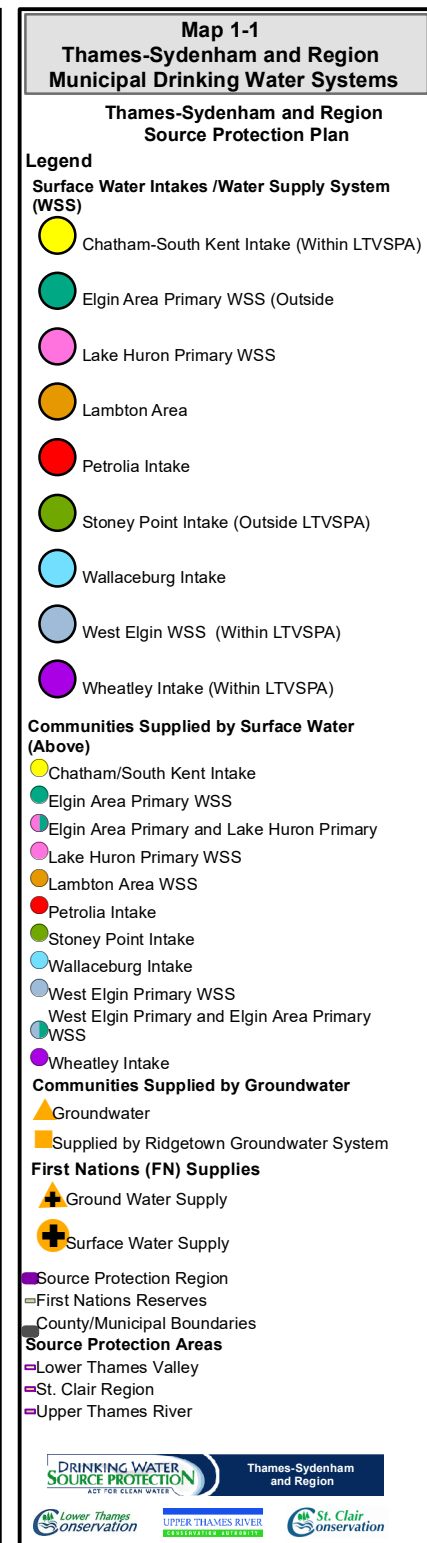
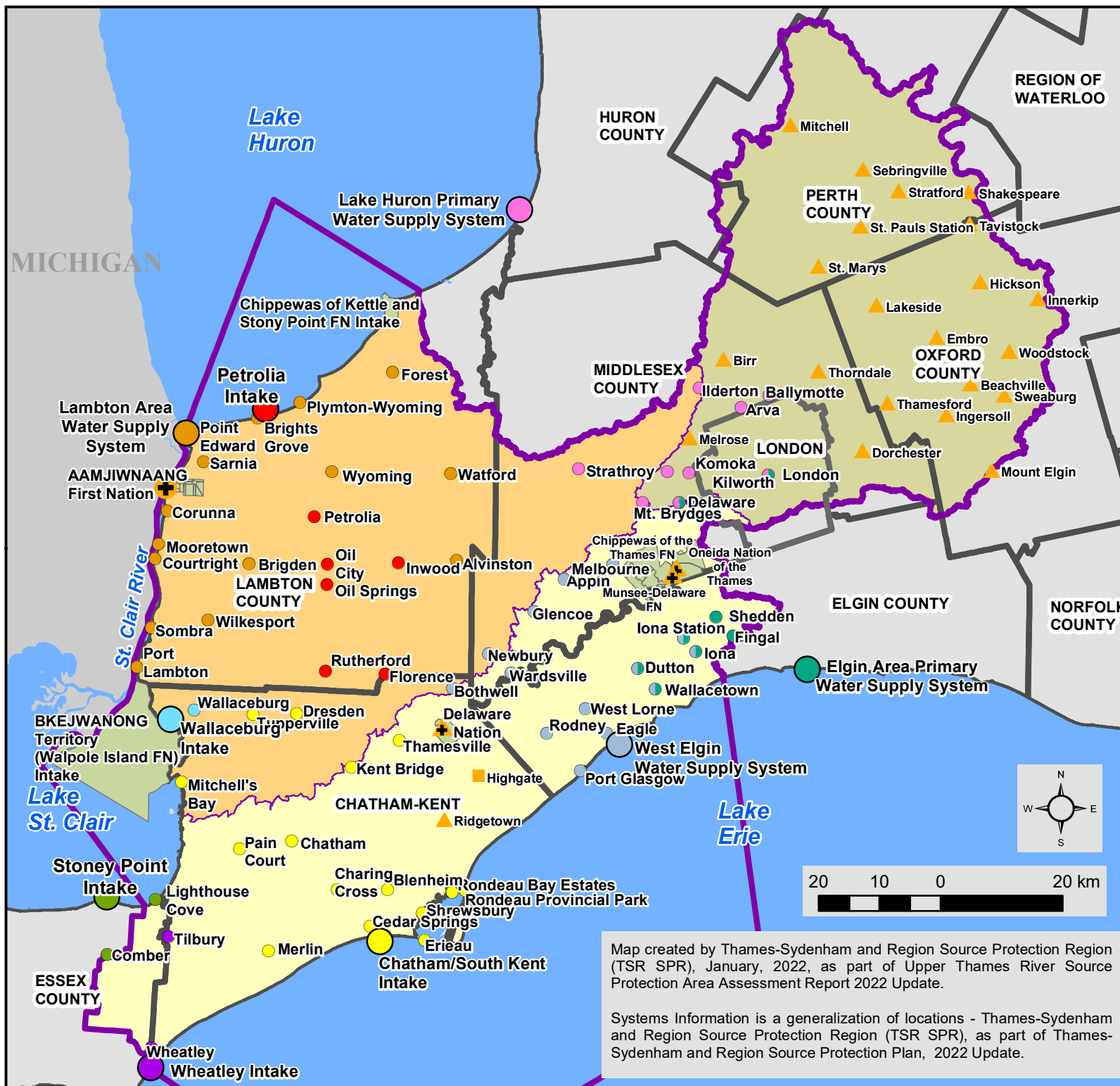
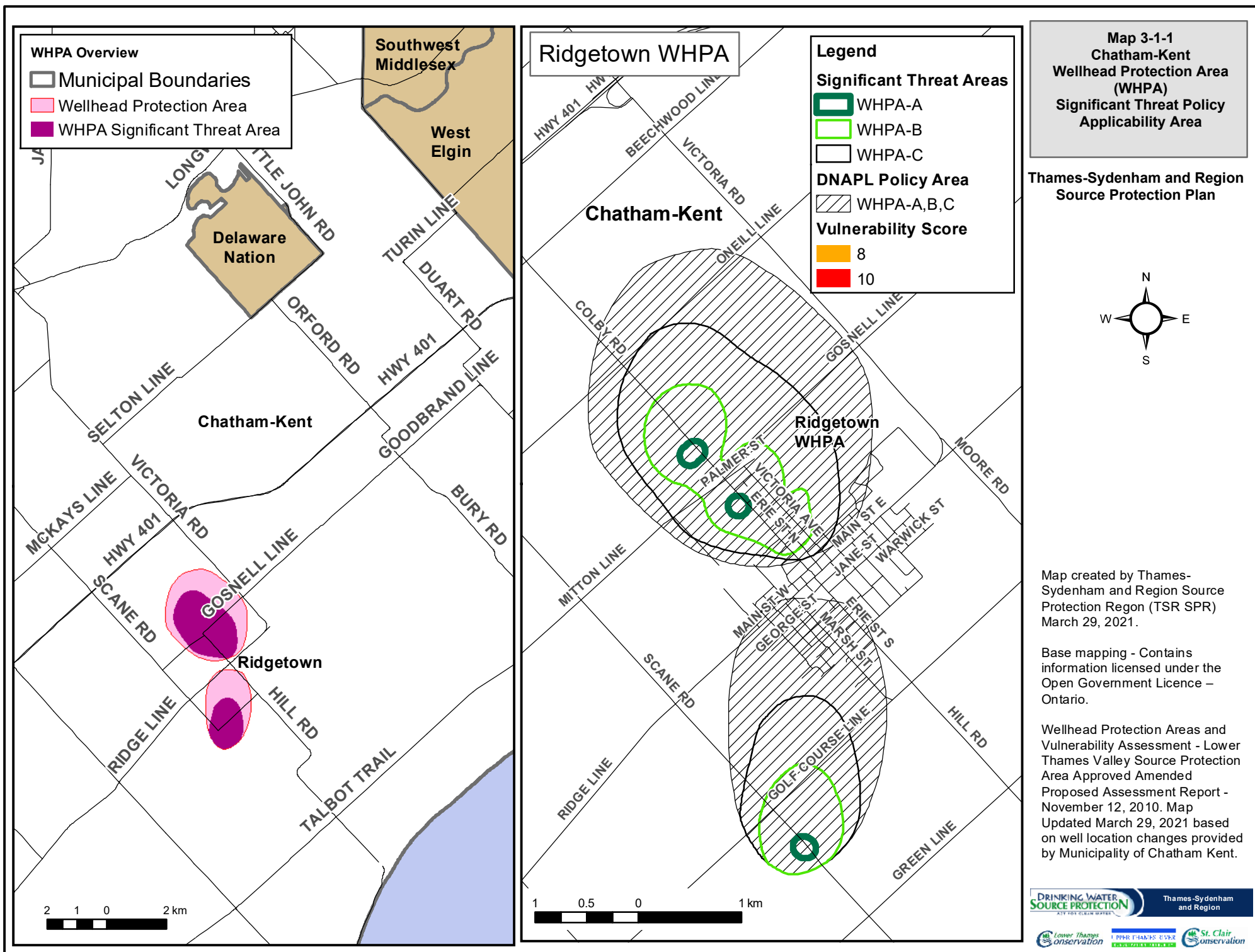
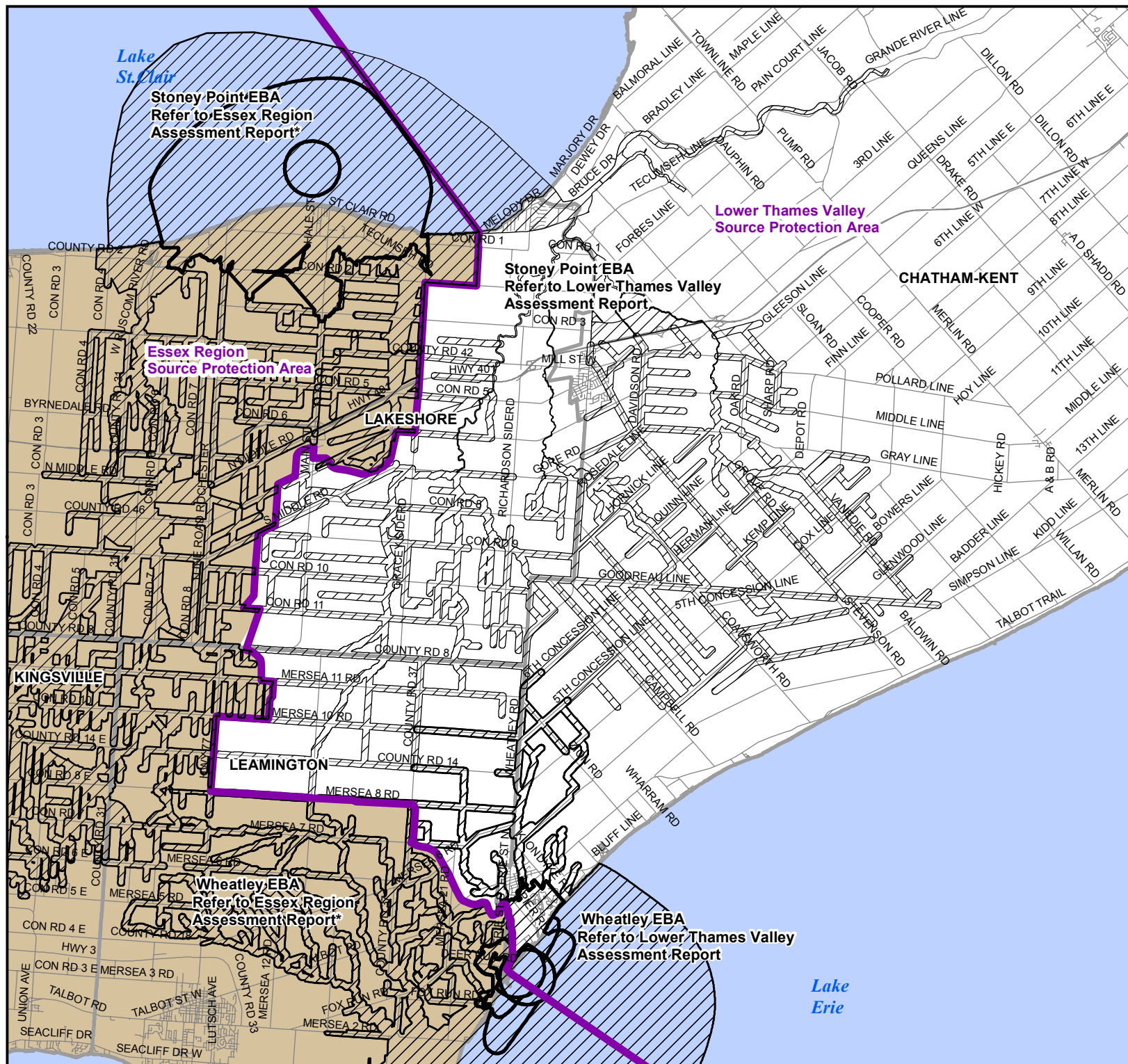






