

**APPENDIX A  
SPECIES AT RISK**

Appendix A – Federal and Provincial Species at Risk, Township of Huron-Kinloss

**Table A.1 – Federal and Provincial Species at Risk with Potential Habitat in Township of Huron-Kinloss**

Type	Species Common Name	Species Scientific Name	Federal Status	Provincial Status	Suitable Habitat in the Study Area	Reported within Study Area
Bird	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Not Applicable	Special Concern	No	No
Bird	Bank Swallow	<i>Riparia riparia</i>	Threatened	Threatened	Yes	Yes - Ripley, Lakeshore North and Lakeshore South
Bird	Barn Owl	<i>Tyto alba</i>	Endangered	Endangered	No	No
Bird	Barn Swallow	<i>Hirundo rustica</i>	Threatened	Threatened	Yes	Yes - Lucknow, Ripley, Lakeshore North, Lakeshore South
Bird	Black Tern	<i>Chlidonias niger</i>	Not Applicable	Special Concern	Yes	No
Bird	Bobolink	<i>Dolichonyx oryzivorus</i>	Threatened	Threatened	Yes	Yes - Lucknow, Ripley, Lakeshore North, Lakeshore South
Bird	Eastern Wood Pewee	<i>Contopus virens</i>	Special Concern	Special Concern	Yes	Yes - Lucknow, Ripley, Lakeshore North and Lakeshore South
Bird	Canada Warbler	<i>Cardellina Canadensis</i>	Threatened	Special Concern	Yes	No
Bird	Cerulean Warbler	<i>Setophaga cerulean</i>	Endangered	Threatened	No	No
Bird	Chimney Swift	<i>Chaetura pelagica</i>	Threatened	Threatened	No	Yes - Lucknow, Lakeshore North and Lakeshore South

Type	Species Common Name	Species Scientific Name	Federal Status	Provincial Status	Suitable Habitat in the Study Area	Reported within Study Area
Bird	Common Nighthawk	<i>Chordeiles minor</i>	Threatened	Special Concern	Yes	No
Bird	Eastern Meadowlark	<i>Sturnella magna</i>	Threatened	Threatened	Yes	Yes - Lucknow, Ripley, Lakeshore North and Lakeshore South
Bird	Eastern Whip-poor-will	<i>Caprimulgus vociferus</i>	Threatened	Threatened	No	Yes - Lakeshore North and Lakeshore South
Bird	Golden-Winged Warbler	<i>Vermivora chrysoptera</i>	Threatened	Special Concern	No	No
Bird	Grasshopper Sparrow	<i>Ammodramus savannarum</i>	Special Concern	Special Concern	Yes	Yes - Lucknow, Ripley, Lakeshore North and Lakeshore South
Bird	Henslow's sparrow	<i>Ammodramus henslowii</i>	Endangered	Endangered	No	No
Bird	King Rail	<i>Rallus elegans</i>	Endangered	Endangered	No	No
Bird	Least Bittern	<i>Ixobrychus exilis</i>	Threatened	Threatened	Yes	Yes - Lucknow
Bird	Loggerhead Shrike	<i>Lanius ludovicianus</i>	Endangered	Endangered	Yes	No
Bird	Louisiana Waterthrush	<i>Parkesia motacilla</i>	Threatened	Threatened	No	No
Bird	Olive-sided Flycatcher	<i>Contopus cooperi</i>	Threatened	Special Concern	Yes	No
Bird	Piping Plover	<i>Charadrius melodus circumcinctus</i>	Endangered	Endangered	No	No
Bird	Peregrine Falcon	<i>Falco peregrines</i>	Special Concern	Special Concern	Yes	No
Bird	Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	Threatened	Threatened	Yes	Yes - Lakeshore North, Lakeshore South

Type	Species Common Name	Species Scientific Name	Federal Status	Provincial Status	Suitable Habitat in the Study Area	Reported within Study Area
Bird	Short-eared Owl	<i>Asio flammeus</i>	Special Concern	Special Concern	Yes	Yes - Lakeshore North and Lakeshore South
Bird	Yellow-Breasted Chat	<i>Icteria virens</i>	Endangered	Endangered	No	No
Bird	Yellow Rail	<i>Coturnicops noveboracensis</i>	Special Concern	Special Concern	No	No
Bird	Wood Thrush	<i>Hylocichla mustelina</i>	Threatened	Special Concern	Yes	Yes - Lucknow, Ripley, Lakeshore North and Lakeshore South
Fish	American Eel	<i>Anguilla rostrata</i>	Not Applicable	Endangered	No	No
Fish	Black Redhorse	<i>Moxostoma duquesnei</i>	Threatened	Threatened	No	No
Fish	Lake Sturgeon (Great Lakes – Upper St. Lawrence population)	<i>Acipenser fulvescens</i>	Not Applicable	Endangered	No	No
Fish	Northern Brook Lamprey (Great Lakes – Upper St. Lawrence population)	<i>Ichthyomyzon fossor</i>	Special Concern	Special Concern	No	No
Fish	Pugnose Shiner	<i>Notropis anogenus</i>	Threatened	Threatened	No	No
Fish	Redside Dace	<i>Clinostomus elongatus</i>	Endangered	Endangered	No	No
Fish	Shortnose Cisco	<i>Coregonus reighardi</i>	Endangered	Endangered	No	No
Fish	Silver Lamprey (Great Lakes – Upper St. Lawrence River Population)	<i>Ichthyomyzon unicuspis</i>	Special Concern	Special Concern	Yes	Yes - Lakeshore South
Fish	Silver Shiner	<i>Notropis photogenis</i>	Threatened	Threatened	No	No

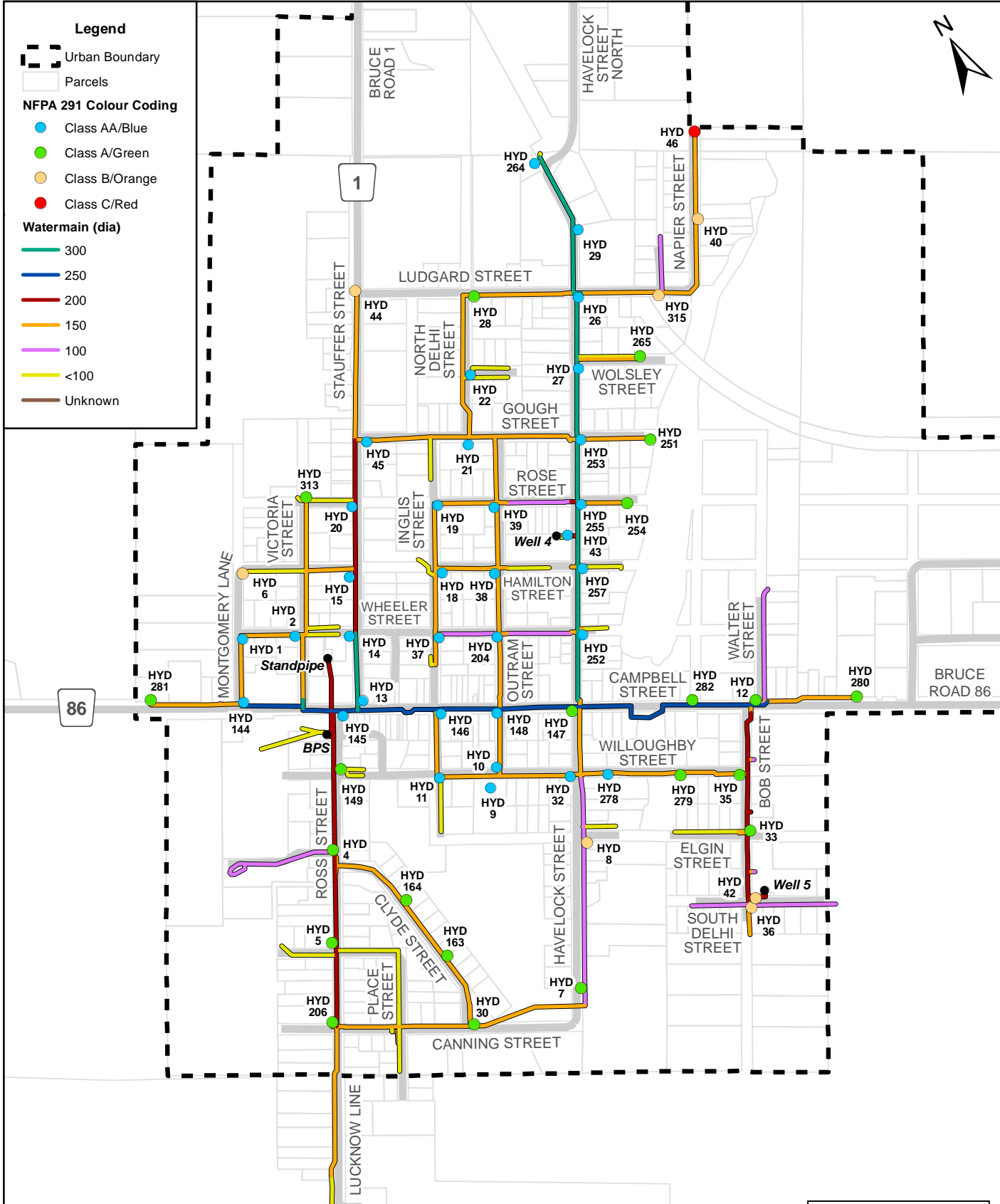


Type	Species Common Name	Species Scientific Name	Federal Status	Provincial Status	Suitable Habitat in the Study Area	Reported within Study Area
Mussel	Fawnsfoot	<i>Truncilla donaciformis</i>	Endangered	Endangered	No	No
Mussel	Rainbow	<i>Villosa iris</i>	Special Concern	Special Concern	Yes	No
Reptile and Amphibian	Blanding's Turtle	<i>Embydoidea blandingii</i>	Endangered	Threatened	No	No
Reptile and Amphibian	Eastern Hog-nosed Snake	<i>Heterodon platirhinos</i>	Threatened	Threatened	Yes	Yes - Lucknow
Reptile and Amphibian	Eastern Ribbonsnake (Great Lakes population)	<i>Thamnophis sauritus</i>	Special Concern	Special Concern	Yes	No
Reptile and Amphibian	Massasauga (Great Lakes – St. Lawrence population)	<i>Sistrurus catenatus</i>	Threatened	Threatened	Yes	No
Reptile and Amphibian	Midland Painted Turtle	<i>Chrysemys picta marginata</i>	Special Concern	Not Applicable	Yes	Yes - Lucknow, Lakeshore North, Lakeshore South
Reptile and Amphibian	Eastern Milksnake	<i>Lampropeltis triangulum</i>	Special Concern	Not Applicable	Yes	Yes - Lucknow, Ripley, Lakeshore North, Lakeshore South
Reptile and Amphibian	Northern Map Turtle	<i>Graptemys geographica</i>	Special Concern	Special Concern	Yes	No
Reptile and Amphibian	Queensnake	<i>Regina septemvittata</i>	Endangered	Endangered	Yes	No
Reptile and Amphibian	Snapping Turtle	<i>Chelydra serpentina</i>	Special Concern	Special Concern	Yes	Yes - Lucknow, Ripley, Lakeshore North, Lakeshore South
Reptile and Amphibian	Spotted Turtle	<i>Clemmys guttata</i>	Endangered	Endangered	Yes	No
Reptile and Amphibian	Western chorus frog – Great Lakes St. Lawrence/Canadian Shield Population	<i>Pseudacris triseriata</i>	Threatened	Not Applicable	Yes	No

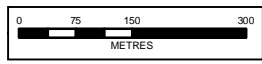
Type	Species Common Name	Species Scientific Name	Federal Status	Provincial Status	Suitable Habitat in the Study Area	Reported within Study Area
Reptile and Amphibian	Wood Turtle	<i>Glyptemys insculpta</i>	Threatened	Endangered	Yes	No
Insect	Hungerford's Crawling Water Beetle	<i>Brychius hungerfordi</i>	Endangered	Endangered	No	No
Insect	Monarch	<i>Danaus plexippus</i>	Special Concern	Special Concern	Yes	Yes - Lucknow, Ripley, Lakeshore North, Lakeshore South
Insect	Rusty-patched Bumble Bee	<i>Bombus terricola</i>	Endangered	Endangered	No	No
Insect	West Virginia White	<i>Pieris virginiensis</i>	Not Applicable	Special Concern	Yes	No
Mammal	American Badger, jacksoni subspecies	<i>Taxidea taxus jacksoni</i>	Endangered	Endangered	Yes	No
Mammal	Eastern Cougar	<i>Puma concolor</i>	Data Deficient	Endangered	Yes	No
Mammal	Little Brown Myotis	<i>Myotis lucifugus</i>	Endangered	Endangered	Yes	No
Mammal	Northern Myotis	<i>Myotis septentrionalis</i>	Endangered	Endangered	Yes	No
Mammal	American Ginseng	<i>Panax quinquefolius</i>	Endangered	Endangered	Yes	No
Plant and Lichen	American Chestnut	<i>Castanea dentata</i>	Endangered	Endangered	Yes	Yes - Lakeshore North
Plant and Lichen	American Hart's-tongue Fern	<i>Asplenium scolopendrium</i>	Special Concern	Special Concern	No	No
Plant and Lichen	Broad Beech Fern	<i>Phegopteris hexagonoptera</i>	Not Applicable	Special Concern	No	No
Plant and Lichen	Butternut	<i>Juglans cinerea</i>	Endangered	Endangered	Yes	No
Plant and Lichen	Dwarf Lake Iris	<i>Iris lacustris</i>	Special Concern	Special Concern	Yes	No

Type	Species Common Name	Species Scientific Name	Federal Status	Provincial Status	Suitable Habitat in the Study Area	Reported within Study Area
Plant and Lichen	Eastern Prairie Fringed-Orchid	<i>Platanthera leucophaea</i>	Endangered	Endangered	Yes	No
Plant and Lichen	Gattinger's Agalinis	<i>Agalinis gattingeri</i>	Endangered	Endangered	No	No
Plant and Lichen	Goldenseal	<i>Hydrastis canadensis</i>	Threatened	Special Concern	No	No
Plant and Lichen	Green Dragon	<i>Arisaema dracontium</i>	Not Applicable	Special Concern	No	No
Plant and Lichen	Hill's Thistle	<i>Cirsium hillii</i>	Threatened	Threatened	No	No
Plant and Lichen	Hill's Pondweed	<i>Potamogeton hillii</i>	Special Concern	Special Concern	No	No
Plant and Lichen	Houghton's Goldenrod	<i>Solidago houghtonii</i>	Special Concern	Threatened	No	No
Plant and Lichen	Lakeside Daisy	<i>Tetranneuris herbacea</i>	Threatened	Threatened	No	No
Plant and Lichen	Pitcher's Thistle	<i>Cirsium pitcheri</i>	Special Concern	Threatened	Yes	No
Plant and Lichen	Small White Lady's Slipper	<i>Cypripedium candidum</i>	Threatened	Endangered	No	No
Plant and Lichen	Tuberous Indian-plantain	<i>Arnoglossum plantagineum</i>	Special Concern	Special Concern	Yes	No

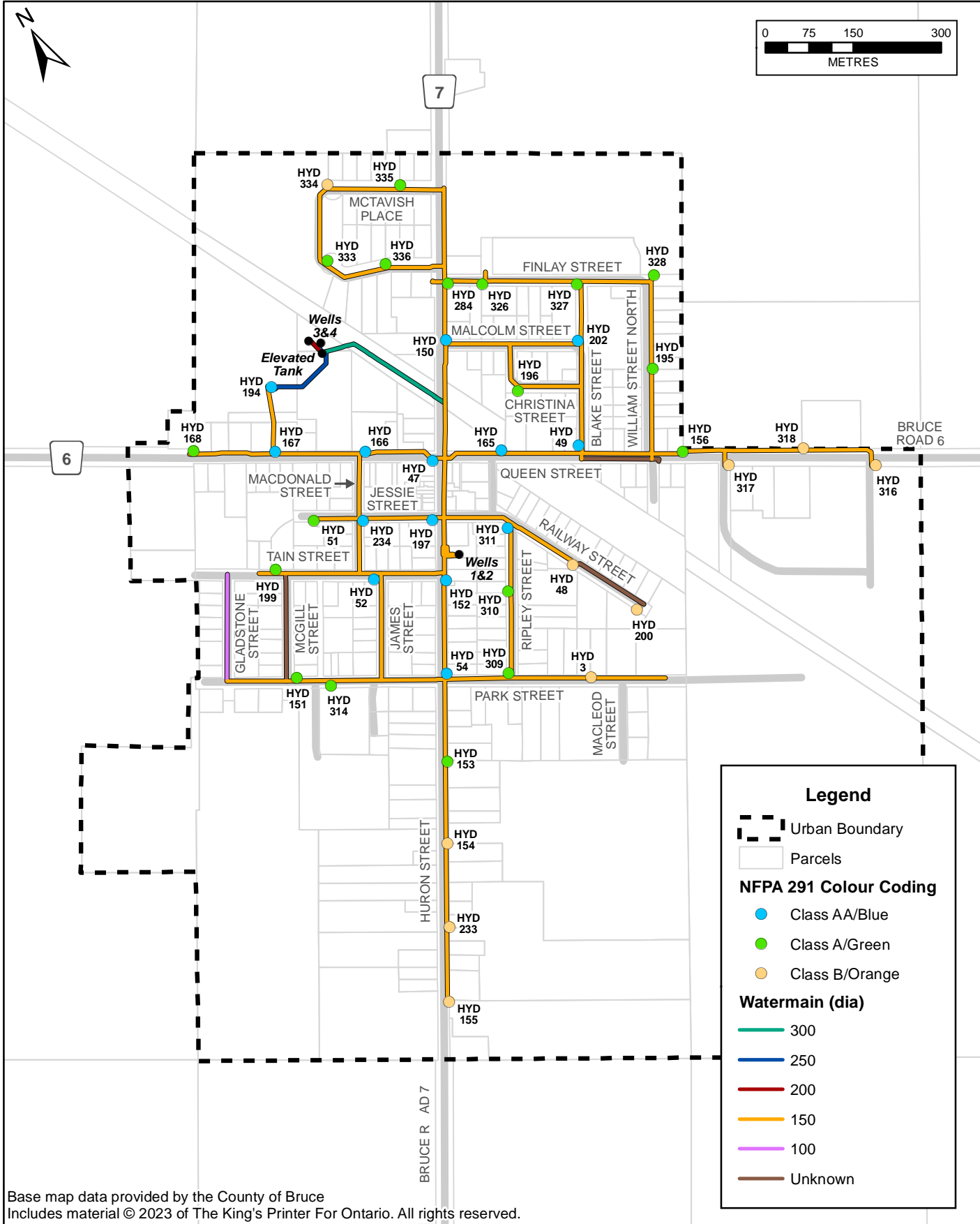
**APPENDIX B**  
**WATER DISTRIBUTION MODELING**



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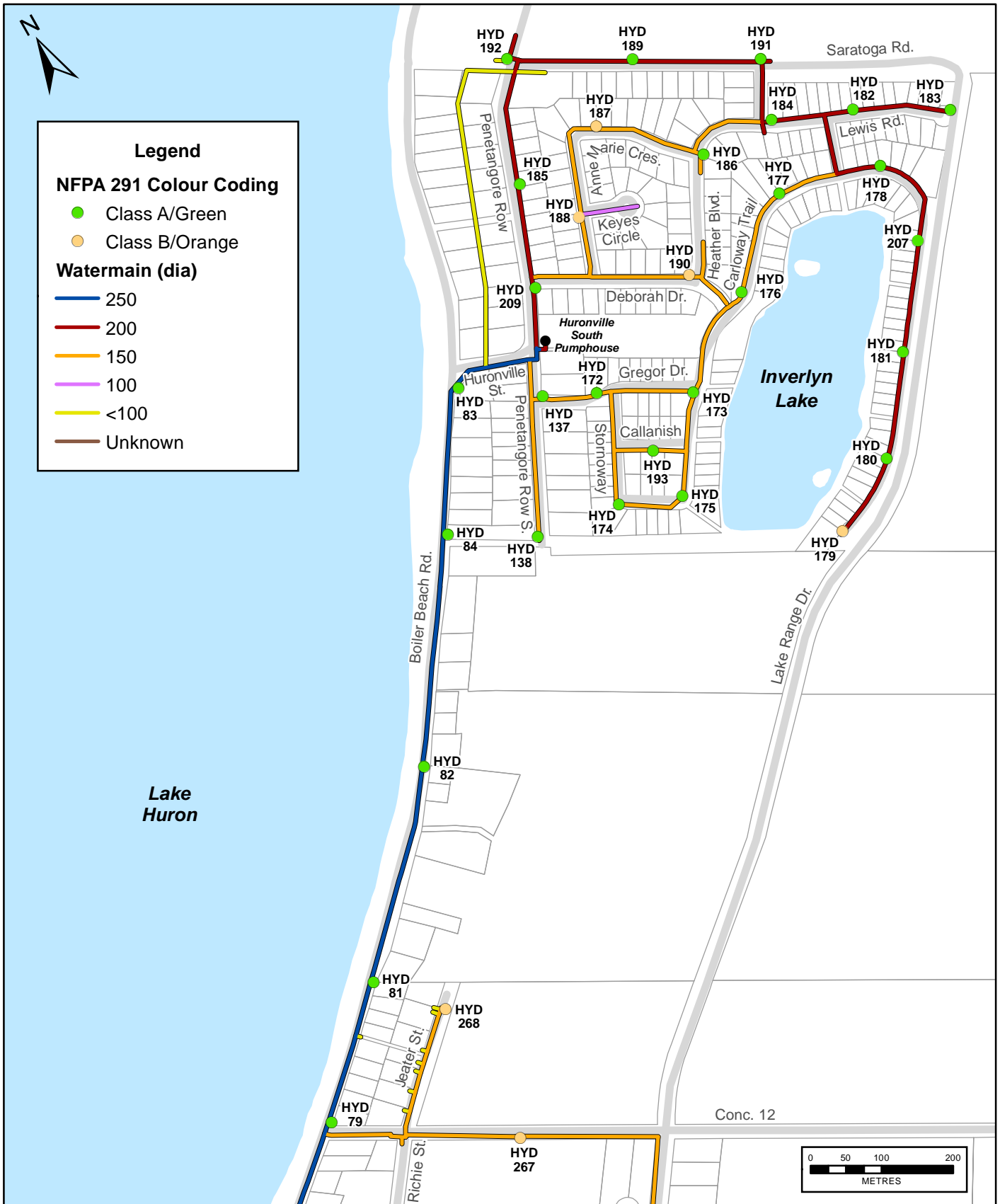


