

B2. Notice of Commencement / PIC No. 1

- Notice
- Municipal Project Website
- Agency / Stakeholder / Indigenous Community Notification Letters
- PIC No. 1 Material
- Questionnaire & Comment Sheet
- Comments Received / Response Provided

Notice



TOWN OF MIDLAND
Waterworks Master Plan Update
Notice of Commencement / Public Information Centre No. 1

The Project

The Town of Midland has retained the services of AECOM to undertake an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes. The Town of Midland is identified as a Primary Urban Settlement Area in the *Growth Plan for the Greater Golden Horseshoe (2017)* and is anticipating continued growth and development in the community. The existing population of Midland is approximately 16,864 and is expected to reach 22,500 by the year 2031. The proposed update to the existing Waterworks Master Plan will provide a comprehensive water servicing infrastructure plan for the community for the next 20 years. It will also support the Town's Official Plan Review and Development Charges Study. The project study area includes the limits of the Town of Midland as well as a several key stakeholders located within the neighboring Tay Township (i.e. St. Marie Among the Hurons, Martyr's Shrine, and Wye Marsh Wildlife Centre) that are currently serviced by the Town of Midland.

The Process

This undertaking will be completed in accordance with the *Municipal Class Environmental Assessment (Oct. 2000, as amended 2007, 2011 & 2015)* with the intent of addressing Phases 1 and 2 of the Class EA process thereby fulfilling the requirements for the Schedule 'A', 'A+', and 'B' projects identified within the document. The final notice for this Master Plan update will be considered the Notice of Completion for the Schedule 'B' projects.

Public Information Centre (PIC) No. 1

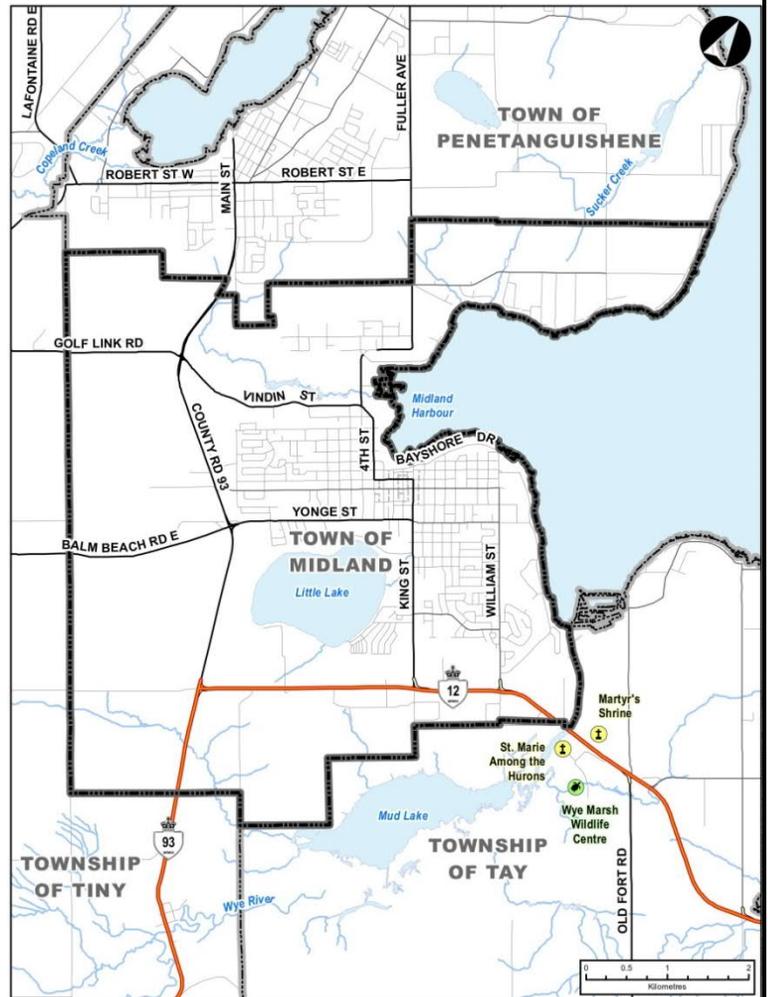
PIC No. 1 will be presented in an online format with material available **February 6, 2019** on the Town of Midland website at www.midland.ca. PIC No. 1 will introduce the project, outline the rationale behind it, identify existing deficiencies, and provide a brief overview of the Class EA process. The website will also include a location to submit comments and a water user questionnaire. A second PIC will be scheduled at a future date and advance notification will be provided.

