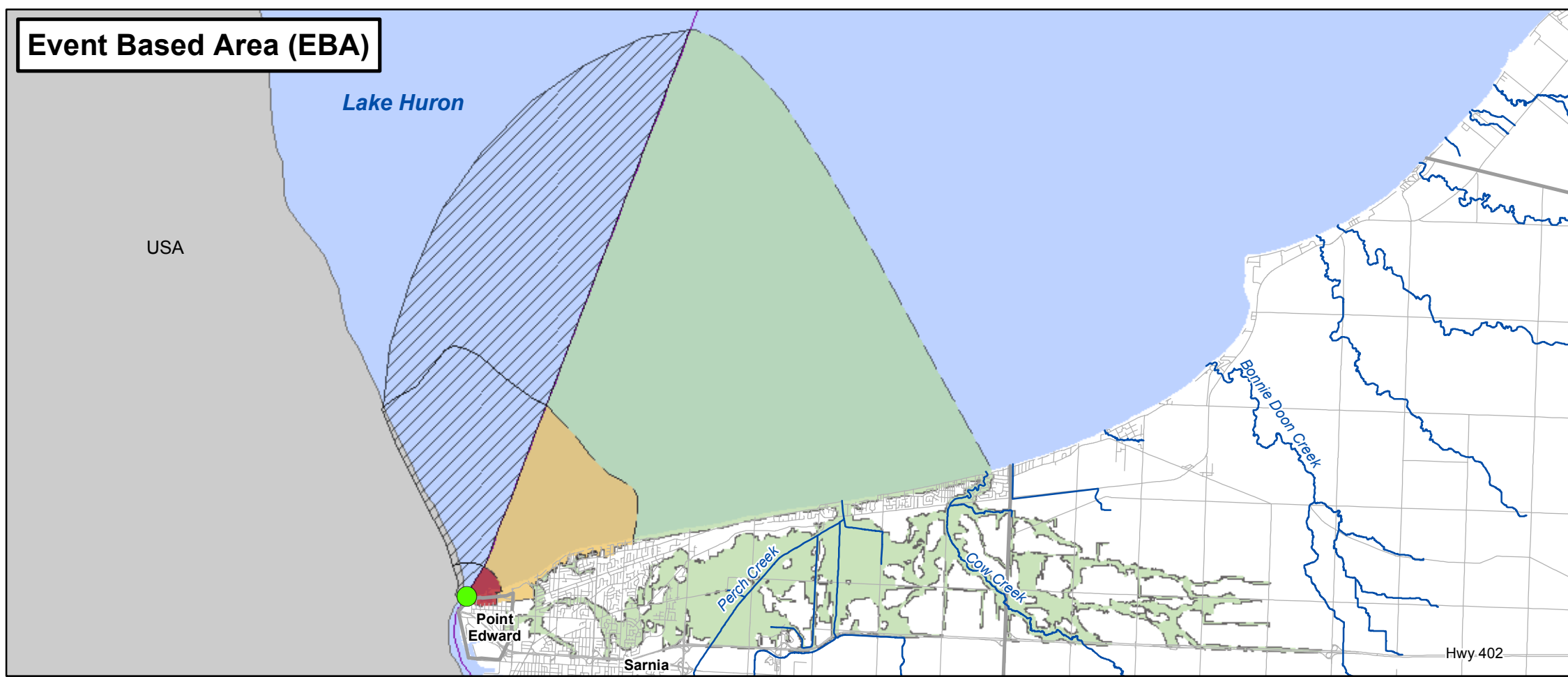


Event Based Area (EBA)