	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING <b>WATER INFRASTRUCTURE - LUCKNOW</b>		DATE MAY 15, 2023	PROJECT No. 21204
			SCALE 1:10,000	FIGURE No. 1




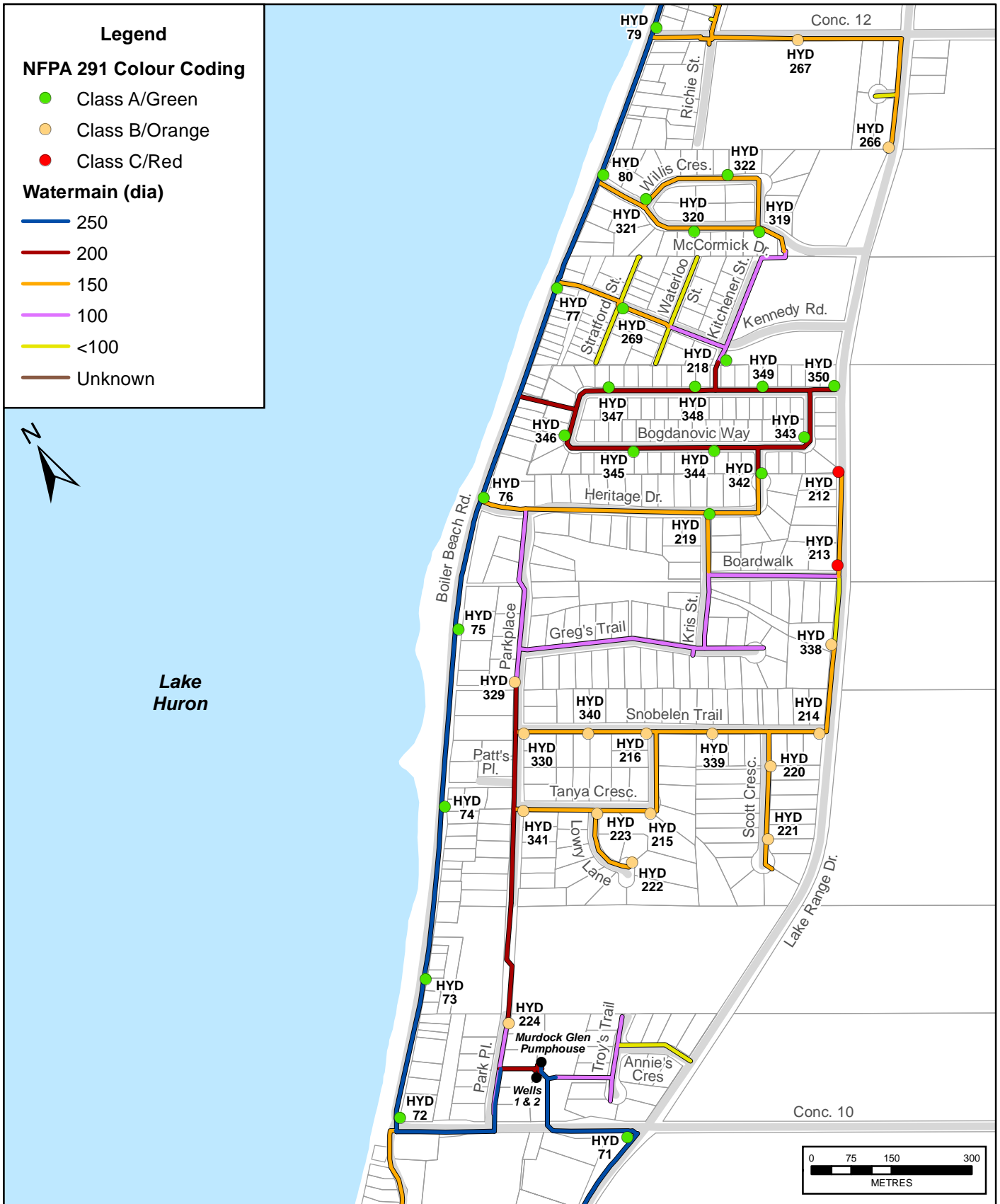
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	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING <b>WATER INFRASTRUCTURE - RIPLEY</b>		DATE MAY 15, 2023	PROJECT No. 21204
			SCALE 1:9,000	FIGURE No. 2



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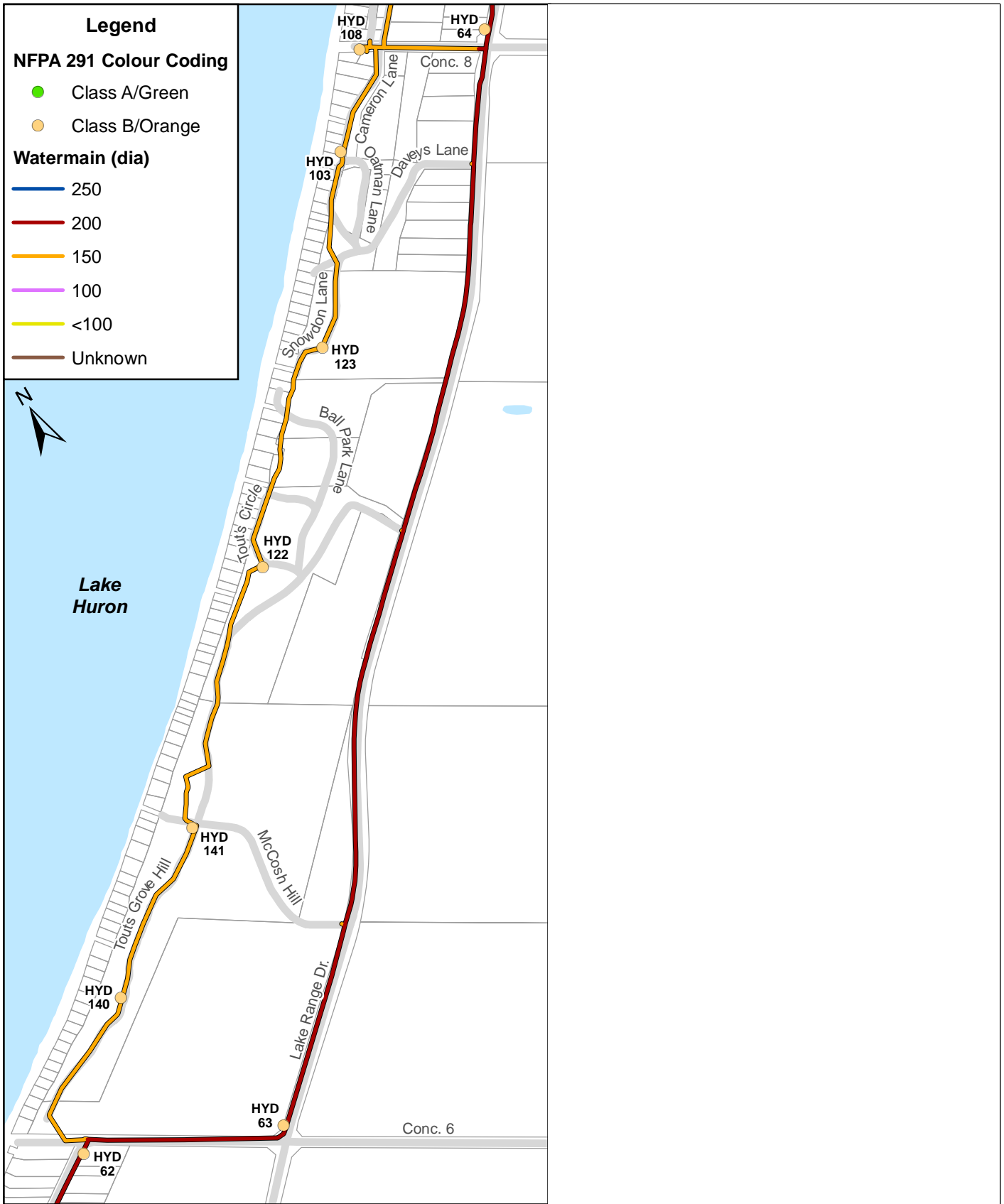
	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING	DATE MAY 15, 2023	PROJECT No. 21204
	<b>LAKESHORE NORTH WATER INFRASTRUCTURE</b> <b>INVERLYN, HURONVILLE AND NORTH BOILER BEACH</b>	SCALE 1:7,500	FIGURE No. 3



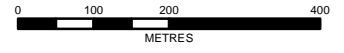
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	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING	DATE MAY 15, 2023	PROJECT No. 21204
	<b>LAKESHORE NORTH WATER INFRASTRUCTURE</b> <b>HERITAGE HEIGHTS, KIN BRUCE AND SOUTH BOILER BEACH</b>	SCALE 1:10,000	FIGURE No. 4

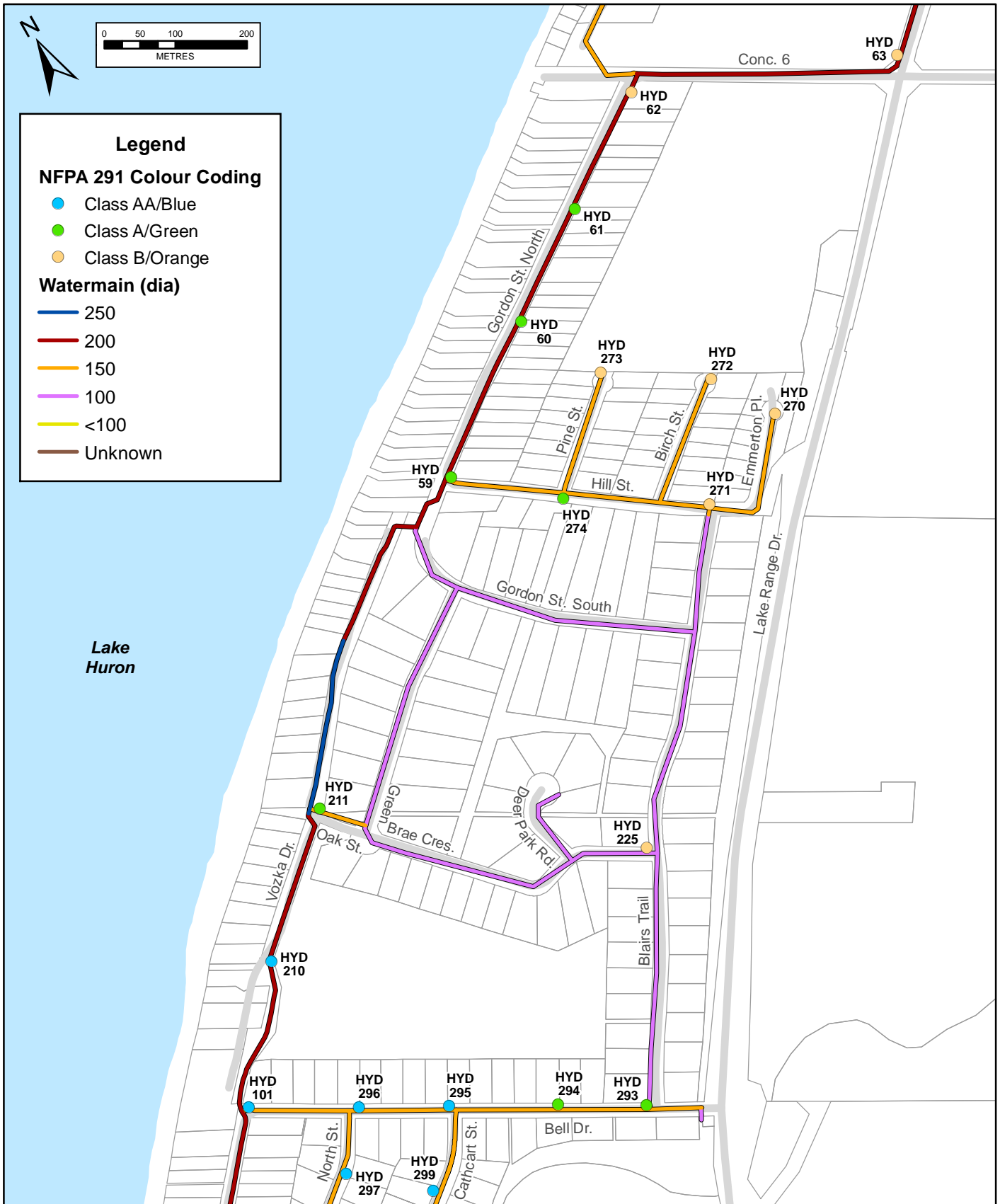





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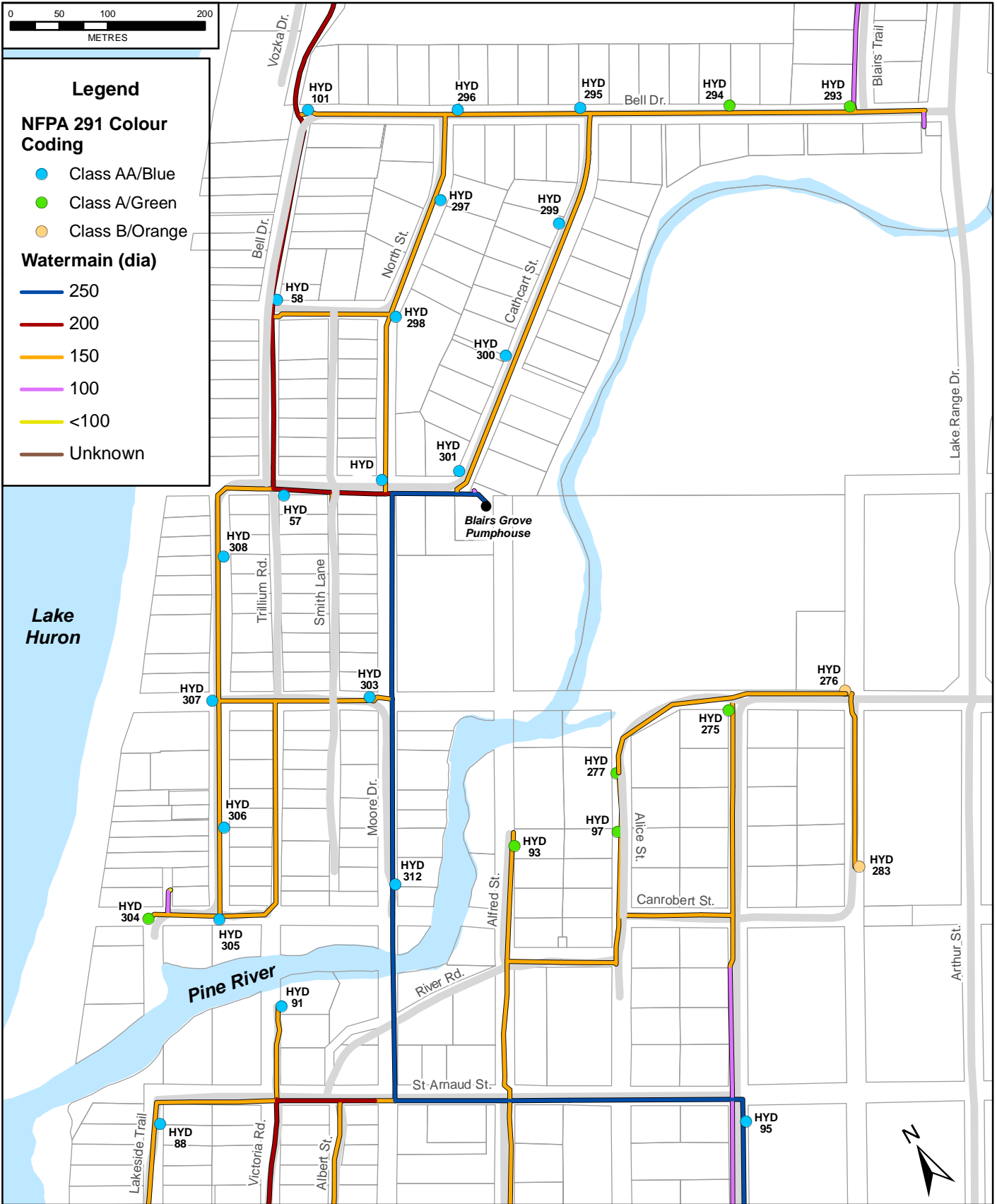


	<p align="center"><b>TOWNSHIP OF HURON-KINLOSS</b></p> <p align="center">HYDRANT COLOUR CODING</p> <p align="center"><b>LAKESHORE NORTH WATER INFRASTRUCTURE</b></p> <p align="center"><b>BRUCE BEACH</b></p>	<p align="center">DATE MAY 15, 2023</p>	<p align="center">PROJECT No. 21204</p>
		<p align="center">SCALE 1:10,000</p>	<p align="center">FIGURE No. 5</p>



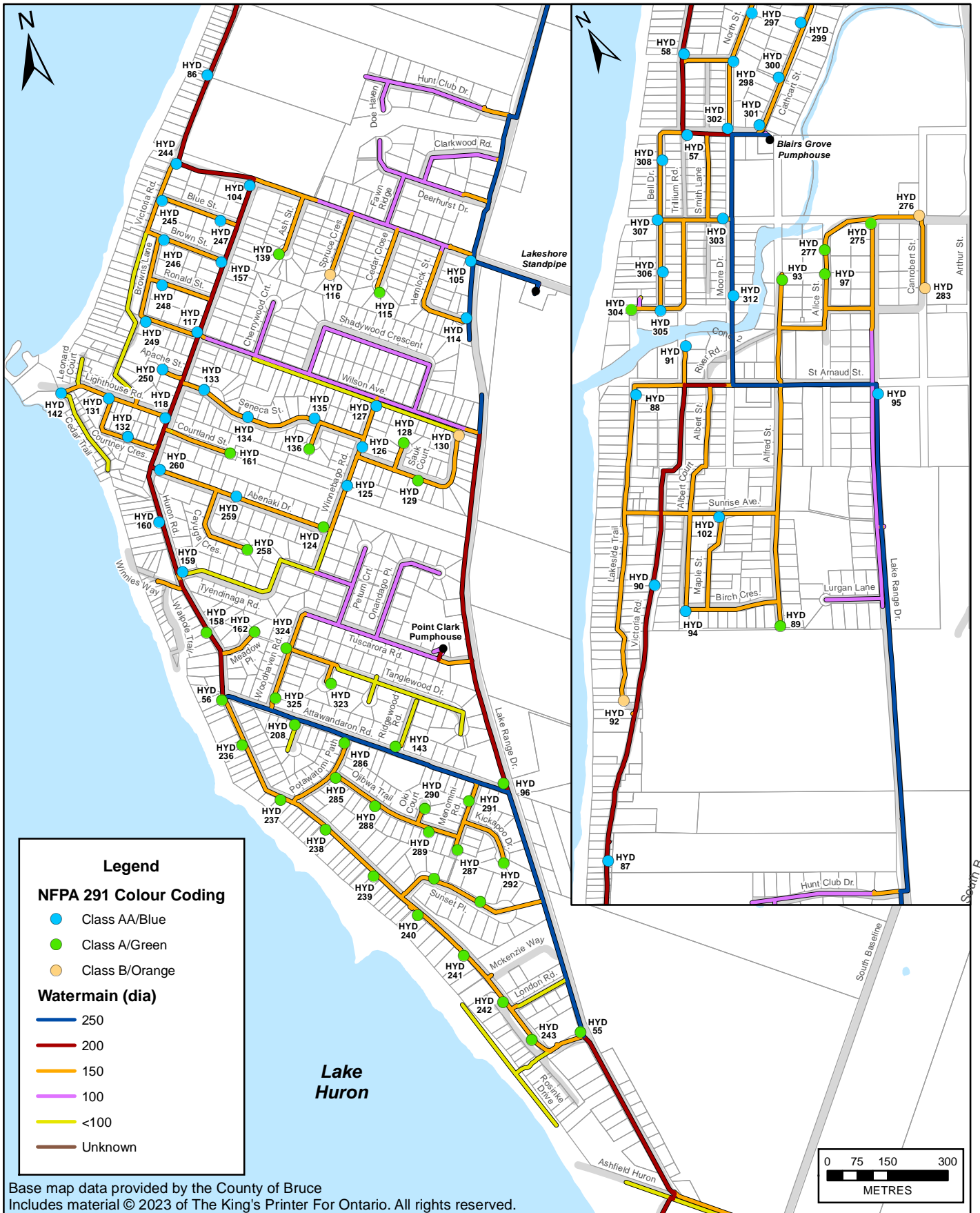
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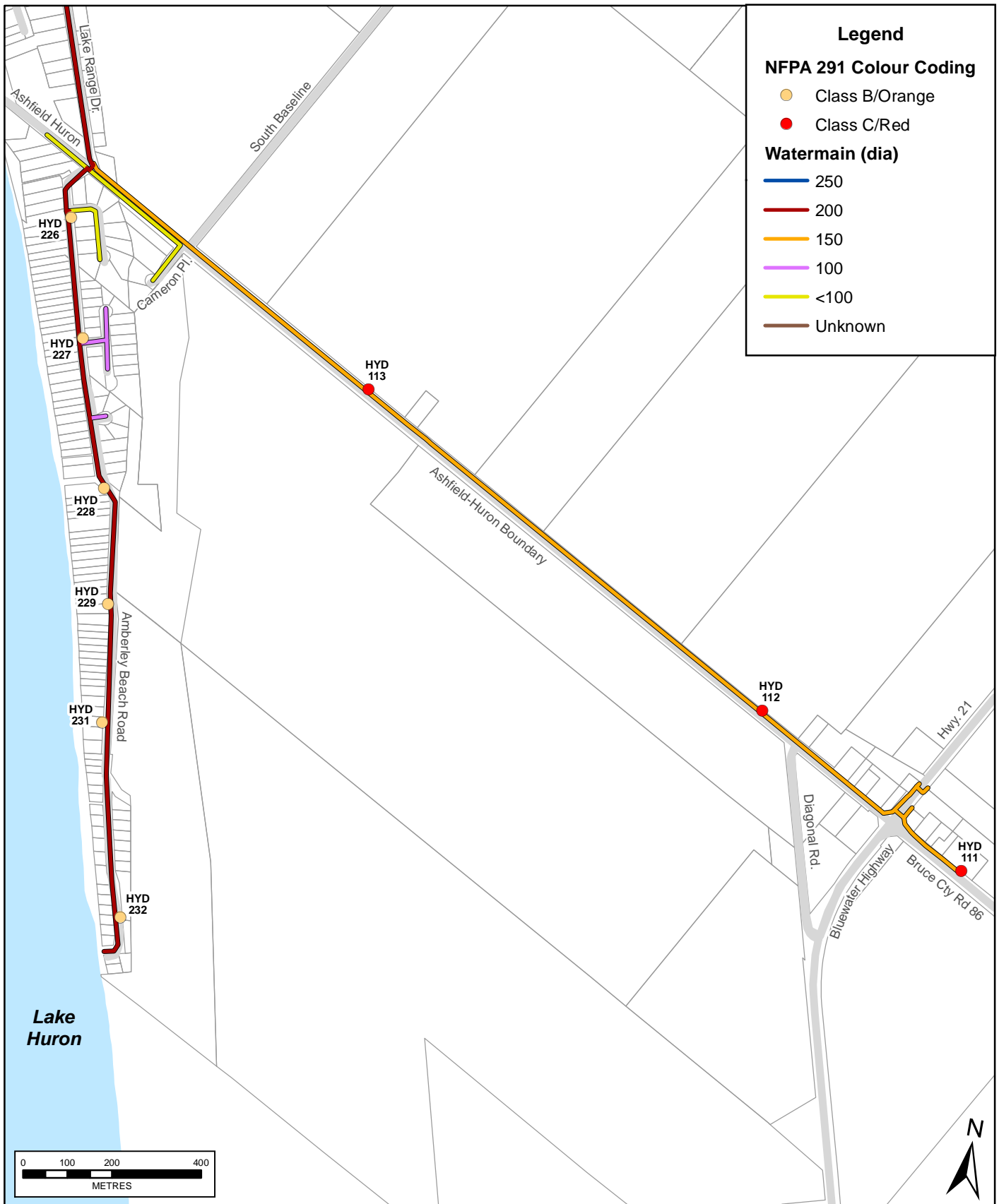
	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING		DATE MAY 15, 2023	PROJECT No. 21204
	<b>LAKESHORE SOUTH WATER INFRASTRUCTURE</b> <b>BLAIRS GROVE</b>		SCALE 1:7,500	FIGURE No. 6