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Chuck Fiddy
Manager
Town of Midland
200 Bay Street
Midland, ON L4R 1J5
Tel: 705-526-4268 Ext. 4202
Fax: 705-528-6072
Email: cfiddy@midland.ca

Andrea Potter, B.E.S.
Senior Environmental Planner
AECOM
55 Cedar Pointe Drive, Suite 620
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Tel: 705-797-3278 (Direct)
Fax: 705-734-0764
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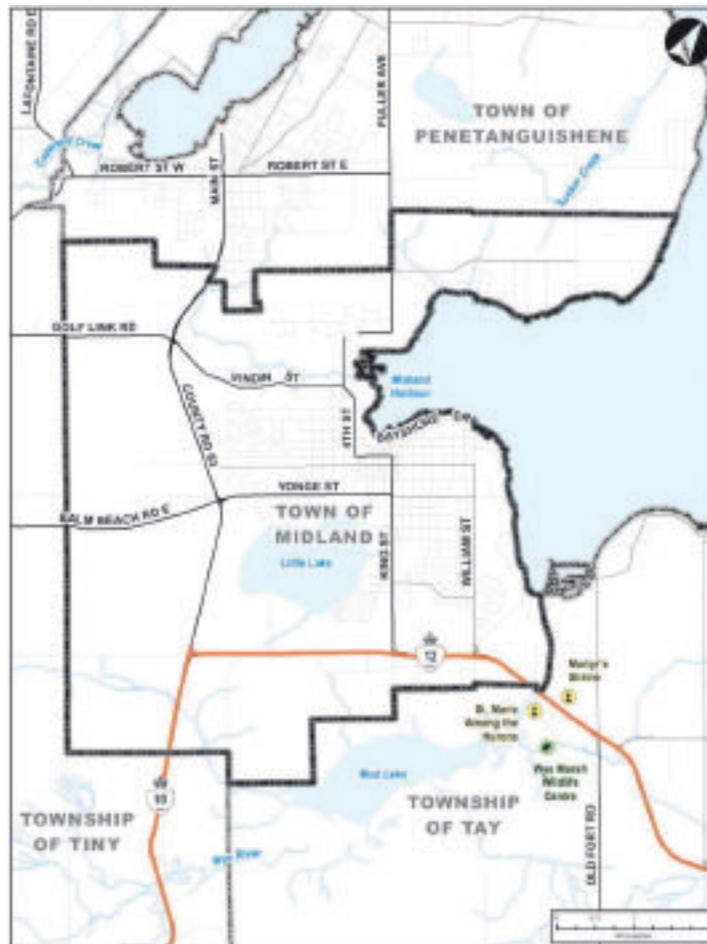
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Fax: 705-734-0764
Andrea.Potter@aecom.com



Potter, Andrea

From: Potter, Andrea
Sent: January-22-19 9:20 AM
To: 'eanotification.cregion@ontario.ca'
Cc: Grueneis, Karl
Subject: Town of Midland, MEA Class EA Master Plan (Approach #2), Midland Waterworks Master Plan Update File No. 60593529
Attachments: 60593529 Midland MP Com-PIC 1 Notice Jan-2019 FINAL.pdf; MECP Streamlined EA FORM - Midland MP.xlsx

Please see attached.

Andrea Potter, B.E.S.
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T +1-705-721-9222
aecom.com