**Map 4-2b
Lambton Area Water Supply
System Fuel Event Based Areas**

**St. Clair Region
Source Protection Area
Assessment Report**

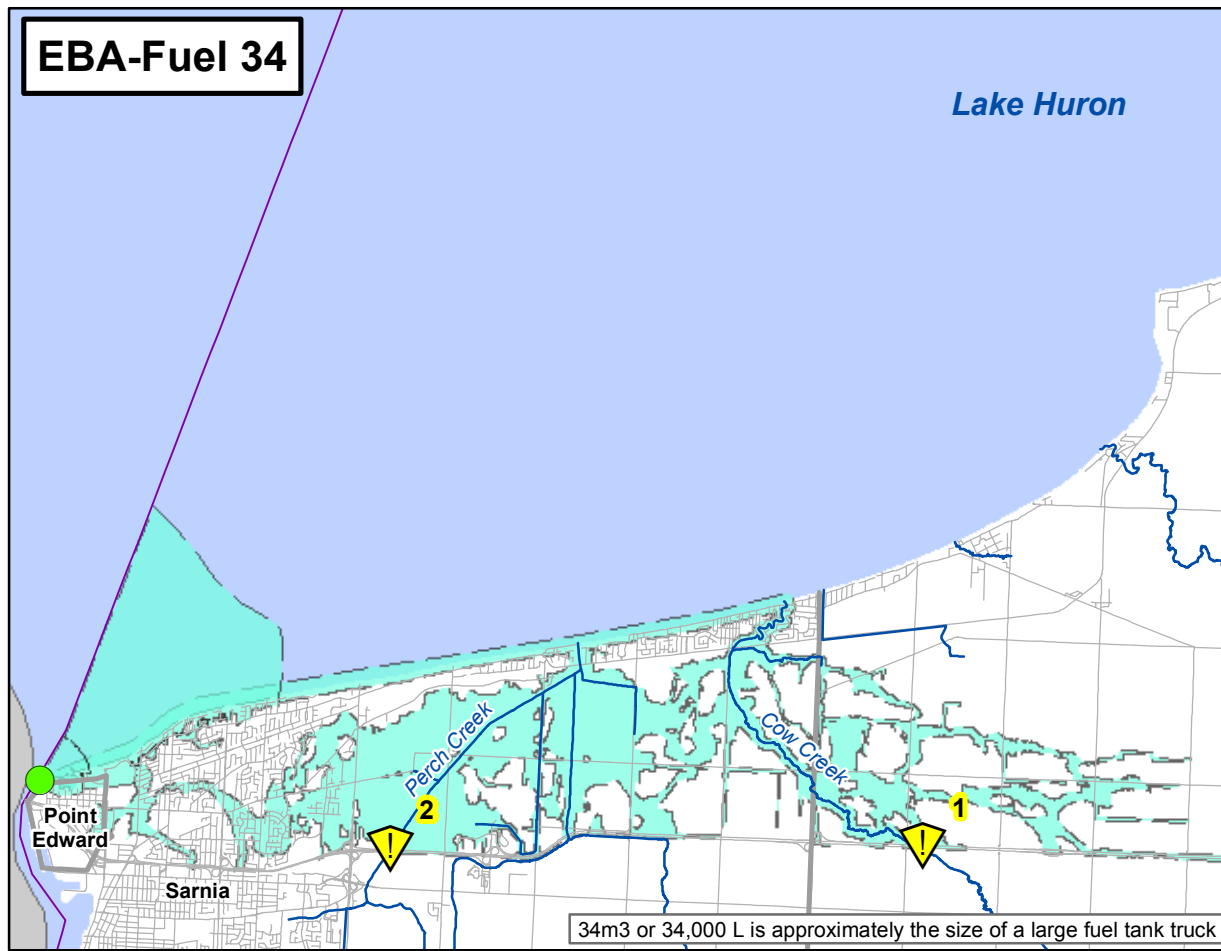
Legend

- Municipal Boundaries
- St. Clair Region Source Protection Area
- ▨ Area beyond the current jurisdiction of this assessment. Additional information required.

Intake Protection Zones

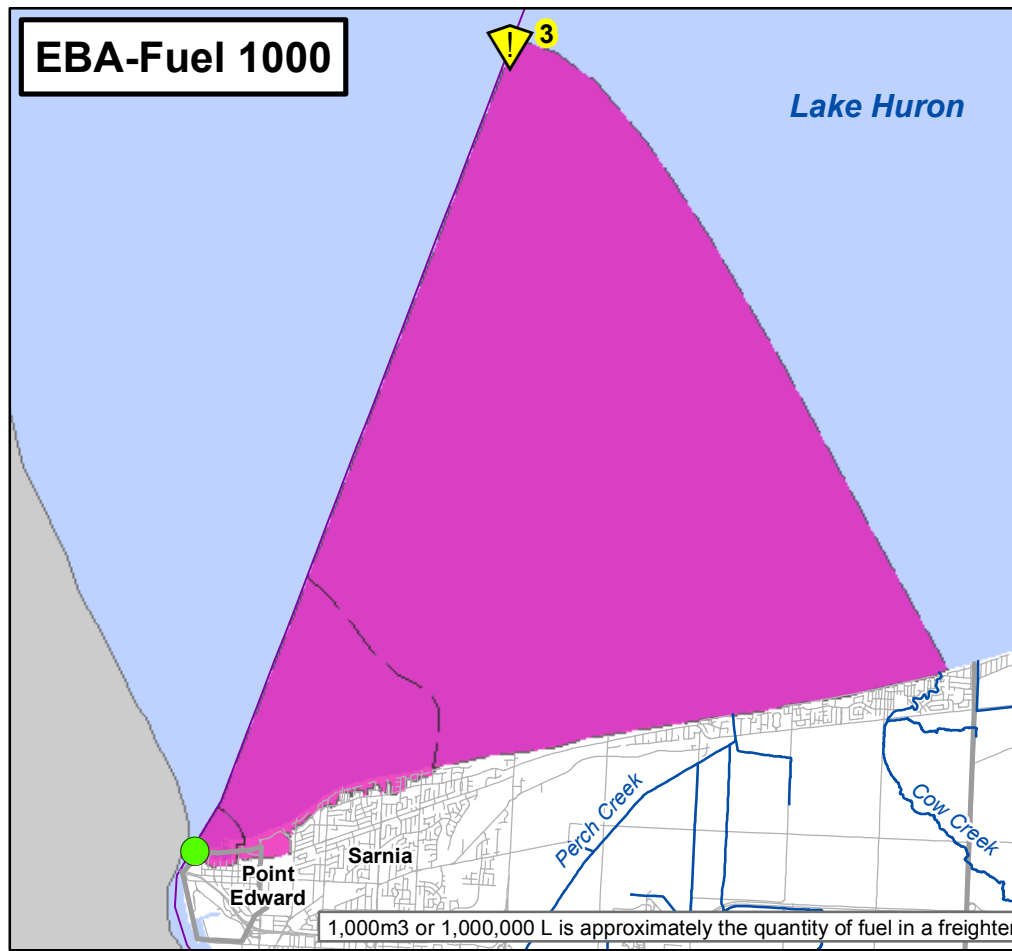
- Surface Water Intake
- IPZ-1
- IPZ-2
- IPZ-3
- EBA-Fuel 34 m³ (34,000 L)
- EBA-Fuel 1,000 m³ (1,000,000 L)
- ⚠ Event Modelled Spill Locations

