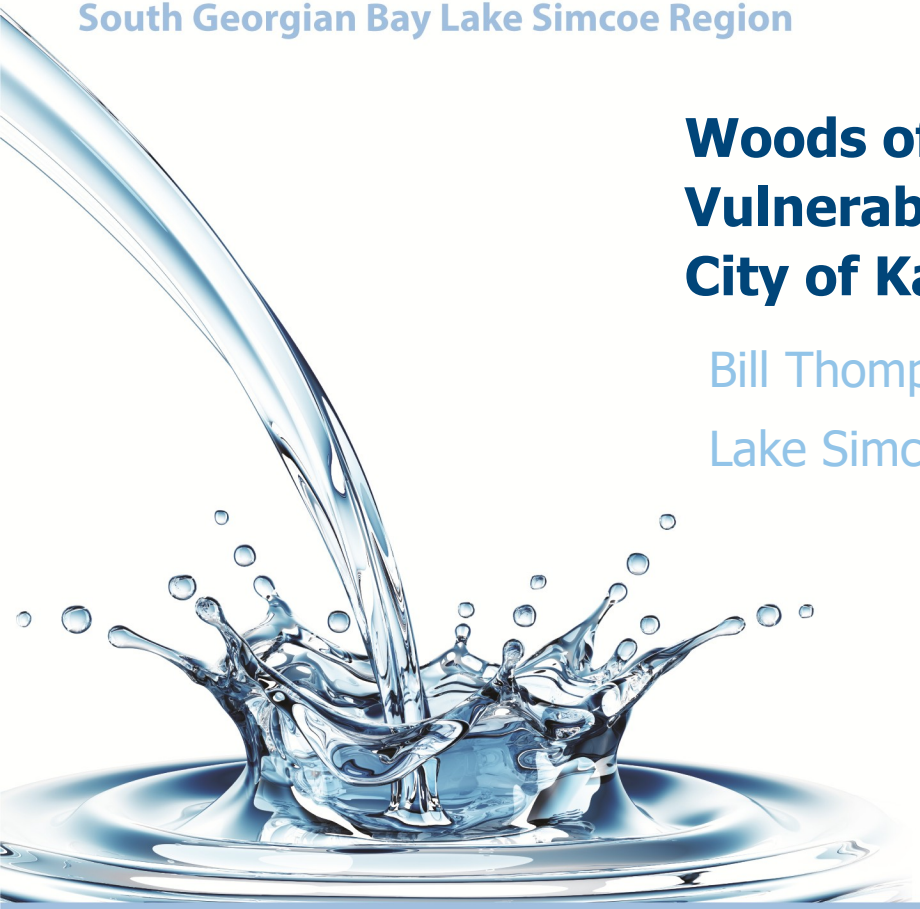
Source Water Protection
South Georgian Bay Lake Simcoe Region



Woods of Manilla Well Replacement Vulnerability and Threats Assessment City of Kawartha Lakes