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WORLD'S MOST
ADMIRED
COMPANIES
2018
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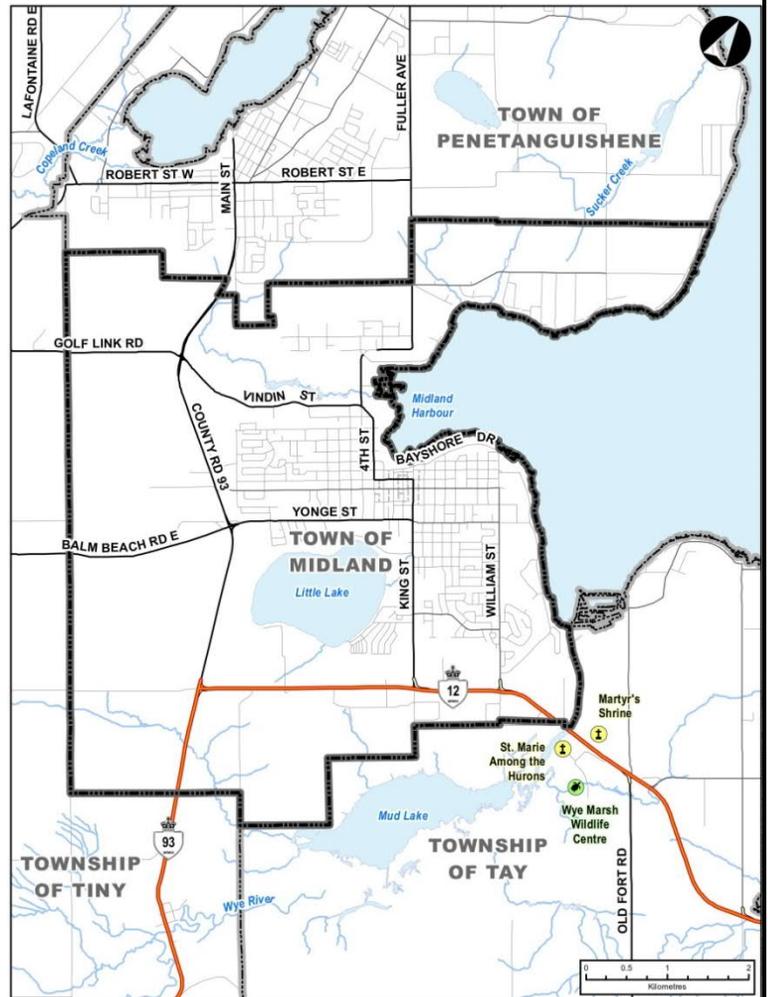
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What to do:

Step 1: Look for the type of EA project in column B that applies to you.

Step 2: Complete columns C to J for that project.

Step 3: Send this form in Excel format to the MECP regional office email address where the project is located.

MECP regional office email addresses are listed at
www.ontario.ca/page/preparing-environmental-assessments

	Class EA/Streamlined EA	Proponent Name	Proponent Contact	Project Name	Project Schedule	Project Type	Project Location	MOECC Region	Project Initiation Date
1	CO - Remedial flood and erosion control projects								
2	GO Transit - Class EA								
3	Hydro One - Minor transmission facilities								
4	MEA - Class EA for municipal infrastructure projects	Town of Midland	Mr. Chuck Fiddy, Manager Town of Midland cfiddy@midland.ca	Waterworks Master Plan Update	Master plan	Municipal water and wastewater projects	Midland, Town of	Central	17/01/2019
5	Ministry of Infrastructure - Public work								
6	MNDM - Activities of the Ministry of Northern Development and Mines under the Mining Act								
7	MNRF - Provincial parks and conservation reserves								
8	MNRF - Resource stewardship and facility development projects								
9	MTO - Provincial transportation facilities								
10	O. Reg. 101/07 - Waste management projects								
11	O. Reg. 116/01 - Electricity projects								
12	OWA - Waterpower projects								

Enter the proponent's name.

Enter the name and email address of the person who the MECP should contact about your project. This should be the same contact person who is listed on the notice.

Enter the project name as it appears on the notice.

Select the project schedule from the drop-down menu.

Select the project type from the drop-down menu.

Select the name of the municipality or unorganized/unsurveyed area where your project is located from the drop-down menu.

Select the MECP region from the drop-down menu. Read the "MECP regions" worksheet to find the MECP region where your project is located.
 Enter the date that the streamlined EA process was initiated (e.g. notice of commencement). This date may be when the project notice was first published.

Municipal Project Website



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(<https://www.youtube.com/channel/UCZyTTENGQfUuN7M6vwFjLFw>)

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COUNCIL (/PAGES/COUNCIL.ASPX)

[Midland \(https://www.midland.ca\)](https://www.midland.ca) > [Living in Midland \(/Pages/residents.aspx\)](/Pages/residents.aspx) > Waterworks Master Plan



Public Information Centre (PIC) No. 2

PIC No. 2 will be held on Thursday, May 30, 2019, at the North Simcoe Sports and Recreation Centre, where residents will have the opportunity to see potential solutions to current deficiencies, and the next steps for the project. Residents will also be able to submit comments/feedback at the meeting or later through the contacts listed at the bottom of this page.

