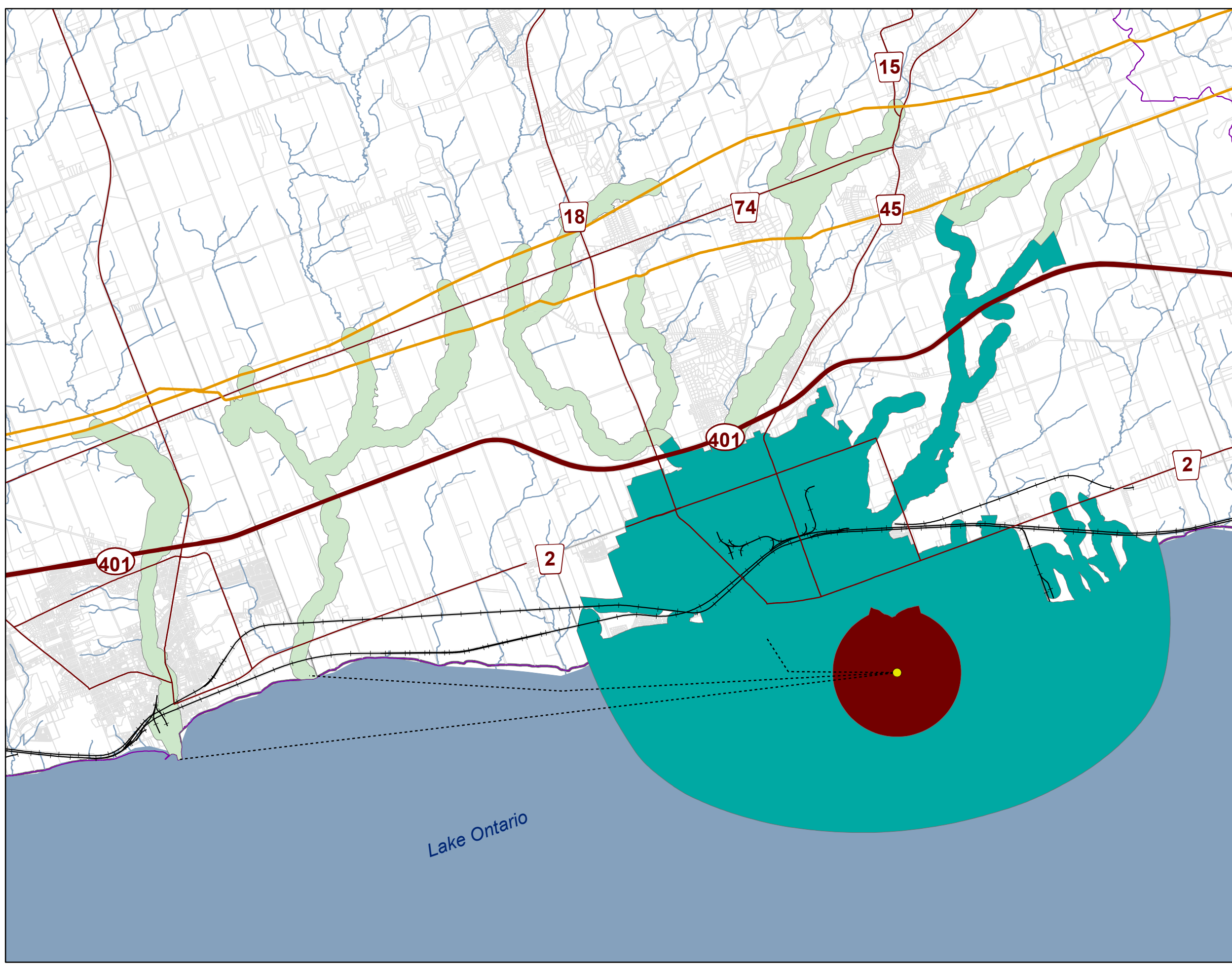
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Source Protection Region**  
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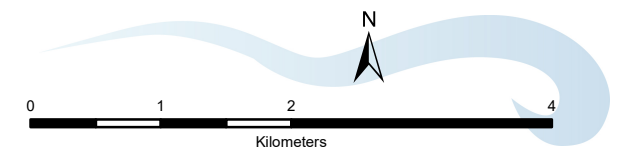


**Cobourg  
Surface Water Supply  
Ganaraska Region Source  
Protection Area  
Intake Protection Zones**



**Legend**

- Surface Water Intake
- Oil Pipeline
- Road
- Highway
- Multi-Lane Highway
- Railway
- - - Contaminant Collector
- IPZ**
- IPZ 1
- IPZ 2
- IPZ 3
- Source Protection Area
- Waterbody
- Watercourse
- Property Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality



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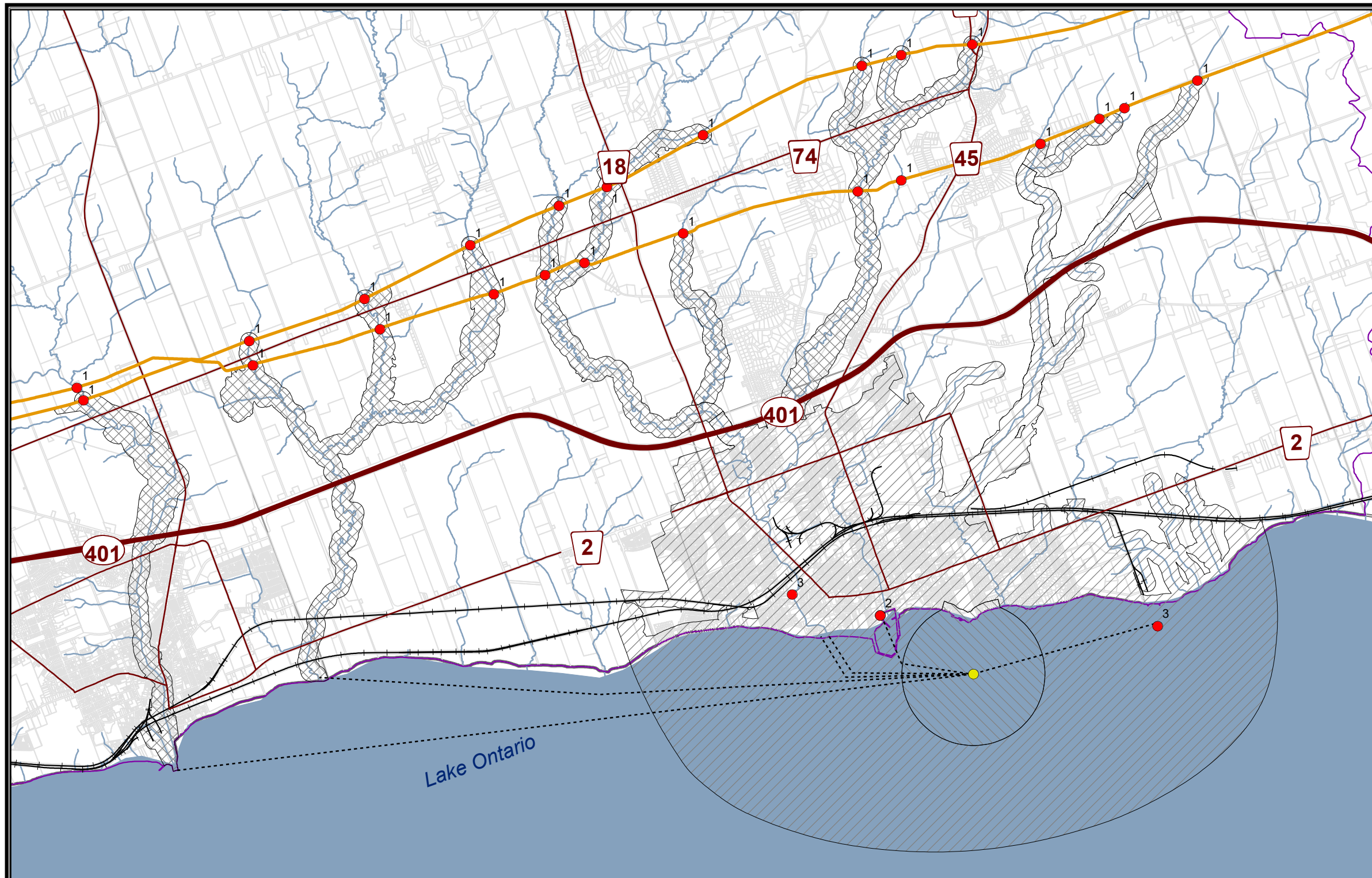
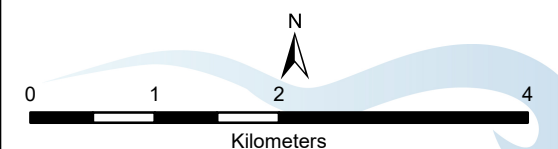
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**Cobourg Surface Water Supply**  
**Ganaraska Region Source Protection Area**

**Location of Modeled Significant Drinking Water Threats**

**Legend**

- Modelled Threats
- Surface Water Intake
- Contaminant Collector
- Oil Pipeline
- Road
- Highway
- Multi-Lane Highway
- Railway
- ▨ IPZ 3
- ▨ IPZ1
- ▨ IPZ2
- ▭ Source Protection Area Boundary
- ▭ Waterbody
- Watercourse
- ▭ Property Boundary
- ▭ Upper and Single Tier Municipality
- ▭ Lower Tier Municipality



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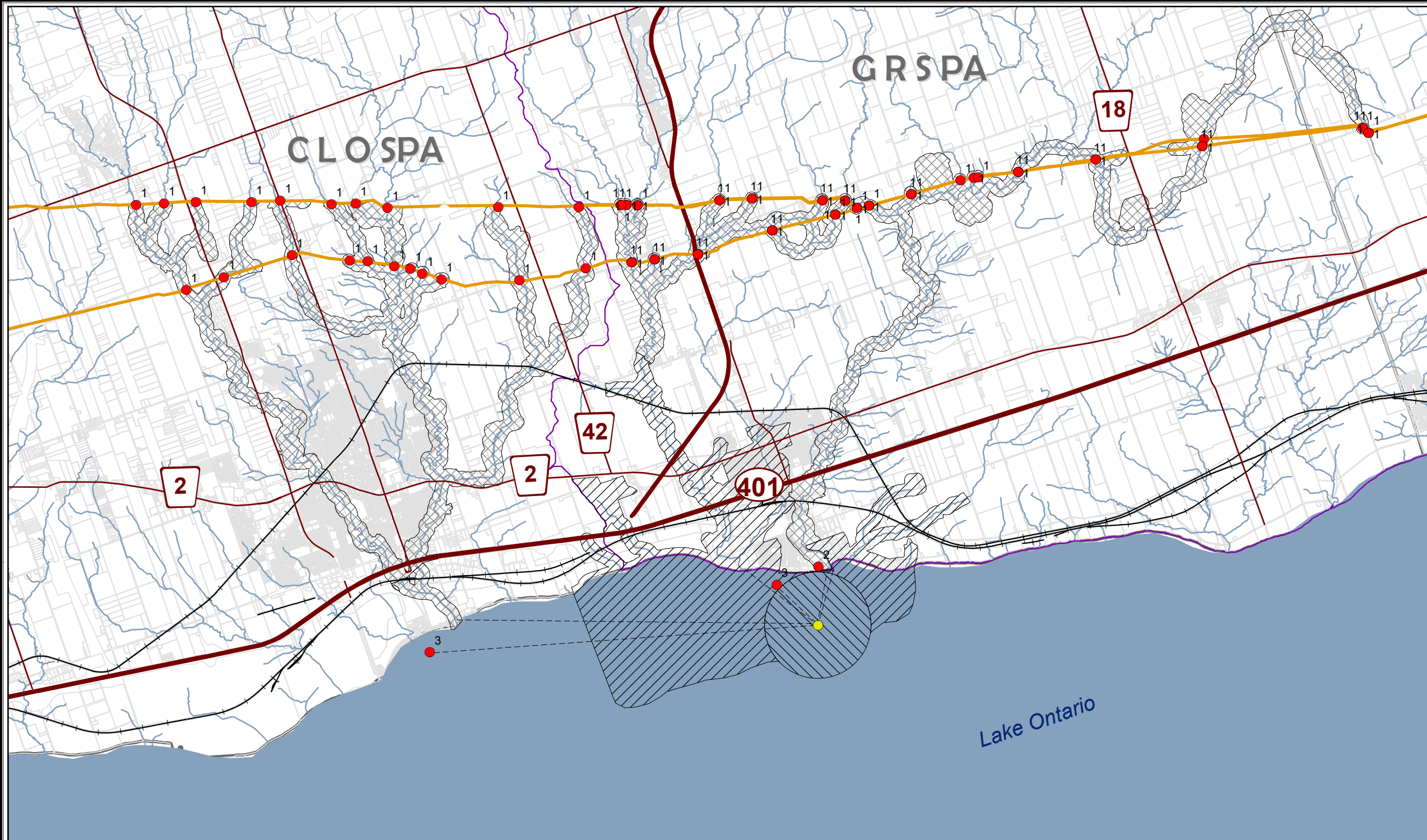
| THREATS RELATED TO DRINKING WATER INTAKE PROTECTION ZONE 3 |  |
|--|--|
| Significant Threat Location                                | Description of Modeled Significant Threat  |
| 1  | <ol style="list-style-type: none"> <li>The conveyance of oil by way of a pipeline that would be designated as transmitting or distributing "liquid hydrocarbons", including "crude oil", "condensate", or liquid petroleum products" and not including "natural gas liquids" or "liquefied petroleum gas" within the meaning of the Ontario Regulation 210/01 under the <i>Technical Standards and Safety Act</i> or is subject to the National Energy Board Act.</li> <li>The rupture of a pipeline in an area where the pipeline crosses a body of open water and may result in the presence of BTEX in surface water."</li> </ol> |