EBA-Fuel 34



34m³ or 34,000 L is approximately the size of a large fuel tank truck

EBA-Fuel 1000



1,000m³ or 1,000,000 L is approximately the quantity of fuel in a freighter

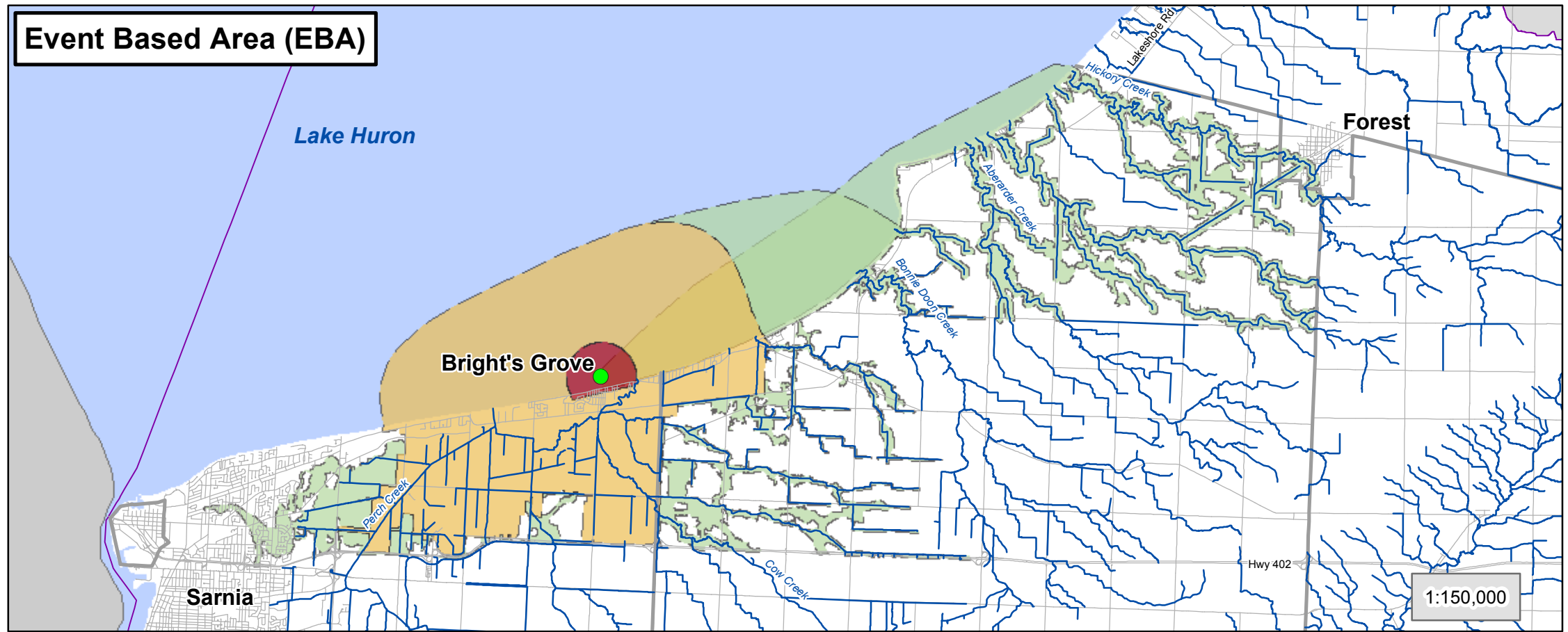


Map created by SCRC, October, 2014.
 Base mapping produced under license with the Ontario Ministry of Natural Resources. © 2014.
 Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.
 Lambton Area Water Supply System and Petrolia Intake Protection Zones 1 & 2 provided by R.V. Anderson and Associates, November 2009. Intake Protection Zone 3 provided by Baird & Associates, April 28, 2011.
 Intake Protection Zone 3 Revisions based on Longitudinal Analysis in Support of IPZ-3 Revision for Petrolia, LAWSS and Wallaceburg Intakes, SCRC, 2014

DRINKING WATER SOURCE PROTECTION
 ACT FOR CLEAN WATER

Thames-Sydenham & Region

Event Based Area (EBA)



**Map 4-3b
Petrolia
Fuel Event Based Areas**

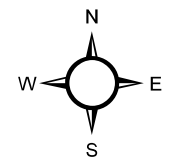
**St. Clair Region
Source Protection Area
Assessment Report**