This is a drop-in style of meeting. There will be no formal presentation.

Waterworks Master Plan - Public Information Centre No. 2

Thursday, May 30, 2019

5:00 p.m. to 8:00 p.m.

North Simcoe Sports and Recreation Centre - 527 Len Self Boulevard, Midland

Background

The Project

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Click [here](#)

(/Shared%20Documents/Waterworks%20Master%20Plan%20page/60593529%20Midland%20MP%20PIC%20No.%201%20Feb-05-2019%20FINAL.pdf) to view the Midland Waterworks Master Plan PIC presentation.

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Water/Wastewater Manager
Town of Midland
200 Bay Street
Midland, ON L4R 1J5
T: 705-526-4268 ext. 4202
F: 705-528-6072
cfiddy@midland.ca
[.\(mailto:cfiddy@midland.ca\)](mailto:cfiddy@midland.ca)

Andrea Potter, B.E.S.
Senior Environmental Planner
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F: 705-734-0764
Andrea.Potter@aecom.com
[.\(mailto:Andrea.Potter@aecom.com\)](mailto:Andrea.Potter@aecom.com)



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(/Shared%20Documents/Waterworks%20Master%20Plan%20page/60593529%20Midland%20MP%20PIC%20No.%201%20Comment%20Sheet%20FINAL%20Jan-25-2019.pdf)Download/Print/Submit

Town of Midland Municipal Office

575 Dominion Avenue, Midland,
ON L4R 1R2

Phone: 705-526-4275 Fax: 705-526-9971

TTY: 705-526-4275 ext.2824

admin@midland.ca

[\(mailto:admin@midland.ca\)](mailto:admin@midland.ca)

Monday to Friday 8:30 a.m - 4:30 p.m

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Deborah Stewart

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[\(/_layouts/15/Authenticate.aspx\)](#)

2018 Town of Midland

Scent Sensitivity in our Workplace

The Town of Midland is a scent sensitive environment, we ask those who will be entering our facilities to please refrain from using or wearing scented products.

Thank you for your cooperation.
[Site Map \(/sitemap\)](#) | [Contact Us \(/contact\)](#) | [Staff \(https://portal.office.com/\)](https://portal.office.com/)

***Agency / Stakeholder / Indigenous
Community Notification Letters***

Town of Midland Waterworks Master Plan Update
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 PROJECT CONTACT LIST