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	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING	DATE MAY 15, 2023	PROJECT No. 21204
	<b>LAKESHORE SOUTH WATER INFRASTRUCTURE</b> <b>LURGAN</b>	SCALE 1:5,500	FIGURE No. 7





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	<b>TOWNSHIP OF HURON-KINLOSS</b> HYDRANT COLOUR CODING	DATE MAY 15, 2023	PROJECT No. 21204
	<b>LAKESHORE SOUTH WATER INFRASTRUCTURE</b> <b>AMBERLEY</b>	SCALE 1:12,000	FIGURE No. 9

**APPENDIX C  
CONSULTATION**





# BLUEPRINT FOR THE FUTURE

*Water & Wastewater Servicing Master Plan*

## NOTICE OF STUDY COMMENCEMENT

**THE PROJECT:** The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and water and wastewater servicing needs in the communities of Ripley, Lucknow, and the Lakeshore areas. This Master Plan will examine forecasted future residential and non-residential growth in the next 25-years and identify water and wastewater infrastructure needs to support this future growth. Options for water and wastewater services will be considered based on potential impacts, required upgrades, timing and costs. Upon completion, the Master Plan will serve as a strategic document, recommending future projects and providing a timeline for implementation of the identified upgrades, expansions or modifications to the servicing in Ripley, Lucknow and the Lakeshore areas.

**THE MASTER PLAN PROCESS:** This Master Plan is being conducted in accordance with the requirements of the Municipal Class Environmental Assessment (Class EA), following Approach 1 for Master Plans. The Master Plan will incorporate Phase 1 and 2 of the Class EA process but will generally be a broad-level study to identify future projects. The process will include consultation with the general public, community stakeholder groups, government review agencies, First Nation and Métis communities.

**PUBLIC INVOLVEMENT:** Public consultation is a key component of this study. More information on the project can be found here: [www.huronkinloss.com/water-wastewater-servicing-master-plan](http://www.huronkinloss.com/water-wastewater-servicing-master-plan) and comments and questions may be submitted either to the contact listed below or through the 'Have Your Say' platform here: [www.haveyoursayhk.ca/water-and-waste-water-servicing-master-plan](http://www.haveyoursayhk.ca/water-and-waste-water-servicing-master-plan) As a part of the consultation component of this project, a public information meeting will be held during the course of the study. Details regarding the public meeting will be provided in a future notice. Any comments collected will be maintained on file for use during the project and may be included in project documentation. With the exception of personal information, all comments will become part of the public record.

For further information on this project, please contact the consulting engineers: B. M. Ross and Associates, 62 North Street, Goderich Ontario, N7A 2T4. Telephone (519) 524-2641. Fax (519) 524-4403. Attention: Lisa Courtney, Environmental Planner. E-mail: [lcourtney@bmross.net](mailto:lcourtney@bmross.net)

**Mary Rose Walden**  
Chief Administrative Officer, Township of Huron-Kinloss

**This Notice issued May 11, 2022**

**B. M. ROSS AND ASSOCIATES LIMITED**  
**Engineers and Planners**  
62 North Street, Goderich, ON N7A 2T4  
p. (519) 524-2641 [www.bmross.net](http://www.bmross.net)

File No. 18265

**VIA EMAIL ONLY**  
Mark.Badali1@ontario.ca

May 11, 2022

Mark Badali, Regional Environmental Planner, Southwest Region  
Ministry of the Environment, Conservation and Parks

**RE: Township of Huron-Kinloss  
Growth, Water and Wastewater Servicing Master Plan**

The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and water and wastewater servicing needs in the communities of Ripley and Lucknow and the Lakeshore areas of Huron-Kinloss. This Master Plan will examine forecasted future residential and non-residential growth in the next 25-years and identify water and wastewater infrastructure needs to support this future growth. Options for water and wastewater services will be considered based on potential impacts, required upgrades, timing and costs. Upon completion, the Master Plan will serve as a strategic document, recommending future projects and providing a timeline for implementation of the identified upgrades, expansions or modifications to the servicing in Ripley, Lucknow and the lakeshore areas.

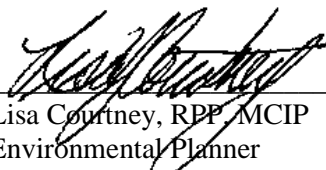
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Your organization was identified as possibly having an interest in this project and we are soliciting your input. Please forward your response to the undersigned by June 13, 2022. If you have any questions or require further information, please contact the undersigned at [lcourtney@bmross.net](mailto:lcourtney@bmross.net) or by phone at 1-888-524-2641.

Yours very truly

B. M. ROSS AND ASSOCIATES LIMITED

Per



\_\_\_\_\_  
Lisa Courtney, RPP, MCIP  
Environmental Planner

LJC:sd

Encl.

cc. Mary Rose Walden, Township of Huron-Kinloss

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**TOWNSHIP OF HURON-KINLOSS  
RIPLEY, LUCKNOW AND LAKESHORE GROWTH, WATER AND WASTEWATER  
SERVICING MASTER PLAN**

**REVIEW AGENCY CIRCULATION LIST – APRIL 2022**

<b>REVIEW AGENCY</b>	<b>CONTACT METHOD</b>	<b>ADDRESS &amp; EMAIL</b>	<b>INVOLVEMENT</b>
Ministry of Environment, Conservation and Parks	Email agency letter, project information form, site map	Mark Badali, Regional Environmental Planner (REP)- Southwest Region Email: Mark.Badali1@ontario.ca  South West Region Ministry Regional Office Email: eanotification.swregion@ontario.ca	Mandatory Contact
Ministry of Northern Development, Mines, Natural Resources and Forestry Guelph	Email agency letter, site map	Karina Cerniavskaja, District Planner Email: <a href="mailto:Karina.Cerniavskaja@ontario.ca">Karina.Cerniavskaja@ontario.ca</a>	Potential Impact on Natural Features
Ministry of Municipal Affairs and Housing	Mail agency letter, site map	Ministry of Municipal Affairs and Housing 777 Bay Street, 17th floor Toronto, Ontario M7A 2J3	Potential Impacts on Community and Housing
Ministry of Agriculture	Mail agency letter, site map	1 Stone Road West Guelph, Ontario N1G 4Y2	Potential Impacts on Agricultural Lands
Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI)	Email agency letter, site map	Karla Barboza, Team Lead – Heritage (Acting) Email: <a href="mailto:karla.barboza@ontario.ca">karla.barboza@ontario.ca</a>	Potential Impacts on Heritage, Sport, Tourism and Culture
County of Bruce - Administration Department,  - Planning & Development Department  - Economic Development	Email agency letter, site map	Administration and CAO's Office 1 Courthouse Square Goderich, ON N7A 1M2 <a href="mailto:huronadmin@huroncounty.ca">huronadmin@huroncounty.ca</a>  Planning 57 Napier Street, 2nd Floor Goderich, ON N7A 1W2 519.524.8394 ext. 3 <a href="mailto:planning@huroncounty.ca">planning@huroncounty.ca</a>  Economic Development 57 Napier Street, 1st Floor Goderich, ON N7A 1W2 519.524.8394 ext. 6 <a href="mailto:economicdevelopment@huroncounty.ca">economicdevelopment@huroncounty.ca</a>	Project within County
Town of Kincardine	Email agency letter, site map	Administration Olivia Kempel, Executive Assistant to CAO Email: okempel@kincardine.ca	Adjacent – Receive Services From

Both sent by email on May 10, 2022 by B. Adams

Sent by email on May 10, 2022 by B. Adams

Sent by email on May 10, 2022 by B. Adams

All sent by email on May 10, 2022 by B. Adams

Sent by email on May 10, 2022 by B. Adams

Township of Ashfield-Colborne-Wawanosh	Email agency letter, site map	Mark Becker, Chief Building Official Email: cao@acwtownship.ca	Adjacent Serviced Area	Sent by email on May 10, 2022 by B. Adams
Maitland Valley Conservation Authority	Email agency letter, site map	Kirsten Snoek, Planning and Regulations Assistant Email: ksnoek@mvca.on.ca	Potential Impact on Natural Features	
Saugeen Valley Conservation Authority	Email agency letter, site map	Cassandra Malo Resources Information Technician Email: c.malo@svca.on.ca	Potential Impact on Natural Features	Sent by email on May 10, 2022 by B. Adams
Ausable Bayfield Maitland Valley Source Protection	Email agency letter, site map	Mary Lynn MacDonald, Co-Program Supervisor and Risk Management Official, Drinking Water Source Protection Email: <a href="mailto:mmacdonald@abca.on.ca">mmacdonald@abca.on.ca</a>  Donna Clarkson, Co-Program Supervisor and Risk Management Official, Drinking Water Source Protection Email: dclarkson@abca.ca	Potential Impact on Source Water	
Saugeen Valley Source Protection	Email agency letter, site map	Carl Seider, Project Manager, Drinking Water Source Protection Email: c.seider@greysauble.on.ca	Potential Impact on Source Water	Both sent by email on May 10, 2022 by B. Adams
Township of Huron-Kinloss	Email copy of correspondence	Mary Rose Walden Chief Administrative Officer Email: mrwalden@huronkinloss.com	Proponent	

Sent by email on May 10, 2022 by B. Adams

Sent by email on May 10, 2022 by B. Adams

Sent by email on May 10, 2022 by B. Adams

Both sent by email on May 10, 2022 by B. Adams

Sent by email on May 10, 2022 by B. Adams

**DATE**

*See Attached List*

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Growth, Water and Wastewater Servicing Master Plan**

The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and water and wastewater servicing needs in the communities of Ripley and Lucknow and the Lakeshore areas of Huron-Kinloss. This Master Plan will examine forecasted future residential and non-residential growth in the next 25-years and identify water and wastewater infrastructure needs to support this future growth. Options for water and wastewater services will be considered based on potential impacts, required upgrades, timing and costs. Upon completion, the Master Plan will serve as a strategic document, recommending future projects and providing a timeline for implementation of the identified upgrades, expansions or modifications to the servicing in Ripley, Lucknow and the lakeshore areas.

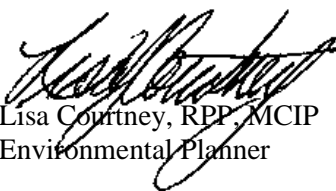
This Master Plan is being conducted in accordance with the requirements of the Municipal Class Environmental Assessment (Class EA), following Approach 1 for Master Plans. The Master Plan will incorporate Phase 1 and 2 of the Class EA process but will generally be a broad-level study to identify future projects. The process will include consultation with the general public, community stakeholder groups, government review agencies, First Nation and Métis communities.

Your community was identified as possibly having an interest in this project and we are soliciting your input. For your convenience, a response form is enclosed along with a self-addressed stamped envelope. Please forward your response to the undersigned by June 27, 2022. If you have any questions or require further information, please contact the undersigned at [lcourtney@bmross.net](mailto:lcourtney@bmross.net) or by phone at 1-888-524-2641.

Yours very truly

B. M. ROSS AND ASSOCIATES LIMITED

Per \_\_\_\_\_



Lisa Courtney, RPP, MCIP  
Environmental Planner

LJC:hv

Encl.

cc. Mary Rose Walden, Township of Huron-Kinloss

**TOWNSHIP OF HURON-KINLOSS  
RIPLEY, LUCKNOW AND LAKESHORE GROWTH, WATER AND WASTEWATER  
SERVICING MASTER PLAN  
BMROSS FILE 18265**

**ABORIGINAL COMMUNITIES CIRCULATION LIST – APRIL 2022**

<b><u>Aboriginal Community</u></b>	<b><u>Contact Method</u></b>	
Saugeen Objibway Nation (SON) - Chippewas of Saugeen & Chippewas of Nawash	Emily Martin Resources and Infrastructure Manager 25 Maadookii Subdivision Neyaashiinigmiing Ontario, N0H 2T0 Email: <a href="mailto:manager.ri@saugeenojibwaynation.ca">manager.ri@saugeenojibwaynation.ca</a>	Sent by email on May 10, 2022 by B. Adams
Chippewas of Nawash Unceded First Nations	Terry King Tribal Secretary 135 Lakeshore Blvd. Neyaashiinigmiing, ON N0H 2T0 Email: <a href="mailto:executiveassistant@nawash.ca">executiveassistant@nawash.ca</a>	Sent by email on May 10, 2022 by B. Adams
Chippewas of Saugeen First Nations	Chief Lester Anoquot 6493 Highway 21, R.R # 1 Southampton, ON N0H 2L0 Email: <a href="mailto:sfn@saugeen.org">sfn@saugeen.org</a>	Sent by email on May 10, 2022 by B. Adams
Historic Saugeen Métis	204 High Street, Southampton, Ontario N0H 2L0 Email: <a href="mailto:saugeenmetis@bmts.com">saugeenmetis@bmts.com</a>	Sent by email on May 10, 2022 by B. Adams
Métis Nation of Ontario	Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1 Email: <a href="mailto:consultations@metisnation.org">consultations@metisnation.org</a>	Sent by email on May 10, 2022 by B. Adams
Great Lakes Métis Council	380 9th Street East Owen Sound, ON N4K 1P3 Email: <a href="mailto:GreatLakesMetis@gmail.com">GreatLakesMetis@gmail.com</a>	Sent by email on May 10, 2022 by B. Adams

**Ministry of Heritage, Sport,  
Tourism and Culture Industries**

Programs and Services Branch  
400 University Ave, 5<sup>th</sup> Flr  
Toronto, ON M7A 2R9  
Tel: 437.996.5218

**Ministère des Industries du Patrimoine,  
du Sport, du Tourisme et de la Culture**

Direction des programmes et des services  
400, av. University, 5e étage  
Toronto, ON M7A 2R9  
Tél: 437.996.5218



June 13, 2022

EMAIL ONLY

Lisa Courtney  
Environmental Planner  
B. M. Ross and Associates Limited  
Email: [lcourtney@bmross.net](mailto:lcourtney@bmross.net)

**MHSTCI File : 0016588**  
**Proponent : The Township of Huron-Kinloss**  
**Subject : Notice of Commencement – Master Plan Approach #1**  
**Project : Water and Wastewater Servicing Master Plan**  
**Location : Central Elgin, Ontario**

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Dear Ms. Courtney:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Commencement for this project. MHSTCI's interest in this master plan relates to its mandate of conserving Ontario's cultural heritage, which includes archaeological resources, built heritage resources and cultural heritage landscapes.

MHSTCI understands that master plans are long range plans which integrate infrastructure requirements for existing and future land use with environmental assessment planning principles. The Municipal Class Environmental Assessment (MCEA) outlines a framework for master plan and associated studies which should recognize the planning and design Process of this Class EA, and should incorporate the key principles of successful environmental assessment planning identified in Section A.1.1. The master planning process will, at minimum, address Phases 1 and 2 of the Planning and Design Process of the MCEA.

This letter provides advice on how to incorporate consideration of cultural heritage in the above-mentioned master planning process by outlining the technical cultural heritage studies and the level of detail required to address cultural heritage in master plans. In accordance with the MCEA, cultural heritage resources should be identified early in the process in order to determine known and potential resources and potential impacts.

### **Master Plan Summary**

The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and water and wastewater servicing needs in the communities of Ripley and Lucknow and the Lakeshore areas of Huron-Kinloss. This Master Plan will examine forecasted future residential and non-residential growth in the next 25-years and identify water and wastewater infrastructure needs to support this future growth. Options for water and wastewater services will be considered based on potential impacts, required upgrades, timing and costs. Upon completion, the Master Plan will serve as a strategic document, recommending future projects and providing a timeline for

implementation of the identified upgrades, expansions or modifications to the servicing in Ripley, Lucknow and the lakeshore areas.

### **Recommendations for Approach 1**

MHSTCI understands that the master plan would typically be done at a broad level of assessment thereby requiring more detailed investigations at the project-specific level. Therefore, a description of the existing conditions related to cultural heritage resources needs to be included in the master plan document.

### **Archaeological Resources**

The existing conditions sub-section should indicate if the master plan includes areas of archaeological potential or not and acknowledge that archaeological assessments will be required for future project-specific projects. The proponents should refer to an archaeological management plan or a data sharing agreement, should they exist. In their absence, MHSTCI's screening checklists can help determine whether archaeological assessments will be needed for subsequent project undertakings: [Criteria for Evaluating Archaeological Potential](#) and [Criteria for Evaluating Marine Archaeological Potential](#).

A statement should be included that archaeological assessments are to be undertaken by an archaeologist licensed under the Ontario Heritage Act and that archaeological assessment reports must be submitted for MHSTCI review prior to the completion of the environmental assessment and prior to any ground disturbance. Some municipalities may also elect to have a Stage 1 archaeological assessment undertaken for a master plan area.

### **Built Heritage Resources and Cultural Heritage Landscapes**

MHSTCI recommends that an Existing Conditions Report be undertaken by a qualified person, which will include a historical summary of the study area's development, identifying all known or potential built heritage resources and cultural heritage landscapes within the study area. The findings of the existing conditions report should be included in the existing conditions subsection of the master plan document.

Community input should be sought to identify locally recognized and potential cultural heritage resources. Sources include, but are not limited to, Municipal Heritage Committees, community heritage registers, historical societies and other local heritage organizations.

Cultural heritage resources are often of critical importance to Indigenous communities. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and any engagement with Indigenous communities should include a discussion about known or potential cultural heritage resources that are of value to them.

### **Subsequent Municipal Class EA Undertakings**

The recommendations outlined above can be used in support of any future technical cultural heritage studies required for any Schedule B and C MCEA undertakings identified within the master planning area. Technical cultural heritage studies are to be undertaken by a qualified person who has expertise, recent experience, and knowledge relevant to the type of cultural heritage resources being considered and the nature of the activity being proposed. Please advise MHSTCI whether any technical cultural heritage studies will be completed for this master plan and provide them to MHSTCI before issuing a Notice of Completion.

Thank you for consulting MHSTCI on this project. Please continue to do so through the master plan process and contact myself for any questions or clarification.

Sincerely,

Laura Romeo  
Heritage Planner (A)  
[laura.romeo@ontario.ca](mailto:laura.romeo@ontario.ca)

Copied to: Karla Barboza, Team Lead (A), Heritage Planning Unit, MHSTCI

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MHSTCI makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MHSTCI be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MHSTCI (at [archaeology@ontario.ca](mailto:archaeology@ontario.ca)) if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately, and the local police and coroner must be contacted. In situations where human remains are associated with archaeological resources, MHSTCI should also be notified (at [archaeology@ontario.ca](mailto:archaeology@ontario.ca)) to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.



## PLANNING & DEVELOPMENT

57 Napier Street, Goderich, Ontario N7A 1W2 CANADA

Phone: 519.524.8394 Ext. 3 Fax: 519.524.5677

Toll Free: 1.888.524.8394 Ext. 3

[www.huroncounty.ca](http://www.huroncounty.ca)

To: Lisa Courtney RPP MCIP, Environmental Planner  
From: Celina Whaling-Rae, Planner  
Date: May 30<sup>th</sup>, 2022

**Re: Township of Huron-Kinloss Growth, Water and Wastewater Servicing Master Plan**

The Township of Ashfield-Colborne-Wawanosh (ACW) and the Huron County Planning & Development Department are in receipt of the Notice of Study Commencement for the Growth, Water and Wastewater Servicing Master Plan being undertaken by B.M. Ross and Associates on behalf of the Township of Huron-Kinloss. ACW is pleased to hear that this project is being undertaken.