Legend

- Municipal Boundaries
- St. Clair Region Source Protection Area

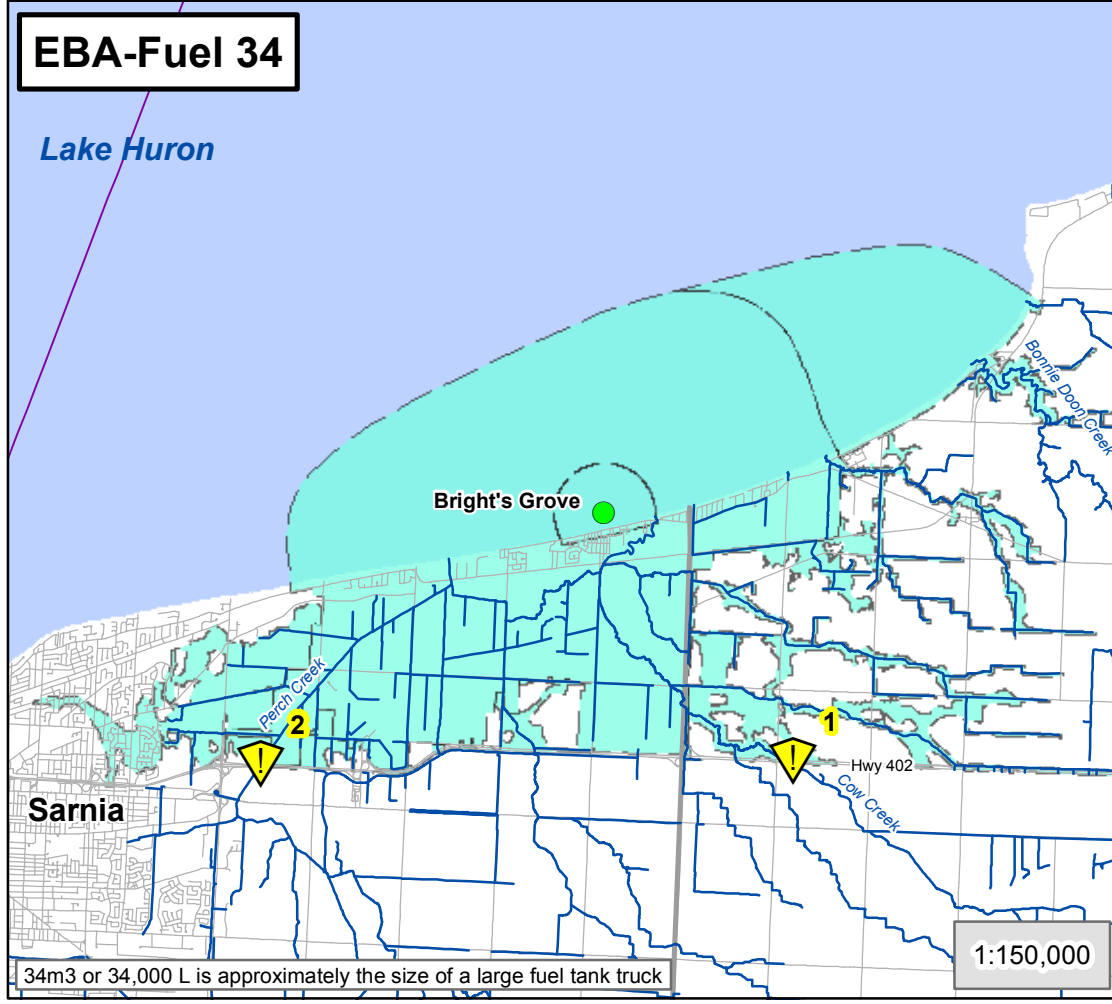
Intake Protection Zone

- Surface Water Intake
- IPZ-1
- IPZ-2
- IPZ-3
- EBA-Fuel 34 m3 (34,000 L)
- EBA-Fuel 15 m3 (15,000 L)
- ⚠ Event Modelled Spill Locations



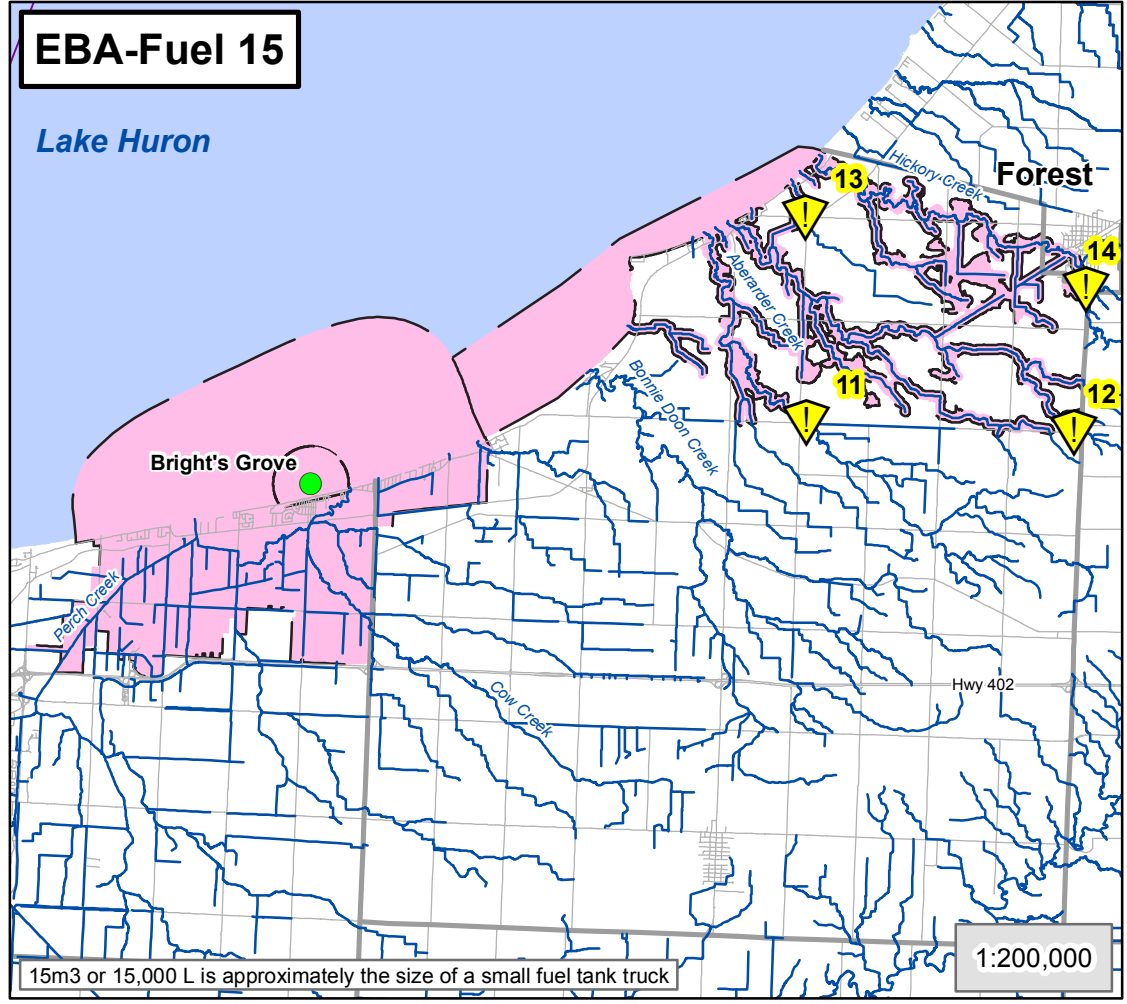
Map created by SCRCA, October, 2014.
 Base mapping produced under license with the Ontario Ministry of Natural Resources. © 2014.
 Source Protection Area Boundary provided by Ontario Ministry of the Environment, 2006.
 Lambton Area Water Supply System and Petrolia Intake Protection Zones 1 & 2 provided by R.V. Anderson and Associates, November 2009. Intake Protection Zone 3 provided by Baird & Associates, April 28, 2011.
 Intake Protection Zone 3 Revisions based on Longitudinal Analysis in Support of IPZ-3 Revision for Petrolia, LAWSS and Wallaceburg Intakes, SCRCA, 2014