Date: 06/02/2019

Title	First	Last	Title	Company	Address 1	Address 2	Town	PC	Telephone	Email
Provincial & Federal Agencies										
Mr.	Rob	Dobos	Manager, Environmental Assessment Section	Environment Canada - Environmental Protection Operations Division - Ontario Region	867 Lakeshore Road	P.O. Box 5050	Burlington, ON	L7R 4A6	905-336-4953	rob.dobos@ontario.ca
Ms.	Chunmei	Liu	Environmental Resource Planner & EA Coordinator - Air, Pesticides and Environmental Planner (Barrie, Orillia & County of Simcoe)	Central Region Ministry of Environment, Conservation and Parks	5775 Yonge Street	8th Floor	North York, ON	M2M 4J1	416-326-4886	chunmei.liu@ontario.ca
Ms.	Cindy	Hood	District Manager	Barrie District Office Ministry of Environment, Conservation and Parks	54 Cedar Point Drive	Unit 1201	Barrie, ON	L4N 5R7	705-739-6436	cindy.hood@ontario.ca
Mr.	Shawn	Carey	District Manager	Midhurst District Ministry of Natural Resources and Forestry	2284 Nursery Road		Midhurst, ON	L0L 1X0	705-725-7561	shawn.carey@ontario.ca
Mr.	Usman	Akhtar	Corridor Management Officer	Corridor Management Office Ministry of Transportation	159 Sir William Hearst Ave.	7th Floor	Toronto, ON	M3M 0B7	416-235-3509 direct 1-866-636-0663	usman.akhtar@ontario.ca
Ms.	Karla	Barboza	Team Lead, Heritage Program Unit	Programs and Services Branch Ministry of Tourism, Culture & Sport	401 Bay Street	Suite 1700	Toronto, ON	M7A 0A7	416-314-7120	karla.barboza@ontario.ca
Ms.	Carol	Neumann	Rural Planner	Ontario Ministry of Agriculture, Food and Rural Affairs	6484 Wellington Rd. 7	Unit 10	Elora, ON	N0B 1S0	519-846-3393	carol.neumann@ontario.ca
Mr.	John	Jeffery		Ontario Federation of Agriculture	100 Stone Road West	Ontario Agricentre, Suite 206	Guelph, ON	N1G 5L3		
Mr.	Jason	Mackenzie	Executive Director	Ontario Farmland Trust	50 Stone Road East	Richards Building	Guelph, ON	N1G 2W1		
Ms.	Julie	Cayley	Executive Director	Severn Sound Environmental Association	489 Finlayson Street		Port McNicoll, ON	L0K 1R0	705-534-7283	JCayley@severnsound.ca
Mr.	Chris	Hibberd	Director, Watershed Management Services	Nottawasaga Valley Conservation Authority	John Hix Administration Centre	8195 8th Line	Utopia, ON	L0M 1T0	705-424-1479 ext. 229	c.hibberd@nvca.on.ca
Mr.	Derrick	Toigo	Senior Vice President Rail Infrastructure Team	Infrastructure Ontario	777 Bay Street	6th Floor, Suite 602	Toronto, ON	M5G 2C8	416-327-0262	Derrick.Toigo@infrastructureontario.ca
Mr.	Chris	Gauer	Executive Vice President Major Projects, Roads & Transit	Infrastructure Ontario	777 Bay Street	6th Floor, Suite 602	Toronto, ON	M5G 2C8	416-327-8037	Chris.Gauer@infrastructureontario.ca
Mr.	Tim	Haldenby	Municipal Planning Advisor - Team Lead Central Ontario	Ministry of Municipal Affairs and Housing	777 Bay Street	13th Floor	Toronto, ON	M5G 2E5	416-585-6559	tim.haldenby@ontario.ca
Local Government, Adjacent Municipalities & Other Agencies										
Mr.	Christian	Meile	Director, Construction & Transportation Maintenance	County of Simcoe	1110 Highway 26 West		Midhurst, ON	L0L 1X0	705-726-9300	christian.meile@simcoe.ca
Mr.	Dave	Parks	Director, Planning, Development & Tourism	County of Simcoe	1110 Highway 26 West		Midhurst, ON	L0L 1X0	705-726-9300	dave.parks@simcoe.ca
Ms.	Barb	Fox	Planning Officer	Simcoe Muskoka Catholic District School Board	46 Alliance Blvd.		Barrie, ON	L4M 5K3	705-722-3559 ext. 252	bdfox.smcdsb.on.ca
Ms.	Holly	Spacek	Planning Officer	Simcoe County District School Board	1170 Highway 26		Midhurst, ON	L0L 1X0	705-728-7570 ext. 11311	hspacek@scdsb.on.ca
Mr.	Miguel	Ladouceur	Director of Building, Maintenance and Planning	Conseil Scolaire Viamonde	116 Cornelius Parkway		Toronto, ON	M6L 2K5	1-416-614-5917	ladouceurm@csvgiamonde.ca
Ms.	Nathalie	Huard	Transportation Technician, Service de Transport Francobus	Association Franco-Ontarienne Des Conseils Scolaires Catholiques	138 rue Main Est	Bureau 205	Welland, ON	L3B 3W6	1-800-749-0002	huardn@francobus.ca
Mr.	Michael	Crawley	Transportation Coordinator	Simcoe County Student Transportation Consortium	64 Cedar Pointe Drive	Unit 1403	Barrie, ON	L4N 5R7	705-733-8965, ext. 113	mcrawley@scstc.ca
Att:			President	Simcoe County Historical Association		P.O. Box 144	Barrie, ON	L4M 4S9	705-796-7649	earl.elliott@rogers.com
Mr.	Robert	Lamb	Chief Administrative Officer	Township of Tay	450 Park Street	P.O. Box 100	Victoria Harbour, ON	L0K 2A0	705-534-7248 ext. 222	
Mr.	Peter	Dance	Director of Public Works	Township of Tay	450 Park Street	P.O. Box 100	Victoria Harbour, ON	L0K 2A0	705-534-7248 ext. 224	
Mr.	Doug	Luker	Chief Administrative Officer	Township of Tiny	130 Balm Beach Road West		Tiny, ON	L0L 2J0	705-526-4204 ext. 224	dluker@tiny.ca
Mr.	Tom	Leitch	Director of Public Works	Township of Tiny	130 Balm Beach Road West		Tiny, ON	L0L 2J0	705-526-4204 ext. 243	tleitch@tiny.ca
Mr.	Jeff	Lees	Chief Administrative Officer	Town of Penetanguishene	10 Robert Street West	P.O. Box 5009	Penetanguishene, ON	L9M 2G2	705-549-7453	
Mr.	Bryan	Murray	Director of Public Works	Town of Penetanguishene	10 Robert Street West	P.O. Box 5009	Penetanguishene, ON	L9M 2G2	705-549-7992	