This table identifies the significant drinking water threats within the Intake Protection Zone 3 of the Cobourg Surface Water Supply

| Significant Threat Location | Description of Modelled Threat  |
|-----------------------------|---|
| 2                           | <ol style="list-style-type: none"> <li>The below grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the <i>Technical Standards and Safety Act, 2000</i> or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the <i>Technical Standards and Safety Act, 2000</i>, but not including a bulk plant.</li> <li>The quantity of liquid fuel stored is more than 2,500 litres.</li> <li>A spill of the fuel may result in the presence of BTEX in groundwater or surface water.</li> </ol> |
| 3                           | <ol style="list-style-type: none"> <li>The system is a wastewater treatment facility that discharges to surface water through a means other than a designed bypass.</li> <li>A discharge may result in the presence of one or more pathogens in groundwater or surface water.</li> </ol>  |

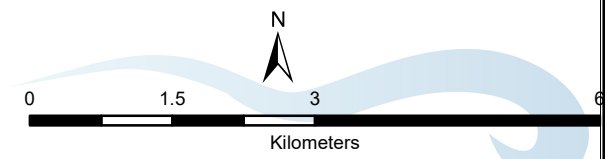
# Newcastle Surface Water Supply Ganaraska Region Source Protection Area

## Locations of Modeled Significant Drinking Water Threats



**Legend**

- Modelled Threats
- Surface Water Intake
- Contaminant Collectors
- Oil Pipeline
- Road
- Highway
- Multi-Lane Highway
- Railway
- ▨ IPZ1
- ▨ IPZ2
- ▨ IPZ3
- ▭ Source Protection Area Boundary
- ▭ Waterbody
- Watercourse
- ▭ Property Boundary
- ▭ Upper and Single Tier Municipality
- ▭ Lower Tier Municipality



| THREATS RELATED TO DRINKING WATER INTAKE PROTECTION ZONE 3 |  |
|--|--|
| Significant Threat Location                                | Description of Modeled Significant Threat  |
| 1  | <ol style="list-style-type: none"> <li>The conveyance of oil by way of a pipeline that would be designated as transmitting or distributing "liquid hydrocarbons", including "crude oil", "condensate", or liquid petroleum products" and not including "natural gas liquids" or "liquefied petroleum gas" within the meaning of the Ontario Regulation 210/01 under the <i>Technical Standards and Safety Act</i> or is subject to the National Energy Board Act.</li> <li>The rupture of a pipeline in an area where the pipeline crosses a body of open water and may result in the presence of BTEX in surface water."</li> </ol> |

This table identifies the significant drinking water threats within the Intake Protection Zone 3 of the Newcastle Surface Water Supply

| Significant Threat Location | Description of Modelled Threat  |
|-----------------------------|---|
| 2                           | <ol style="list-style-type: none"> <li>The below grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the <i>Technical Standards and Safety Act, 2000</i> or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the <i>Technical Standards and Safety Act, 2000</i>, but not including a bulk plant.</li> <li>The quantity of liquid fuel stored is more than 2,500 litres.</li> <li>A spill of the fuel may result in the presence of BTEX in groundwater or surface water.</li> </ol> |
| 3                           | <ol style="list-style-type: none"> <li>The system is a wastewater treatment facility that discharges to surface water through a means other than a designed bypass.</li> <li>A discharge may result in the presence of one or more pathogens in groundwater or surface water.</li> </ol>  |

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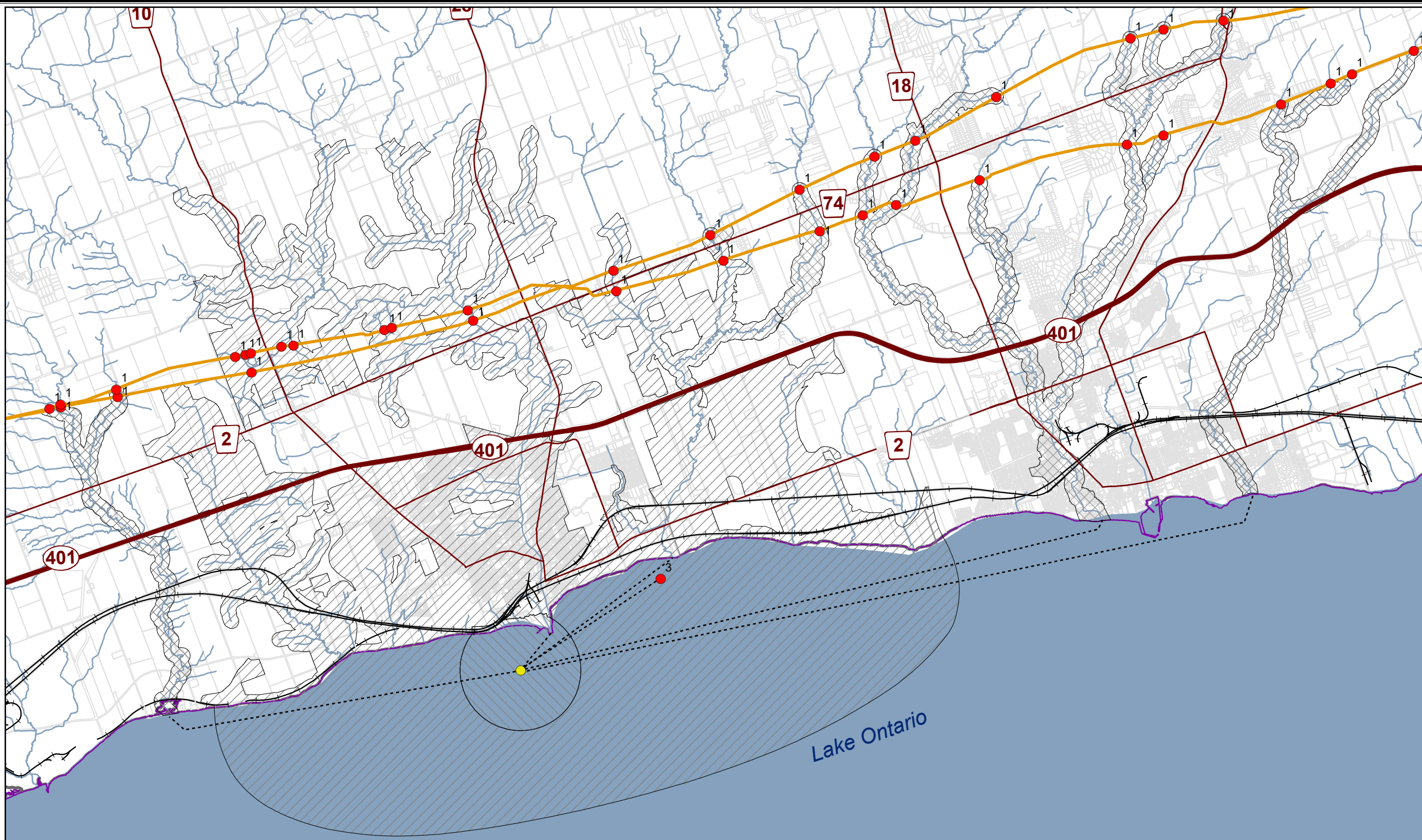
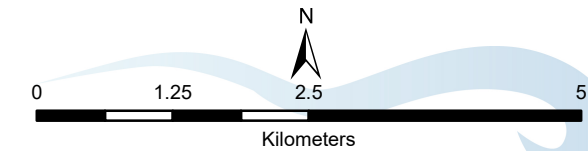
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# Port Hope Surface Water Supply Ganaraska Region Source Protection Area