ACW would request that consideration be given throughout this project to the lands designated for development in ACW within close proximity to the Township of Huron-Kinloss; including lands south of Lucknow in particular. Cumulatively, there is approximately 240 acres of land designated for future development south of Lucknow within ACW. Historically, the Township of Huron-Kinloss and ACW have successfully entered into shared water servicing agreements to allow for the servicing of lands proximate to both Lucknow and Point Clark within both municipalities. It is ACW's hope that shared servicing may continue as the Township of Huron-Kinloss looks to upgrade, expand, and/or modify servicing in Lucknow through this project. This shared servicing arrangement is felt to be beneficial from both a relationship-building and planning perspective.

Thank you for the opportunity to provide comment at this time. We look forward to seeing this project continue.

Yours truly,

Celina Whaling-Rae  
County of Huron Planner  
Assigned to the Township of Ashfield-Colborne-Wawanosh

cc: Township of Ashfield-Colborne-Wawanosh  
Huron County Planning & Development Department.



## **Lisa Courtney**

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**From:** Patrick Huber-Kidby <phuber-kidby@mvca.on.ca>  
**Sent:** May 19, 2022 4:23 PM  
**To:** lcourtney@bmross.net  
**Cc:** Anna Soleski  
**Subject:** Huron-Kinloss Growth, Water, Servicing Mater Plan  
**Attachments:** 18265-2022-05-11-MVCA let.pdf

Lisa,

Thank you for circulating this to MVCA, we would be happy to provide our current hazard mapping to you for this project at the appropriate stage.

Lucknow is generally impacted by flooding along the Nine Mile River, and has some nearby wetland features, and we would consider these a restraint to “growth” within certain areas.



***Patrick Huber-Kidby***

**Maitland Valley Conservation Authority**

**Voicemail:** (519) 335-3557 x 237     **Fax:** (519) 335-3516

**Mail:** 1093 Marietta St. Box 127, Wroxeter, ON. N0G 2X0

**Ministry of the Environment,  
Conservation and Parks**

**Ministère de l'Environnement,  
de la Protection de la nature  
et des Parcs**

Environmental Assessment  
Branch

Direction des évaluations  
environnementales

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Rez-de-chaussée  
135, avenue St. Clair Ouest  
Toronto ON M4V 1P5  
**Tél. :** 416 314-8001  
**Télééc. :** 416 314-8452

June 9, 2022

Mary Rose Walden  
Chief Administrative Officer  
Township of Huron-Kinloss  
mrwalden@huronkinloss.com

**Re: Water and Wastewater Servicing Master Plan  
Township of Huron-Kinloss  
Municipal Class EA  
Response to Notice of Commencement**

Dear Mary Rose Walden,

This letter is in response to the Notice of Commencement for the above noted project. The Ministry of the Environment, Conservation and Parks (MECP) acknowledges that the Township of Huron-Kinloss (proponent) has indicated that the study is following the approved environmental planning process for a Master Plan (Approach #1) under the Municipal Class Environmental Assessment (Class EA).

The **updated (February 2021)** attached “Areas of Interest” document provides guidance regarding the ministry’s interests with respect to the Class EA process. Please address all areas of interest in the EA documentation at an appropriate level for the EA study. Proponents who address all the applicable areas of interest can minimize potential delays to the project schedule. **Further information is provided at the end of the Areas of Interest document relating to recent changes to the Environmental Assessment Act through Bill 197, Covid-19 Economic Recovery Act 2020.**

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before authorizing this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the consultation process.

The proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to the proposed project, **the MECP is delegating the procedural aspects of rights-based consultation to the proponent through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information provided to date and the Crown's preliminary assessment the proponent is required to consult with the following communities who have been identified as potentially affected by the proposed project:

- Saugeen First Nation and the Chippewas of Nawash Unceded First Nation
  - These communities work together on consultation issues and are known collectively as the Saugeen Ojibway Nation. They have requested notices be sent to the Saugeen Ojibway Nation Environment Office with a copy to the Chief and Council of Saugeen First Nation and Chippewas of Nawash Unceded First Nation.
- Métis Nation of Ontario- Lands and Resources Dept, Region 7

Steps that the proponent may need to take in relation to Aboriginal consultation for the proposed project are outlined in the "[Code of Practice for Consultation in Ontario's Environmental Assessment Process](#)". Additional information related to Ontario's Environmental Assessment Act is available online at: [www.ontario.ca/environmentalassessments](http://www.ontario.ca/environmentalassessments).

**Please also refer to the attached document "A Proponent's Introduction to the Delegation of Procedural Aspects of consultation with Aboriginal Communities" for further information, including the MECP's expectations for EA report documentation related to consultation with communities.**

The proponent must contact the Director of Environmental Assessment Branch (EABDirector@ontario.ca) under the following circumstances subsequent to initial discussions with the communities identified by the MECP:

- Aboriginal or treaty rights impacts are identified to you by the communities
- You have reason to believe that your proposed project may adversely affect an

- Aboriginal or treaty right
- Consultation with Indigenous communities or other stakeholders has reached an impasse
  - A Part II Order request is expected on the basis of impacts to Aboriginal or treaty rights

The MECP will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

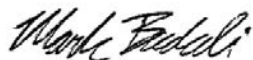
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**A draft copy of the report should be sent directly to me prior to the filing of the final report, allowing a minimum of 30 days for the ministry's technical reviewers to provide comments.**

**Please also ensure a copy of the final notice is sent to the ministry's Southwest Region EA notification email account ([eanotification.swregion@ontario.ca](mailto:eanotification.swregion@ontario.ca)) after the draft report is reviewed and finalized.**

Should you or any members of your project team have any questions regarding the material above, please contact me at [mark.badali1@ontario.ca](mailto:mark.badali1@ontario.ca).

Yours truly,



Mark Badali  
Regional Environmental Planner – Southwest Region

Cc: John Ritchie, Manager, Owen Sound District Office, MECP  
Lisa Courtney, Environmental Planner, B.M. Ross and Associates Limited

Encl. Areas of Interest  
A Proponent's Introduction to the Delegation of Procedural Aspects of Consultation with  
Aboriginal Communities

## AREAS OF INTEREST (v. February 2021)

*It is suggested that you check off each section after you have considered / addressed it.*

### **Planning and Policy**

- Applicable plans and policies should be identified in the report, and the proponent should describe how the proposed project adheres to the relevant policies in these plans.
  - Projects located in MECP Central, Eastern or West Central Region may be subject to [A Place to Grow: Growth Plan for the Greater Golden Horseshoe \(2020\)](#).
  - Projects located in MECP Central or Eastern Region may be subject to the [Oak Ridges Moraine Conservation Plan \(2017\)](#) or the [Lake Simcoe Protection Plan \(2014\)](#).
  - Projects located in MECP Central, Southwest or West Central Region may be subject to the [Niagara Escarpment Plan \(2017\)](#).
  - Projects located in MECP Central, Eastern, Southwest or West Central Region may be subject to the [Greenbelt Plan \(2017\)](#).
  - Projects located in MECP Northern Region may be subject to the [Growth Plan for Northern Ontario \(2011\)](#).
- The [Provincial Policy Statement \(2020\)](#) contains policies that protect Ontario's natural heritage and water resources. Applicable policies should be referenced in the report, and the proponent should describe how the proposed project is consistent with these policies.
- In addition to the provincial planning and policy level, the report should also discuss the planning context at the municipal and federal levels, as appropriate.

### **Source Water Protection**

The *Clean Water Act, 2006* (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas have been delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs) and surface water Intake Protection Zones (IPZs). Other vulnerable areas that have been delineated under the CWA include Highly Vulnerable Aquifers (HVAs), Significant Groundwater Recharge Areas (SGRAs), Event-based modelling areas (EBAs), and Issues Contributing Areas (ICAs). Source protection plans have been developed that include policies to address existing and future risks to sources of municipal drinking water within these vulnerable areas.

Projects that are subject to the Environmental Assessment Act that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e.

systems that are not municipal residential systems). MEA Class EA projects may include activities that, if located in a vulnerable area, could be a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and the activity could therefore be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Class EA projects (where the project includes an activity that is a threat to drinking water) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

- In October 2015, the MEA Parent Class EA document was amended to include reference to the Clean Water Act (Section A.2.10.6) and indicates that proponents undertaking a Municipal Class EA project must identify early in their process whether a project is or could potentially be occurring with a vulnerable area. **Given this requirement, please include a section in the report on source water protection.**
  - The proponent should identify the source protection area and should clearly document how the proximity of the project to sources of drinking water (municipal or other) and any delineated vulnerable areas was considered and assessed. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area.
  - If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to drinking water (this should be consulted on with the appropriate Source Protection Authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/negative effects of alternatives, mitigation measures, evaluation of alternatives etc.
- While most source protection plans focused on including policies for significant drinking water threats in the WHPAs and IPZs it should be noted that even though source protection plan policies may not apply in HVAs, these are areas where aquifers are sensitive and at risk to impacts and within these areas, activities may impact the quality of sources of drinking water for systems other than municipal residential systems.
- In order to determine if this project is occurring within a vulnerable area, proponents can use this mapping tool: <http://www.applications.ene.gov.on.ca/swp/en/index.php>. Note that various layers (including WHPAs, WHPA-Q1 and WHPA-Q2, IPZs, HVAs, SGRAs, EBAs, ICAs) can be turned on through the “Map Legend” bar on the left. The mapping tool will also

provide a link to the appropriate source protection plan in order to identify what policies may be applicable in the vulnerable area.

- For further information on the maps or source protection plan policies which may relate to their project, proponents must contact the appropriate source protection authority. **Please consult with the local source protection authority to discuss potential impacts on drinking water. Please document the results of that consultation within the report and include all communication documents/correspondence.**

#### More Information

For more information on the *Clean Water Act*, source protection areas and plans, including specific information on the vulnerable areas and drinking water threats, please refer to [Conservation Ontario's website](#) where you will also find links to the local source protection plan/assessment report.

A list of the prescribed drinking water threats can be found in [section 1.1 of Ontario Regulation 287/07](#) made under the *Clean Water Act*. In addition to prescribed drinking water threats, some source protection plans may include policies to address additional "local" threat activities, as approved by the MECP.

#### **Climate Change**

The document "[Considering Climate Change in the Environmental Assessment Process](#)" (Guide) is now a part of the Environmental Assessment program's Guides and Codes of Practice. The Guide sets out the MECP's expectation for considering climate change in the preparation, execution and documentation of environmental assessment studies and processes. The guide provides examples, approaches, resources, and references to assist proponents with consideration of climate change in EA. Proponents should review this Guide in detail.

#### • **The MECP expects proponents of Class EA projects to:**

1. Consider during the assessment of alternative solutions and alternative designs, the following:
  - a. the project's expected production of greenhouse gas emissions and impacts on carbon sinks (climate change mitigation); and
  - b. resilience or vulnerability of the undertaking to changing climatic conditions (climate change adaptation).
2. Include a discrete section in the report detailing how climate change was considered in the EA.

How climate change is considered can be qualitative or quantitative in nature and should be scaled to the project's level of environmental effect. In all instances, both a project's impacts on climate change (mitigation) and impacts of climate change on a project (adaptation) should be considered.

- The MECP has also prepared another guide to support provincial land use planning direction related to the completion of energy and emission plans. The "[Community Emissions Reduction Planning: A Guide for Municipalities](#)" document is designed to educate stakeholders on the municipal opportunities to reduce energy and greenhouse gas emissions, and to provide guidance on methods and techniques to incorporate consideration of energy and greenhouse gas emissions into municipal activities of all types. We encourage you to review the Guide for information.

□ **Air Quality, Dust and Noise**

- If there are sensitive receptors in the surrounding area of this project, a quantitative air quality/odour impact assessment will be useful to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment can be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization and a quantification of local air quality impacts on the sensitive receptors and the environment in the study area. The assessment will compare to all applicable standards or guidelines for all contaminants of concern. **Please contact this office for further consultation on the level of Air Quality Impact Assessment required for this project if not already advised.**
- If a quantitative Air Quality Impact Assessment is not required for the project, the MECP expects that the report contain a qualitative assessment which includes:
  - A discussion of local air quality including existing activities/sources that significantly impact local air quality and how the project may impact existing conditions;
  - A discussion of the nearby sensitive receptors and the project's potential air quality impacts on present and future sensitive receptors;
  - A discussion of local air quality impacts that could arise from this project during both construction and operation; and
  - A discussion of potential mitigation measures.
- As a common practice, "air quality" should be used an evaluation criterion for all road projects.
- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the study area are not adversely affected during construction activities.
- The MECP recommends that non-chloride dust-suppressants be applied. For a comprehensive list of fugitive dust prevention and control measures that could be applied, refer to [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#) report prepared for Environment Canada. March 2005.



- The report should consider the potential impacts of increased noise levels during the operation of the completed project. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

#### **Ecosystem Protection and Restoration**

- Any impacts to ecosystem form and function must be avoided where possible. The report should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- Natural heritage and hydrologic features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. The following sensitive environmental features may be located within or adjacent to the study area:
  - Key Natural Heritage Features: Habitat of endangered species and threatened species, fish habitat, wetlands, areas of natural and scientific interest (ANSIs), significant valleylands, significant woodlands; significant wildlife habitat (including habitat of special concern species); sand barrens, savannahs, and tallgrass prairies; and alvars.
  - Key Hydrologic Features: Permanent streams, intermittent streams, inland lakes and their littoral zones, seepage areas and springs, and wetlands.
  - Other natural heritage features and areas such as: vegetation communities, rare species of flora or fauna, Environmentally Sensitive Areas, Environmentally Sensitive Policy Areas, federal and provincial parks and conservation reserves, Greenland systems etc.

We recommend consulting with the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional studies will be necessary to preserve and protect these sensitive features. In addition, you may consider the provisions of the Rouge Park Management Plan if applicable.

#### **Species at Risk**

- The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. Information, standards, guidelines, reference materials and technical resources to assist you are found at <https://www.ontario.ca/page/species-risk>.
- The Client's Guide to Preliminary Screening for Species at Risk (Draft May 2019) has been attached to the covering email for your reference and use. Please review this document for next steps.

- For any questions related to subsequent permit requirements, please contact [SAROntario@ontario.ca](mailto:SAROntario@ontario.ca).

#### □ **Surface Water**

- The report must include enough information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the study area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. The ministry's [Stormwater Management Planning and Design Manual \(2003\)](#) should be referenced in the report and utilized when designing stormwater control methods. **A Stormwater Management Plan should be prepared as part of the Class EA process** that includes:
  - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
  - Watershed information, drainage conditions, and other relevant background information
  - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works
  - Information on maintenance and monitoring commitments.
- Ontario Regulation 60/08 under the *Ontario Water Resources Act* (OWRA) applies to the Lake Simcoe Basin, which encompasses Lake Simcoe and the lands from which surface water drains into Lake Simcoe. If the proposed sewage treatment plant is listed in Table 1 of the regulation, the report should describe how the proposed project and its mitigation measures are consistent with the requirements of this regulation and the OWRA.
- Any potential approval requirements for surface water taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, except for certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information. Additionally, an

Environmental Compliance Approval under the OWRA is required for municipal stormwater management works.

**Groundwater**

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the report.
- If the potential construction or decommissioning of water wells is identified as an issue, the report should refer to Ontario Regulation 903, Wells, under the OWRA.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the report. A Permit to Take Water (PTTW) under the OWRA will be required for any water takings that exceed 50,000 L/day, with the exception of certain water taking activities that have been prescribed by the Water Taking EASR Regulation – *O. Reg. 63/16*. These prescribed water-taking activities require registration in the EASR instead of a PTTW. Please review the [Water Taking User Guide for EASR](#) for more information.
- Consultation with the railroad authorities is necessary wherever there is a plan to use construction dewatering in the vicinity of railroad lines or where the zone of influence of the construction dewatering potentially intercepts railroad lines.

**Excess Materials Management**

- In December 2019, MECP released a new regulation under the Environmental Protection Act, titled “On-Site and Excess Soil Management” (O. Reg. 406/19) to support improved management of excess construction soil. This regulation is a key step to support proper management of excess soils, ensuring valuable resources don’t go to waste and to provide clear rules on managing and reusing excess soil. New risk-based standards referenced by

this regulation help to facilitate local beneficial reuse which in turn will reduce greenhouse gas emissions from soil transportation, while ensuring strong protection of human health and the environment. The new regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit <https://www.ontario.ca/page/handling-excess-soil>.

- The report should reference that activities involving the management of excess soil should be completed in accordance with O. Reg. 406/19 and the MECP's current guidance document titled "[Management of Excess Soil – A Guide for Best Management Practices](#)" (2014).
- All waste generated during construction must be disposed of in accordance with ministry requirements

#### **Contaminated Sites**

- Any current or historical waste disposal sites should be identified in the report. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the EPA may be required for land uses on former disposal sites. We recommend referring to the [MECP's D-4 guideline](#) for land use considerations near landfills and dumps.
  - Resources available may include regional/local municipal official plans and data; provincial data on [large landfill sites](#) and [small landfill sites](#); Environmental Compliance Approval information for waste disposal sites on [Access Environment](#).
- Other known contaminated sites (local, provincial, federal) in the study area should also be identified in the report (Note – information on federal contaminated sites is found on the Government of Canada's [website](#)).
- The location of any underground storage tanks should be investigated in the report. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The ministry's Spills Action Centre must be contacted in such an event.
- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act* (EPA) and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. Please contact the appropriate MECP District Office for further consultation if contaminated sites are present.

## **Servicing, Utilities and Facilities**

- The report should identify any above or underground utilities in the study area such as transmission lines, telephone/internet, oil/gas etc. The owners should be consulted to discuss impacts to this infrastructure, including potential spills.
- The report should identify any servicing infrastructure in the study area such as wastewater, water, stormwater that may potentially be impacted by the project.
- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have an Environmental Compliance Approval (ECA) before it can operate lawfully. Please consult with MECP's Environmental Permissions Branch to determine whether a new or amended ECA will be required for any proposed infrastructure.
- We recommend referring to the ministry's [environmental land use planning guides](#) to ensure that any potential land use conflicts are considered when planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

## **Mitigation and Monitoring**

- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the report and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly.
- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- The proponent's construction and post-construction monitoring plans must be documented in the report, as outlined in Section A.2.5 and A.4.1 of the MEA Class EA parent document.

## **Consultation**

- The report must demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all stakeholder consultation efforts undertaken during the planning process. This includes a discussion in the report that identifies concerns that were raised and **describes how they have been addressed by the proponent** throughout

the planning process. The report should also include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments (as directed by the Class EA to include full documentation).

- Please include the full stakeholder distribution/consultation list in the documentation.

#### □ **Class EA Process**

- If this project is a Master Plan: there are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. **The Master Plan should clearly indicate the selected approach for conducting the plan**, by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the Environmental Assessment Act, although the plan itself would not be. **Please include a description of the approach being undertaken (use Appendix 4 as a reference).**
- If this project is a Master Plan: Any identified projects should also include information on the MCEA schedule associated with the project.
- The report should provide clear and complete documentation of the planning process in order to allow for transparency in decision-making.
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment (including planning, natural, social, cultural, economic, technical). The report should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments, cultural heritage assessments) such that all potential impacts can be identified, and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the report.
- Please include in the report a list of all subsequent permits or approvals that may be required for the implementation of the preferred alternative, including but not limited to, MECP's PTTW, EASR Registrations and ECAs, conservation authority permits, species at risk permits, MTO permits and approvals under the *Impact Assessment Act*, 2019.
- Ministry guidelines and other information related to the issues above are available at <http://www.ontario.ca/environment-and-energy/environment-and-energy>. We encourage you to review all the available guides and to reference any relevant information in the report.

### **Amendments to the EAA through the Covid-19 Economic Recovery Act, 2020**

Once the EA Report is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the proponent. The Notice of Completion must be sent to the appropriate MECP Regional Office email address (for projects in MECP Southwest Region, the email is [eanotification.swregion@ontario.ca](mailto:eanotification.swregion@ontario.ca)).

The public has the ability to request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director (of the Environmental Assessment Branch) will issue a Notice of Proposed Order to the proponent if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent. Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

Therefore, the proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion. Further, the proponent may not proceed after this time if:

- a Part II Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, Part II Order requests on those matters should be addressed in writing to:

Minister David Piccini  
Ministry of Environment, Conservation and Parks  
777 Bay Street, 5th Floor  
Toronto ON M7A 2J3  
[minister.mecp@ontario.ca](mailto:minister.mecp@ontario.ca)

and

Director, Environmental Assessment Branch  
Ministry of Environment, Conservation and Parks  
135 St. Clair Ave. W, 1st Floor  
Toronto ON, M4V 1P5  
[EABDirector@ontario.ca](mailto:EABDirector@ontario.ca)

## A PROPONENT'S INTRODUCTION TO THE DELEGATION OF PROCEDURAL ASPECTS OF CONSULTATION WITH ABORIGINAL COMMUNITIES

### DEFINITIONS

The following definitions are specific to this document and may not apply in other contexts:

**Aboriginal communities** – the First Nation or Métis communities identified by the Crown for the purpose of consultation.

**Consultation** – the Crown's legal obligation to consult when the Crown has knowledge of an established or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. This is the type of consultation required pursuant to s. 35 of the *Constitution Act, 1982*. Note that this definition does not include consultation with Aboriginal communities for other reasons, such as regulatory requirements.

**Crown** – the Ontario Crown, acting through a particular ministry or ministries.

**Procedural aspects of consultation** – those portions of consultation related to the process of consultation, such as notifying an Aboriginal community about a project, providing information about the potential impacts of a project, responding to concerns raised by an Aboriginal community and proposing changes to the project to avoid negative impacts.

**Proponent** – the person or entity that wants to undertake a project and requires an Ontario Crown decision or approval for the project.

### I. PURPOSE

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that may adversely impact that right. In outlining a framework for the duty to consult, the Supreme Court of Canada has stated that the Crown may delegate procedural aspects of consultation to third parties. This document provides general information about the Ontario Crown's approach to delegation of the procedural aspects of consultation to proponents.

This document is not intended to instruct a proponent about an individual project, and it does not constitute legal advice.

### II. WHY IS IT NECESSARY TO CONSULT WITH ABORIGINAL COMMUNITIES?

The objective of the modern law of Aboriginal and treaty rights is the *reconciliation* of Aboriginal peoples and non-Aboriginal peoples and their respective rights, claims and interests. Consultation is an important component of the reconciliation process.