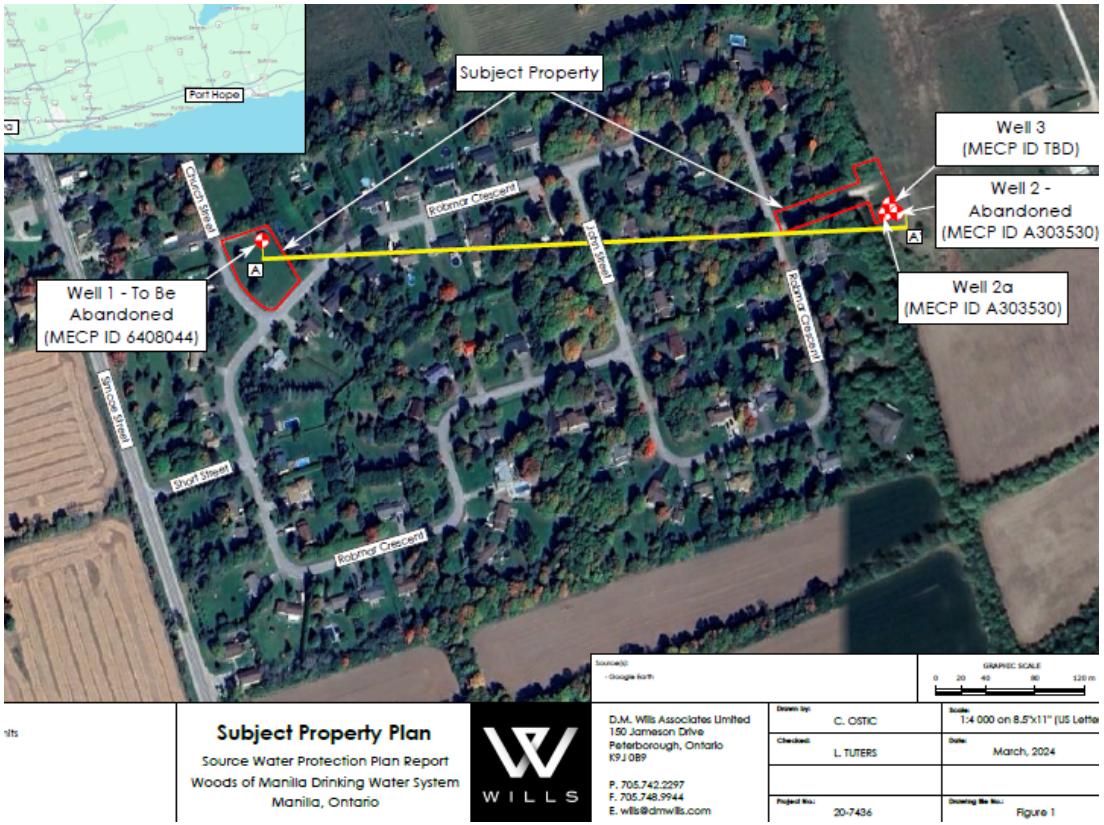
Bill Thompson

Lake Simcoe Region Conservation Authority

Water is life. Protect Yours.

Background

- Woods of Manilla has historically been supplied by two production wells, Well 1 (backup well) and Well 2 (duty well)
- Two new wells (Well 2A and Well 3) were installed to replace Well 1 and 2
- Well 1 and 2 were decommissioned



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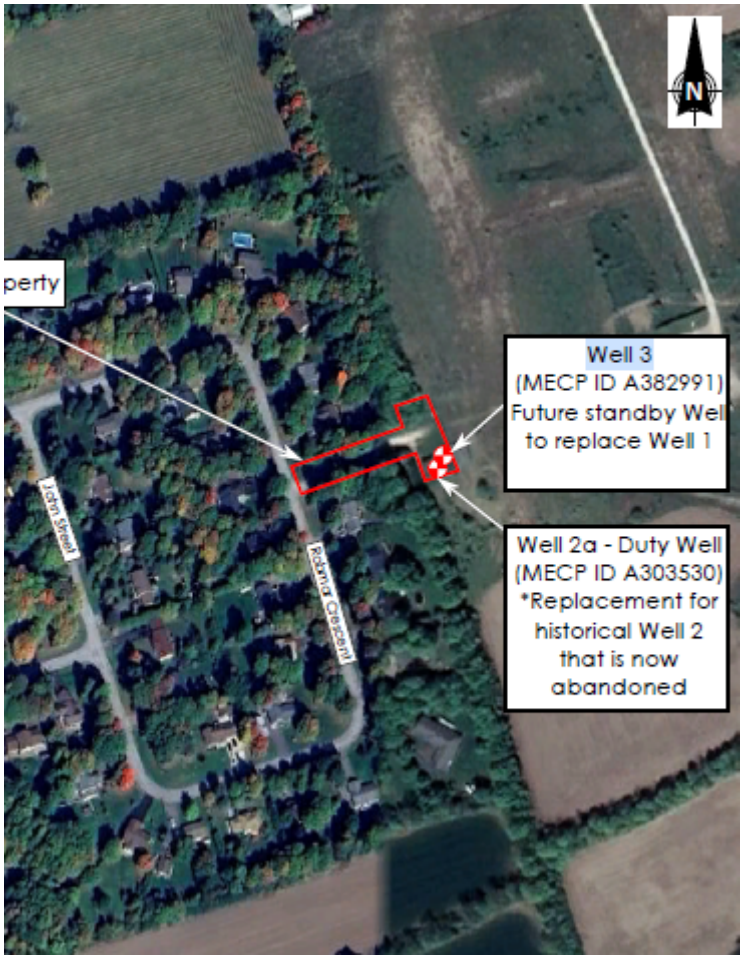
Well 2A

