

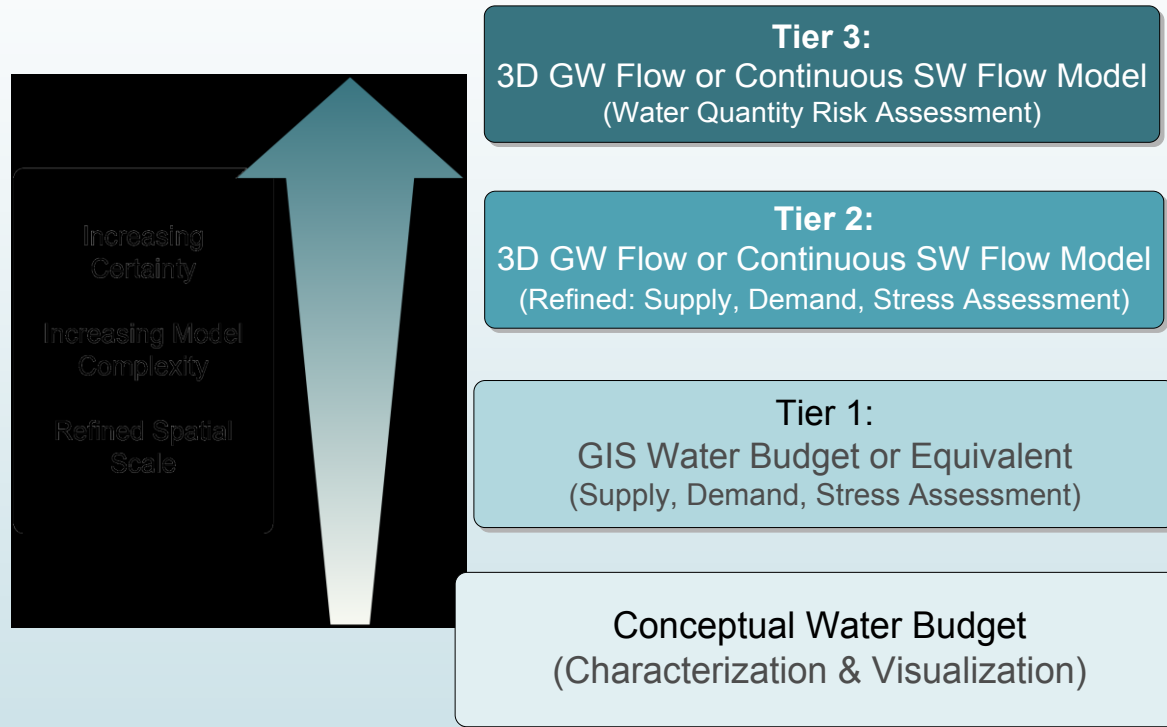
# Water Quantity Threat Policies - Lake Rosalind

Municipality of Brockton– Council Meeting  
February 16, 2016

# Source Protection Program Update

- Source Protection Plan approved by the Minister – October 16, 2015 with an effective date of July 1, 2016
- Minister's approval letter noted that he anticipates the submission of updated technical work, including Water Budget, end of March 2016
- Also noted that the Ministry would like to align these amendments with the July 1, 2016 effective date