The Crown has a legal duty to consult Aboriginal communities when it has knowledge of an existing or asserted Aboriginal or treaty right and contemplates conduct that might adversely impact that right. For example, the Crown's duty to consult is triggered when it considers



issuing a permit, authorization or approval for a project which has the potential to adversely impact an Aboriginal right, such as the right to hunt, fish, or trap in a particular area.

The scope of consultation required in particular circumstances ranges across a spectrum depending on both the nature of the asserted or established right and the seriousness of the potential adverse impacts on that right.

Depending on the particular circumstances, the Crown may also need to take steps to accommodate the potentially impacted Aboriginal or treaty right. For example, the Crown may be required to avoid or minimize the potential adverse impacts of the project.

### **III. THE CROWN'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS**

The Crown has the responsibility for ensuring that the duty to consult, and accommodate where appropriate, is met. However, the Crown may delegate the procedural aspects of consultation to a proponent.

There are different ways in which the Crown may delegate the procedural aspects of consultation to a proponent, including through a letter, a memorandum of understanding, legislation, regulation, policy and codes of practice.

If the Crown decides to delegate procedural aspects of consultation, the Crown will generally:

- Ensure that the delegation of procedural aspects of consultation and the responsibilities of the proponent are clearly communicated to the proponent;
- Identify which Aboriginal communities must be consulted;
- Provide contact information for the Aboriginal communities;
- Revise, as necessary, the list of Aboriginal communities to be consulted as new information becomes available and is assessed by the Crown;
- Assess the scope of consultation owed to the Aboriginal communities;
- Maintain appropriate oversight of the actions taken by the proponent in fulfilling the procedural aspects of consultation;
- Assess the adequacy of consultation that is undertaken and any accommodation that may be required;
- Provide a contact within any responsible ministry in case issues arise that require direction from the Crown; and
- Participate in the consultation process as necessary and as determined by the Crown.

#### **IV. THE PROPONENT'S ROLE AND RESPONSIBILITIES IN THE DELEGATED CONSULTATION PROCESS**

Where aspects of the consultation process have been delegated to a proponent, the Crown, in meeting its duty to consult, will rely on the proponent's consultation activities and documentation of those activities. The consultation process informs the Crown's decision of whether or not to approve a proposed project or activity.

A proponent's role and responsibilities will vary depending on a variety of factors including the extent of consultation required in the circumstance and the procedural aspects of consultation the Crown has delegated to it. Proponents are often in a better position than the Crown to discuss a project and its potential impacts with Aboriginal communities and to determine ways to avoid or minimize the adverse impacts of a project.

A proponent can raise issues or questions with the Crown at any time during the consultation process. If issues or concerns arise during the consultation that cannot be addressed by the proponent, the proponent should contact the Crown.

##### **a) What might a proponent be required to do in carrying out the procedural aspects of consultation?**

Where the Crown delegates procedural aspects of consultation, it is often the proponent's responsibility to provide notice of the proposed project to the identified Aboriginal communities. The notice should indicate that the Crown has delegated the procedural aspects of consultation to the proponent and should include the following information:

- a description of the proposed project or activity;
- mapping;
- proposed timelines;
- details regarding anticipated environmental and other impacts;
- details regarding opportunities to comment; and
- any changes to the proposed project that have been made for seasonal conditions or other factors, where relevant.

Proponents should provide enough information and time to allow Aboriginal communities to provide meaningful feedback regarding the potential impacts of the project. Depending on the nature of consultation required for a project, a proponent also may be required to:

- provide the Crown with copies of any consultation plans prepared and an opportunity to review and comment;
- ensure that any necessary follow-up discussions with Aboriginal communities take place in a timely manner, including to confirm receipt of information, share and update information and to address questions or concerns that may arise;

- as appropriate, discuss with Aboriginal communities potential mitigation measures and/or changes to the project in response to concerns raised by Aboriginal communities;
- use language that is accessible and not overly technical, and translate material into Aboriginal languages where requested or appropriate;
- bear the reasonable costs associated with the consultation process such as, but not limited to, meeting hall rental, meal costs, document translation(s), or to address technical & capacity issues;
- provide the Crown with all the details about potential impacts on established or asserted Aboriginal or treaty rights, how these concerns have been considered and addressed by the proponent and the Aboriginal communities and any steps taken to mitigate the potential impacts;
- provide the Crown with complete and accurate documentation from these meetings and communications; and
- notify the Crown immediately if an Aboriginal community not identified by the Crown approaches the proponent seeking consultation opportunities.

#### **b) What documentation and reporting does the Crown need from the proponent?**

Proponents should keep records of all communications with the Aboriginal communities involved in the consultation process and any information provided to these Aboriginal communities.

As the Crown is required to assess the adequacy of consultation, it needs documentation to satisfy itself that the proponent has fulfilled the procedural aspects of consultation delegated to it. The documentation required would typically include:

- the date of meetings, the agendas, any materials distributed, those in attendance and copies of any minutes prepared;
- the description of the proposed project that was shared at the meeting;
- any and all concerns or other feedback provided by the communities;
- any information that was shared by a community in relation to its asserted or established Aboriginal or treaty rights and any potential adverse impacts of the proposed activity, approval or disposition on such rights;
- any proposed project changes or mitigation measures that were discussed, and feedback from Aboriginal communities about the proposed changes and measures;
- any commitments made by the proponent in response to any concerns raised, and feedback from Aboriginal communities on those commitments;
- copies of correspondence to or from Aboriginal communities, and any materials distributed electronically or by mail;

- information regarding any financial assistance provided by the proponent to enable participation by Aboriginal communities in the consultation;
- periodic consultation progress reports or copies of meeting notes if requested by the Crown;
- a summary of how the delegated aspects of consultation were carried out and the results; and
- a summary of issues raised by the Aboriginal communities, how the issues were addressed and any outstanding issues.

In certain circumstances, the Crown may share and discuss the proponent's consultation record with an Aboriginal community to ensure that it is an accurate reflection of the consultation process.

**c) Will the Crown require a proponent to provide information about its commercial arrangements with Aboriginal communities?**

The Crown may require a proponent to share information about aspects of commercial arrangements between the proponent and Aboriginal communities where the arrangements:

- include elements that are directed at mitigating or otherwise addressing impacts of the project;
- include securing an Aboriginal community's support for the project; or
- may potentially affect the obligations of the Crown to the Aboriginal communities.

The proponent should make every reasonable effort to exempt the Crown from confidentiality provisions in commercial arrangements with Aboriginal communities to the extent necessary to allow this information to be shared with the Crown.

The Crown cannot guarantee that information shared with the Crown will remain confidential. Confidential commercial information should not be provided to the Crown as part of the consultation record if it is not relevant to the duty to consult or otherwise required to be submitted to the Crown as part of the regulatory process.

**V. WHAT ARE THE ROLES AND RESPONSIBILITIES OF ABORIGINAL COMMUNITIES' IN THE CONSULTATION PROCESS?**

Like the Crown, Aboriginal communities are expected to engage in consultation in good faith. This includes:

- responding to the consultation notice;
- engaging in the proposed consultation process;
- providing relevant documentation;

- clearly articulating the potential impacts of the proposed project on Aboriginal or treaty rights; and
- discussing ways to mitigate any adverse impacts.

Some Aboriginal communities have developed tools, such as consultation protocols, policies or processes that provide guidance on how they would prefer to be consulted. Although not legally binding, proponents are encouraged to respect these community processes where it is reasonable to do so. Please note that there is no obligation for a proponent to pay a fee to an Aboriginal community in order to enter into a consultation process.

To ensure that the Crown is aware of existing community consultation protocols, proponents should contact the relevant Crown ministry when presented with a consultation protocol by an Aboriginal community or anyone purporting to be a representative of an Aboriginal community.

## **VI. WHAT IF MORE THAN ONE PROVINCIAL CROWN MINISTRY IS INVOLVED IN APPROVING A PROPONENT'S PROJECT?**

Depending on the project and the required permits or approvals, one or more ministries may delegate procedural aspects of the Crown's duty to consult to the proponent. The proponent may contact individual ministries for guidance related to the delegation of procedural aspects of consultation for ministry-specific permits/approvals required for the project in question. Proponents are encouraged to seek input from all involved Crown ministries sooner rather than later.

## Lisa Courtney

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**From:** Becky Adams <badams@bmross.net>  
**Sent:** May 10, 2022 4:02 PM  
**To:** Adam Weishar  
**Cc:** Lisa Courtney  
**Subject:** RE: Township of Huron-Kinloss Growth, Water and Wastewater Servicing Master Plan

Hi Adam,

Thank you for your comments.

**Becky Adams, EPt**  
**B. M. Ross and Associates Limited**  
**Engineers and Planners**  
62 North Street  
Goderich, ON N7A 2T4

**Ph: (519) 524-2641**  
**Cell: (519) 441-7633**

[badams@bmross.net](mailto:badams@bmross.net)  
[www.bmross.net](http://www.bmross.net)

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**From:** Adam Weishar <aweishar@kincardine.ca>  
**Sent:** May 10, 2022 1:48 PM  
**To:** Becky Adams <badams@bmross.net>  
**Subject:** RE: Township of Huron-Kinloss Growth, Water and Wastewater Servicing Master Plan

Hi Becky,

Any interest from our end will directly correlate to the connection between our systems. I am not aware of anything else that we would have interest in from the servicing lens.

Adam Weishar, C.E.T.  
Director of Infrastructure and Development  
Municipality of Kincardine  
1475 Concession 5  
Kincardine, ON N2Z 2X6  
Phone 519-396-3468 ext 7119  
Fax: 519-396-1430



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**From:** Olivia Kempel <[okempel@kincardine.ca](mailto:okempel@kincardine.ca)>  
**Sent:** May 10, 2022 1:26 PM  
**To:** Becky Adams <[badams@bmross.net](mailto:badams@bmross.net)>  
**Cc:** Adam Weishar <[aweishar@kincardine.ca](mailto:aweishar@kincardine.ca)>; Roxana Baumann <[rbaumann@kincardine.ca](mailto:rbaumann@kincardine.ca)>  
**Subject:** RE: Township of Huron-Kinloss Growth, Water and Wastewater Servicing Master Plan

Good Afternoon Becky,

Thank you for your email. I have cc'd Roxana Baumann, Acting CAO and Adam Weishar, Director of Infrastructure and Development to this email.

Should they have any questions or comments regarding the project, they will be in touch with Lisa.

Thank you,

**Olivia Kempel**  
CAO Executive Assistant  
519-396-3018



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**From:** Becky Adams <[badams@bmross.net](mailto:badams@bmross.net)>  
**Sent:** May-10-22 11:25 AM  
**To:** Olivia Kempel <[okempel@kincardine.ca](mailto:okempel@kincardine.ca)>  
**Subject:** Township of Huron-Kinloss Growth, Water and Wastewater Servicing Master Plan

To Ms. Kempel,

The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and water and wastewater servicing needs in the communities of Ripley, Lucknow, and the Lakeshore areas.

Please review the attached documents which include project details.

If you have any questions or comments, please contact Lisa Courtney, Environmental Planner at [lcourtney@bmross.net](mailto:lcourtney@bmross.net).

Kind regards,

**Becky Adams, EPt**  
**B. M. Ross and Associates Limited**  
**Engineers and Planners**  
62 North Street  
Goderich, ON N7A 2T4

Ph: (519) 524-2641  
Cell: (519) 441-7633

[badams@bmross.net](mailto:badams@bmross.net)

<https://link.edgepilot.com/s/09bf435c/7QF8oeaYhESPnvqfmjwZmQ?u=http://www.bmross.net/>



**Lisa Courtney**

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**Sent:**  
**To:**  
**Cc:**  
**Subject:**

Hi Lisa,

Thanks for passing along the notice of an upcoming Master Plan review for water and wastewater servicing for the Township of Huron-Kinloss. As you are aware, the new Regulatory requirements under the Safe Drinking Water Act applies to municipal residential drinking water system owners within source protection areas and works with a regulation under the Clean Water Act (Reg. 287/07) to identify when and how system owners must ensure that new or changing drinking water systems are protected by their local source protection plan.

These Regulations apply to changes to municipal drinking water systems, including: new wells or intakes, deepening of existing wells, or increased capacity of an existing well (greater than current PTTW or maximum modelled flows).

If any of these situations are considered as part of the Master Plan review, it would be good to receive early notification so that staff can begin the process of making necessary amendments to the local Source Protection Plan. In the case of Huron-Kinloss, this includes the Saugeen, Grey Sauble, Northern Bruce Peninsula Region for Ripley and the Lakeshore systems, and Maitland Valley, Ausable Bayfield CA or the Lucknow system.

Please let me know if you have any questions or concerns regarding this process.

Regards,  
Carl Seider  
Saugeen, Grey Sauble, Northern Bruce Peninsula SPR

---

**From:** Becky Adams <badams@bmross.net>  
**Sent:** Tuesday, May 10, 2022 11:34 AM  
**To:** Carl Seider <c.seider@greysauble.on.ca>  
**Subject:** Township of Huron-Kinloss Growth, Water and Wastewater Servicing Master Plan

To Mr. Seider,

The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and water and wastewater servicing needs in the communities of Ripley, Lucknow, and the Lakeshore areas.

Please review the attached documents which include project details.

If you have any questions or comments, please contact Lisa Courtney, Environmental Planner at [lcourtney@bmross.net](mailto:lcourtney@bmross.net).

Kind regards,

**Becky Adams, EPt**  
**B. M. Ross and Associates Limited**  
**Engineers and Planners**  
62 North Street  
Goderich, ON N7A 2T4

**Ph: (519) 524-2641**  
**Cell: (519) 441-7633**

[badams@bmross.net](mailto:badams@bmross.net)

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## **Lisa Courtney**

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**From:** Coordinator LRC HSM <hsmlrcc@bmts.com>  
**Sent:** June 20, 2022 1:14 PM  
**To:** Lisa Courtney  
**Subject:** Request for Comments - Huron-Kinloss - Growth, Water and Wastewater Servicing Master Plan project

Your File: 18265

Our File: Huron-Kinloss Municipality (Projects)

Ms. Courtney,

The Historic Saugeen Métis (HSM) Lands, Resources and Consultation Department has no comment at this time regarding the Growth, Water and Wastewater Servicing Master Plan project and would appreciate further updates as the project advances.

Thank you for the opportunity to review this matter.

Regards,

Chris Hachey

Coordinator, Lands, Resources & Consultation  
Historic Saugeen Métis  
email: [hsmlrcc@bmts.com](mailto:hsmlrcc@bmts.com)  
phone: 519-483-4000  
site: [saugeenmetis.com](http://saugeenmetis.com)  
address: 204 High Street Southampton, ON

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# BLUEPRINT FOR THE FUTURE

*Water & Wastewater Servicing Master Plan*

## NOTICE OF OPEN HOUSE

**THE PROJECT:** The Township of Huron-Kinloss is undertaking a Master Plan examining future growth and associated water and wastewater servicing needs in the communities of Ripley, Lucknow, and the Lakeshore areas. This Master Plan will examine forecasted future residential and non-residential growth in the next 25-years and identify water and wastewater infrastructure required to support this future growth. Options for water and wastewater services will be considered based on potential impacts, required upgrades, timing and costs. Upon completion, the Master Plan will be a broad-level study that will serve as a plan for the future, recommending projects, any potential new servicing areas, and providing a timeline for implementation of the identified upgrades, expansions or modifications to the servicing in Ripley, Lucknow and the Lakeshore areas.

**THE MASTER PLAN PROCESS:** This Master Plan is being conducted in accordance with the requirements of the Municipal Class Environmental Assessment (MCEA), following Approach 1 for Master Plans. The process includes consultation with the general public, community stakeholder groups, government review agencies, First Nation and Métis communities.

**PUBLIC INVOLVEMENT:** Public consultation is a key component of this study. A presentation about this study will be available for viewing on November 14, 2022 at [www.huronkinloss.com/water-wastewater-servicing-master-plan](http://www.huronkinloss.com/water-wastewater-servicing-master-plan). An Open House will also be held to give residents an opportunity to view information about the project and meet with the study team. The Open House will be held:

**Wednesday, November 16, 2022 6 PM – 8 PM**

**Social Room, Ripley-Huron Arena (17 Queen St. Ripley)**

The public may also submit comments and questions to the contact listed below or through the 'Have Your Say' platform here: [www.haveyoursayhk.ca/water-and-waste-water-servicing-master-plan](http://www.haveyoursayhk.ca/water-and-waste-water-servicing-master-plan). Any comments collected will be maintained on file for use during the project and may be included in project documentation. With the exception of personal information, all comments will become part of the public record.

For further information on this project, please contact the consulting engineers: B. M. Ross and Associates, 62 North Street, Goderich Ontario, N7A 2T4. Telephone (519) 524-2641. Fax (519) 524-4403. Attention: Lisa Courtney, Environmental Planner. E-mail: [lcourtney@bmross.net](mailto:lcourtney@bmross.net)

**Mary Rose Walden**

**Chief Administrative Officer, Township of Huron-Kinloss**

**This Notice issued November 2, 2022**



# BLUEPRINT FOR THE FUTURE

*Water & Wastewater Servicing Master Plan*



**BMROSS**  
engineering better communities

## GROWTH, WATER & WASTEWATER SERVICING MASTER PLAN

# WELCOME

PUBLIC OPEN HOUSE

NOVEMBER 16, 2022

6 PM – 8 PM

Please sign in and take a comment sheet

# Master Plans

## Purpose and Intent of Master Plan

- ▶ The Master Plan will identify future growth scenarios, where that growth may occur, and water and wastewater infrastructure needs associated with that growth.
- ▶ Phase 1 Background Report set the stage, has a significant amount of the necessary background information.
- ▶ Incorporate vision for future growth with servicing needs.
- ▶ Master Plan will identify growth scenarios and servicing strategies to allow the Township to plan and budget for future infrastructure projects to support growth and respond to development inquiries.
- ▶ Examining current settlement areas: Lucknow, Ripley and Lakeshore areas.

## Steps in the Master Plan Process

Collect and analyze background information (Phase 1 Background Report).

Consultation with public, agencies and First Nation and Métis communities.

Examine growth scenarios and development proposals.

Calculate reserve capacity for water treatment, water storage, and wastewater treatment.

Compare reserve capacity to forecasted growth, identify where growth expected to occur, identify infrastructure needs and options for expansions.

Identify timing of infrastructure projects and any additional study requirements (and potential costs, if possible).

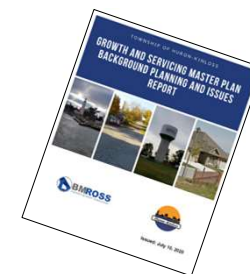
## Settlement Areas

- ▶ The Master Plan focuses on the 3 settlement areas in Huron-Kinloss: Lucknow, Ripley and Lakeshore.



- ▶ Background Planning and Issues Report

- ▶ Contains the background information for the Master Plan.





# Growth Forecasting

Low, medium and high growth forecasts examined as part of the Master Plan.

25-year forecast period (to 2047)	Low forecast based on 10-year annual average of residential building permits	Medium forecast based on NWMO base forecast by metroeconomics	High forecast based on Bruce County Growth Management forecasts
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Forecasted population and ERUs (Equivalent Residential Units) for Lucknow, Ripley and the Lakeshore Area.

- ▶ ERU Equivalent Residential Unit. ERUs are based on the average number of people per housing type:



1 Single Detached House 1 ERU



1 multi/row house 0.62 ERU

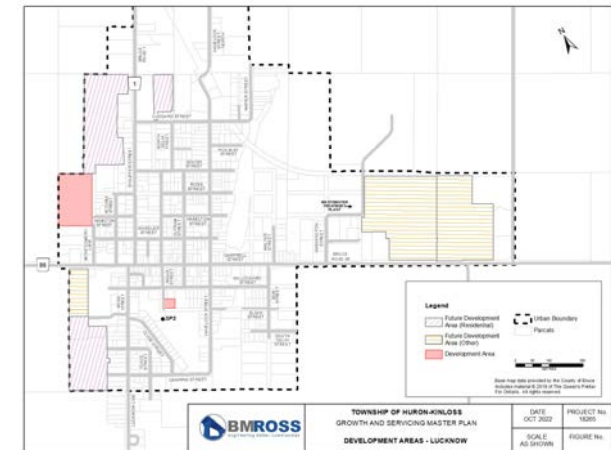
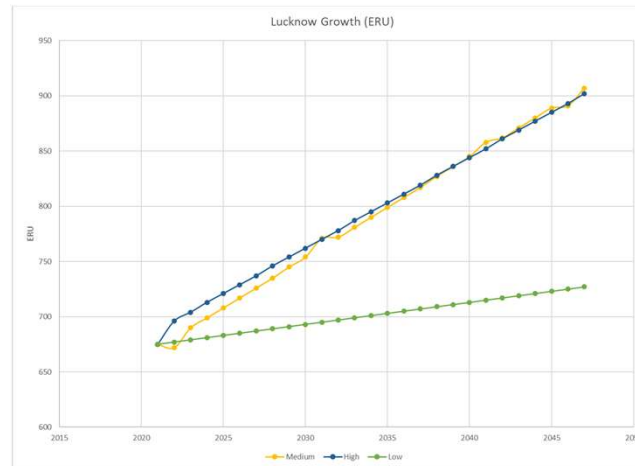


1 Apartment 0.54 ERU

# Lucknow Growth Forecast

3

Lucknow	Low	Medium	High
2022-2027	10	54	41
2022-2032	20	100	82
2022-2042	40	190	165
2022-2047	50	235	206

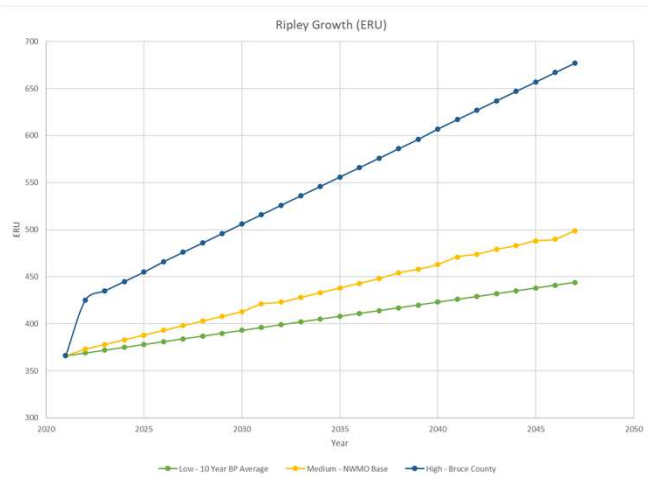


- ▶ **Max ERUs forecasted = 235 units**
- ▶ Proposed/Unbuilt units = 91
- ▶ Infill lots = 42
- ▶ Vacant Residential and Future Development lands = 50.56 ha = 758 ERU (at 15 units/ha)
- ▶ Appears to be sufficient space within current settlement area for forecasted growth. Not expected to need a settlement area expansion over the next 25-years.