## Locations of Modeled Significant Drinking Water Threats

### Legend

- Modelled Threats
- Surface Water Intake
- Contaminant Collector
- Oil Pipeline
- Road
- Highway
- Multi-Lane Highway
- +— Railway
- IPZ1
- IPZ2
- IPZ 3
- Source Protection Area Boundary
- Waterbody
- Watercourse
- Property Boundary
- Upper and Single Tier Municipality
- Lower Tier Municipality



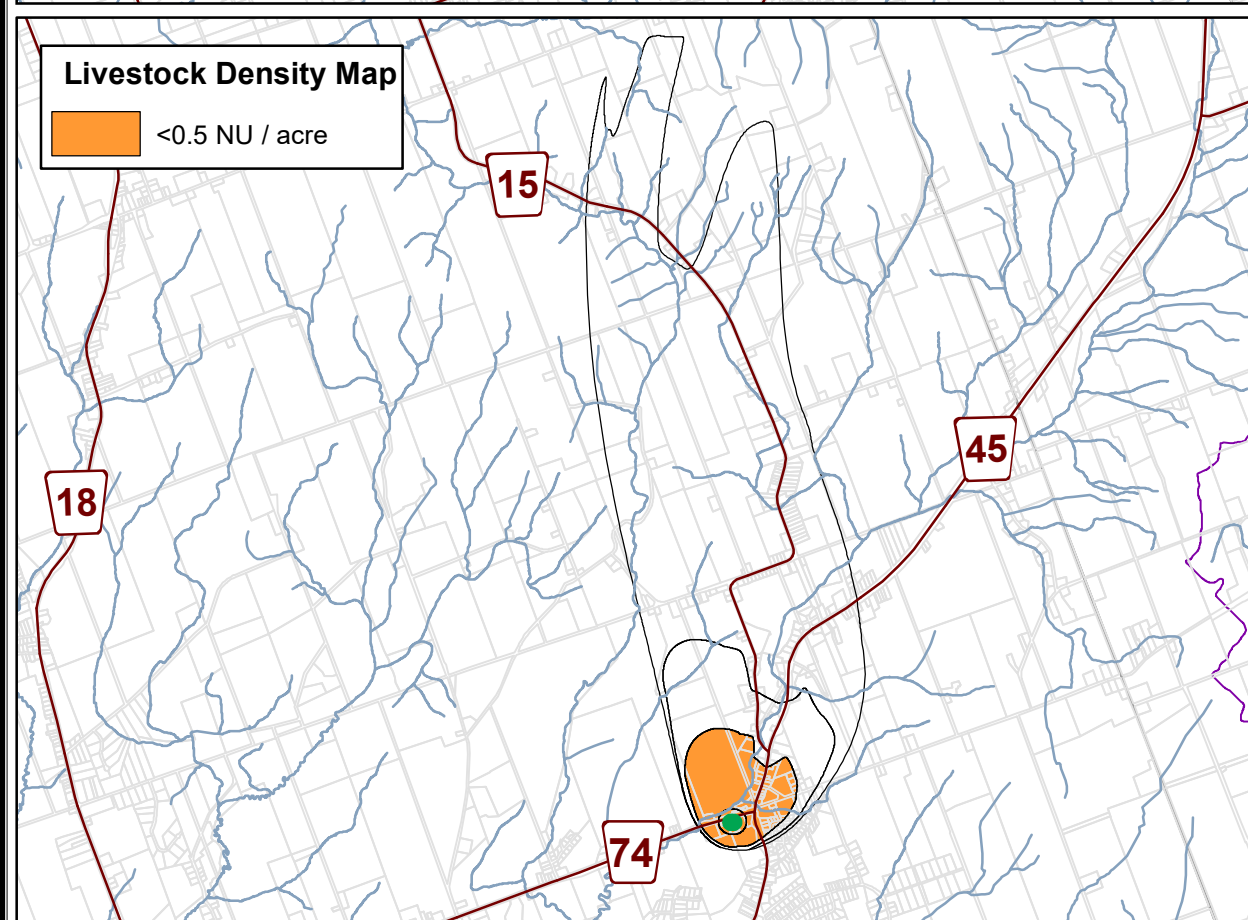
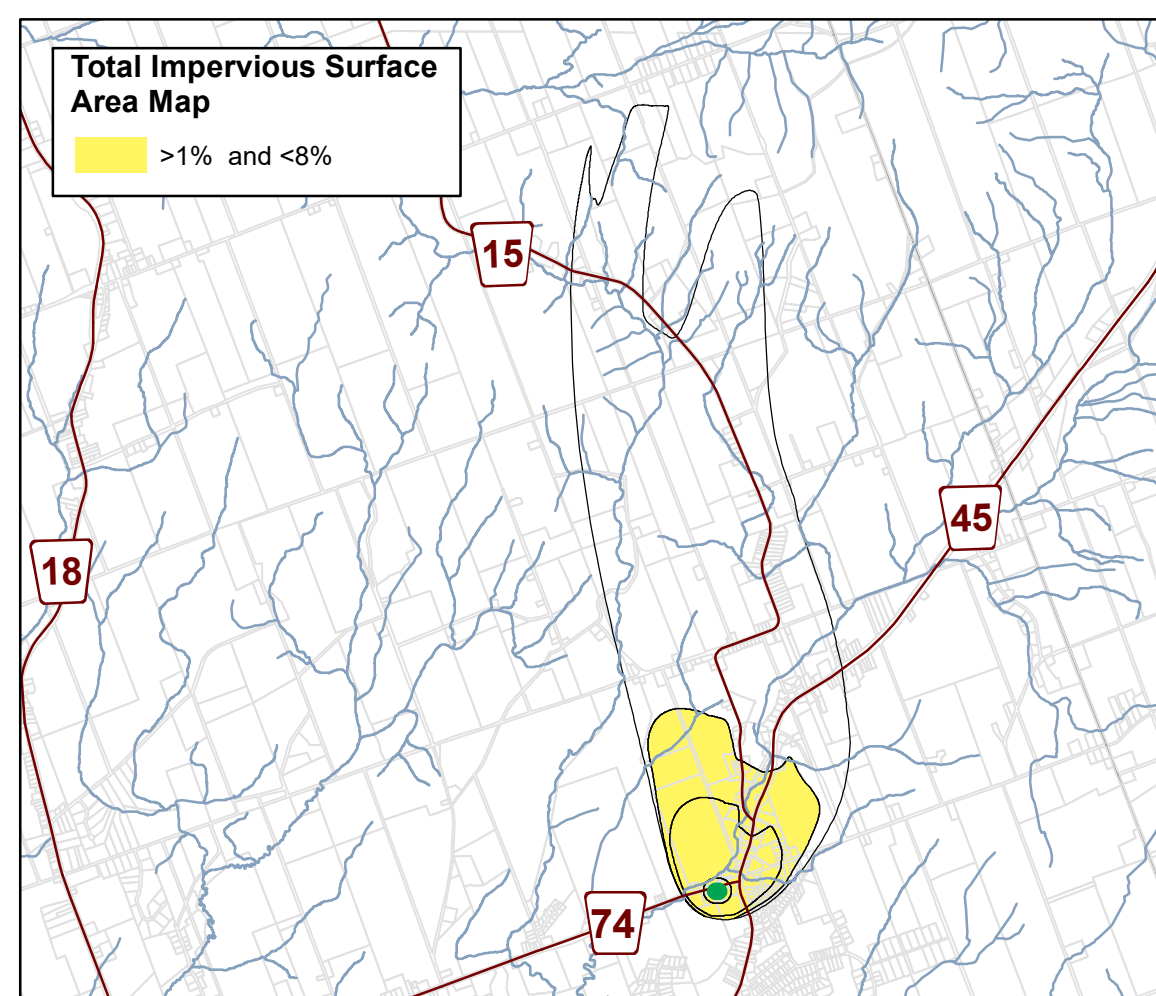
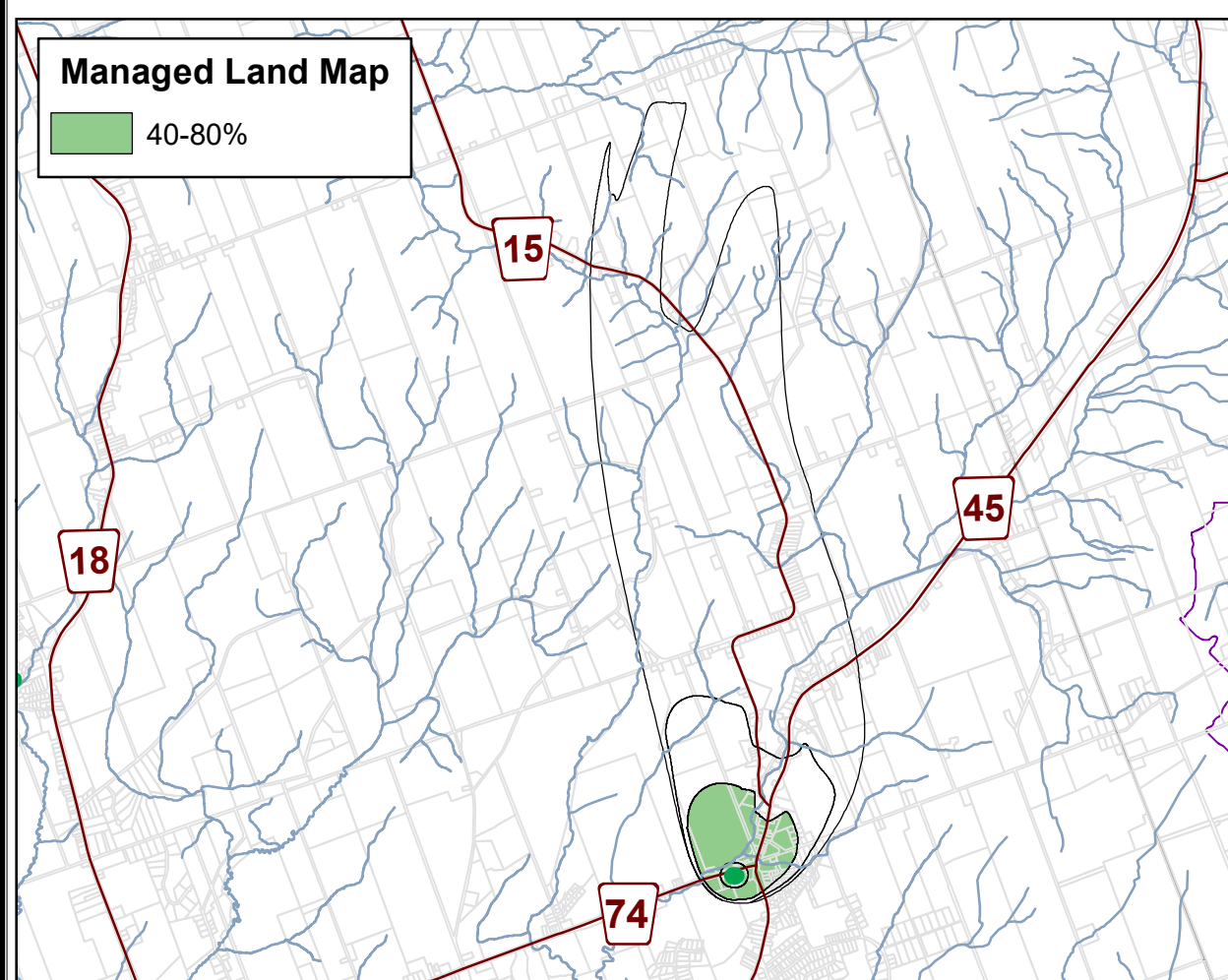
### THREATS RELATED TO DRINKING WATER INTAKE PROTECTION ZONE 3