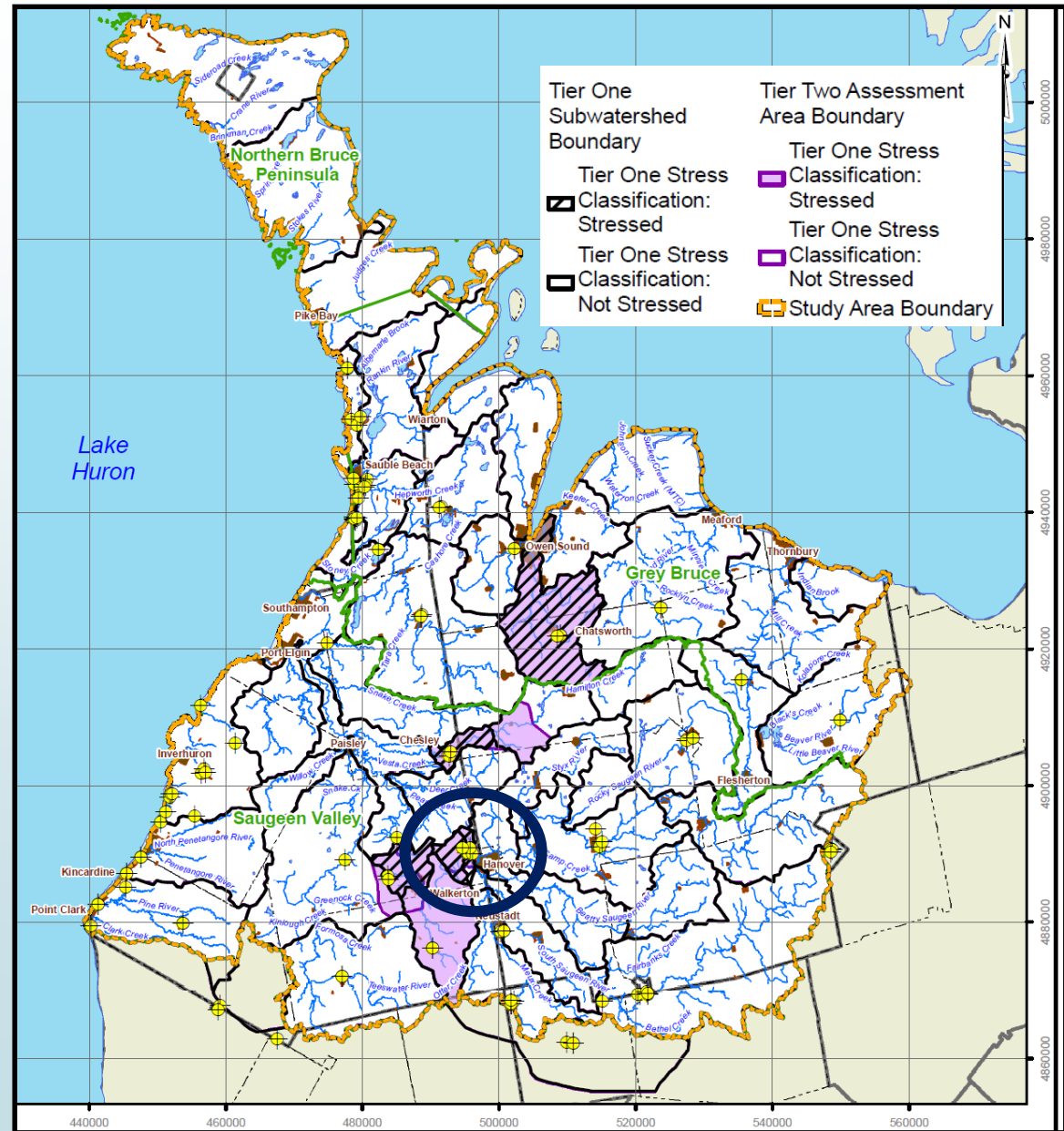
# Water Budget Framework



- Requirement of the Clean Water Act
- Overall objective is to identify threats (quantity) to municipal drinking water supplies → address those threats in the Source Protection Plan