# Ripley Growth Forecast

## Additional Forecasted Units (ERU)

Ripley	Low	Medium	High
2022-2027	15	25	51
2022-2032	30	50	101
2022-2042	60	101	202
2022-2047	75	126	252



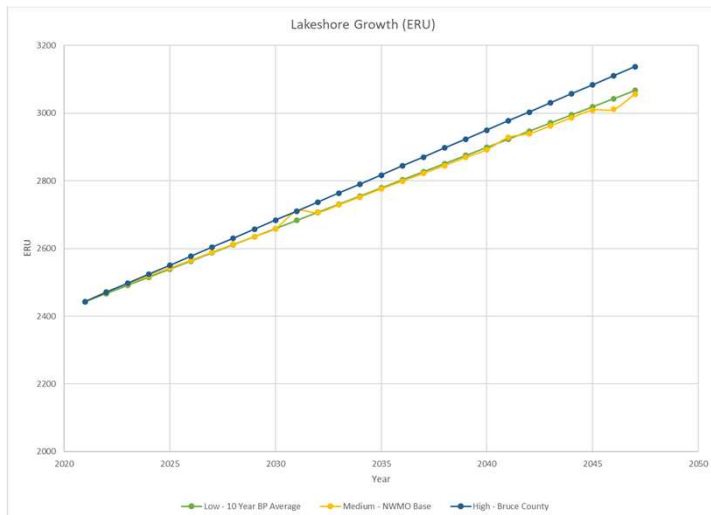
- ▶ **Max ERUs forecasted = 252 units**
- ▶ Proposed/Unbuilt units = 310
- ▶ Infill lots = 18
- ▶ Vacant Residential and Future Development lands = 11 ha = 165 ERU (at 15 units/ha)
- ▶ Appears to be sufficient space within the current settlement area for forecasted growth over the next 25 years.



# Lakeshore Area Growth Forecast

## Additional Units Forecasted (ERU)

Lakeshore	Low	Medium	High
2022-2027	117	120	133
2022-2032	234	240	266
2022-2042	467	480	532
2022-2047	584	600	666

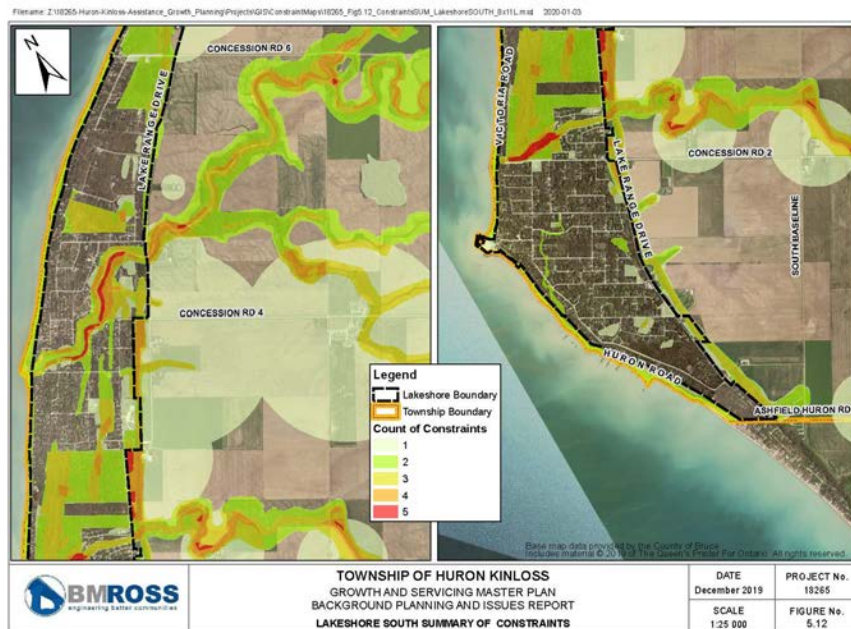
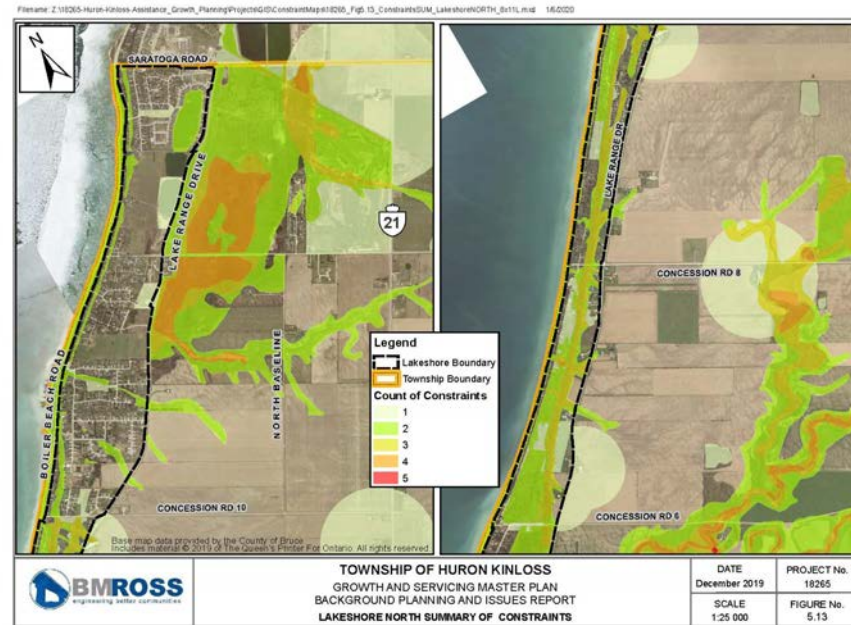


- ▶ **Max ERUs forecasted = 666**
- ▶ Proposed/Unbuilt units = 144
- ▶ Infill lots = 195
- ▶ Vacant Residential lands = 42 ha = 210 ERU (at 5 units/ha)
- ▶ Appears to be a deficit of land for 25-year forecasted growth. Based on the high growth forecast - additional space will be needed for 117 ERUs or 24 ha (60 acres).



# Lakeshore Area Settlement Expansion

- ▶ Timing of when additional settlement lands in the Lakeshore Area will be needed will depend on how fast development progresses.
- ▶ Prior to the expansion, a Settlement Capacity Study will be required and amendments to the Bruce County and Huron Kinloss Official Plans.
- ▶ Phase 1 Background Report examined potential expansion areas based on:
  - ▶ Planning policies (e.g. adjacent to existing settlement areas)
  - ▶ Presence of development constraints (e.g. hazard lands, Minimum Distance Separation, environmental features significant woodlands, wetlands)
  - ▶ Presence of existing infrastructure
  - ▶ Identified constraints and layered them to identify areas where expansion is not likely feasible
- ▶ Identified potential area for expansion north of Concession 10 on east side of Lake Range.



# Water & Wastewater Reserve Capacity

- ▶ Reserve capacity is how much treatment capacity is available for future development.
- ▶ Total reserve capacity = Rated capacity – current usage
- ▶ Uncommitted reserve capacity = Rated capacity – current usage – committed capacity (i.e. allocated to developments)
- ▶ Uncommitted reserve capacity is not allocated (i.e. it is available for additional development)

System	Location	Rated Capacity (m <sup>3</sup> /d)	Current Usage (m <sup>3</sup> /d)	Total Reserve (m <sup>3</sup> /d)	Committed Reserve (m <sup>3</sup> /d)	Uncommitted Total Reserve (m <sup>3</sup> /d) (ERU)
Water Supply	Lucknow	2,000	1,210 (60%)	790	236	554
	Ripley	2,880	1,147 (40%)	1,733	1,037	696
	Lakeshore North <sup>1</sup>	5,741	2,656 (46%)	3,085	489	2,596
Wastewater	Lakeshore South <sup>1</sup>	5,893	3,375 (57%)	2,518	386	2,132
	Lucknow	750	559 (75%)	191	109	82
	Ripley	600	368 (61%)	232	331	-99

Notes: 1. The Lakeshore Water System is split into two pressure zones at Concession 6.

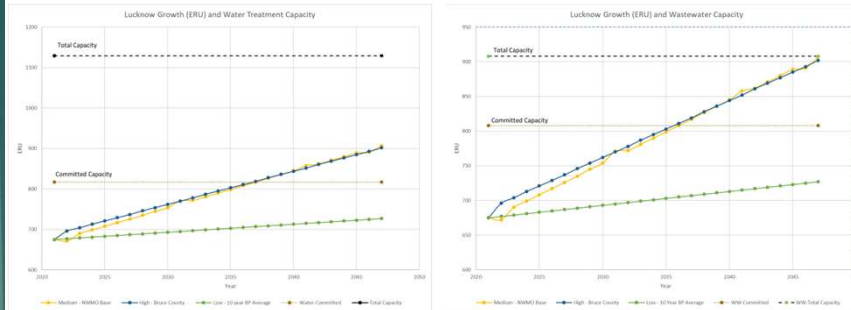
# Water Storage Capacity

Water Storage Location	Total Current Storage (m <sup>3</sup> )	Required Storage Existing (m <sup>3</sup> )	Required Storage Existing + Commitments (m <sup>3</sup> )
Lucknow	1,600 <sup>1</sup>	1,168	1,338
Ripley	1,465	912	1,477
Lakeshore	1,500 <sup>2</sup>	4,067	4,419

Notes 1. Based on new elevated tank  
2. Effective storage is less

From examination of water storage capacity, additional water storage is recommended for the Lakeshore water system.

## Lucknow Water & Wastewater



Water

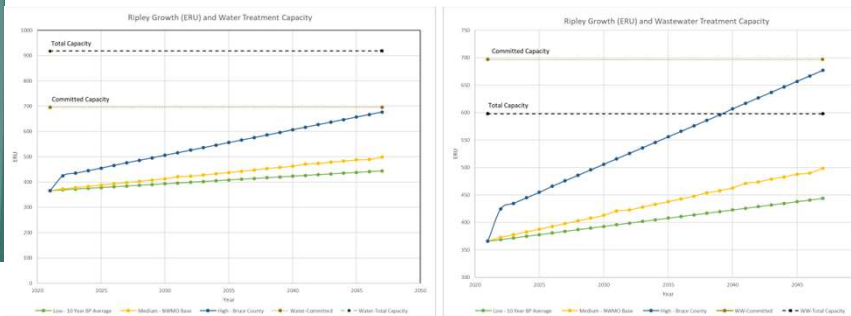
Have sufficient capacity for forecasted growth over the next 25 years. With new elevated storage facility, will have sufficient storage.



Wastewater

Forecasted to approach capacity under high growth scenario around 2045. Continue to monitor capacity as development occurs. An expanded plant, when required, will incorporate different treatment methods (e.g. mechanical works) to achieve modern treatment requirements at higher flows.

## Ripley Water & Wastewater



Water

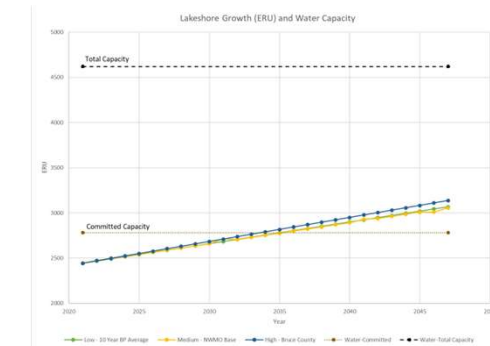
Current rated water capacity is sufficient to meet forecasted demands. Have sufficient water storage



Wastewater

Wastewater treatment capacity is theoretically over-committed. Recommendations: Implementing an allocation policy (use it or lose it, or want it – pay for it). Monitoring reserve capacity on 5-year basis. Under high growth scenario, WWTP expansion may be needed by 2038. Continue to monitor development and plan to start an EA in approximately 2032 if additional capacity required. An expanded plant, when required, will incorporate different treatment methods (e.g. mechanical works) to achieve modern treatment requirements at higher flows.

## Lakeshore Area Water



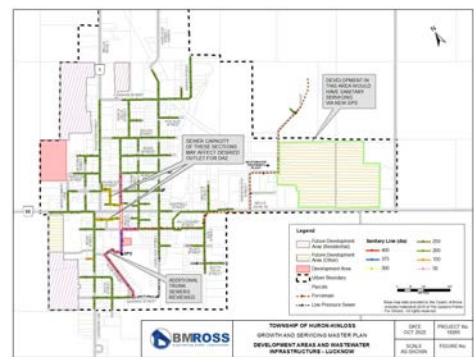
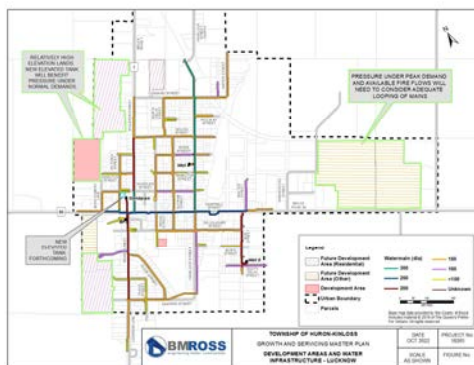
Water

Sufficient supply capacity for forecasted growth. Additional water storage recommended. Suggested siting criteria: Locating in the northern Lakeshore Area (i.e. north of Concession 6). Ideally site near existing large water mains, at a higher elevation location.

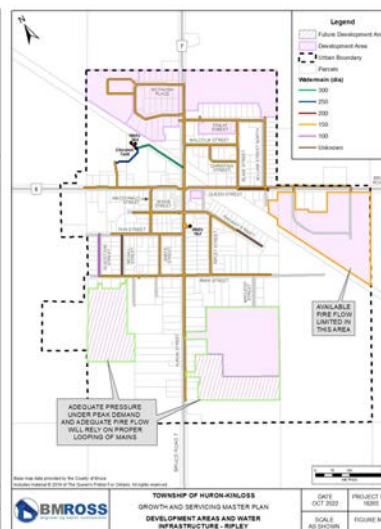
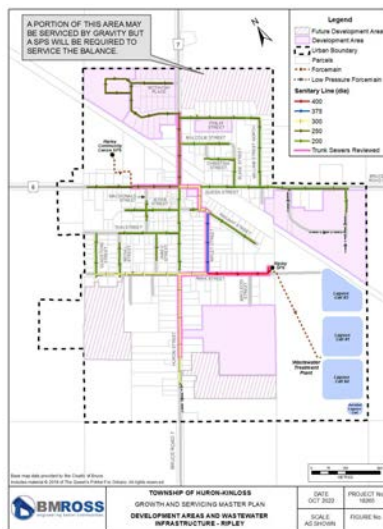


# Water Distribution and Wastewater Collection Systems

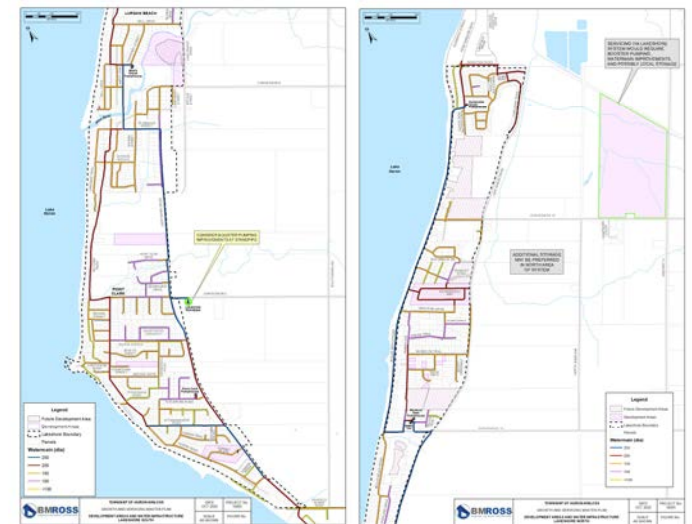
## Lucknow



## Ripley



## Lakeshore Area



# Lakeshore Wastewater Servicing

- ▶ **Current servicing:**
  - ▶ Inverlyn Lake/Huronville and a section of Boiler Beach are connected to municipal sewage services (from Kincardine).
  - ▶ Remainder of the Lakeshore is serviced by on site, private servicing i.e. septic systems.
- ▶ Under Provincial Policy Statement (PPS), where municipal services are not available, planned or feasible, private communal sewage services are preferred.
- ▶ Partial services only permitted to: address failed on site sewage services and in settlement areas for infilling and minor rounding out, providing site conditions are suitable and no long term negative impacts.
- ▶ Given that forecasting shows additional settlement lands will be required over the next 25 years, a strategy for wastewater servicing is needed.

## Lakeshore Area Servicing Alternatives

1. Status Quo (Private Services)/Do Nothing	2. Service from Kincardine	3. New Sewage System	4. Private Services and Communal Service
<ul style="list-style-type: none"> <li>• Infilling in existing settlement area on septic systems.</li> <li>• Continued septic inspection program to address concerns around long-term impacts.</li> <li>• Unlikely expanded settlement area would be permitted on septic systems.</li> </ul>	<ul style="list-style-type: none"> <li>• Extend municipal services from Kincardine.</li> <li>• Kincardine does not likely want to service entire Lakeshore area.</li> <li>• Potential to service expanded settlement area, however unlikely as Kincardine has its own capacity demands/ needs.</li> <li>• Not considered feasible.</li> </ul>	<ul style="list-style-type: none"> <li>• Construct a municipal sewage treatment and collection system to service all or part of the Lakeshore.</li> <li>• Not considered feasible to service entire Lakeshore area – very high cost of collection system, siting of treatment facility.</li> </ul>	<ul style="list-style-type: none"> <li>• Existing Lakeshore Area would remain on private septic systems. Expanded settlement area would be serviced by a communal/ decentralized sewage system.</li> </ul>

## Lakeshore Area Servicing Strategy

- ▶ Continued infill on septic systems within the existing settlement area.
- ▶ Maintain the septic inspection program to demonstrate active management of systems and absence of long term impacts and issues.
- ▶ Any future expanded settlement area expected to require decentralized/communal wastewater treatment system.
  - ▶ Type, size and location of system will be dependent on proposed development.
  - ▶ Will need to give consideration to technologies, planning (structure and scale of the system) and how system(s) will be managed ownership, financing, operations and maintenance.
  - ▶ Expect that a system will likely require consultation with Ministry of Environment, Conservation and Parks, and a Schedule C Municipal Class Environmental Assessment prior to installation.

## Identified Projects

### Immediate Needs

Develop and implement allocation policy for water/wastewater.

In Ripley update/monitor wastewater reserve capacity calculations on 5 year basis.

### Near-term (5-10 years)

Additional storage in Lakeshore.

- Schedule B Municipal Class EA for new storage site.

Replace Well 5 in Lucknow.

### Long-term (10-25 years)

Prepare Settlement Capacity Study for Lakeshore Area expansion.

Potential expansion of Ripley WWTP (2039), Lucknow WWTP (2045). Timing of need to start EA studies will be dependent on development.

## Next Steps in the Process

Incorporate input and feedback received during Open House

Prepare Master Plan report.

Present draft Master Plan report to Council

Finalize Report and Issue Notice of Completion

30 day public review period.

## Questions or comments?

Please submit them to Lisa Courtney (by November 30):  
[lcourtney@bmross.net](mailto:lcourtney@bmross.net) or call  
 519-524-2641.

Thank you for attending.

# Growth, Water & Wastewater Servicing Master Plan

PUBLIC OPEN HOUSE  
NOVEMBER 16, 2022



**BLUEPRINT**  
FOR THE FUTURE  
*Water & Wastewater Servicing Master Plan*



**BMROSS**  
engineering better communities

1

## Agenda

- ▶ Overview of Master Plans
- ▶ Growth Forecasts and Settlement Areas
- ▶ Reserve Water and Wastewater Capacity Analysis
- ▶ Analysis of Capacity and Forecasted Growth
- ▶ Water Storage Capacity
- ▶ Lucknow and Ripley Water Distribution and Wastewater Collection Analysis
- ▶ Lakeshore Area Wastewater Servicing Options
- ▶ Identified Future Projects
- ▶ Next Steps

2

## What are Master Plans?

- ▶ Master Plans are long range plans that can look at integrated infrastructure systems (like water and wastewater systems) over large geographic areas.
- ▶ Can be customised to suit needs – they can be broad in scope and general in details, or can examine strategies or alternatives in detail.
- ▶ Strategies identified in Master Plan can be incorporated into future Official Plan and Zoning By law updates.
- ▶ Can be a living document – update and review on a regular basis.
- ▶ Growth and Servicing Master Plans look at growth scenarios and identify and evaluate water and wastewater servicing options to support that growth.
  - ▶ Identify future infrastructure projects, timing, potential costs.
  - ▶ Think of a Master Plan as a roadmap or gameplan for the future.

3

## Purpose and Intent of Master Plan

- ▶ The Master Plan will identify future growth scenarios, where that growth may occur, and water and wastewater infrastructure needs associated with that growth.
- ▶ Phase 1 Background Report set the stage, has a significant amount of the necessary background information.
- ▶ Incorporate vision for future growth with servicing needs.
- ▶ Master Plan will identify growth scenarios and servicing strategies to allow the Township to plan and budget for future infrastructure projects to support growth and respond to development inquiries.
- ▶ Examining current settlement areas: Lucknow, Ripley and Lakeshore areas.