| Significant Threat Location | Description of Modeled Significant Threat  |
|-----------------------------|--|
| 1                           | <ol style="list-style-type: none"> <li>The conveyance of oil by way of a pipeline that would be designated as transmitting or distributing “liquid hydrocarbons”, including “crude oil”, “condensate”, or liquid petroleum products” and not including “natural gas liquids” or “liquefied petroleum gas” within the meaning of the Ontario Regulation 210/01 under the <i>Technical Standards and Safety Act</i> or is subject to the National Energy Board Act.</li> <li>The rupture of a pipeline in an area where the pipeline crosses a body of open water and may result in the presence of BTEX in surface water.”</li> </ol> |

This table identifies the significant drinking water threats within the Intake Protection Zone 3 of the Port Hope Surface Water Supply

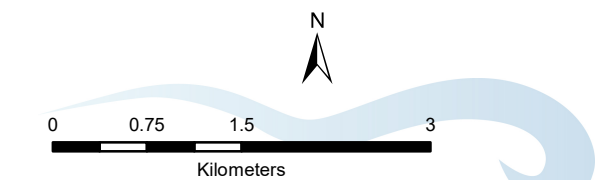
| Significant Threat Location | Description of Modelled Threat   |
|-----------------------------|--|
| 3                           | <ol style="list-style-type: none"> <li>The system is a wastewater treatment facility that discharges to surface water through a means other than a designed bypass.</li> <li>A discharge may result in the presence of one or more pathogens in groundwater or surface water.</li> </ol> |

**Creighton Heights Well Supply**  
**Ganaraska Region Source Protection Area**  
**Managed Land, Livestock Density & Total Impervious Surface Area**



**Legend**

- Municipal Well
- Road
- Highway
- Multi-Lane Highway
- +— Railway
- Watercourse
- Property boundary
- WHPA
- Source Protection Area Boundary
- Waterbody
- Upper and Single Tier Municipality
- Lower Tier Municipality



**Trent Conservation Coalition**  
**Source Protection Region**

[www.trentsourceprotection.on.ca](http://www.trentsourceprotection.on.ca)

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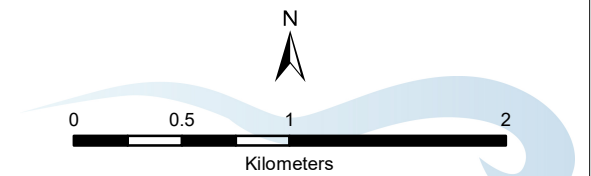
Ontario  
Made possible through the support of the Government of Ontario



**Camborne Well Supply**  
**Ganaraska Region Source Protection Area**  
**Managed Land, Livestock Density & Total Impervious Surface Area**

**Legend**

- Municipal Well
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Property boundary
- WHPA
- Source Protection Area Boundary
- Waterbody
- Upper and Single Tier Municipality
- Lower Tier Municipality