EBA-Fuel 34

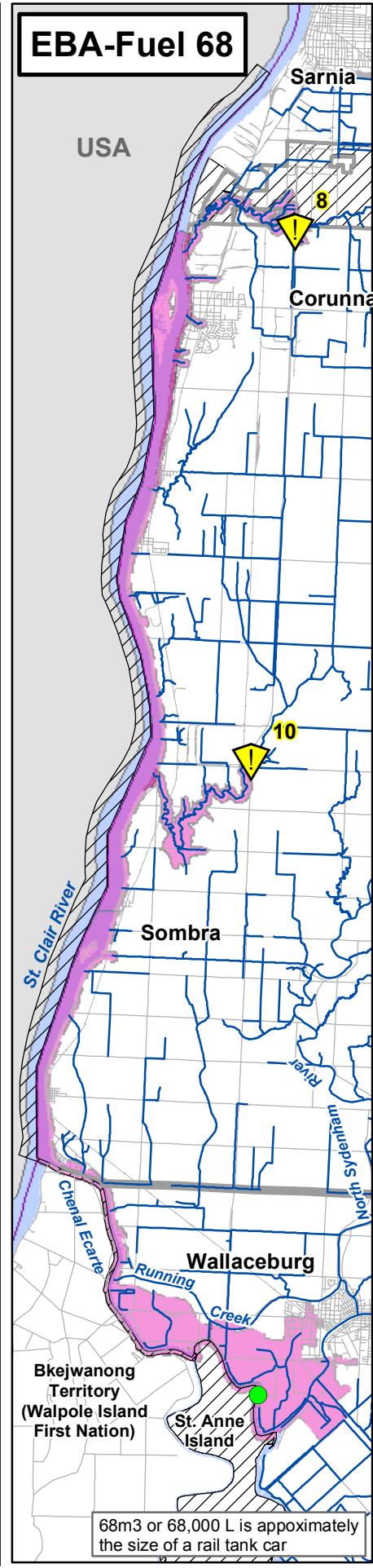
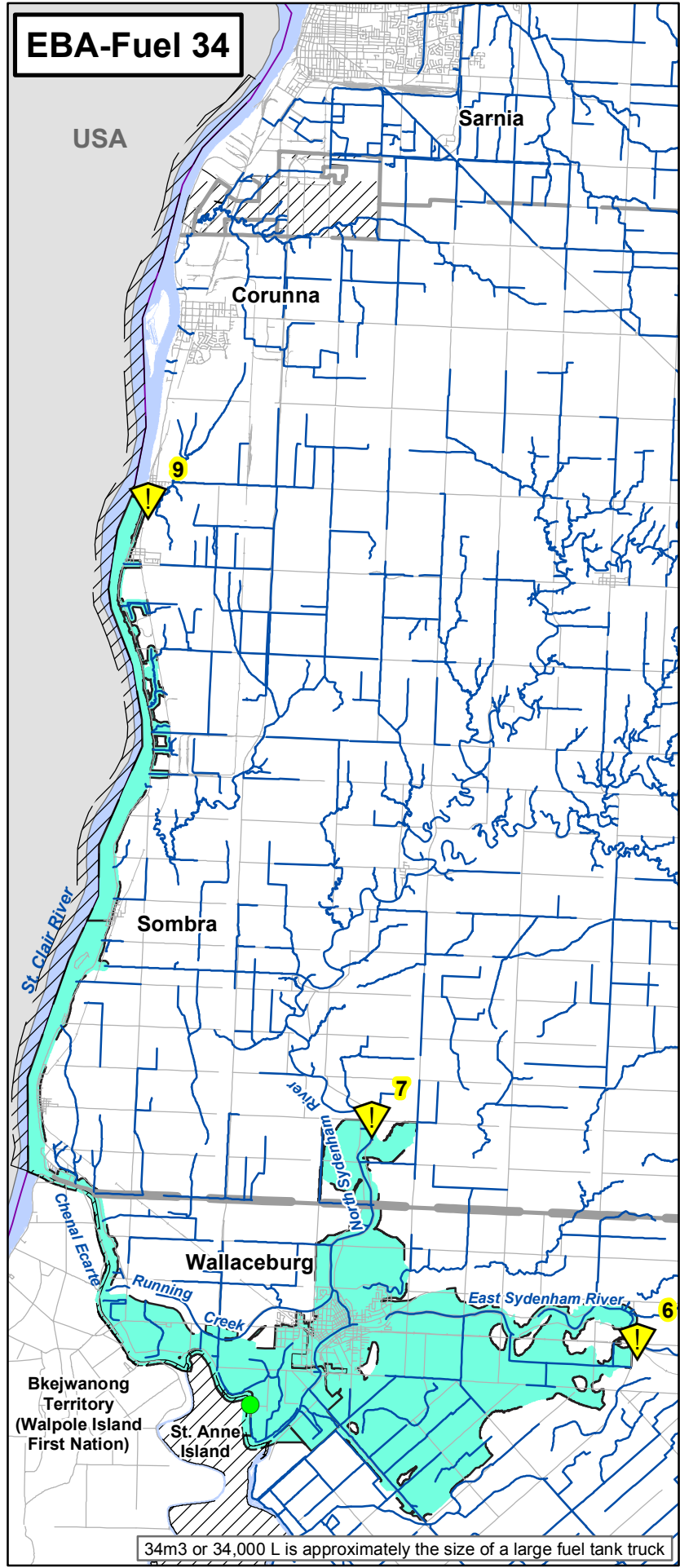