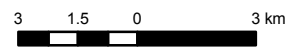
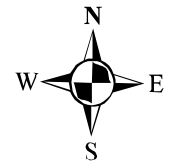


Map 3-1-1a
Chatham-Kent, Essex
Intake Protection Zones (IPZ)
Significant Threat
Policy Applicability Area

Thames-Sydenham and Region
Source Protection Plan

Legend

- Source Water Region Boundary
- Municipal Boundaries
- Essex Region SPA*
- IPZ-1,2
- IPZ-3
- Significant Threat Area**
- Event Based Area



Map created by UTRCA, December 9, 2014.

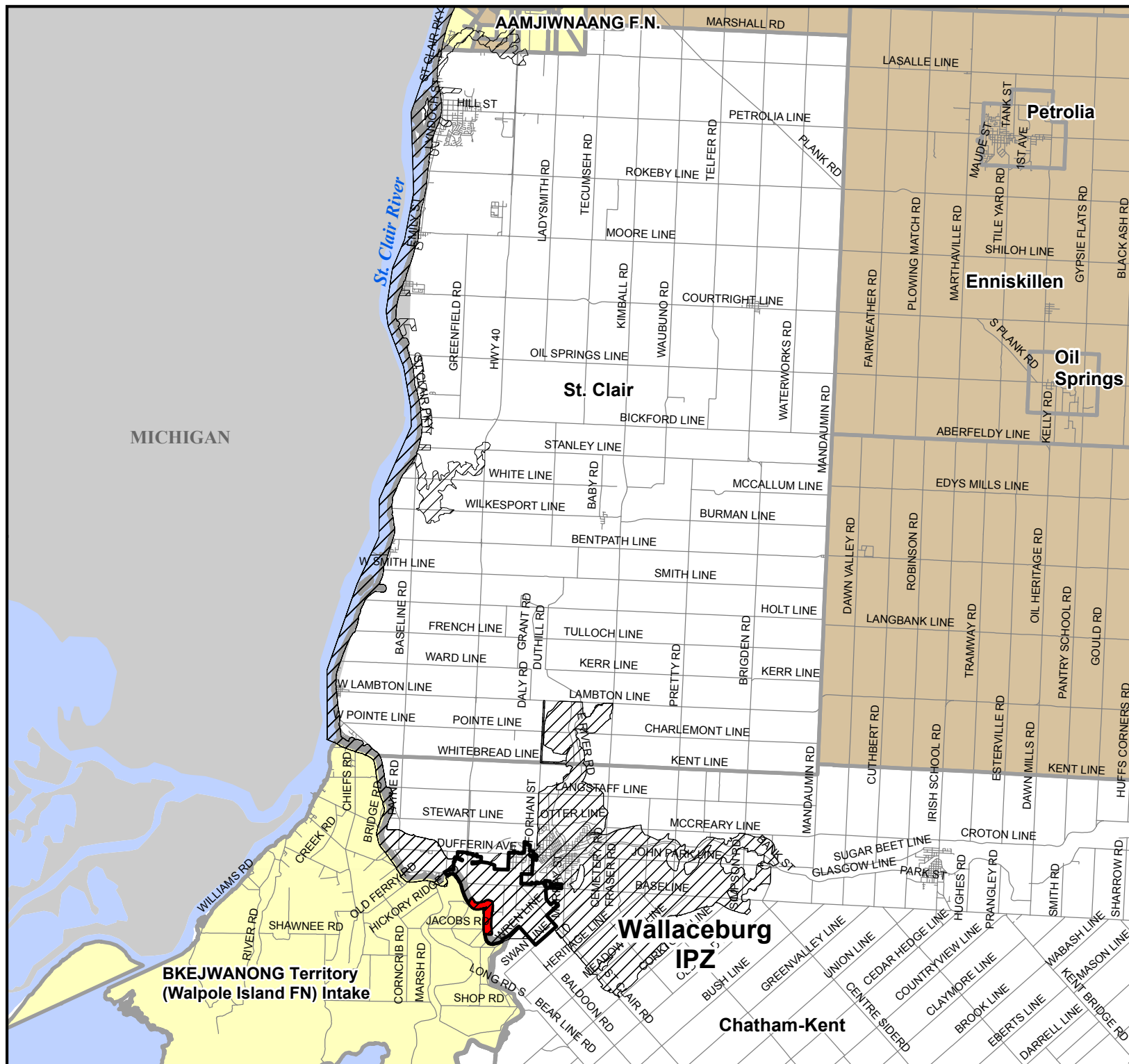
Base mapping produced under license with the Ontario Ministry of Natural Resources, © 2014.

Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Intake Protection Zones 1 & 2 - Thames-Sydenham and Region Source Protection Region, Sept. 2009 and Essex Chatham-Kent Source Protection Planning Technical Study, Technical Memorandum: Delineation, Vulnerability and Uncertainty Level Analyses for the Thames, Sydenham & Region Water Treatment Plants, Stantec Consulting Ltd. 2009.

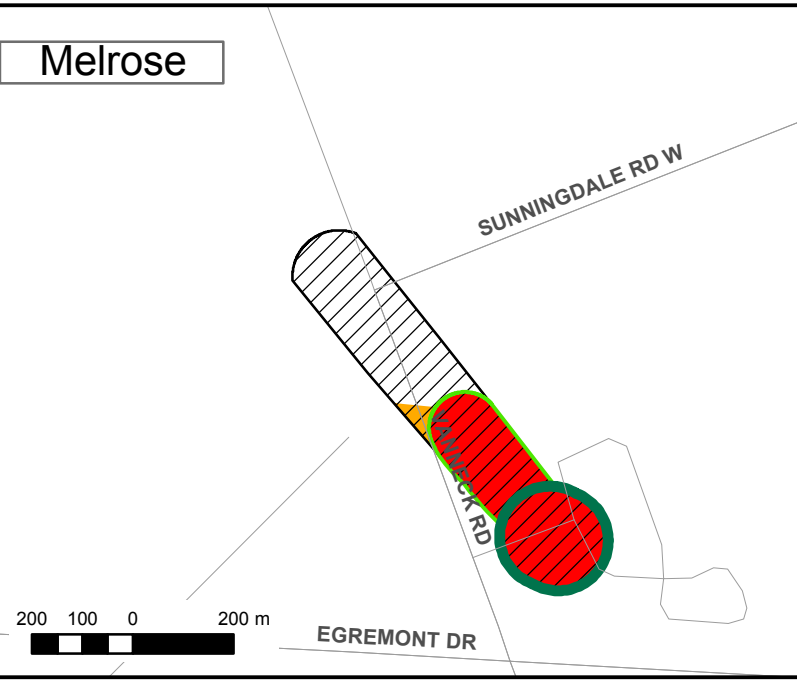
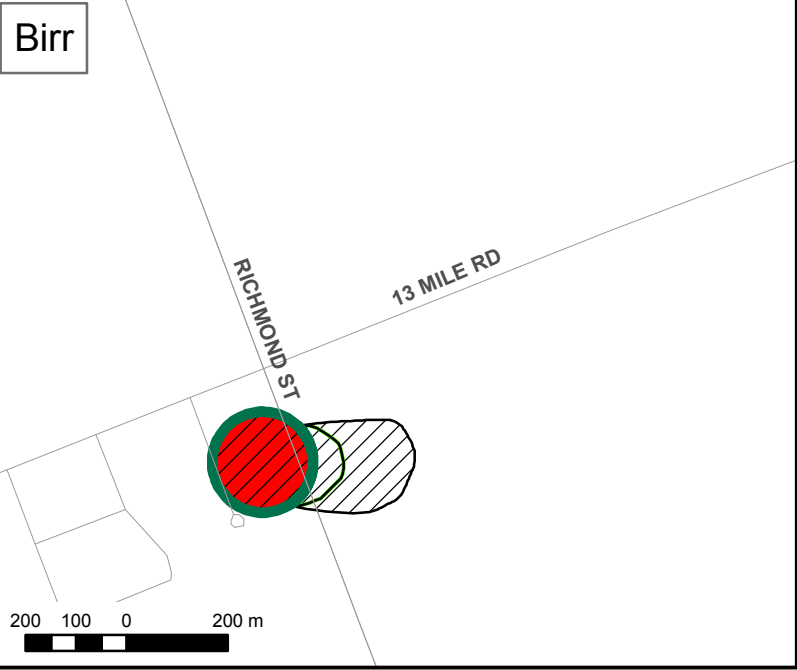
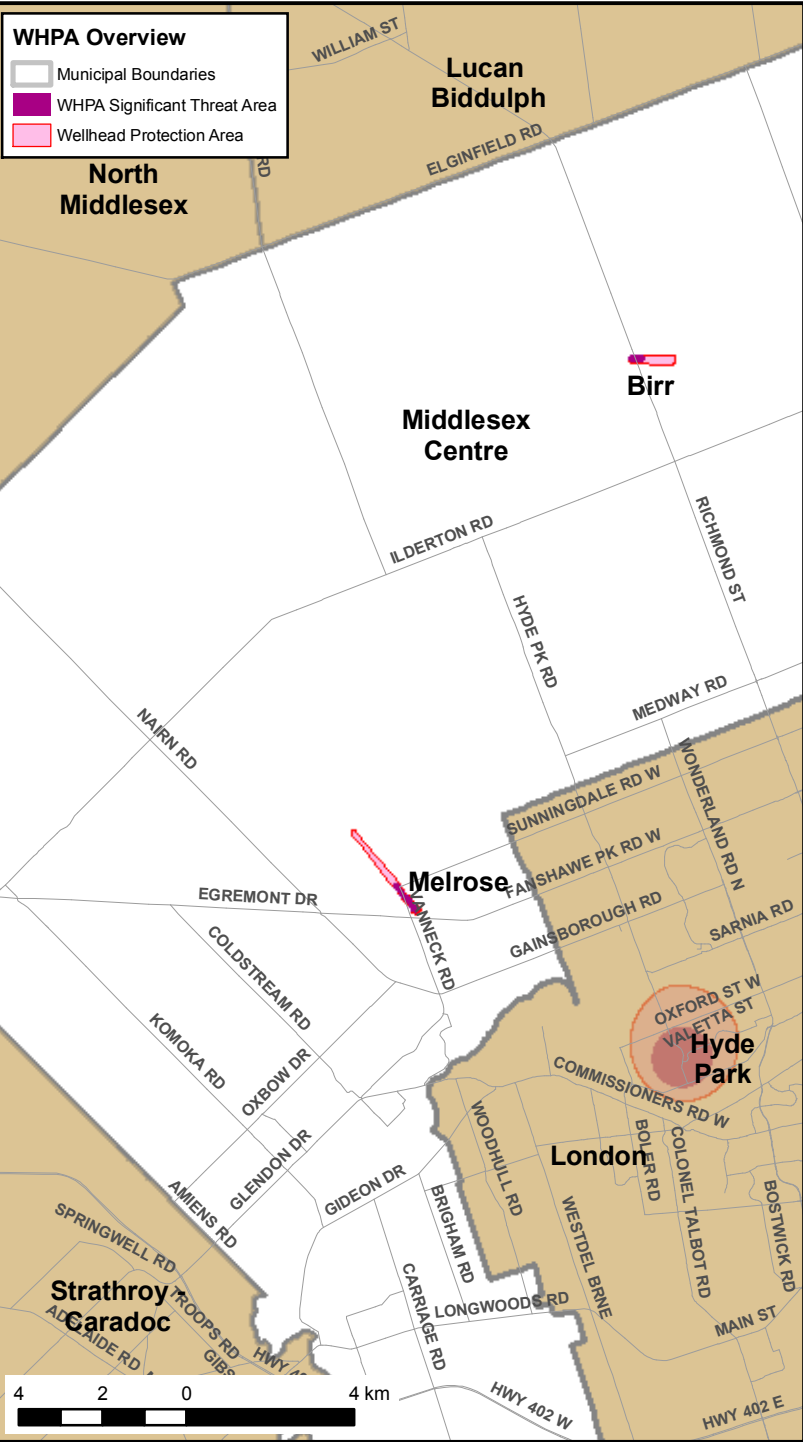
Event Based Area and IPZ-3 - Thames-Sydenham and Region Source Protection Region, 2014 .