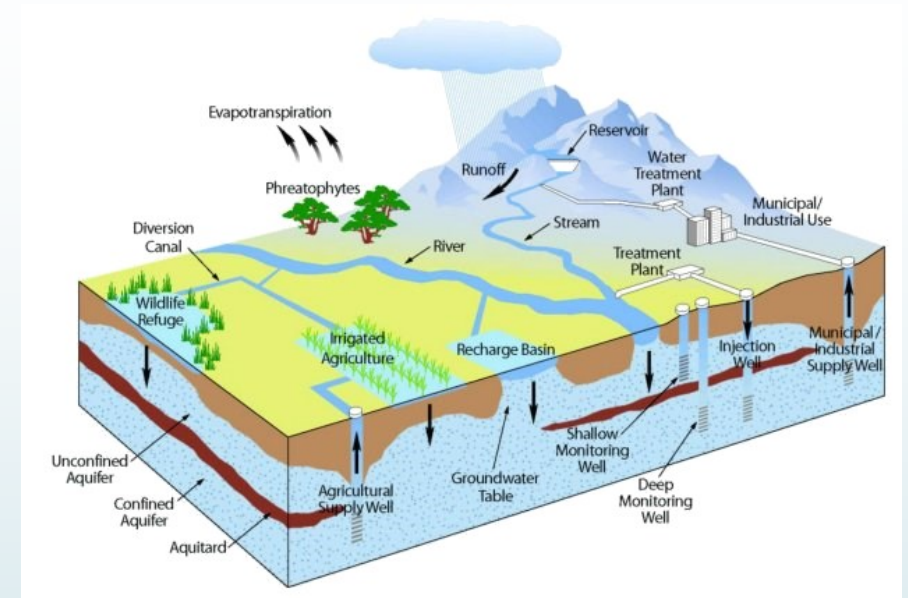
# Tier Two Assessment Results

- Lake Rosalind Groundwater Assessment Area = moderate potential for hydrologic stress
- Tier Three required to assess municipal supplies in Town of Hanover & Community of Lake Rosalind