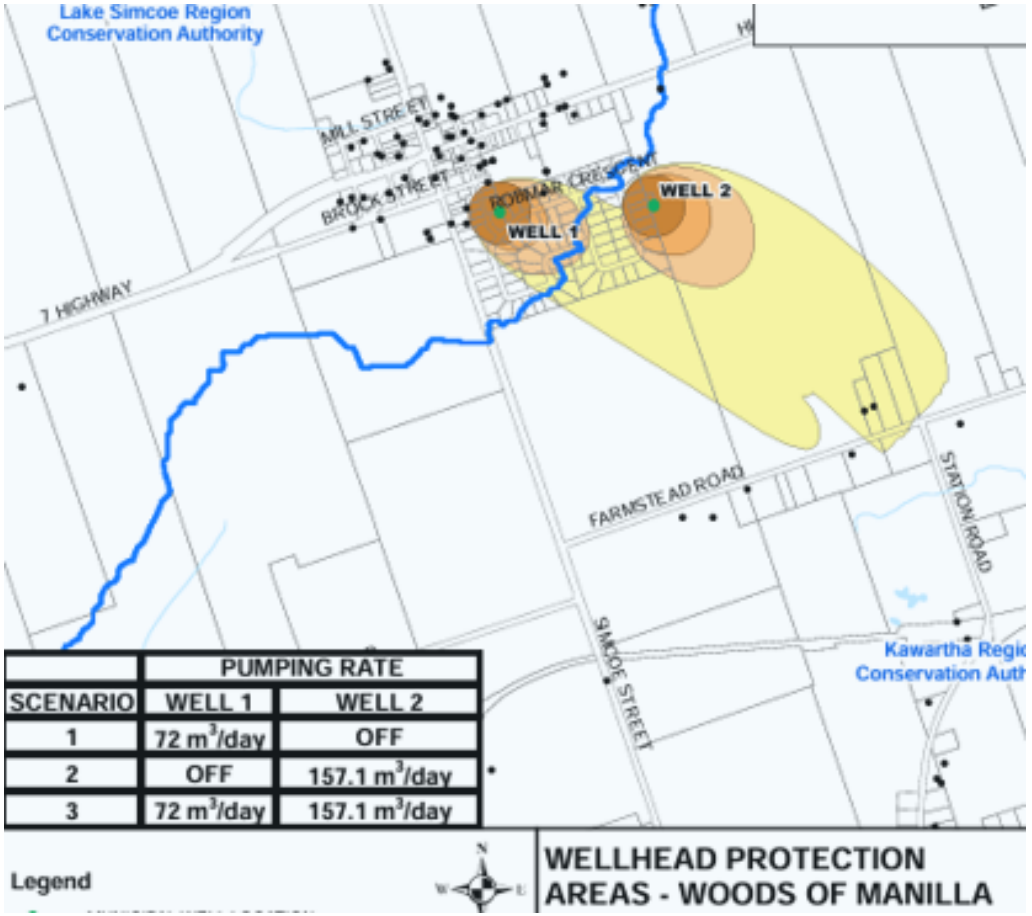
- Drilled in May 2024
- 72-hr pumping test completed to confirm capacity and quality
- Permit to Take Water (PTTW) amended in 2021 to reflect the replacement of Well 2 with Well 2A
- Current PTTW includes Well 2A (duty well, permitted rate 157.1 m3/day) and Well 1 (backup well, 72.0 m3/day)