*Note: Area is within Essex Region Source Protection Area (ERSPA). Refer to ERSAP Assessment Report for delineation and detailed information related to the part of the IPZ and EBA in the ERSAP.



WHPA Overview

- Municipal Boundaries
- WHPA Significant Threat Area
- Wellhead Protection Area

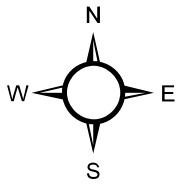


**Map 3-1-4
Middlesex Centre
Wellhead Protection Area
(WHPA)
Significant Threat Policy
Applicability Area**

Thames-Sydenham and Region
Source Protection Plan

Legend

- Municipal Boundaries
- Significant Threat Areas**
 - WHPA-A
 - WHPA-B
 - WHPA-C
- DNAPL Policy Area**
 - WHPA-A,B,C
- Vulnerability Score**
 - 8
 - 10

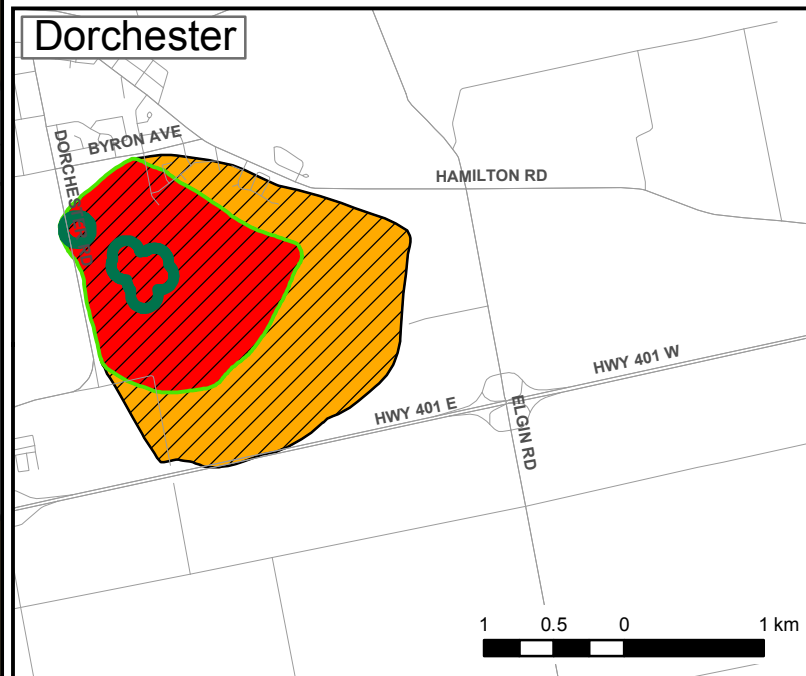
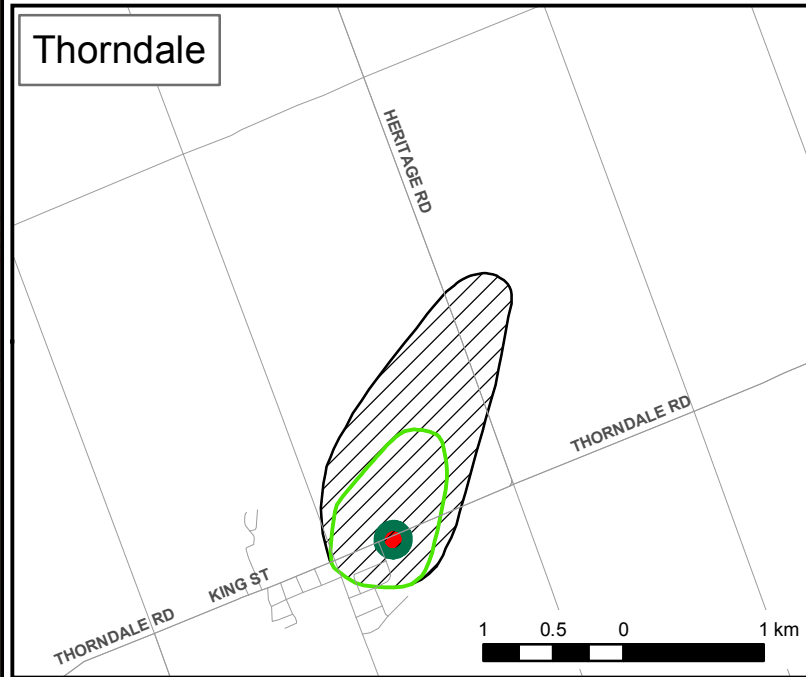
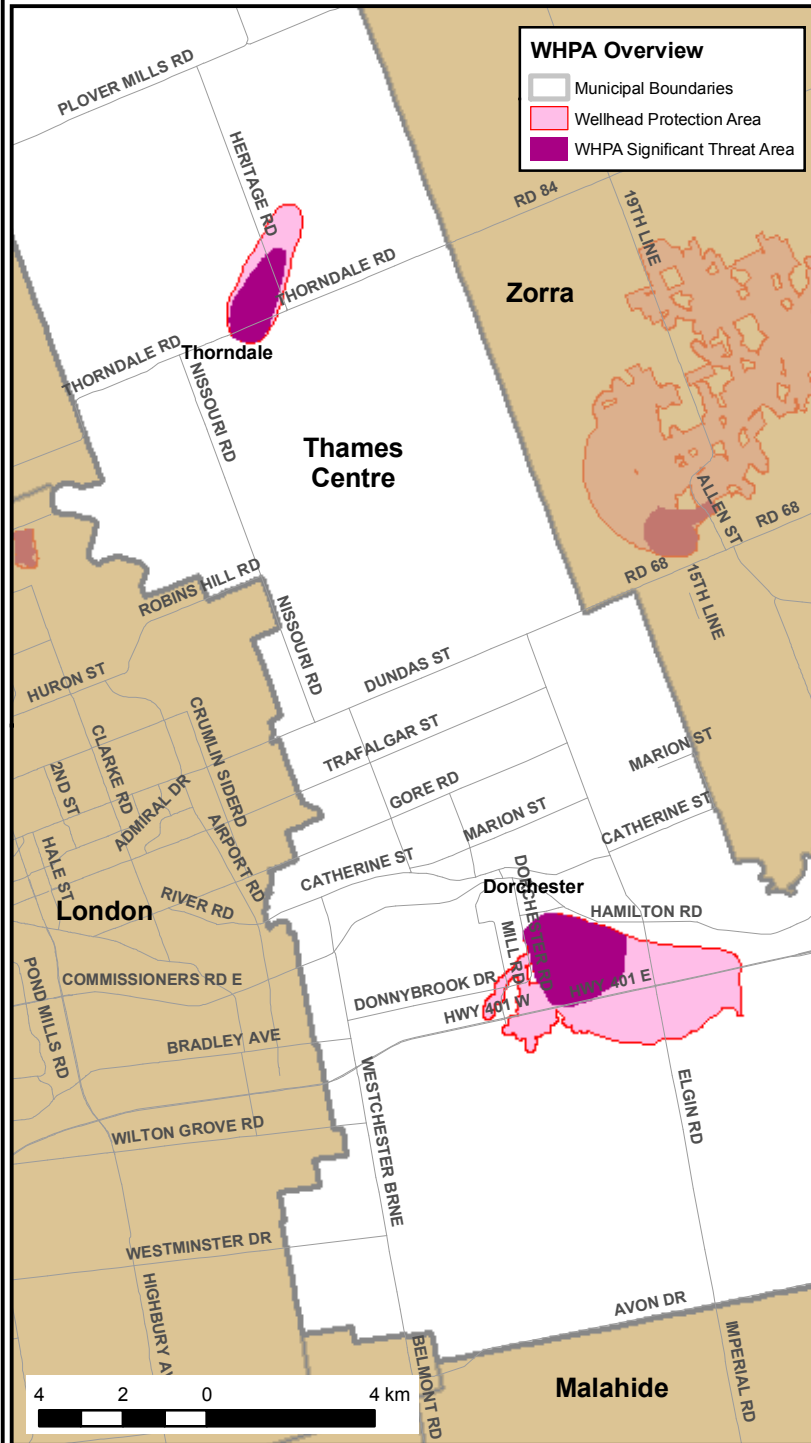


Map created by UTRCA, June 20, 2012.