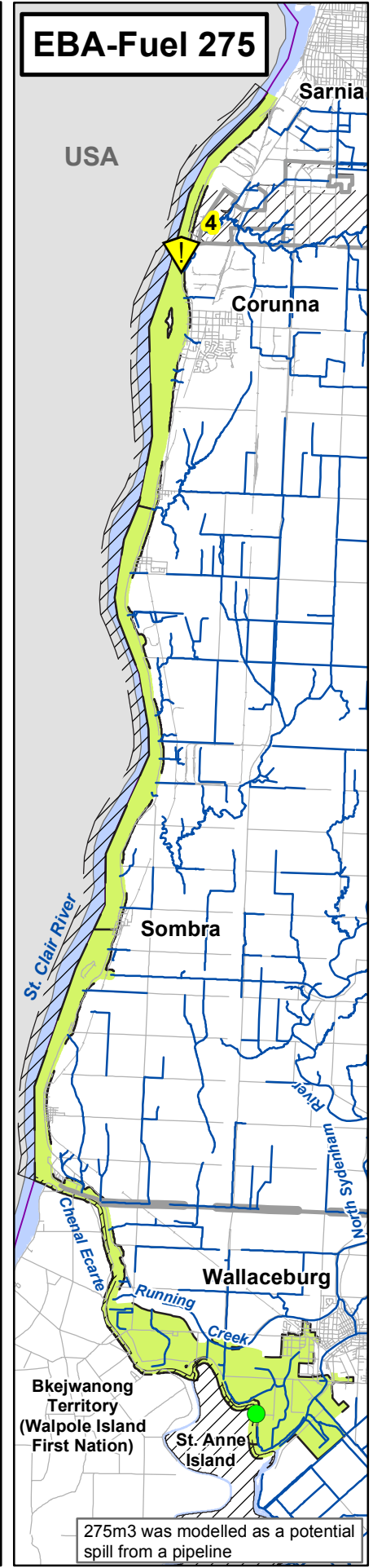
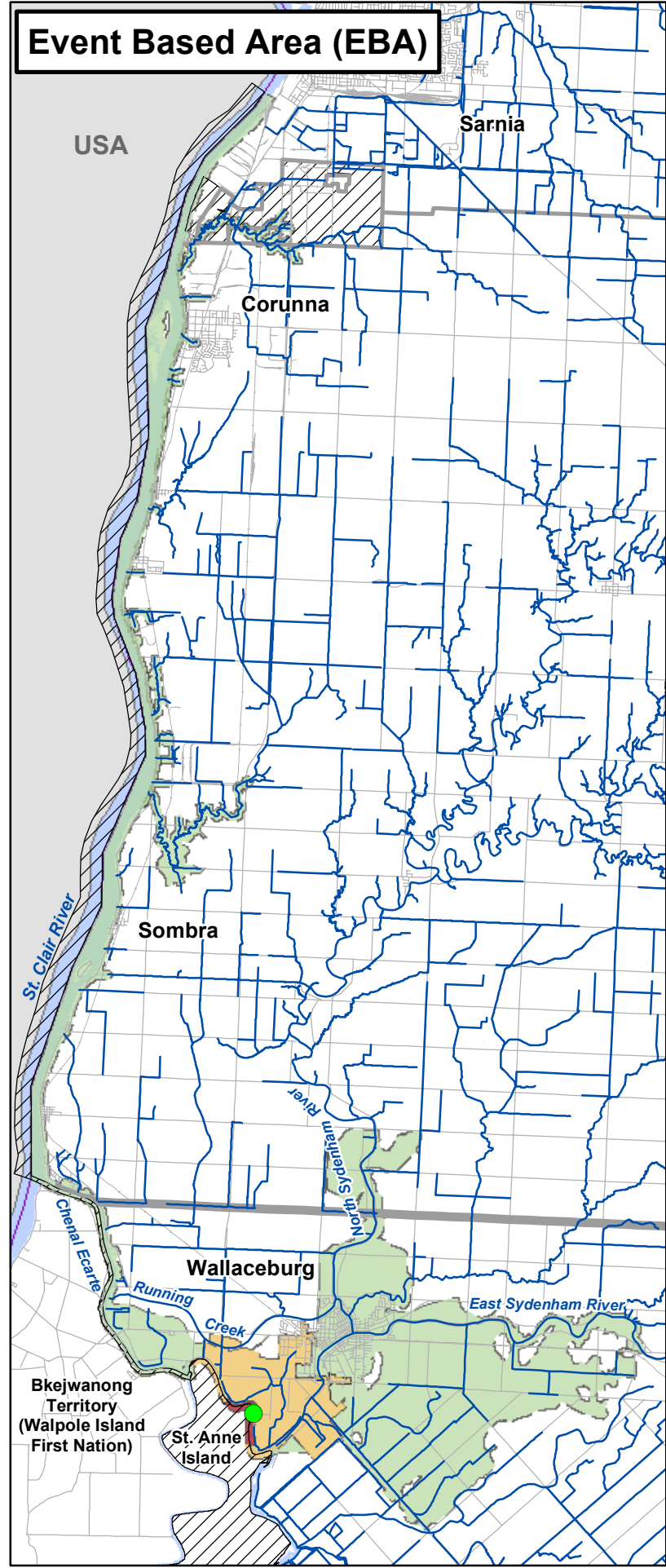