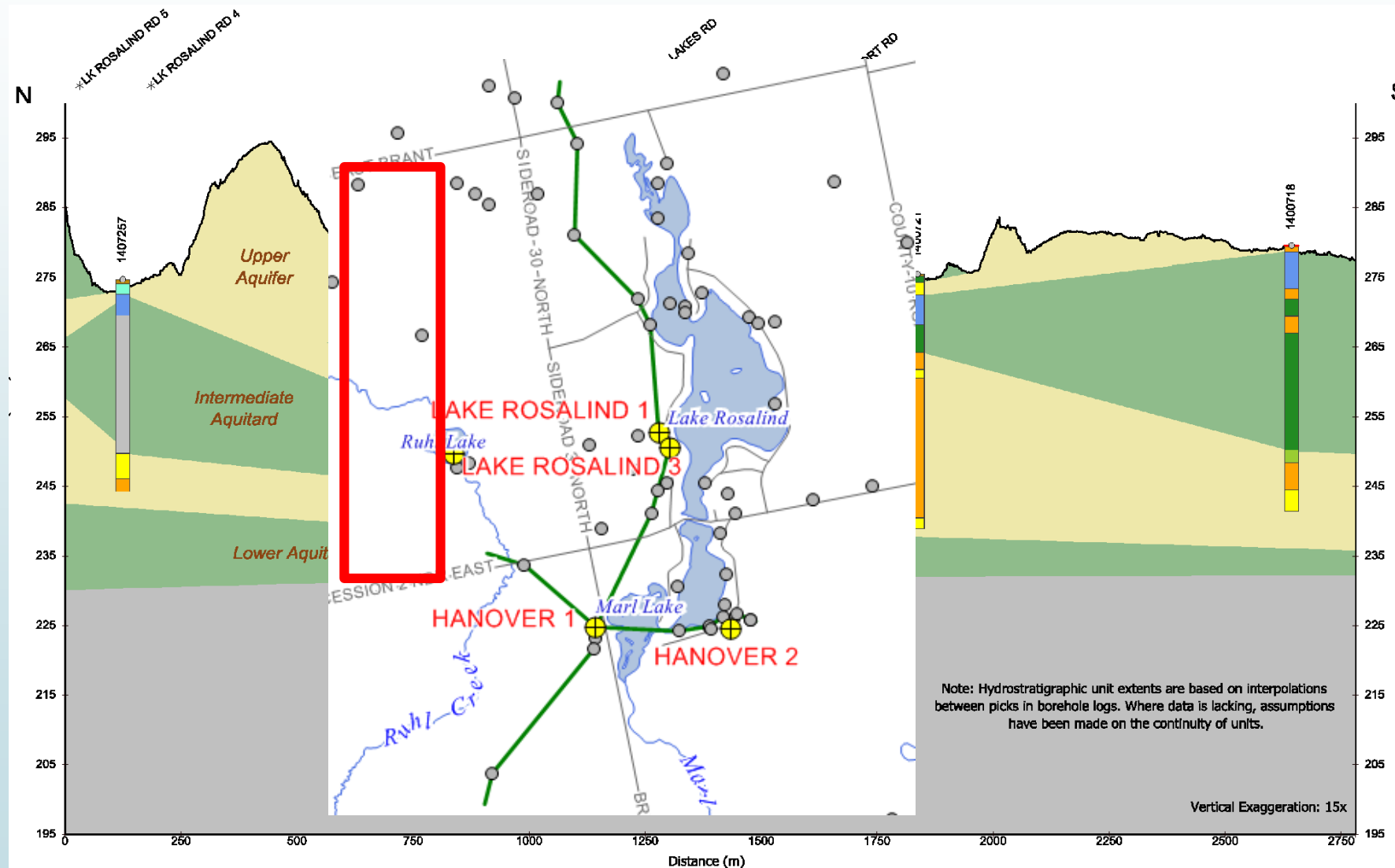
# Tier Three Risk Assessment

- Local scale – can municipality meet demands
  - Current and allocated demands
  - Current/ Future Land use
  - Average/ Drought Climatic Conditions