4



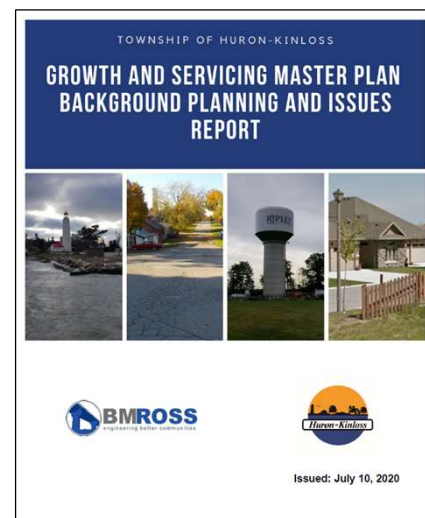
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- ▶ Consultation with public, agencies and First Nation and Métis communities.
- ▶ Examine growth scenarios and development proposals.
- ▶ Calculate reserve capacity for water treatment, water storage, and wastewater treatment.
- ▶ Compare reserve capacity to forecasted growth, identify where growth expected to occur, identify infrastructure needs and options for expansions.
- ▶ Identify timing of infrastructure projects and any additional study requirements (and potential costs, if possible).

## Steps in the Master Plan Process

5

## Background Planning and Issues Report

- ▶ First step in proactively planning for future growth, in a manner that is well informed by existing conditions, opportunities and constraints.
- ▶ Report serves as a resource for future planning efforts and will assist in directing future studies and engineering reviews.
- ▶ Examined:
  - ▶ Current land uses, vacant lands, and historical settlement patterns;
  - ▶ Occupancy (in terms of seasonal and permanent occupancy);
  - ▶ Reserve capacity analyses for water and wastewater;
  - ▶ Community form and function; and
  - ▶ Development constraint analysis.

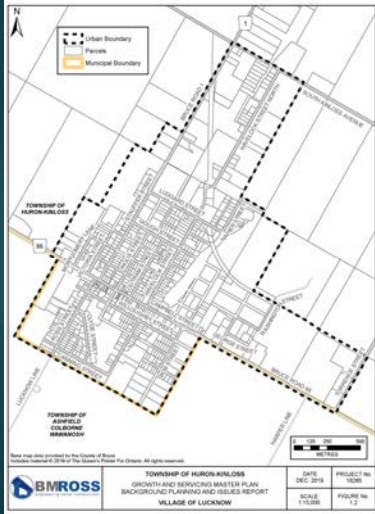


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# Settlement Areas

Primary Settlement Areas: Lucknow, Ripley




Secondary Settlement Area: Lakeshore Area



7

## Growth Forecasts

ERU is based on the average number of people per housing type:

-  1 Single Detached House 1 ERU
-  1 multi/row house 0.62 ERU
-  1 Apartment 0.54 ERU

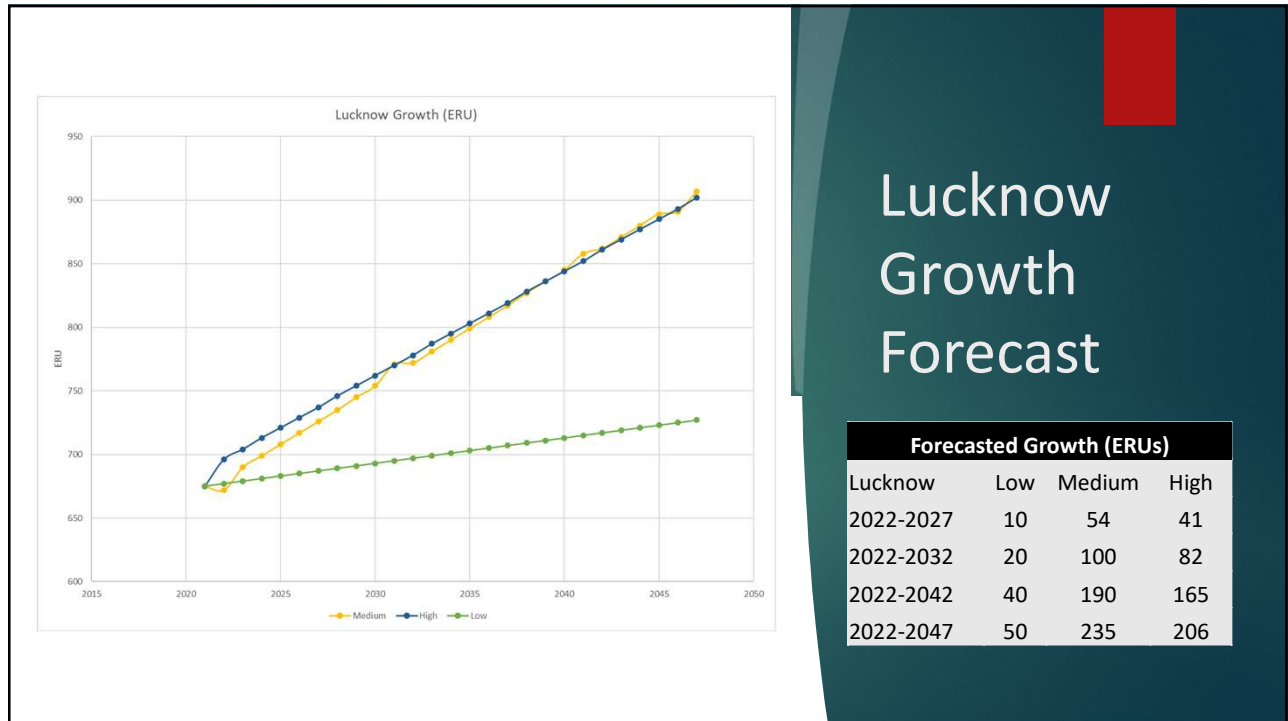
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25-year forecast period (to 2047)	Low forecast based on 10-year annual average of residential building permits	Medium forecast based on NWMO base forecast by metroeconomics	High forecast based on Bruce County Growth Management forecasts
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Forecasted population and ERUs (Equivalent Residential Units) for Lucknow, Ripley and the Lakeshore Area.

8



9

## Forecasted Growth - Lucknow

- ▶ **Max ERUs forecasted = 235 units**
- ▶ Proposed/Unbuilt units = 91
- ▶ Infill lots = 42
- ▶ FD/R1-h lands = 50.56 ha = 758 ERU (at 15 units/ha)
- ▶ Appears to be sufficient space within current settlement area for forecasted growth. Not expected to need a settlement area expansion over the next 25-years.

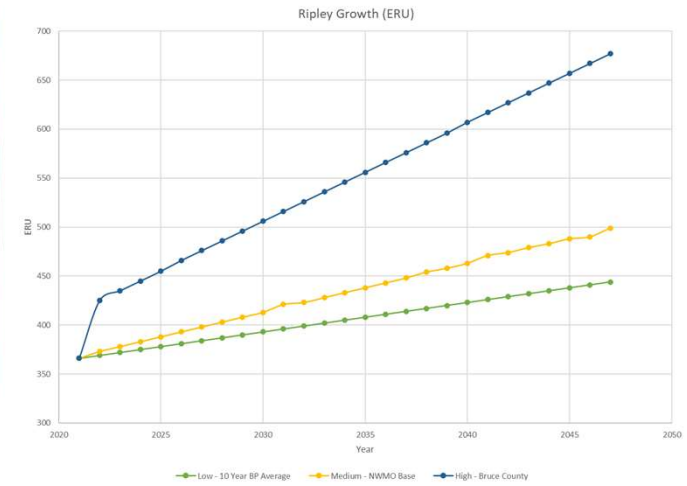
**TOWNSHIP OF HURON-KINLOSS  
GROWTH AND SERVICING MASTER PLAN  
DEVELOPMENT AREAS - LUCKNOW**

DATE: OCT 2022  
SCALE: AS SHOWN  
PROJECT No: 18265  
FIGURE No:

10

# Ripley Growth Forecast

Forecasted Growth (ERUs)			
Ripley	Low	Medium	High
2022-2027	15	25	51
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11

# Growth - Ripley

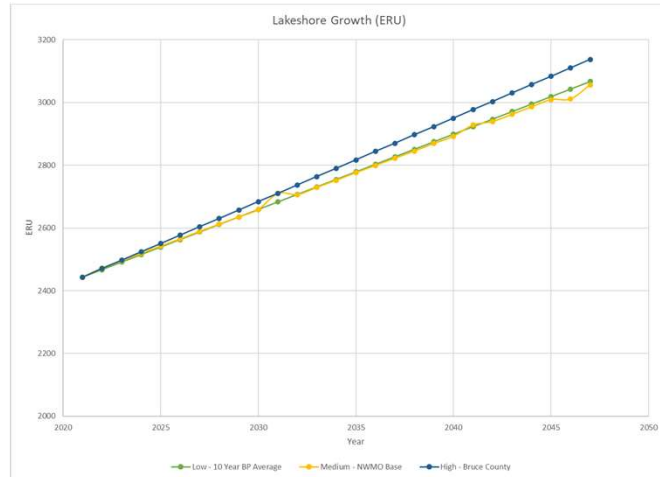
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12

# Lakeshore Area Growth Forecast

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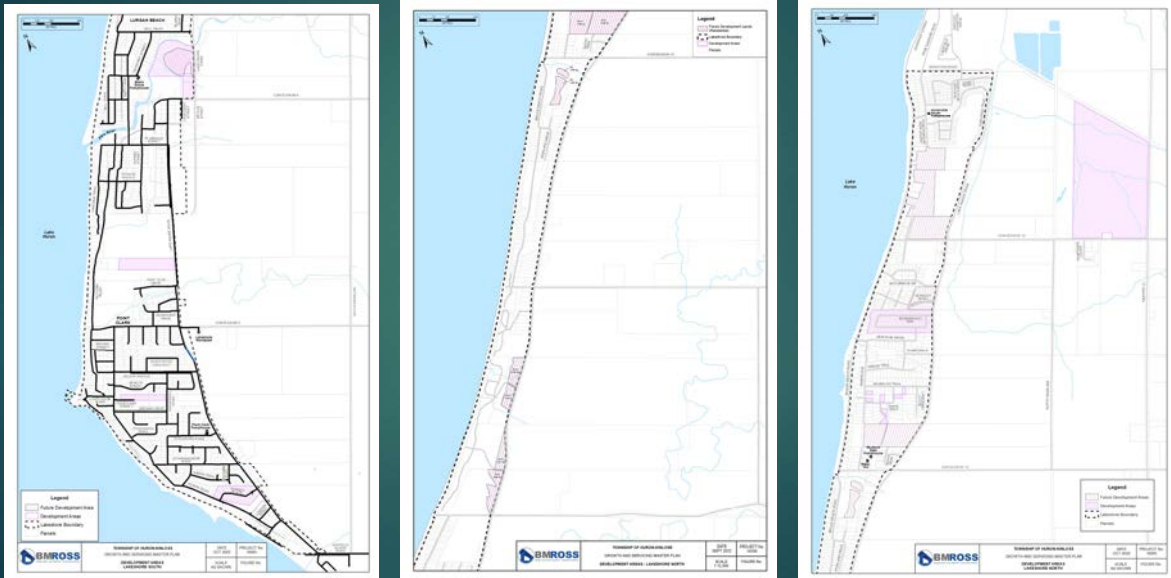
13

## Growth – Lakeshore Area

- ▶ Max ERUs forecasted 666
- ▶ Proposed/Unbuilt units 144
- ▶ Infill lots 195
- ▶ R1/R1 h lands 42 ha 210 ERU (at 5 units/ha)
- ▶ Appears to be a deficit of land for 25 year forecasted growth. Based on high growth forecast additional space will be needed for 117 ERUs or 24 ha (60 acres).

14

## Lakeshore Area Development Maps



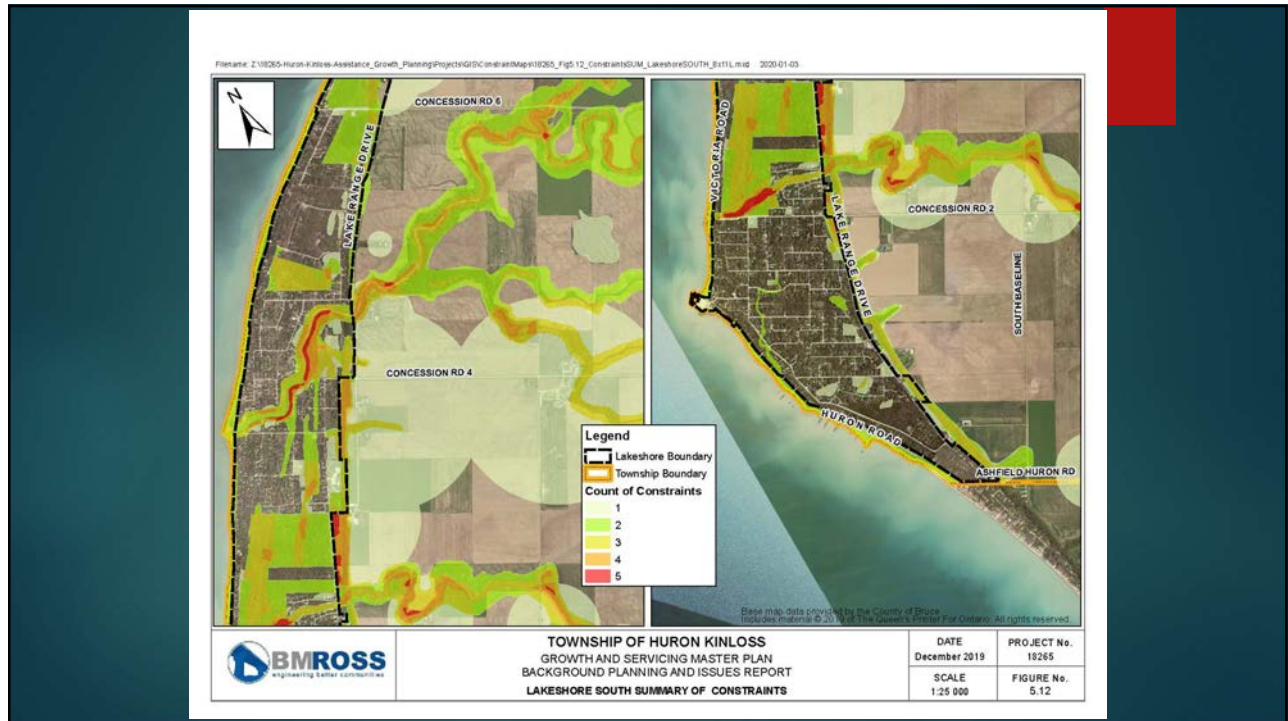
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## Lakeshore Area Settlement Expansion

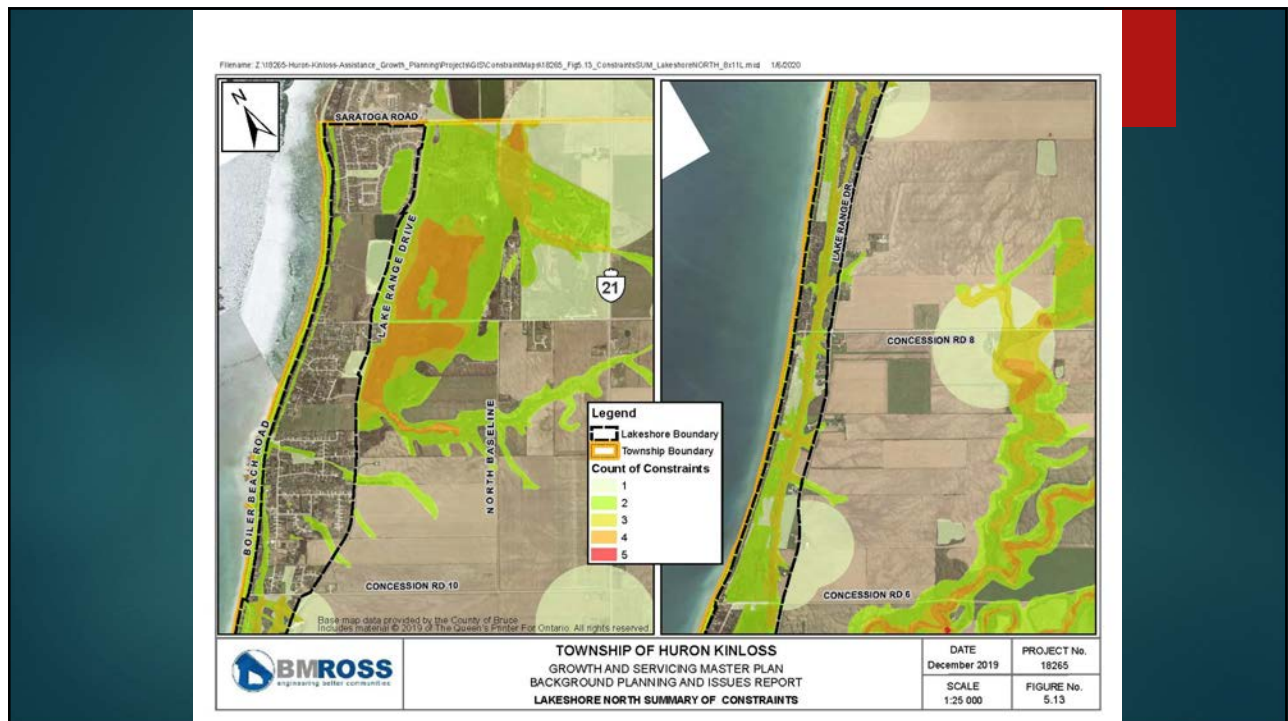
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- ▶ Identified potential area in north of Concession 10 on east side of Lake Range.

16





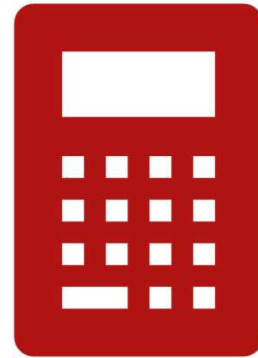
17



18

## Water and Wastewater Reserve Capacity

- ▶ Reserve capacity is how much treatment capacity is available for future development.
- ▶ Reserve capacity = Rated capacity - current usage
- ▶ Reserve capacity includes:
  - ▶ Committed capacity = capacity allocated to proposed developments
  - ▶ Uncommitted capacity = capacity not allocated (available for the future)