Base mapping produced under license with the Ontario Ministry of Natural Resources, © 2012.

Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Amended Proposed Assessment Report Revised - August 12, 2011.



Map 3-1-5 Thames Centre Wellhead Protection Area (WHPA) Significant Threat Policy Applicability Area

Thames-Sydenham and Region Source Protection Plan

Legend

Municipal Boundaries

Significant Threat Areas

WHPA-A

WHPA-B

WHPA-C

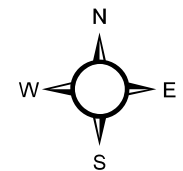
DNAPL Policy Area

WHPA-A,B,C

Vulnerability Score

8

10



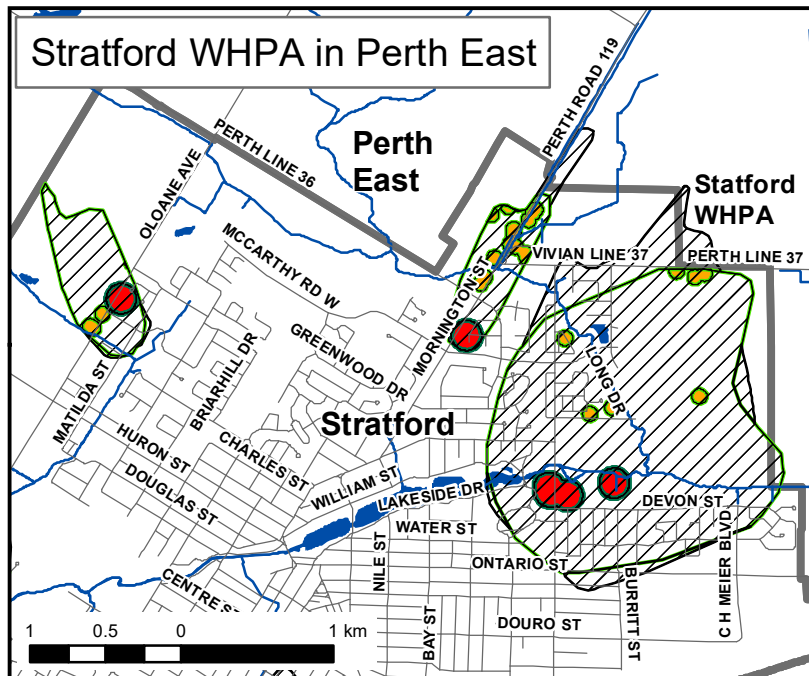
Map created by UTRCA, June 20, 2012.

Base mapping produced under license with the Ontario Ministry of Natural Resources, © 2012.

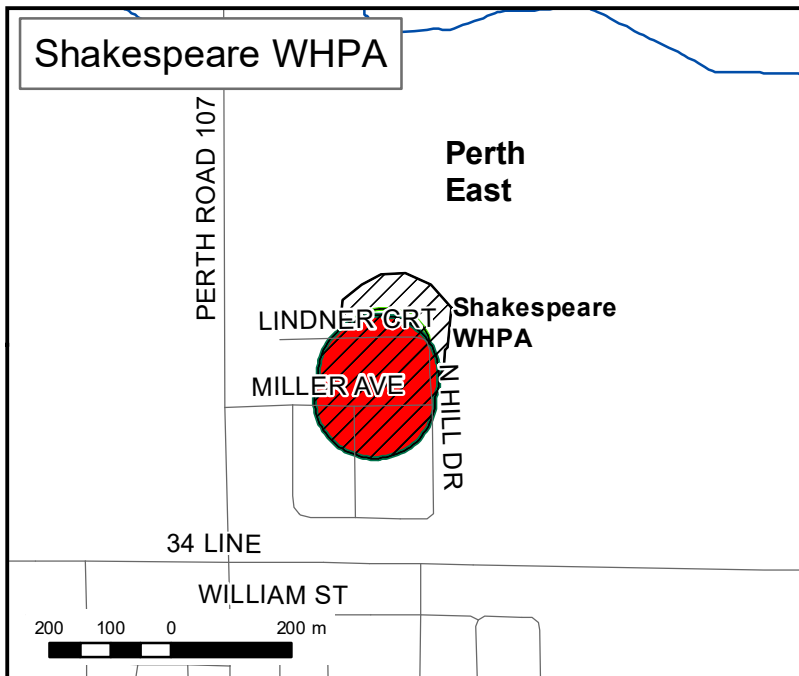
Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Amended Proposed Assessment Report Revised - August 12, 2011.

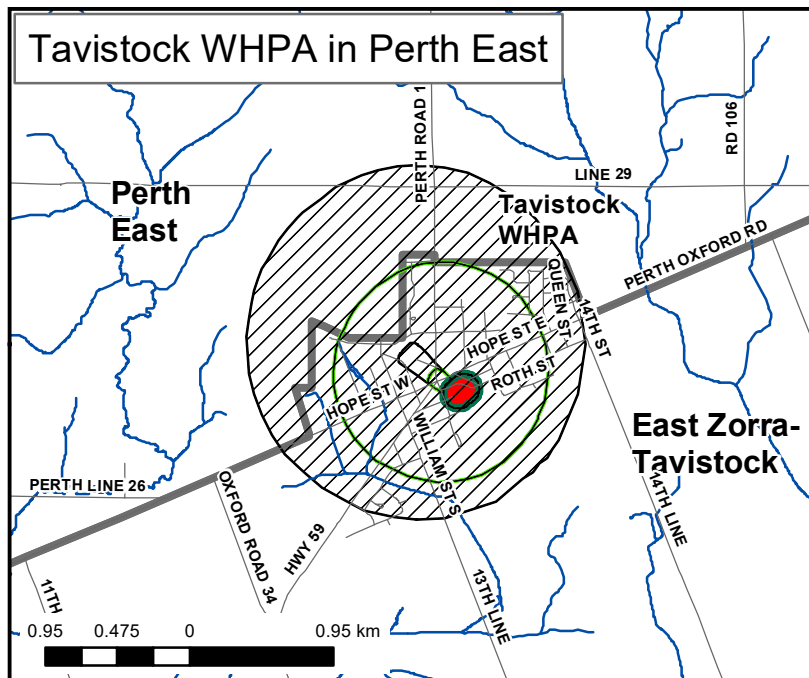
Stratford WHPA in Perth East



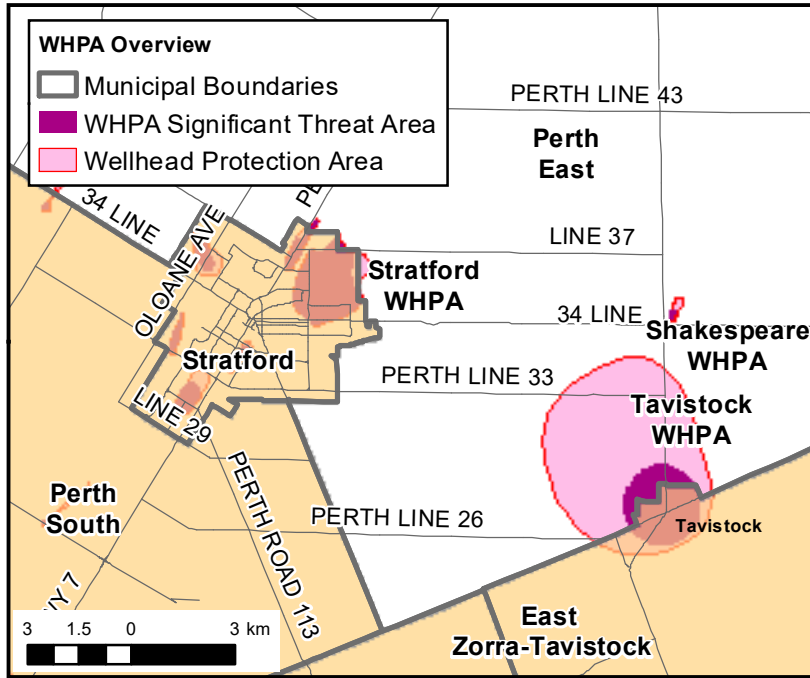
Shakespeare WHPA



Tavistock WHPA in Perth East



WHPA Overview



Map 3-1-6 Perth East Wellhead Protection Area (WHPA) Significant Threat Policy Applicability Area

Thames-Sydenham and Region Source Protection Plan

Legend

DNAPL Policy Area

WHPA-A,B,C

Significant Threat Areas

WHPA-A

WHPA-B

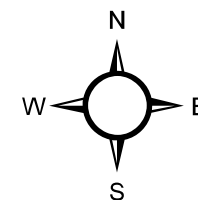
WHPA-C

Municipal Boundaries

Vulnerability Score

8

10

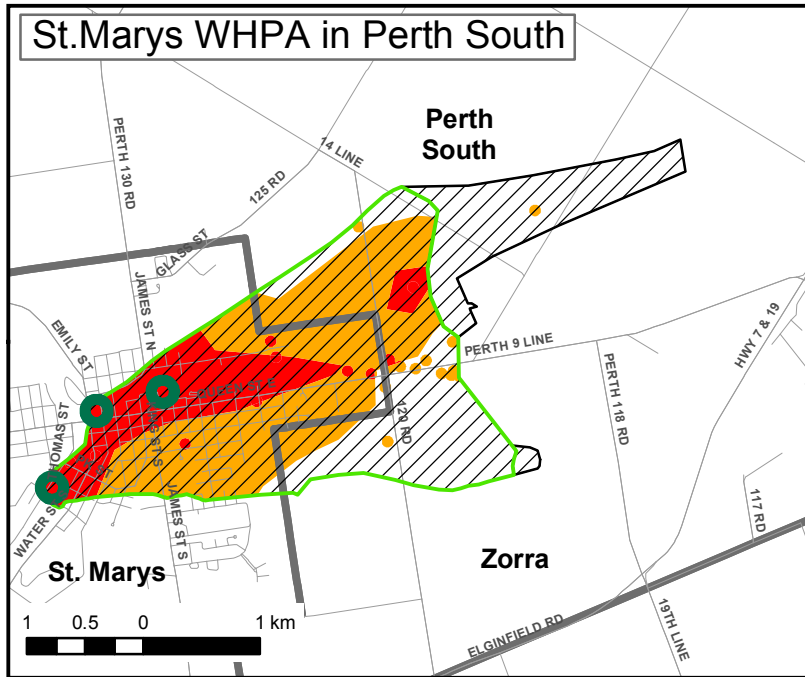


Map created by Thames-Sydenham and Region Source Protection Region (TSR SPR), March 20, 2020, as part of Upper Thames River Source Protection Area Assessment Report 2021 Update.