Well 3

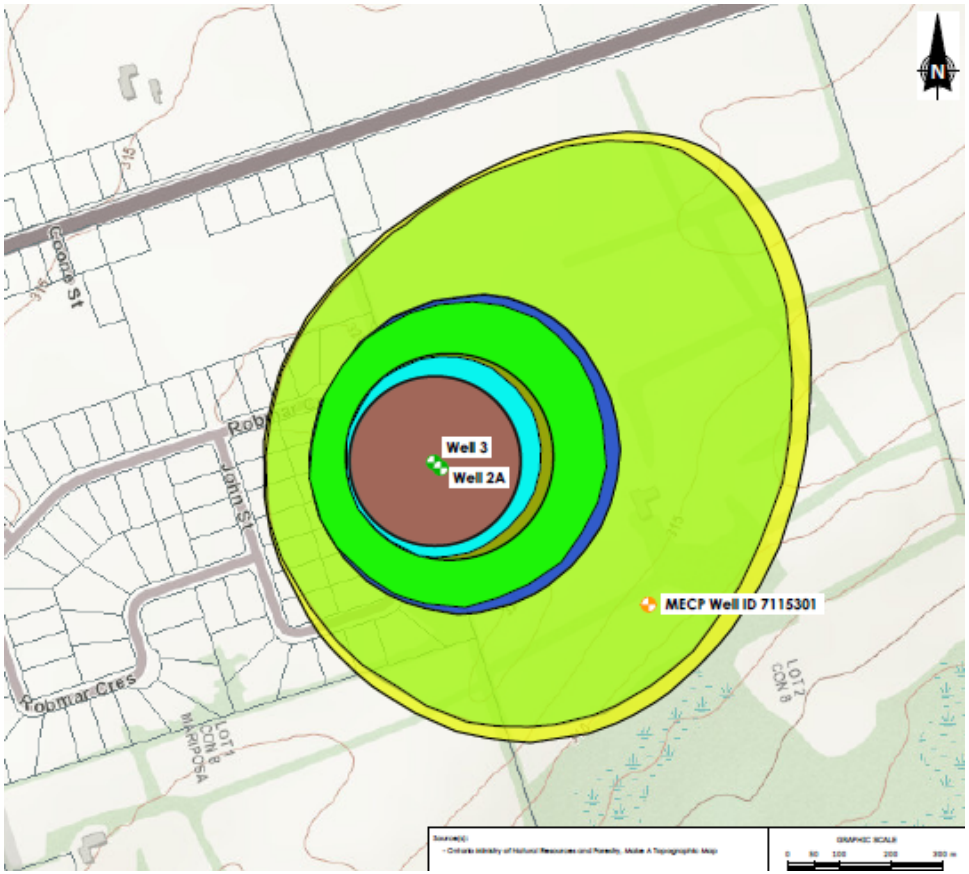
- Drilled/Installed in May 2024
- 6-hr pumping test completed to confirm capacity and quality
  - Well 3 is 3 m from Well 2A – Ministry of the Environment, Conservation & Parks (MECP) confirmation
- Proposed update to PTTW to replace Well 1 with Well 3
- Well 3 proposed permitted rate 157.11 m3/day