34m3 or 34,000 L is approximately the size of a large fuel tank truck

EBA-Fuel 15



15m3 or 15,000 L is approximately the size of a small fuel tank truck



Map 4-4b Wallaceburg Fuel Event Based Areas

St. Clair Region Source Protection Area Assessment Report

Legend

- Area beyond the current jurisdiction of this assessment. Additional information required.
- Municipal Boundaries
- St. Clair Region Source Protection Area

Intake Protection Zone

- Surface Water Intake
- IPZ-1
- IPZ-2
- IPZ-3
- EBA-Fuel 275 m3 (275,000 L)
- EBA-Fuel 34 m3 (34,000 L)
- EBA-Fuel 68 m3 (68,000 L)
- Event Modelled Spill Locations

0 1 2 4 6 8
Kilometres

Map created by SCRCA, October, 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 provided by Stantec Consulting, February 2010. Intake Protection Zone 3 provided by Baird & Associates, April 28, 2011.

Intake Protection Zone 3 Revisions based on Longitudinal Analysis in Support of IPZ-3 Revision for Petrolia, LAWSS and Wallaceburg Intakes, SCRCA, 2014

St. Anne Island – The identified area does not fall within the jurisdiction of this assessment at this time. The 120 m setback applied to the Chenal Ecarte has been noted on the map. Additional information regarding the flow of water from the island into the Chenal Ecarte has been collected, however additional information would be required to denote specific areas which could provide water to the intake within the two hour time of travel.

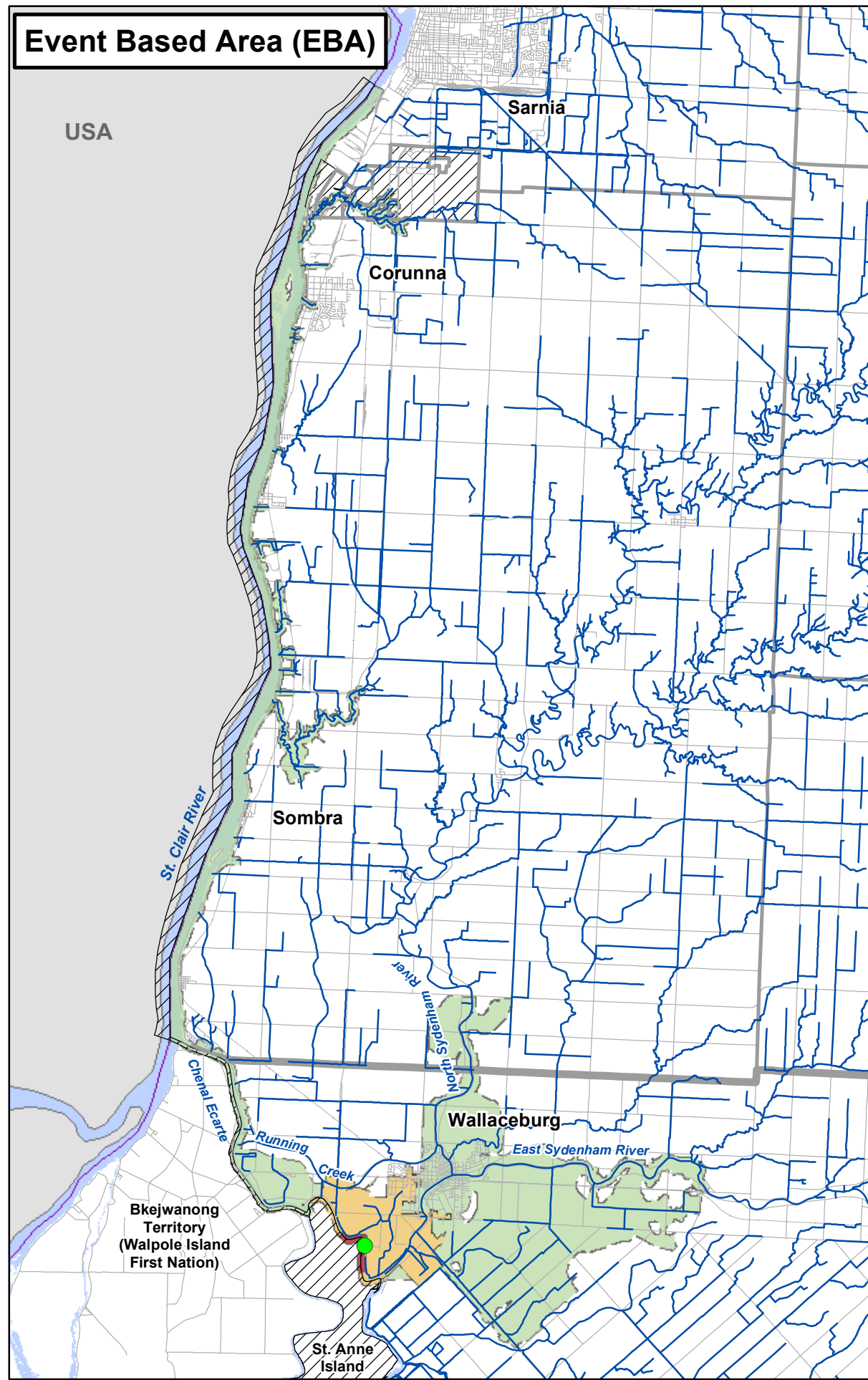
Spills in the US were not modelled.