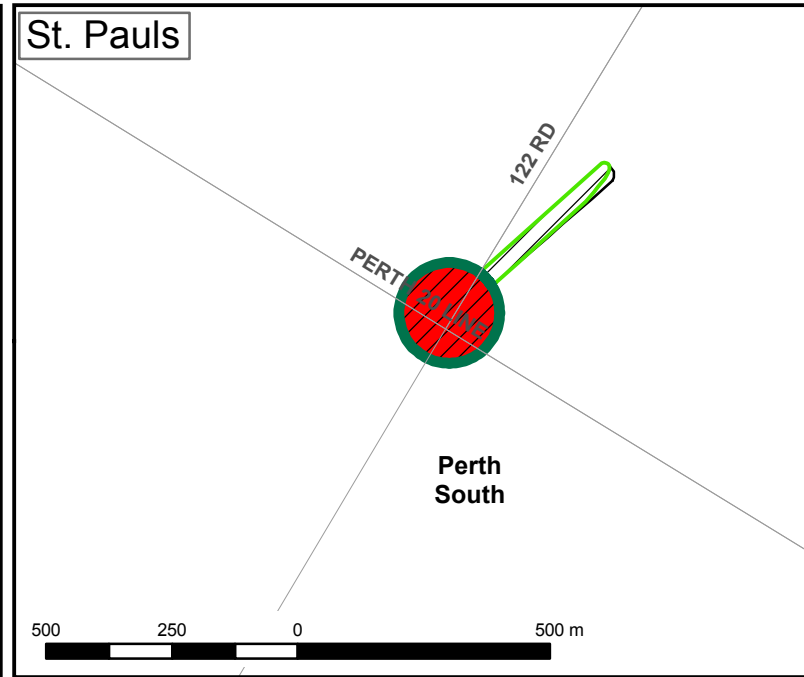
Base mapping - Contains information licensed under the Open Government Licence - Ontario.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Assessment Report, Approved September 2015.

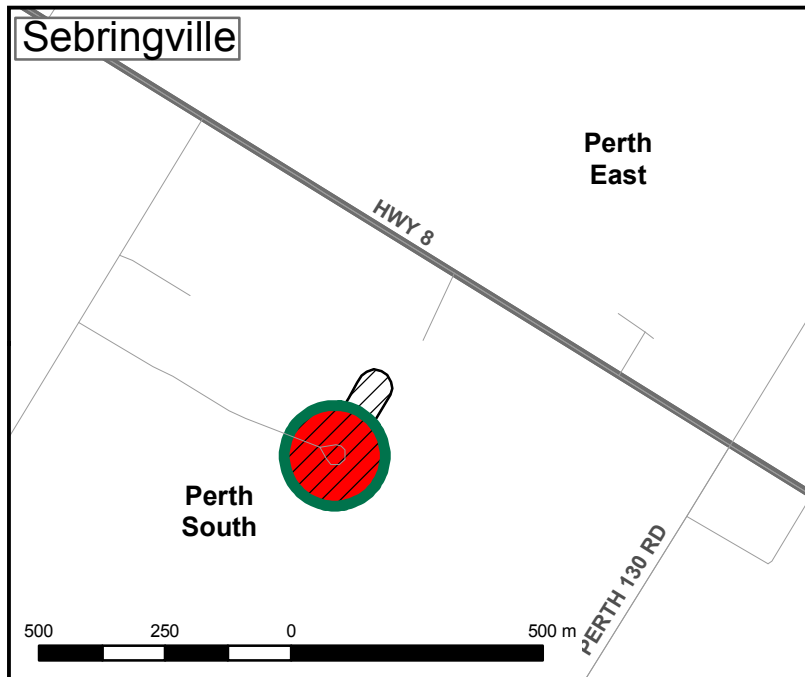
St. Marys WHPA in Perth South



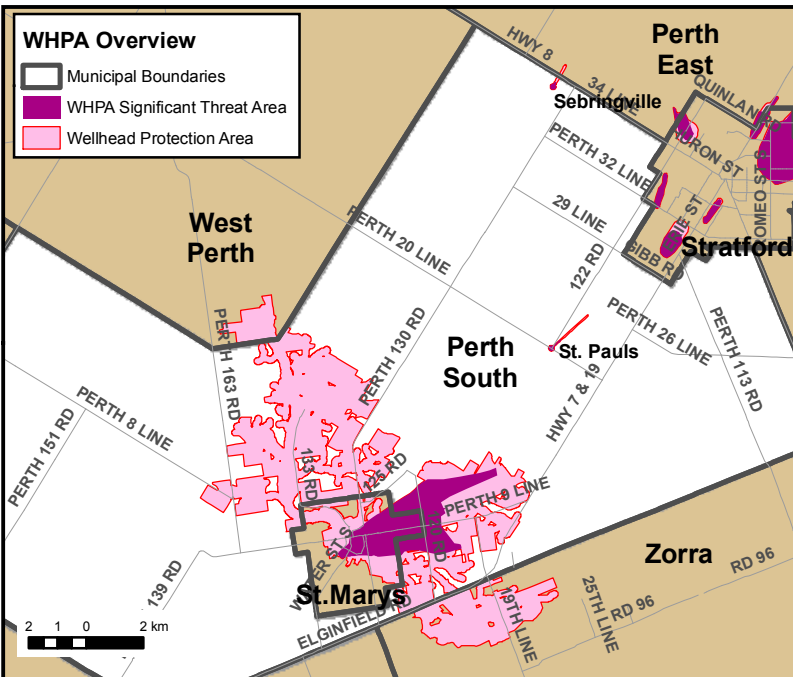
St. Pauls



Sebringville



WHPA Overview

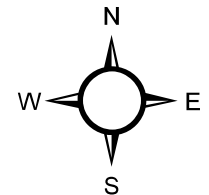


Map 3-1-7 Perth South Wellhead Protection Area (WHPA) Significant Threat Policy Applicability Area

Thames-Sydenham and Region Source Protection Plan

Legend

- Municipal Boundaries
- Significant Threat Areas**
 - WHPA-A
 - WHPA-B
 - WHPA-C
- DNAPL Policy Area**
 - WHPA-A,B,C
- Vulnerability Score**
 - 8
 - 10



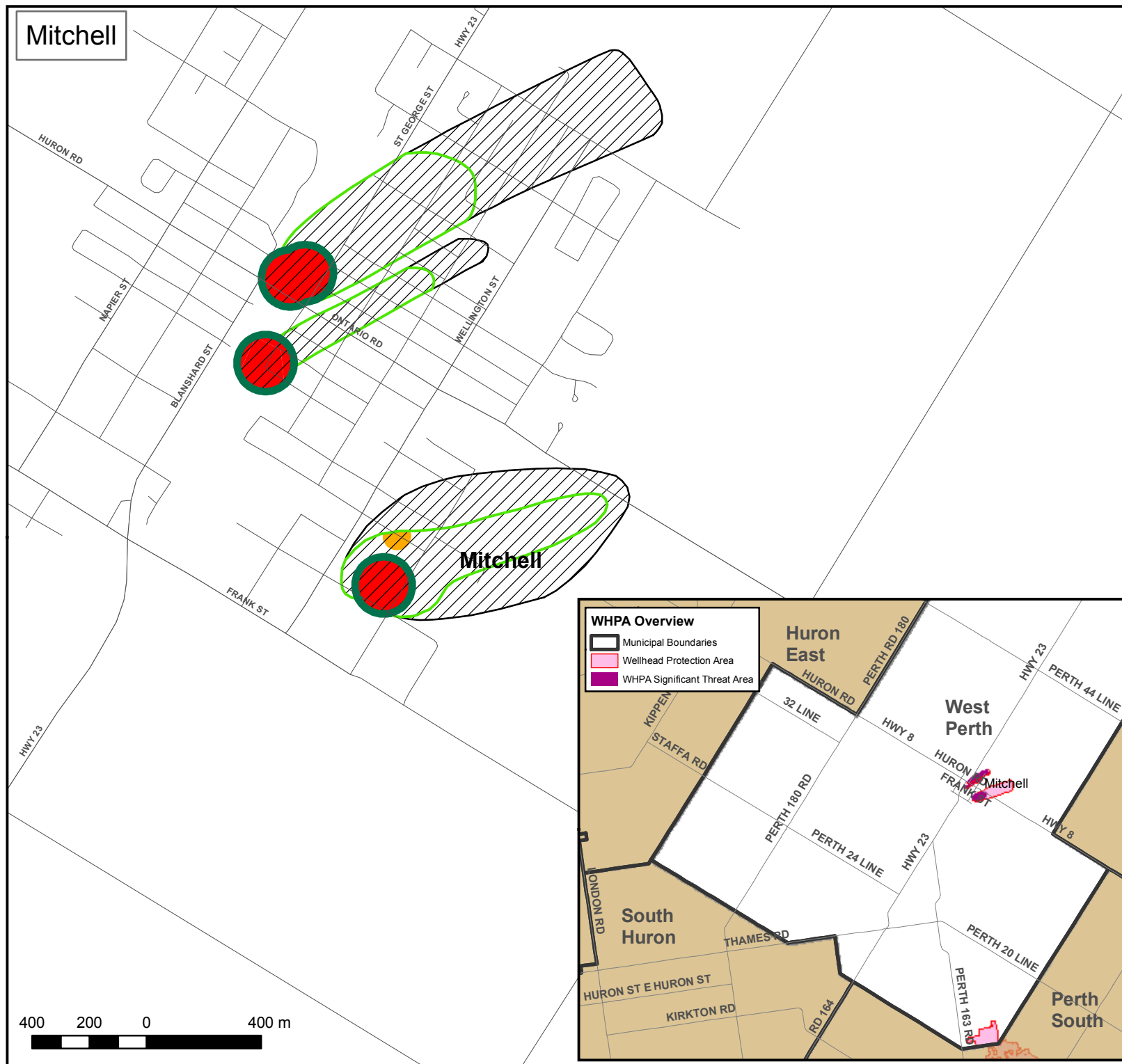
Map created by UTRCA, June 20, 2012.

Base mapping produced under license with the Ontario Ministry of Natural Resources, © 2012.

Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Amended Proposed Assessment Report Revised - August 12, 2011.