Current WHPA: Wells 1 & 2
Genivar 2010



Proposed WHPA: Wells 2A & 3
Wills, 2025

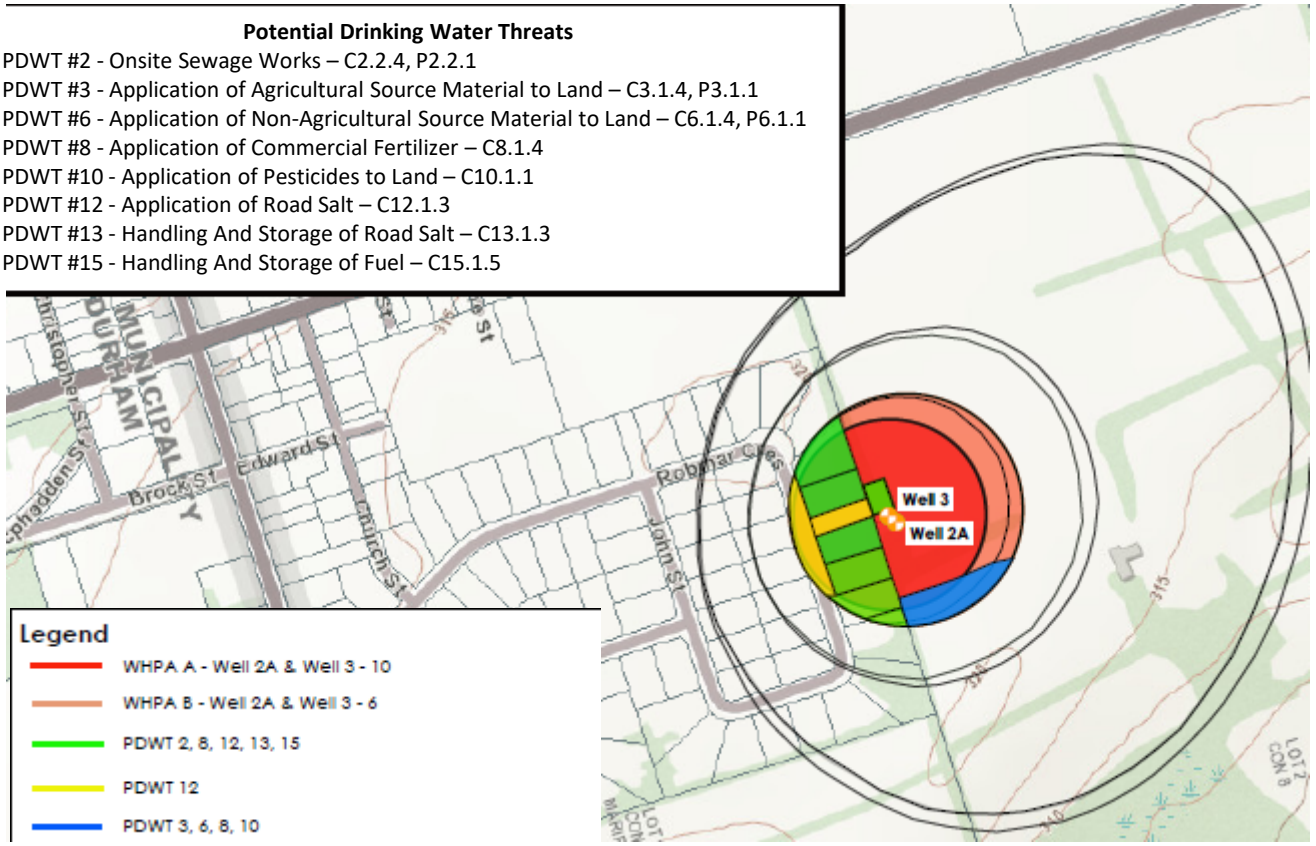


Legend

- WHPA A - Well 2A & Well 3 - 100 m radius
- WHPA B - Well 2A - 0-2 year pathline
- WHPA B - Well 3 - 0-2 year pathline
- WHPA C - Well 2A - 2-5 year pathline
- WHPA C - Well 3 - 2-5 year pathline
- WHPA D - Well 2A - 5-25 year pathline
- WHPA D - Well 3 - 5-25 year pathline
- Identified MECP Well

Threats Assessment – Well 2A & 3

- 3 significant Potential Drinking Water Threats (PDWT) (2 pathogen,1 chemical) in WHPA-A
- 7 moderate PDWT in WHPA-A
- 8 low PDWT in WHPA-B
- No PDWT in South Georgian Bay – Lake Simcoe Source Protection Region



Thank you

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DRINKING WATER SOURCE PROTECTION
SOUTH GEORGIAN BAY LAKE SIMCOE REGION