19

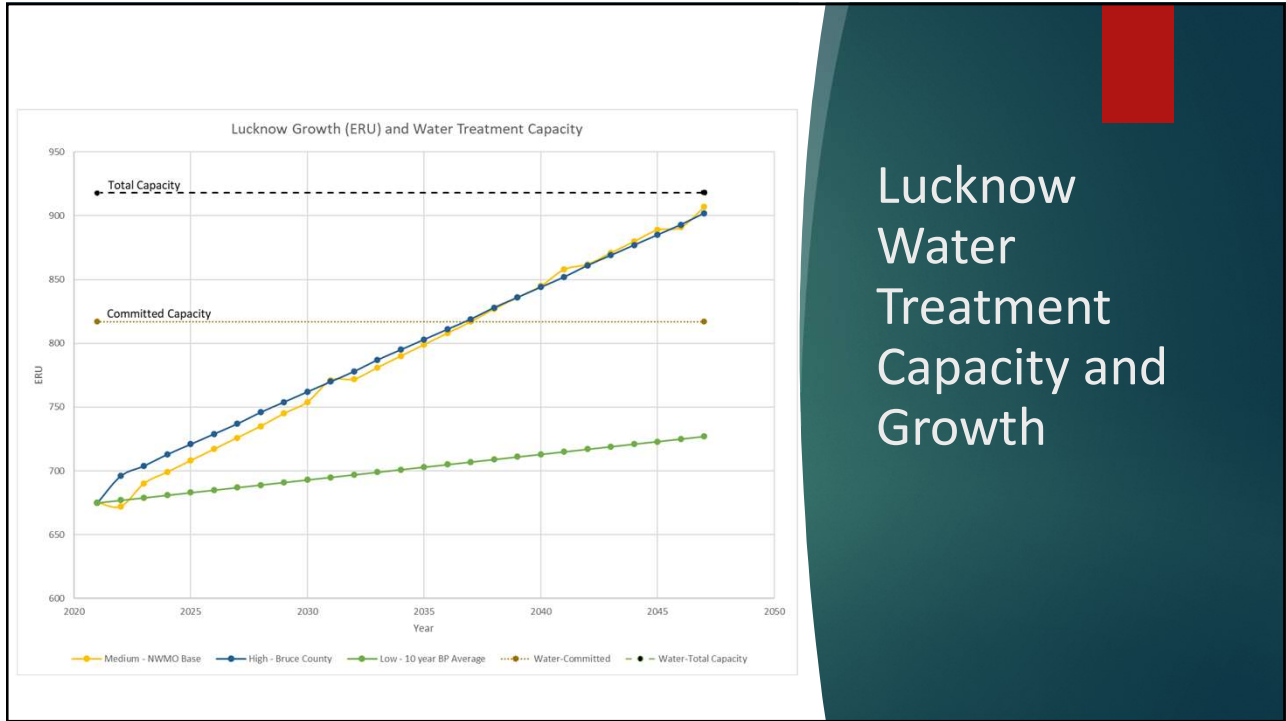
## Treatment Reserve Capacity

System	Location	Rated Capacity (m <sup>3</sup> /d)	Current Usage (m <sup>3</sup> /d)	Total Reserve (m <sup>3</sup> /d)	Committed Reserve (m <sup>3</sup> /d)	Uncommitted Total Reserve (m <sup>3</sup> /d) (ERU)
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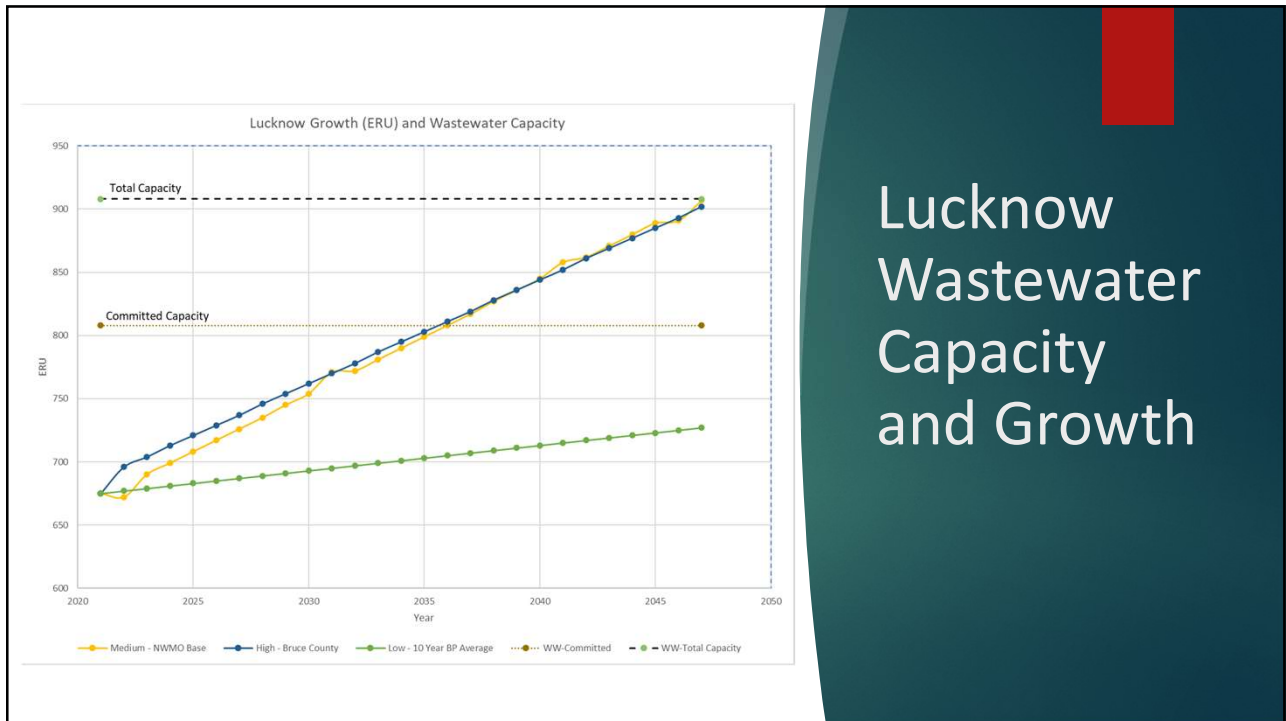
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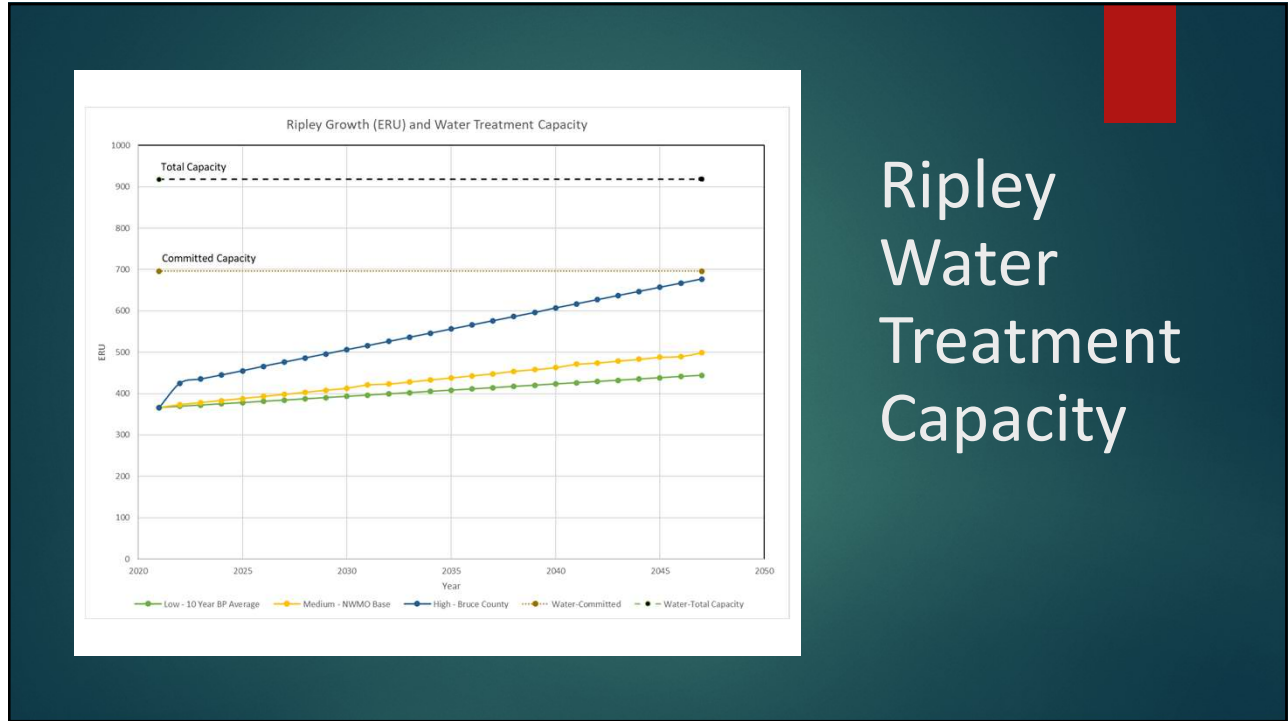
# Lucknow Water Treatment Capacity and Growth

21



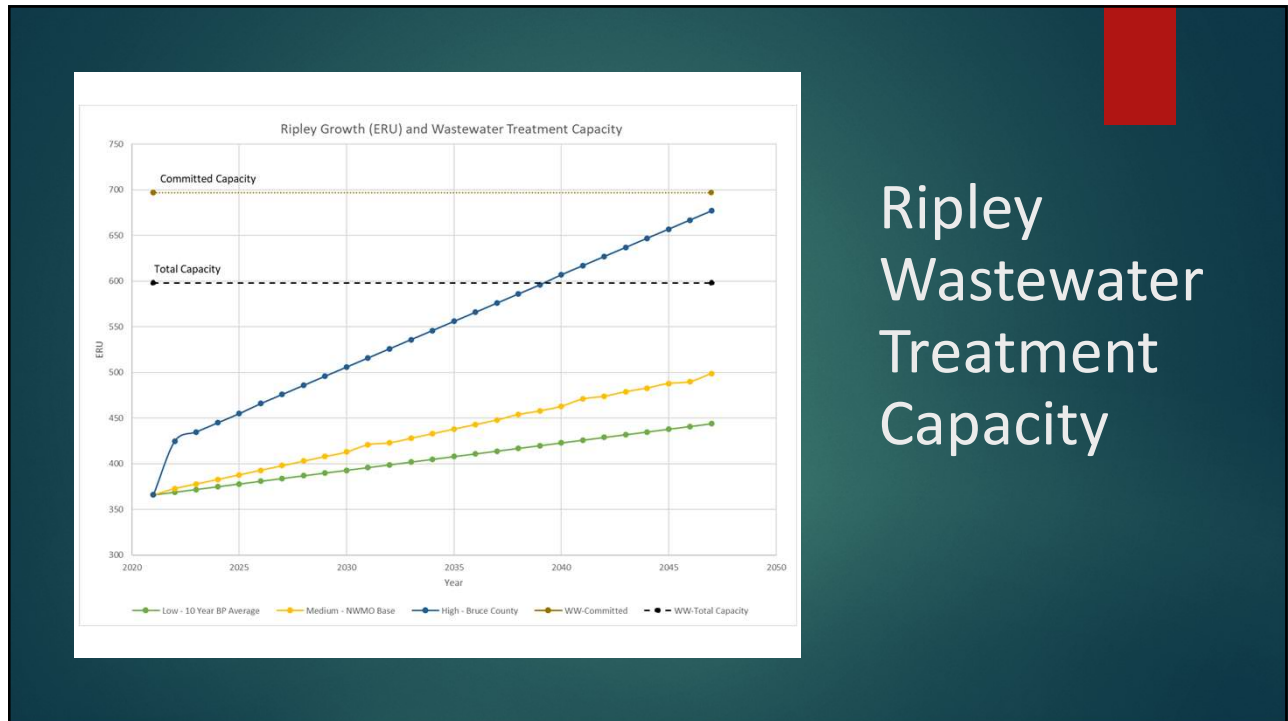
# Lucknow Wastewater Capacity and Growth

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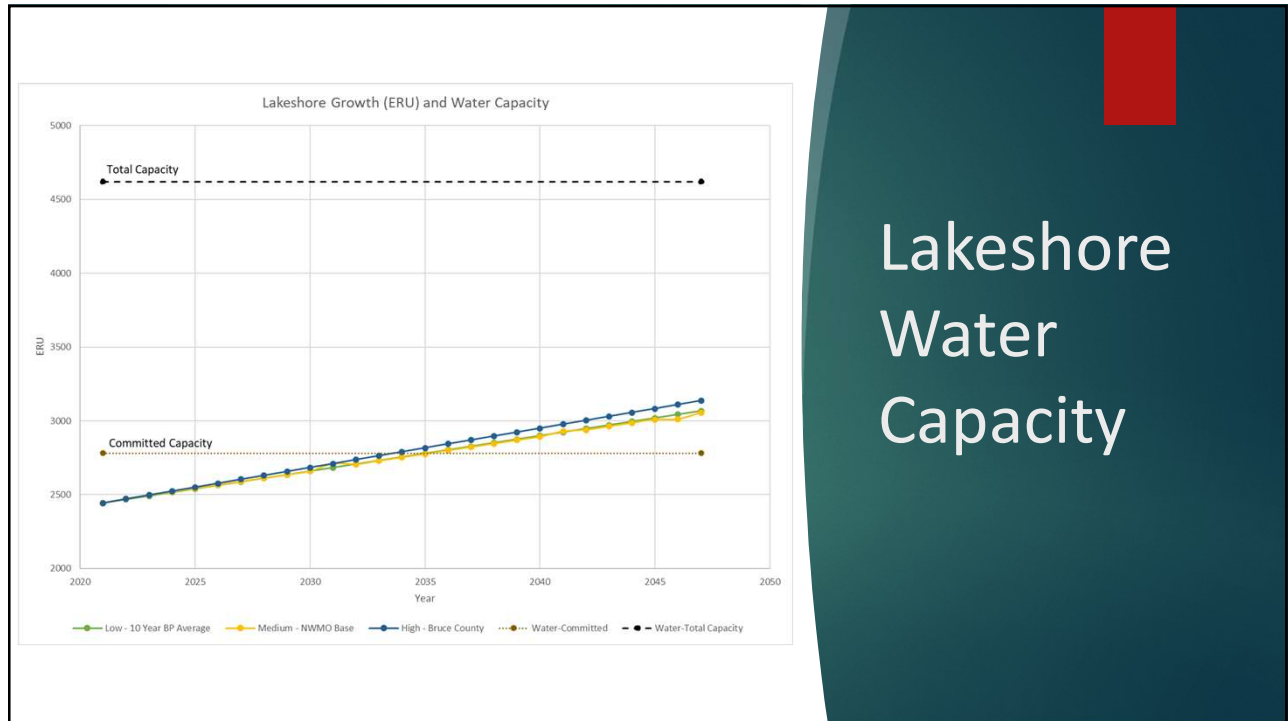
# Ripley Water Treatment Capacity

23



# Ripley Wastewater Treatment Capacity

24



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## Water Storage Capacity

Water Storage Location	Total Current Storage (m <sup>3</sup> )	Required Storage Existing (m <sup>3</sup> )	Required Storage Existing + Commitments (m <sup>3</sup> )
Lucknow	1,600 <sup>1</sup>	1,168	1,338
Ripley	1,465	912	1,477
Lakeshore	1,500 <sup>2</sup>	4,067	4,419

Notes 1. Based on new elevated tank  
 2. Effective storage is less

From examination of water storage capacity, additional water storage is recommended for the Lakeshore water system.

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# Treatment and Storage Summary - Ripley



## Water

Current rated water capacity is sufficient to meet forecasted demands  
Have sufficient water storage



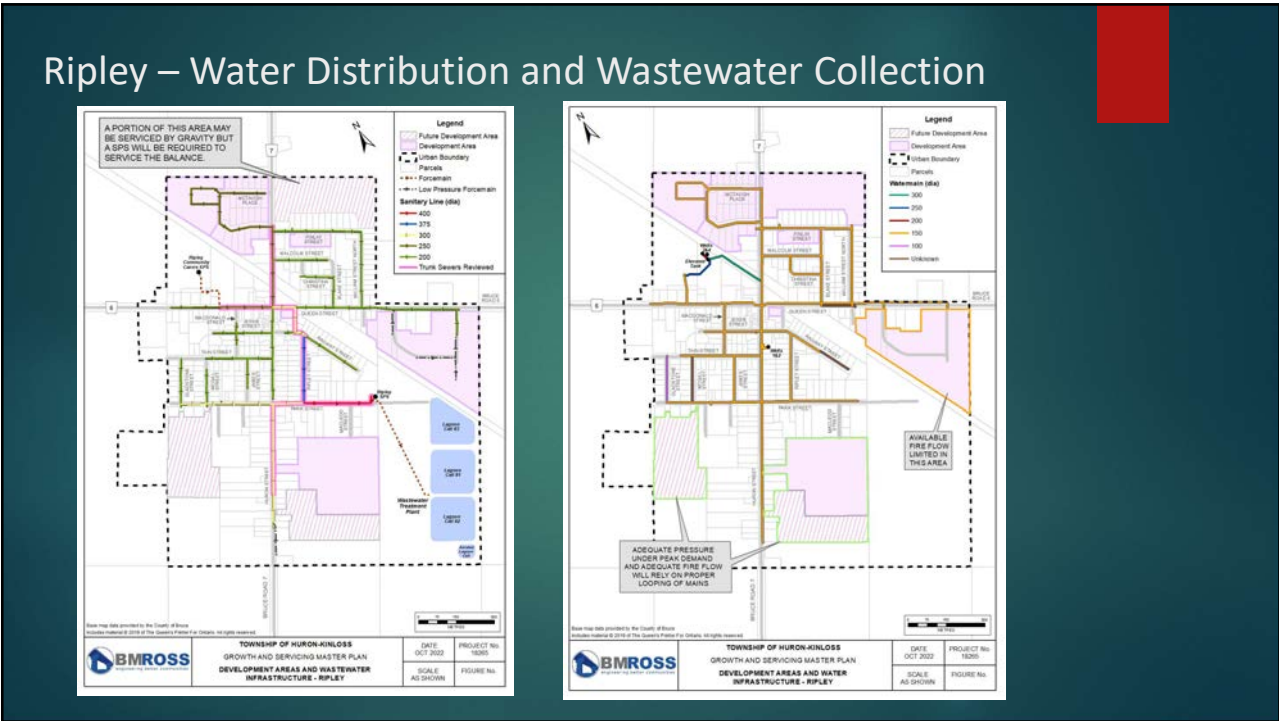
## Wastewater

Wastewater treatment capacity is theoretically over-committed.

Recommendations:


- Implementing an allocation policy (use it or lose it, or want it – pay for it,)
- Monitoring reserve capacity on 5-year basis
- Under high growth scenario, WWTP expansion may be needed by 2038. Continue to monitor development and plan to start an EA in approximately 2032 if additional capacity required.
- An expanded plant, when required, will incorporate different treatment methods (e.g. mechanical works) to achieve modern treatment requirements at higher flows.


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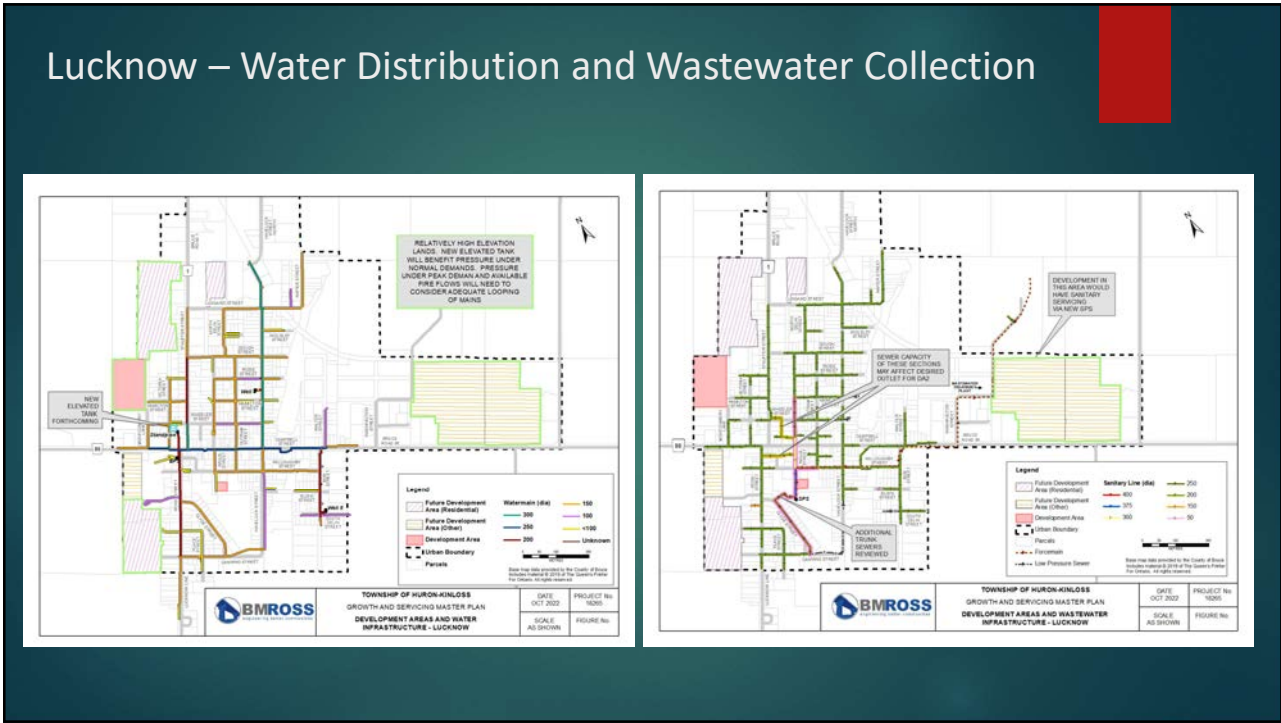
# Treatment and Storage Summary - Lucknow

- 
**Water**

Have sufficient capacity for forecasted growth over the next 25 years.  
 With new elevated storage facility, will have sufficient storage.
- 
**Wastewater**

Forecasted to approach capacity under high growth scenario around 2045.  
 Continue to monitor capacity as development occurs.  
 An expanded plant, when required, will incorporate different treatment methods (e.g. mechanical works) to achieve modern treatment requirements at higher flows.

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# Water Treatment and Storage Summary – Lakeshore Area

Sufficient supply capacity for forecasted growth

Additional water storage recommended. Suggested siting criteria:

- Locating in the northern lakeshore area (i.e. north of Concession 6)
- Ideally site near existing large watermains, at a higher elevation location

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# Lakeshore Area Water Distribution



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## Lakeshore Area Wastewater Servicing

- ▶ Inverlyn Lake/Huronville and a section of Boiler Beach are connected to municipal sewage services (from Kincardine). Remainder of the Lakeshore is serviced by on site, private servicing i.e. septic systems.
- ▶ Under Provincial Policy Statement (PPS), where municipal services are not available, planned or feasible, private communal sewage services are preferred.
  - ▶ Partial services only permitted to: address failed on site sewage services and in settlement areas for infilling and minor rounding out, providing site conditions are suitable and no long term negative impacts.
- ▶ Given that forecasting shows additional settlement lands will be required over the next 25 years, a strategy for wastewater servicing is needed.

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## Lakeshore Servicing Alternatives

1. Status Quo (Private Services)/Do Nothing	2. Service from Kincardine	3. New Sewage System	4. Private Services and Communal Service
<ul style="list-style-type: none"> <li>Infilling in existing settlement area on septic systems.</li> <li>Continued septic inspection program to address concerns around long-term impacts.</li> <li>Unlikely expanded settlement area would be permitted on septic systems.</li> </ul>	<ul style="list-style-type: none"> <li>Extend municipal services from Kincardine.</li> <li>Kincardine does not likely want to service entire Lakeshore area.</li> <li>Potential to service expanded settlement area, however unlikely as Kincardine has its own capacity demands/ needs.</li> <li>Not considered feasible.</li> </ul>	<ul style="list-style-type: none"> <li>Construct a municipal sewage treatment and collection system to service all or part of the Lakeshore.</li> <li>Not considered feasible to service entire Lakeshore area – very high cost of collection system, siting of treatment facility.</li> </ul>	<ul style="list-style-type: none"> <li>Existing Lakeshore area would remain on private septic systems. Expanded settlement area would be serviced by a communal/ decentralized sewage system.</li> </ul>

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## Lakeshore Servicing Strategy

- ▶ Continued infill on septic systems within the existing settlement area.
- ▶ Maintain septic inspection program to demonstrate active management of systems and absence of long-term issues.
- ▶ Future expanded settlement area expected to require decentralized/communal wastewater treatment system.
  - ▶ Type, size and location of system will be dependent on proposed development.
  - ▶ Will need to give consideration to technologies, planning (structure and scale of the system) and how system(s) will be managed – ownership, financing, operations and maintenance.
  - ▶ Expect that a system will likely require consultation with Ministry of Environment, Conservation and Parks, and a Schedule C Municipal Class Environmental Assessment.

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## Identified Projects

### Immediate Needs

- Develop and implement allocation policy for water/wastewater.
- In Ripley – update/monitor wastewater reserve capacity calculations on 5-year basis.

### Near term (5 10 years)

- Additional storage in Lakeshore.
- Schedule B Municipal Class EA for new storage site.
- Replace Well 5 in Lucknow.

### Long term (10 25 years)

- Prepare Settlement Capacity Study for Lakeshore Area expansion.
- Potential expansion of Ripley WWTP (2039), Lucknow WWTP (2045). Timing of need to start EA studies will be dependent on development.

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## Next Steps of the Master Plan

Incorporate input and feedback received during Open House

Prepare Master Plan report.

Present draft Master Plan report to Council

Finalize Report and Issue Notice of Completion

30 day public review period.

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## Questions and Comments

- ▶ Please send questions and comments (by November 30) to:
  - ▶ Lisa Courtney, Senior Planner, 62 North Street, Goderich ON N7A 2T4
  - ▶ [lcourtney@bmross.net](mailto:lcourtney@bmross.net)
  - ▶ 519 524 2641



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