Mitchell



**Map 3-1-8
West Perth
Wellhead Protection Area
(WHPA)
Significant Threat Policy
Applicability Area**

**Thames-Sydenham and Region
Source Protection Plan**

Legend

Municipal Boundaries

Significant Threat Areas

WHPA-A

WHPA-B

WHPA-C

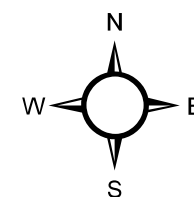
DNAPL Policy Area

WHPA-A,B,C

Vulnerability Score

8

10

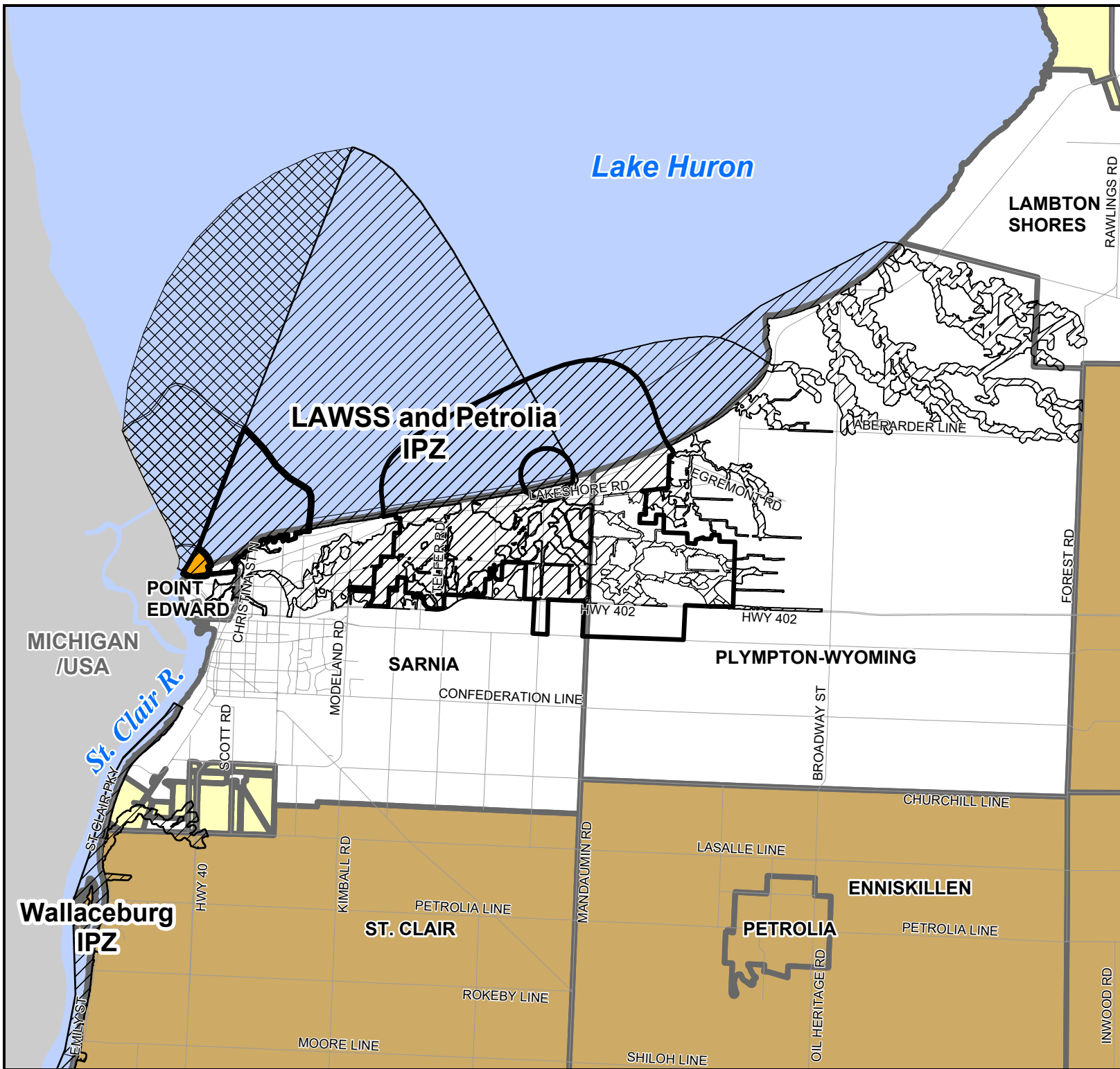


Map created by UTRCA, June 20, 2012.

Base mapping produced under license with the Ontario Ministry of Natural Resources, © 2012.

Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Amended Proposed Assessment Report Revised - August 12, 2011.

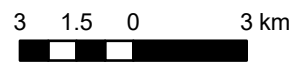
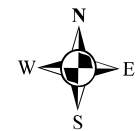


Map 3-1-9
Point Edward,
Plympton-Wyoming
and Sarnia
Intake Protection Zones (IPZ)
Significant Threat
Policy Applicability Area

Thames-Sydenham and Region
Source Protection Plan

Legend

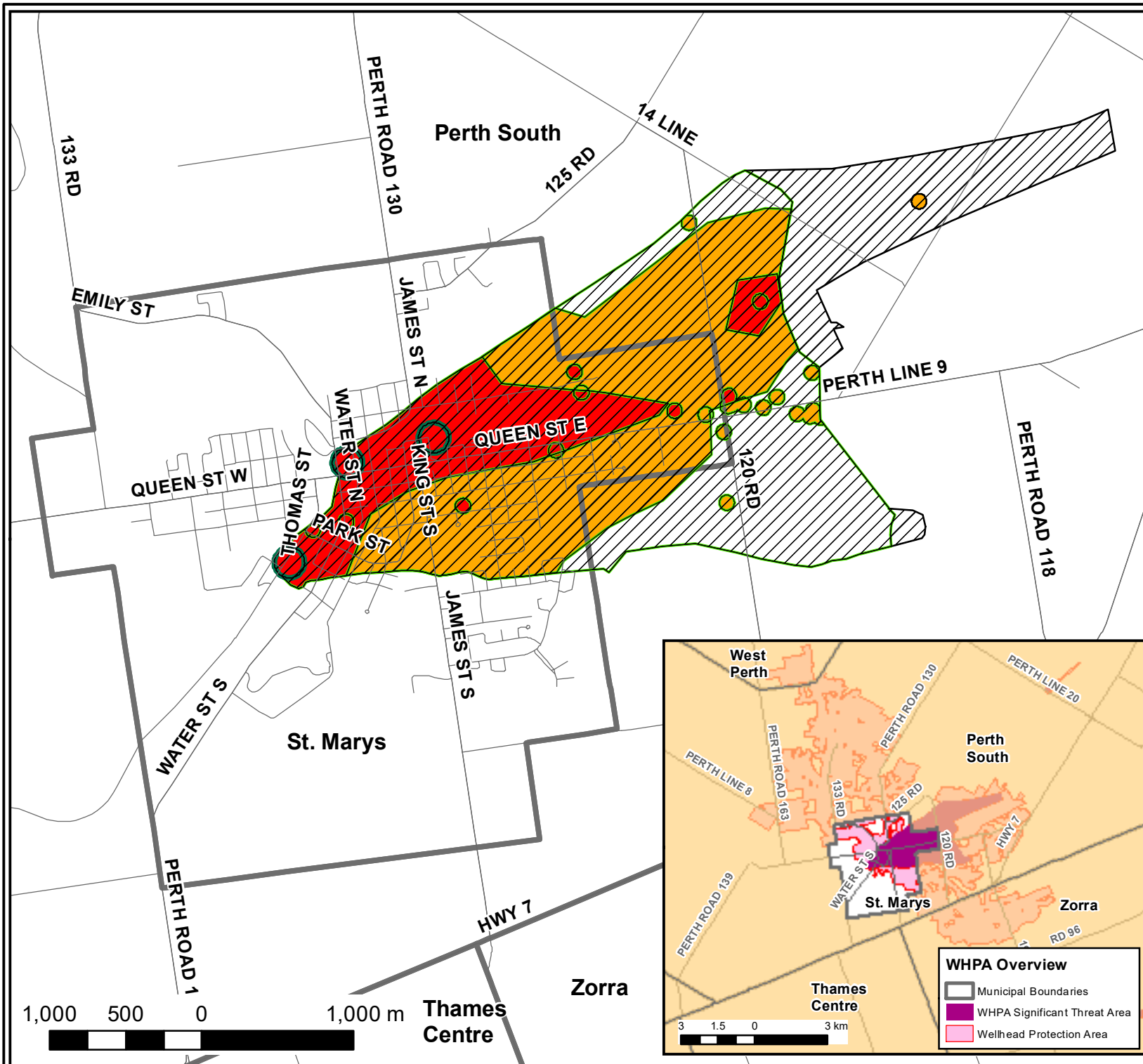
- Municipal Boundaries
- First Nations Reserves, Settlements, and Home Lands
- Significant Threat Areas**
- IPZ-1,2
- IPZ-3
- Vulnerability Score =8
- Event Based Area
- Area beyond the current jurisdiction of this assessment. Additional information required.



Map created by Thames-Sydenham and Region Source Protection Region (TSRSPR), as part of St. Clair Region Source Protection Area Update.

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Map revisions from June 2012, updated January 2026.



Map 3-1-10
St. Marys
Wellhead Protection Area
(WHPA)
Significant Threat Policy
Applicability Area