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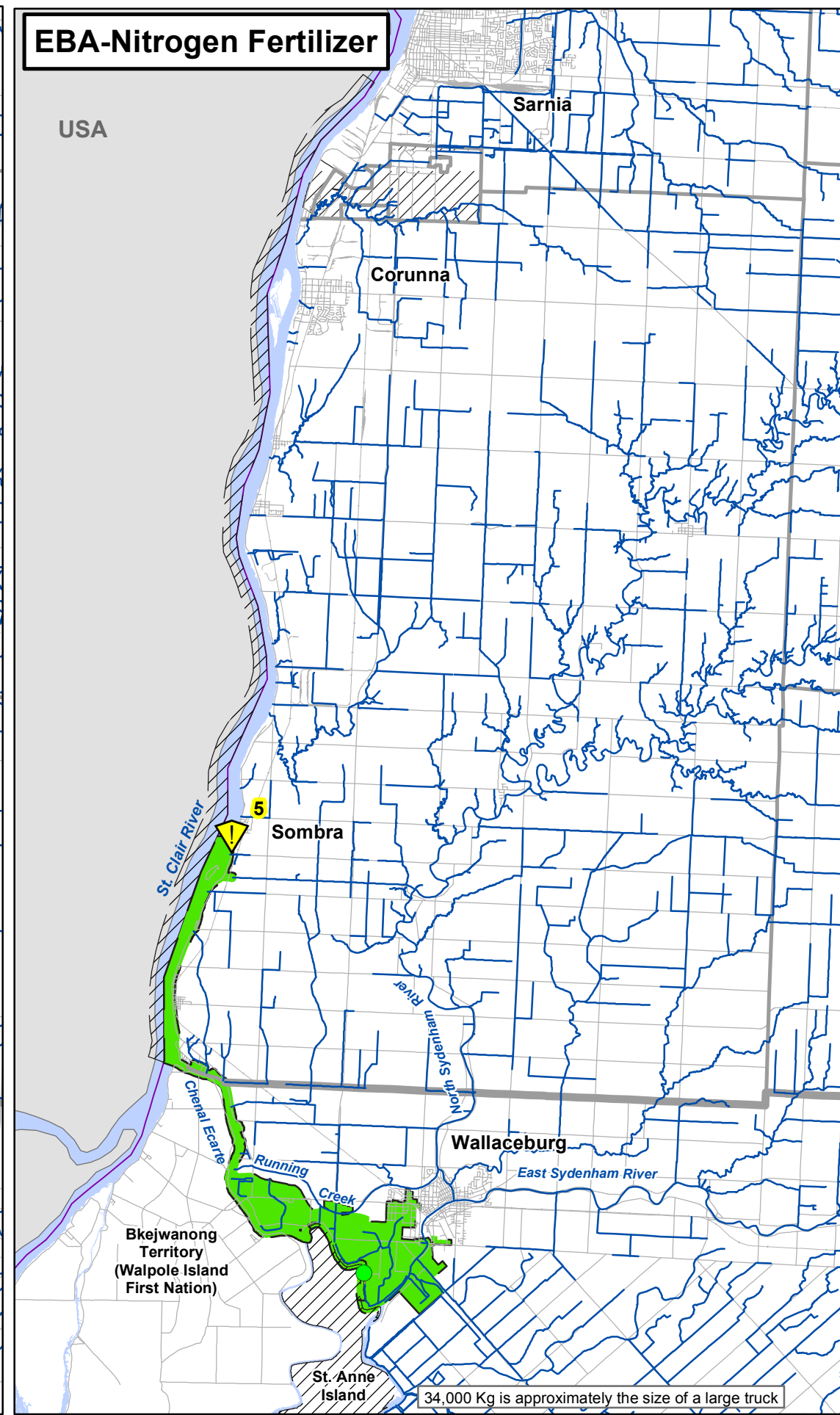
Thames-Sydenham & Region

UPPER THAMES RIVER CONSERVATION AUTHORITY

Event Based Area (EBA)



EBA-Nitrogen Fertilizer



Map 4-4c Wallaceburg Nitrogen Fertilizer Event Based Areas

St. Clair Region Source Protection Area Assessment Report

Legend

Area beyond the current jurisdiction of this assessment. Additional information required.

Municipal Boundaries

St. Clair Region Source Protection Area

Intake Protection Zone

Surface Water Intake

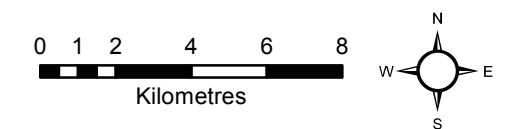
IPZ-1

IPZ-2

IPZ-3

EBA-Nitrogen Fertilizer (34,000 Kg of 46% Nitrogen)

Event Modelled Spill Locations



Map created by SCRCA, October, 2014.

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

Intake Protection Zones 1 & 2 provided by Stantec Consulting, February 2010. Intake Protection Zone 3 provided by Baird & Associates, April 28, 2011.

Intake Protection Zone 3 Revisions based on Longitudinal Analysis in Support of IPZ-3 Revision for Petrolia, LAWSS and Wallaceburg Intakes, SCRCA, 2014

St. Anne Island – The identified area does not fall within the jurisdiction of this assessment at this time. The 120 m setback applied to the Chenal Ecarte has been noted on the map. Additional information regarding the flow of water from the island into the Chenal Ecarte has been collected, however additional information would be required to denote specific areas which could provide water to the intake within the two hour time of travel.

Spills in the US were not modelled.

DRINKING WATER SOURCE PROTECTION ACT FOR CLEAN WATER
Thames-Sydenham & Region



**UPPER THAMES RIVER
CONSERVATION AUTHORITY**



34,000 Kg is approximately the size of a large truck