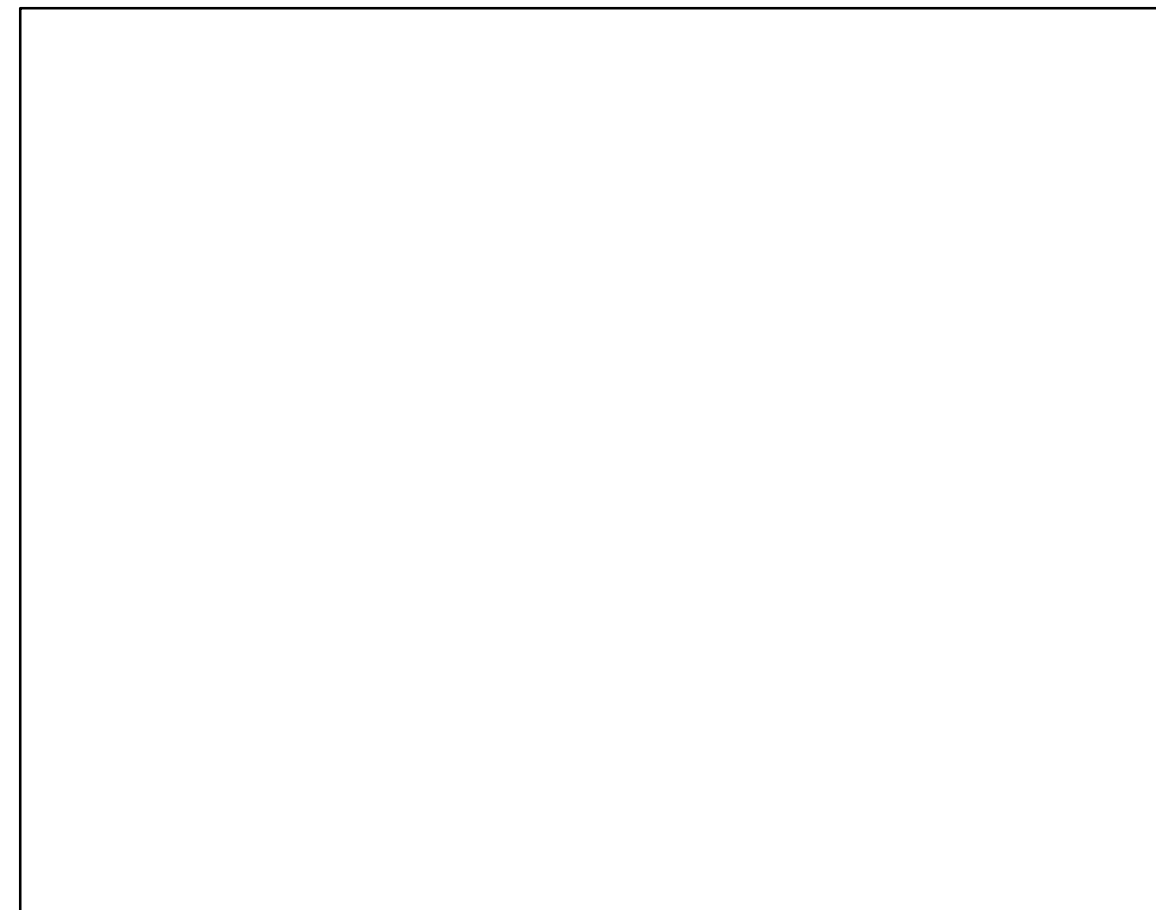
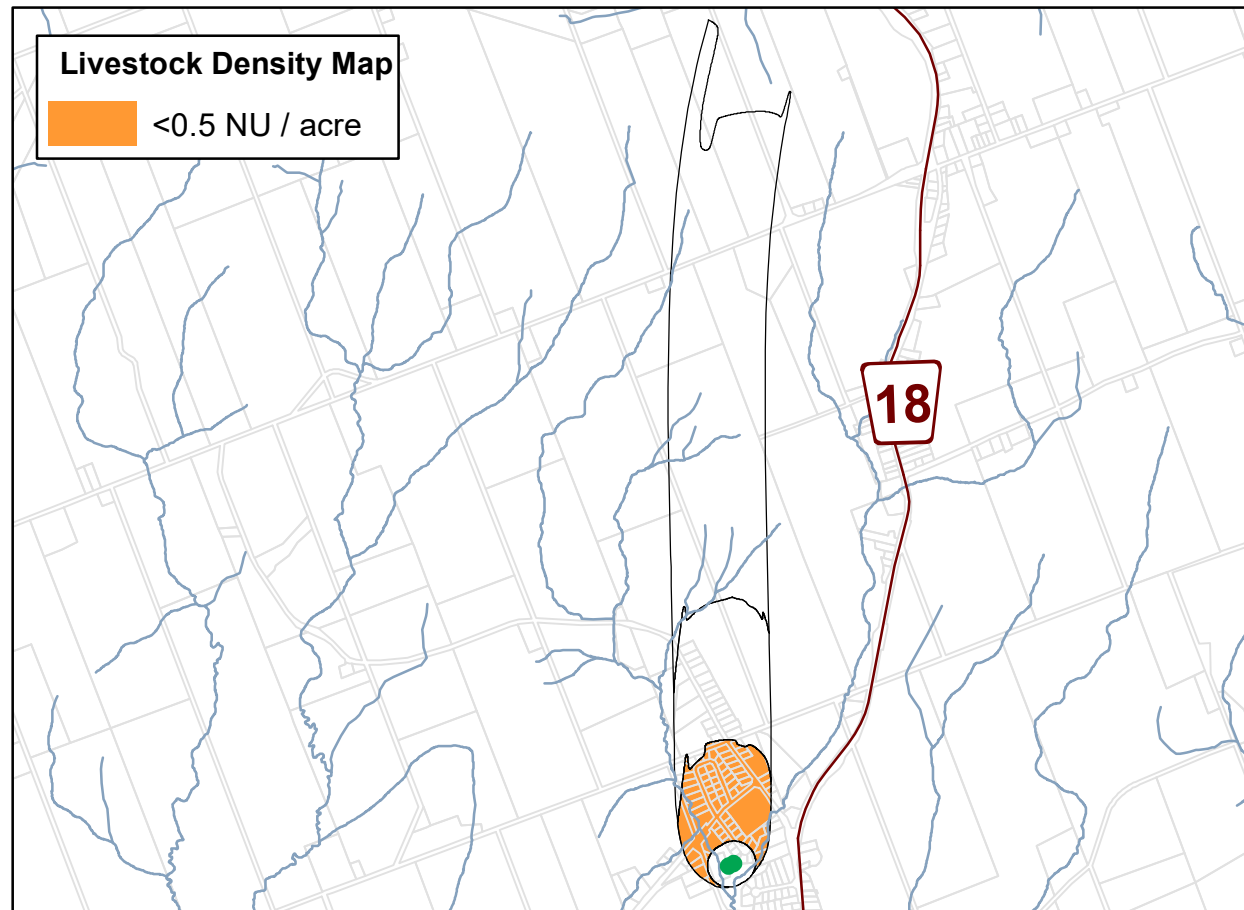
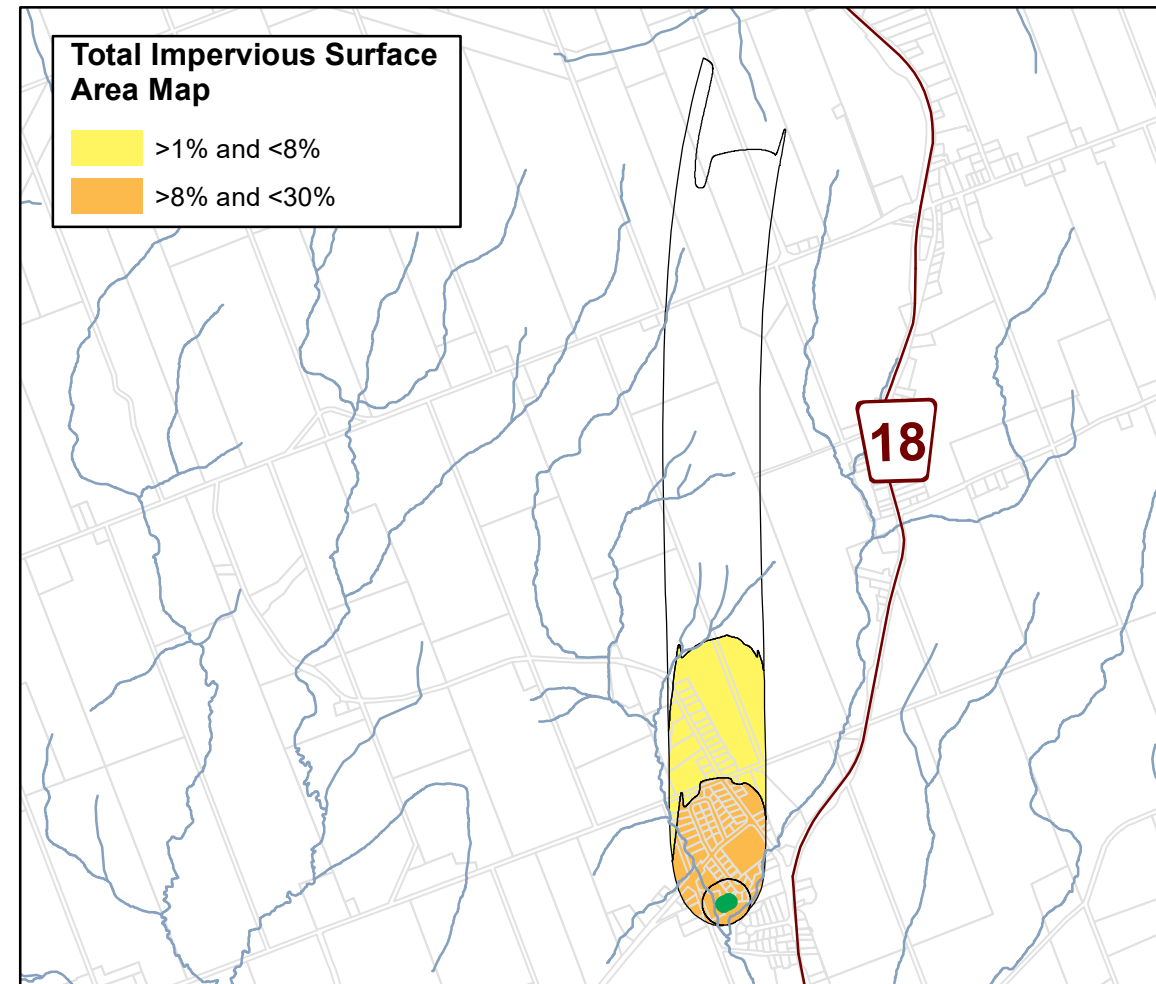
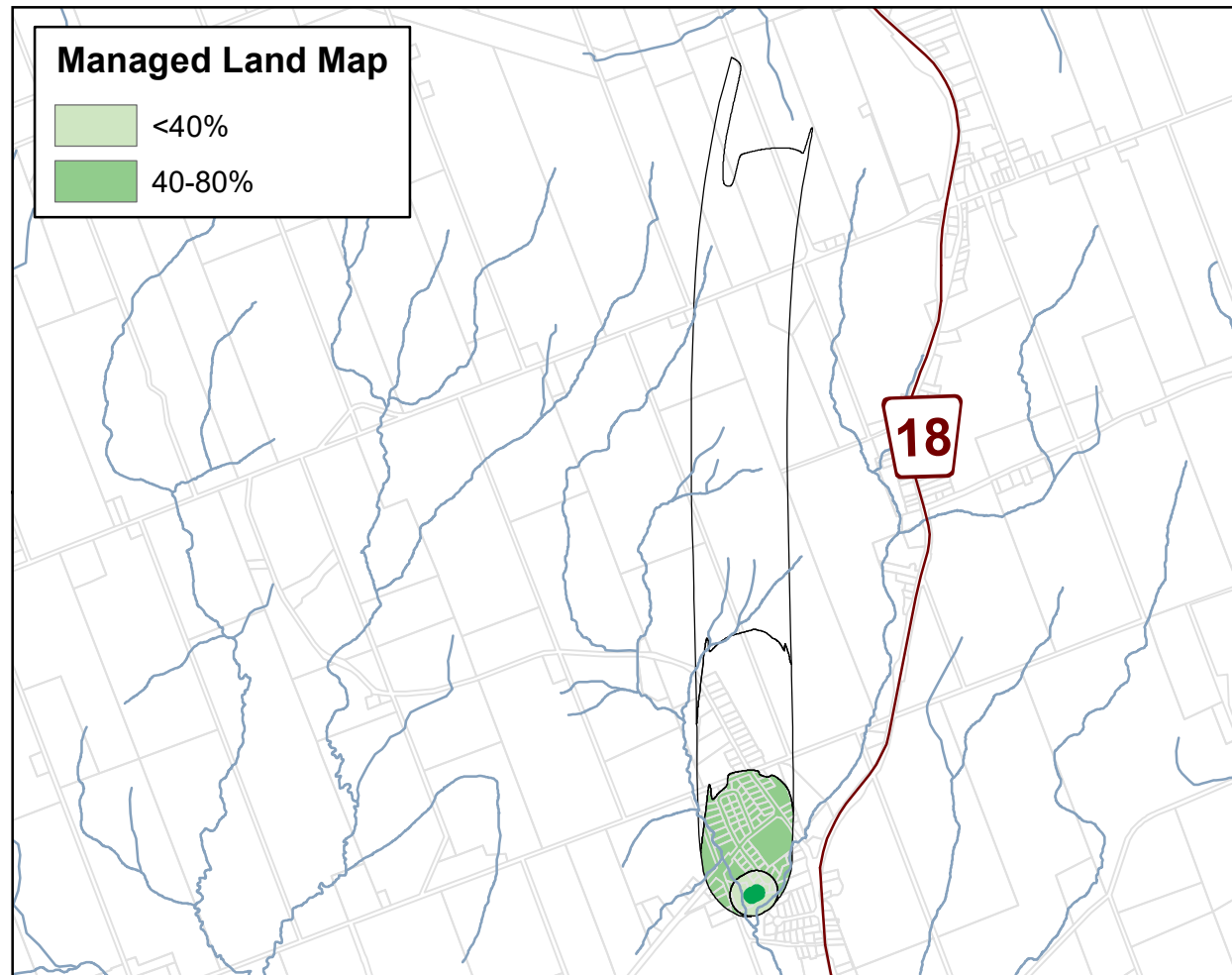


**Trent Conservation Coalition**  
**Source Protection Region**

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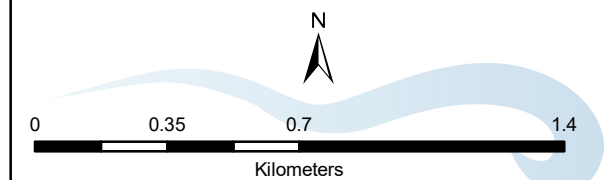
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**Orono**  
**Well Supply**  
**Ganaraska Region Source**  
**Protection Area**  
**Managed Land, Livestock**  
**Density & Total Impervious**  
**Surface Area**

**Legend**

- Municipal Well
- Road
- Highway
- Multi-Lane Highway
- Railway
- Watercourse
- Property boundary
- Source Protection Area Boundary
- Waterbody
- Upper and Single Tier Municipality
- Lower Tier Municipality



**Trent Conservation Coalition**  
**Source Protection Region**

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