Thames-Sydenham and Region
Source Protection Plan

Legend

Significant Threat Areas

- WHPA-A
- WHPA-B
- WHPA-C

DNAPL Policy Area

- WHPA-A,B,C

Vulnerability Score

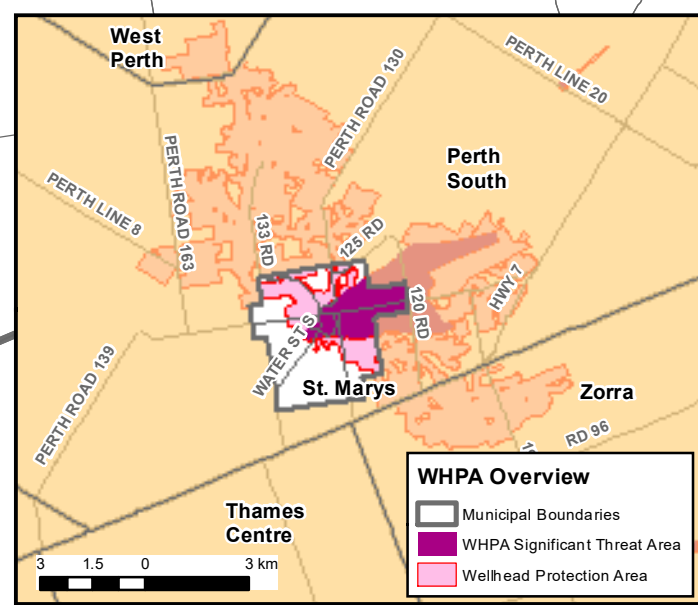
- 8
- 10

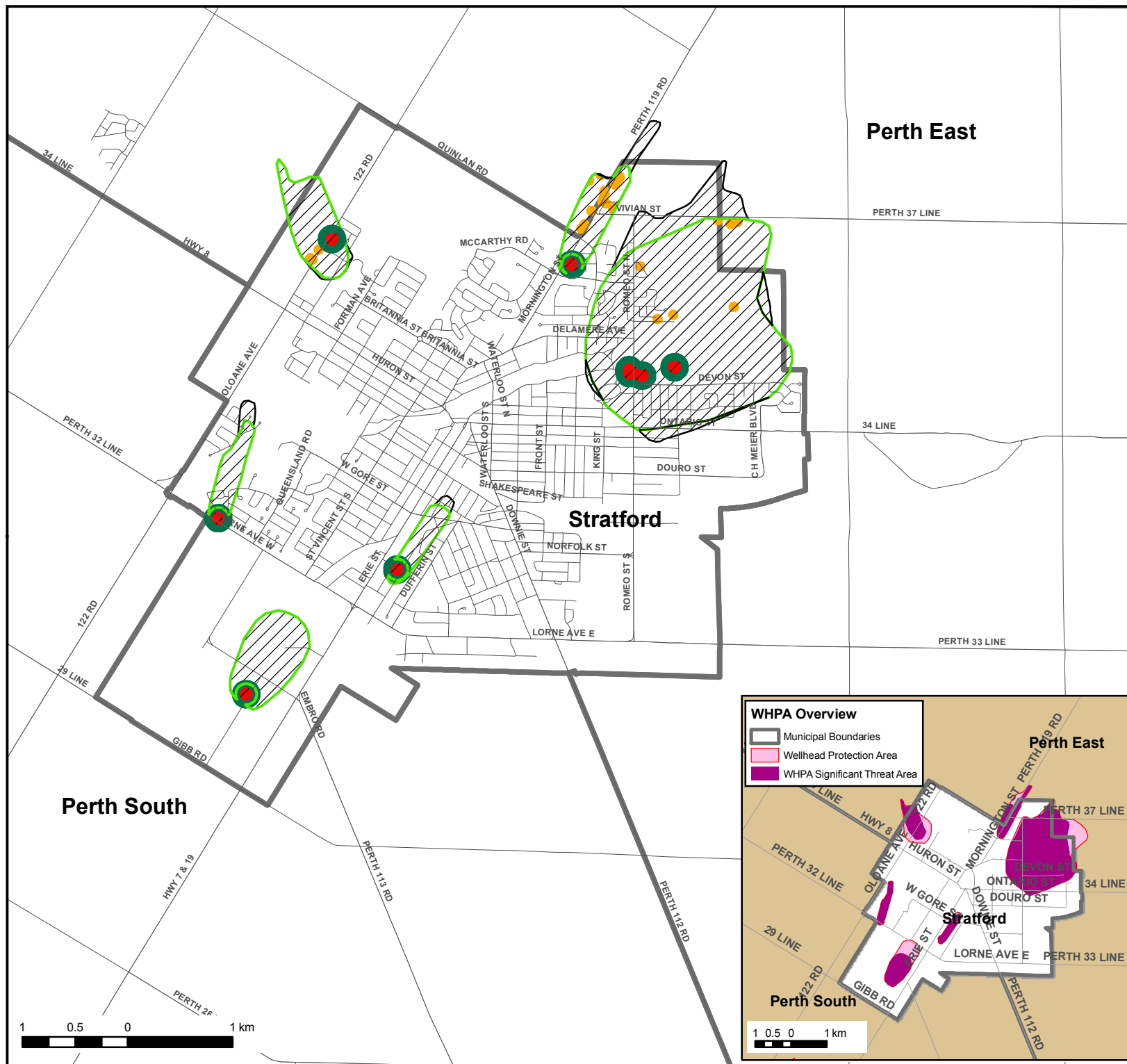
Municipal Boundaries

Map created by Thames-Sydenham and Region Source Protection Region (TSR SPR), March 20, 2020, as part of Upper Thames River Source Protection Area Assessment Report 2021 Update.

Base mapping - Contains information licensed under the Open Government Licence - Ontario.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Assessment Report, Approved September 2015, modified by Upper Thames River Source Protection Area, March 2020.



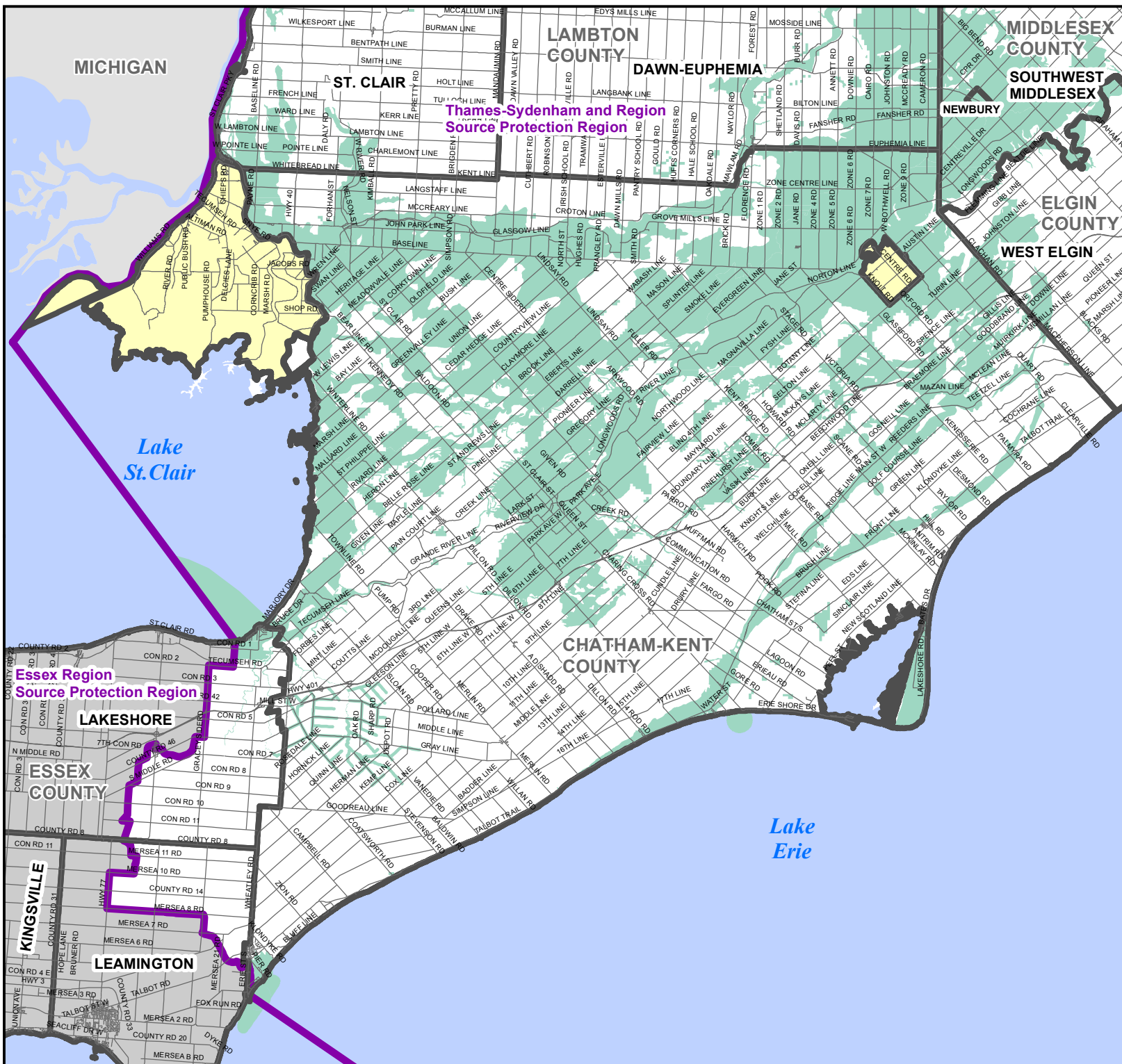


Map created by UTRCA, June 26, 2012.

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Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Wellhead Protection Areas and Vulnerability Assessment - as contained in the approved Upper Thames River Source Protection Area - Amended Proposed Assessment Report Revised - August 12, 2011.



Map 3-2-1
Chatham-Kent and Essex
Moderate and Low Threat
Policy Applicability Area

Thames-Sydenham and Region
Source Protection Plan

Legend

- Municipal Boundaries
- First Nation Reserve
- Source Water Region Boundary
- Outside Source Protection Region
- Moderate and Low Policy Area

Map created by UTRCA, November 13, 2014.

Base mapping produced under license with the Ontario Ministry of Natural Resources, © 2014.

Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

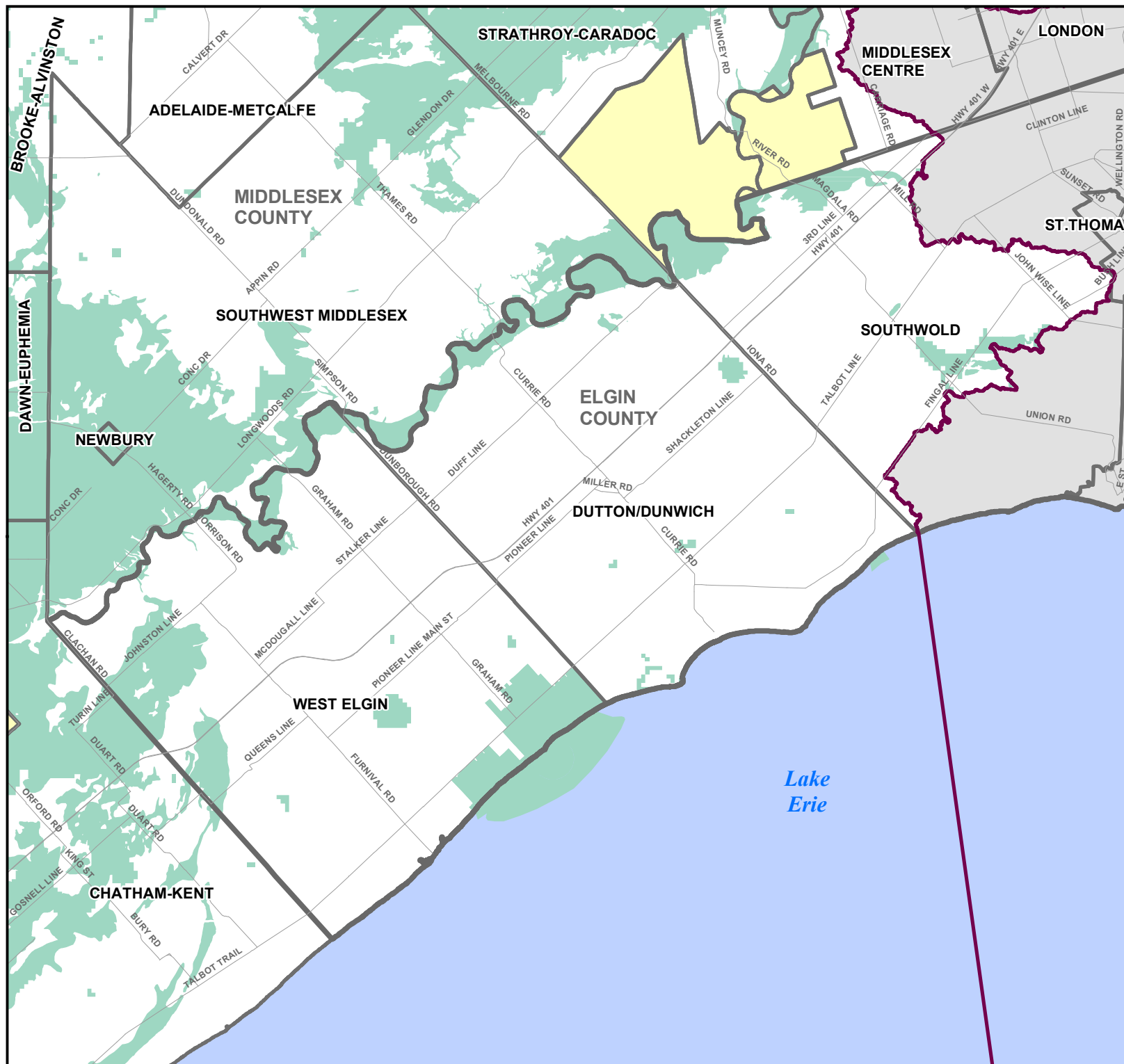
Moderate and Low Policy Areas based on Vulnerability Score Areas >4 as defined in:

1. St. Clair Region Source Protection Area Approved Updated Assessment Report Revised - May 13, 2011
2. Lower Thames Valley Source Protection Area Approved Amended Proposed Assessment Report - November 12, 2010.
3. Event Based Area and IPZ-3 - Thames-Sydenham and Region Source Protection Region, 2014 .