- If a Moderate or Significant Risk is assigned, water quantity threats are identified and require policies to address these threats



# Hydrogeologic Conceptualization

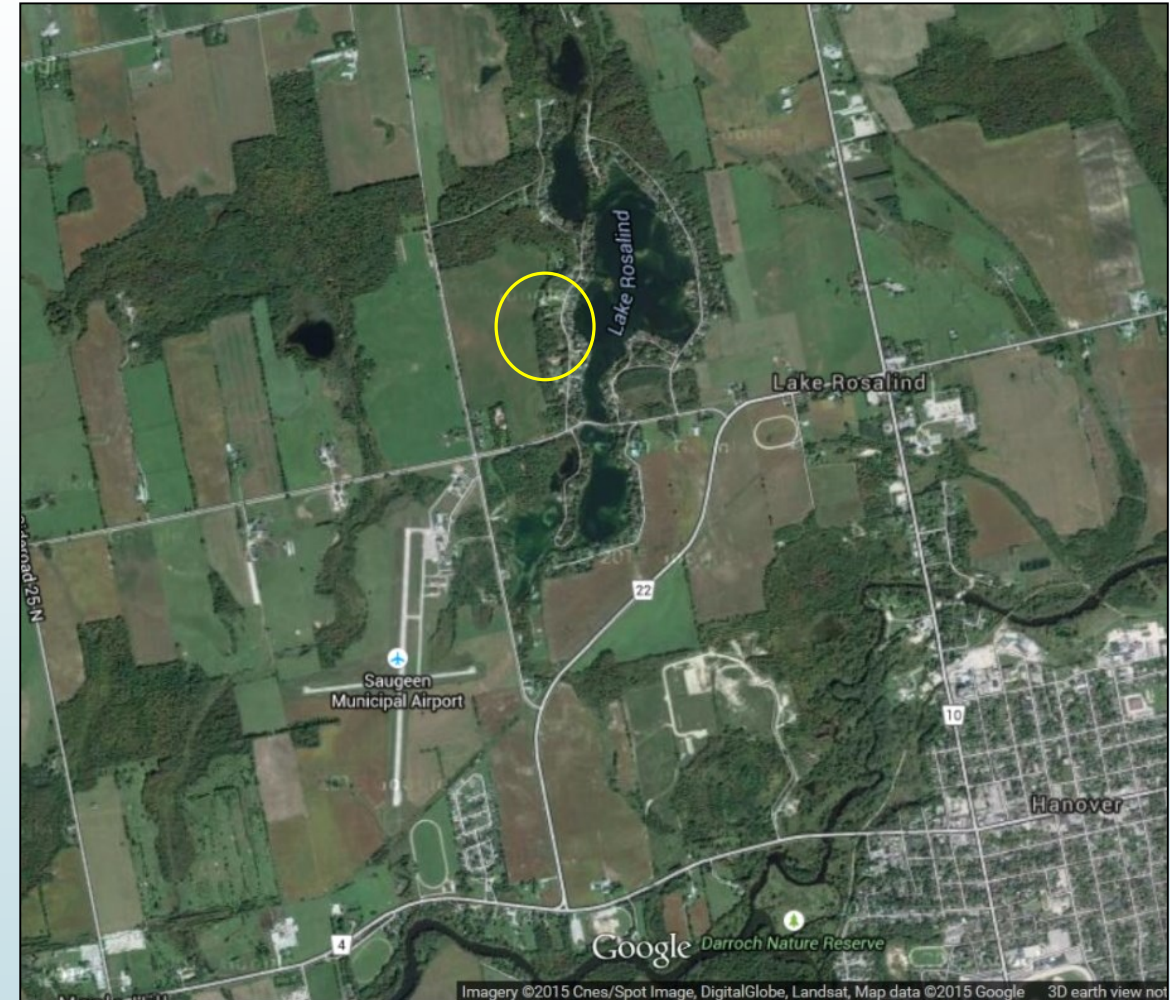
- North-South cross-section - Lake Rosalind to Hanover Well 1





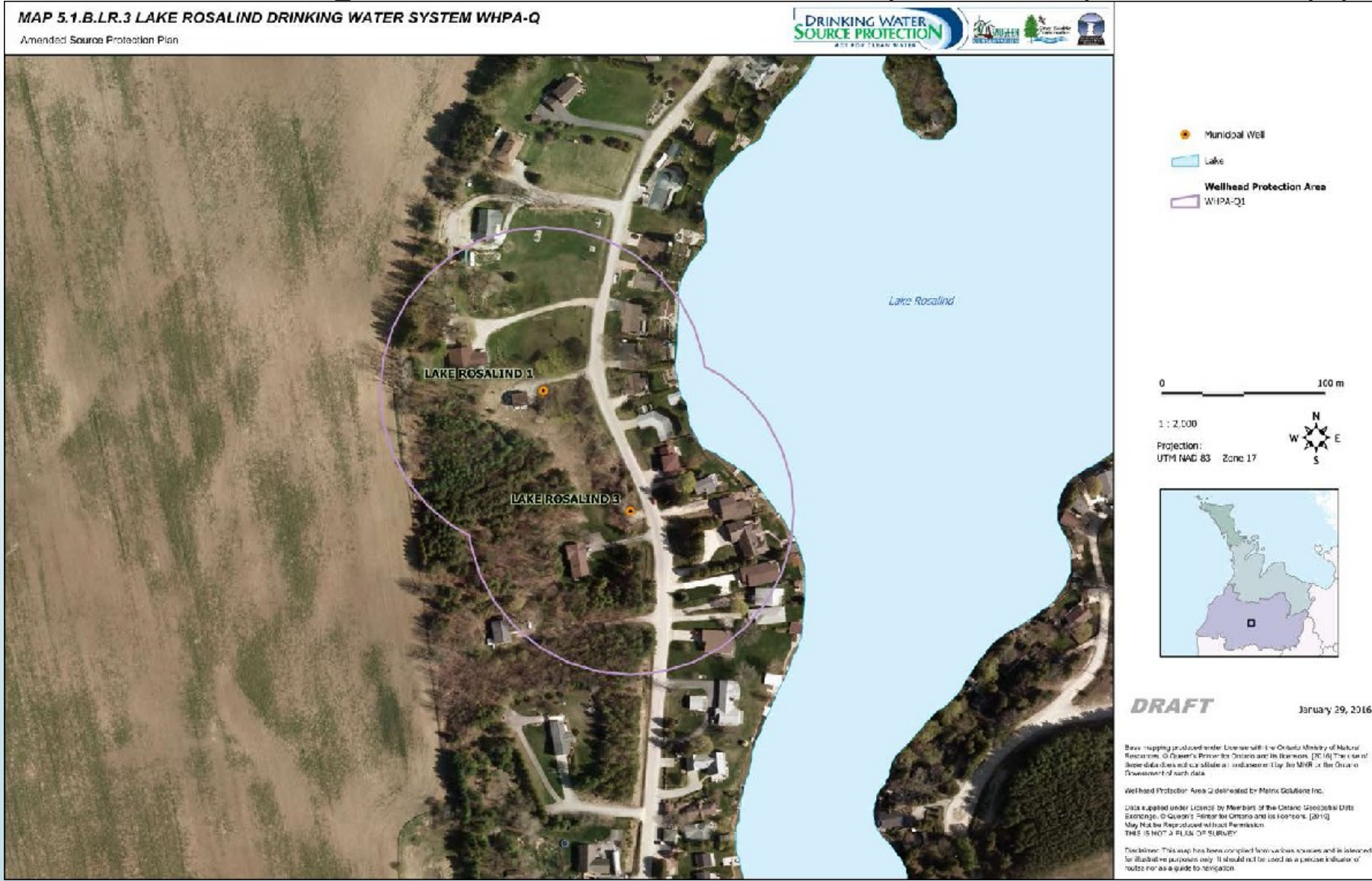
# Community of Lake Rosalind System

- **Lake Rosalind Wells 1 & 3**
  - 2013 demand = 27 m<sup>3</sup>/d  
(Well 1– 7 m<sup>3</sup>/d and Well 3 – 20 m<sup>3</sup>/d)
  - Slow recharge rates due to clay soil
  - Water levels fluctuate dramatically year to year
  - Ministry inspection report identified significant shortages in 2005
  - Study identified the system as a Significant Risk Level for water quantity threats



# Water Quantity Threat - Local Area

- Area where Significant Water Quantity Threat policies apply





# Water Quantity Policies – affecting Brockton

## **19-01: Review of Permits to Take Water**

The policy applies in all vulnerable areas where water taking activities are significant drinking water threats (existing and future activity).

The policy applies to provincial instruments related to water takings, Permits to Take Water.

The Ministry of the Environment and Climate Change shall:

1. Review all existing permits;
2. Review all future permit applications;
3. Determine whether the permits contain appropriate terms and conditions and require adequate measures to be in place to ensure that the water taking activity ceases to be a significant drinking water threat; and
4. Where the Ministry is of the opinion that the terms, conditions and measures contained in a permit are not adequate, make such amendments to the approval so as to ensure that the water taking activity ceases to be a significant drinking water threat.

# Water Quantity Policies – affecting Brockton

## 19-02 - Ongoing Maintenance of Tier 3 Water Budget Models

- The Ministry of Environment and Climate Change should consider the need for ongoing maintenance and funding of the Tier 3 Water Budget models. Ongoing maintenance includes, but is not limited to;
  1. Supporting environmental monitoring to address data gaps; and
  2. Providing information to improve modelling inputs.

# Water Quantity Policies – affecting Brockton

## 19-03 - Water Quantity Management Plan Development

- The Municipality of Brockton shall develop and implement a water management plan using the Tier 3 water budget findings and any other available data to ensure that consumptive demand does not become a significant drinking water threat. The plan shall address;
  1. Issues with water supply;
  2. Future development;
  3. New water supply options; and
  4. Water conservation.
- The municipal Official Plan must be updated or amended with the water management plan. The update or amendment to the Official Plan must be initiated within three years and completed within five years of the effective date of the Source Protection Plan.

# Water Quantity Policies – affecting Brockton

## 19-04 - Collaboration with Other Agencies

- The Municipality of Brockton shall give due consideration to collaborating with other agencies for, but not limited to, the following purposes;
  - Incentive/financial assistance programs;
  - Education programs/materials;
  - Scientific research;
  - Policy implementation; and
  - Communication with the public.



# Next Steps

- Seek Council resolution endorsing the proposed amendments to the Saugeen, Grey Sauble, Northern Bruce Peninsula Source Protection Plan
- Seek Ministry approval to use of Source Protection Implementation Funds to support need for development of water management plan options including:
  - rehabilitation or retrofitting of existing wells
  - installation of additional well(s)
  - Feasibility/costs to extend existing water supplies from Hanover



*Saugeen, Grey Sauble,  
Northern Bruce Peninsula  
Source Protection Region*

# QUESTIONS

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