DRINKING WATER
SOURCE PROTECTION
ACT FOR CLEAN WATER

Thames-Sydenham
and Region

UPPER THAMES RIVER
CONSERVATION AUTHORITY

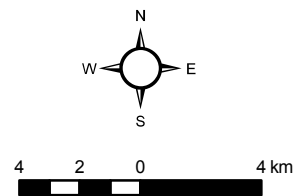


Map 3-2-2
Elgin County
Moderate and Low Threat
Policy Applicability Area

Thames-Sydenham and Region
Source Protection Plan

Legend

- Source Protection Region
- Municipal Boundaries
- First Nation Reserve
- Moderate and Low Policy Area
- Outside Source Protection Region



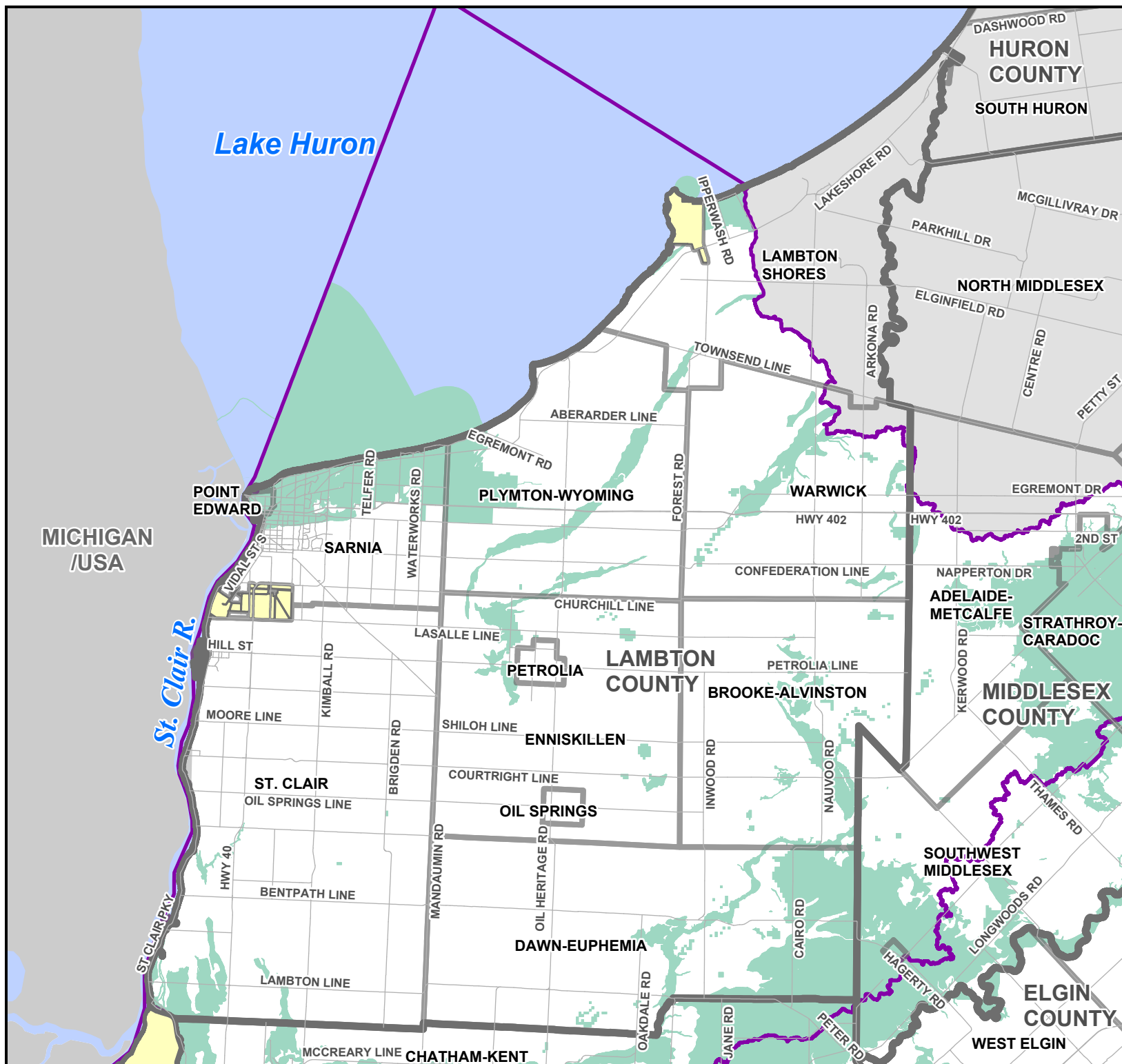
Map created by UTRCA, June 26, 2012.

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Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Moderate and Low Policy Areas based on Vulnerability Score Areas >4 as defined in:

1. St. Clair Region Source Protection Area Approved Updated Assessment Report Revised - May 13, 2011
2. Lower Thames Valley Source Protection Area Approved Amended Proposed Assessment Report - November 12, 2010.

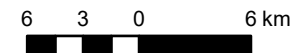


Map 3-2-3
Lambton County
Moderate and Low Threat
Policy Applicability Area

Thames-Sydenham and Region
Source Protection Plan

Legend

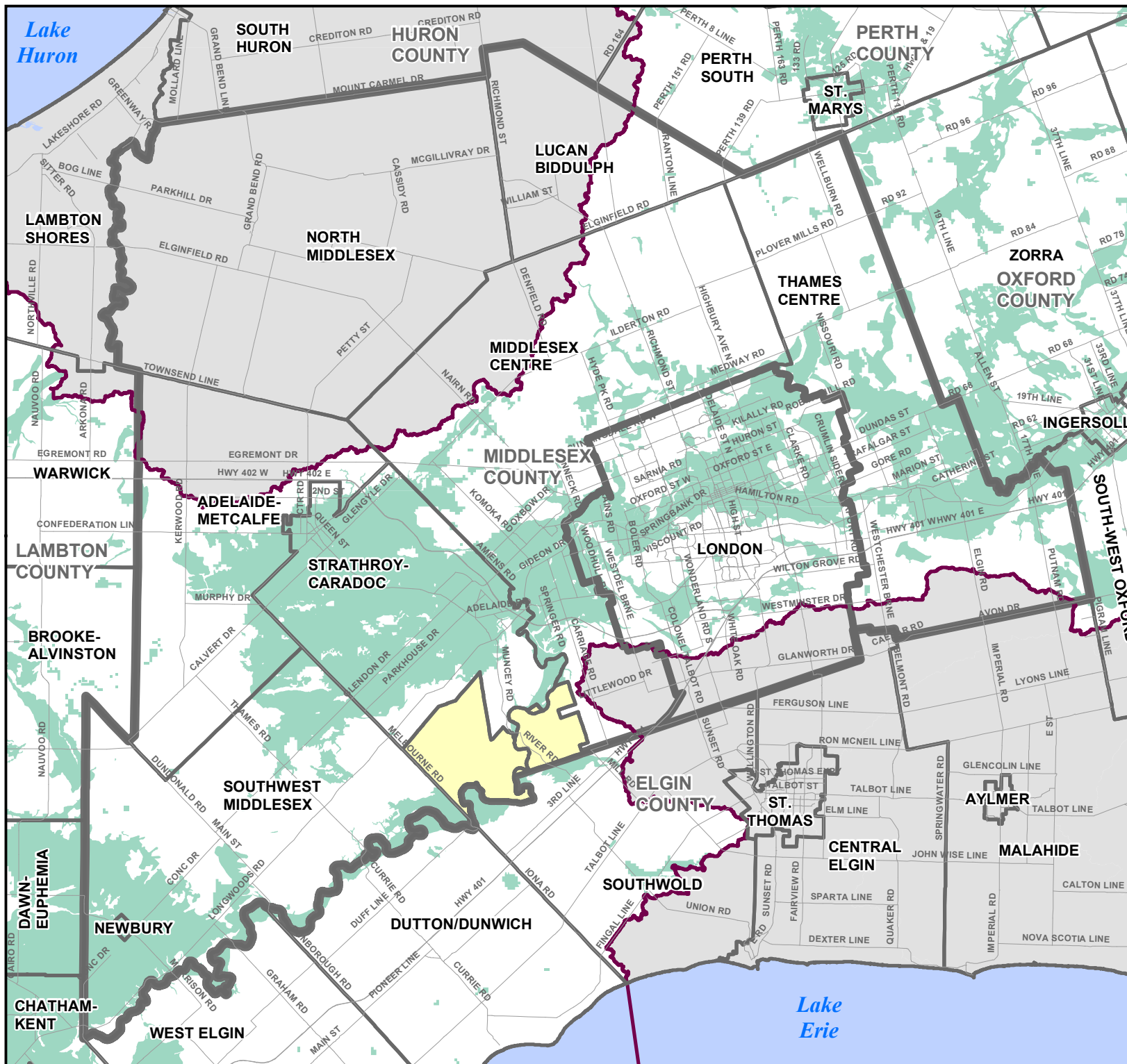
- Source Protection Region
- Municipal Boundaries
- First Nations Reserves, Settlements, and Home Lands
- Moderate and Low Policy Area



Map created by Thames-Sydenham and Region Source Protection Region (TSRSPR), as part of St. Clair Region Source Protection Area Update.

Base mapping - Contains information licensed under the Open Government Licence – Ontario.

Map revisions from June 2012, updated January 2026.

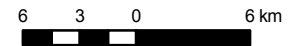
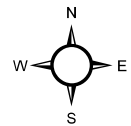


Map 3-2-4 **Middlesex and London** **Moderate and Low Threat** **Policy Applicability Area**

Thames-Sydenham and Region **Source Protection Plan**

Legend

- Source Protection Region
- Municipal Boundaries
- First Nation Reserve
- Moderate and Low Policy Area
- Outside Source Protection Region



Map created by UTRCA, June 26, 2012.

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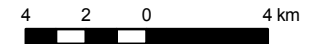
Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.

Moderate and Low Policy Areas based on Vulnerability Score Areas >4 as defined in:

1. St. Clair Region Source Protection Area Approved Updated Assessment Report Revised - May 13, 2011.
2. Lower Thames Valley Source Protection Area Approved Amended Proposed Assessment Report - November 12, 2010.
3. Upper Thames River Source Protection Area Approved Amended Proposed Assessment Report Revised - August 12, 2011.

Thames-Sydenham and Region Source Protection Plan

 Source Protection Region
 Municipal Boundaries
 Moderate and Low Policy Area
 Outside Source Protection Region



Moderate and Low Policy Areas based on Vulnerability Score Areas > 4 as defined in:
Upper Thames River Source Protection Area
Approved Amended Proposed Assessment
Report Revised - August 12, 2011.