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Date: 06/02/2019

Title	First	Last	Title	Company	Address 1	Address 2	Town	PC	Telephone	Email
Emergency Services										
Mr.	JC	Gilbert	Deputy Chief Operations	County of Simcoe Paramedic Services	1110 Highway 26		Midhurst, ON	L0L 1X0	705-726-9300	jc.gilbert@simcoe.ca
Mr.	Paul	Ryan	Director of Fire Services / Fire Chief	Midland Fire Department	550 Bayshore Drive		Midland, ON	L4R 5E7	705-526-4279 ext. 2239	pryan@midland.ca
Mr.	Brian	Thomas	Fire Chief / Community Emergency Management Coordinator	Tay Township Fire Department	450 Park Street	P.O. Box 100	Victoria Harbour, ON	L0K 2A0	705-534-7248 ext. 245	
Mr.	Ray	Millar	Director of Fire and Emergency Services / Fire Chief	Township of Tiny Fire and Emergency Services	130 Balm Beach Road West		Tiny, ON	L0L 2J0	705-322-1161	rmillar@tiny.ca
Mr.	Paul	Potter	Acting Staff Sergeant	Southern Georgian Bay OPP	P.O. Box 250		Midland, ON	L4R 4K8	705-526-3761	paul.potter@opp.ca
Special Interest Groups										
Ms.	Denise	Hayes	General Manager	Southern Georgian Bay Chamber of Commerce (represents Midland, Penetang, Tay & Tiny)	208 King Street (Upper Level)		Midland, ON	L4R 3L9	705-526-7884 ext. 202	dhayes@sqbchamber.ca
Mr.	Ian	Kirkpatrick	General Manager	Midland Golf and Country Club	9536 Highway 93 North		Midland, ON	L4R 4K6	705-526-5822	genmanager@midlandgolfcc.com
Mr.	Michael	Scherloski	General Manager	Brooklea Golf and Country Club	8567 Highway 93	P.O. Box 97	Midland, ON	L4R 4K6	705-527-4653	
Ms.	Katharine	Rowe-Bailey	Operations General Manager	Raytheon Elcan Optical Technologies	450 Leitz Road		Midland, ON	L4R 5B8	705-526-5401 ext. 104	katharine.rowe-bailey@raytheon.com
Mr.	Manfred	End		TRW Canada Ltd. - Occupant Safety Systems	16643 Hwy 12		Midland, ON	L4R 4L5	705-526-8791	
Ms.	Mary-ann	Milne	Executive Director	Wye Marsh Wildlife Centre	16160 Highway 12 East		Midland, ON	L4R 4K6	705-526-7809 ext. 201	mmilne@wymarsh.com
Mr.	Rod	Khaled	Project Manager, Engineering Corporate Services and Finance Branch	Environment and Climate Change Canada	867 Lakeshore Road		Burlington, ON	L7S 1A1	905-336-8912	rod.khaled@canada.ca
Mr.	Chad	Moreau	Maintenance Foreman	Sainte-Marie Among the Hurons	16164 Highway 12 East	Box 160	Midland, ON	L4R 4K8	705-526-7838 705-528-7687 direct	chad.moreau@ontario.ca
Ms.	Katharine	McCracken	Manager of Operations	Sainte-Marie Among the Hurons	16164 Highway 12 East	Box 160	Midland, ON	L4R 4K8	705-526-7838 705-528-7688 direct	katharine.mccracken@ontario.ca
Att:			Manager of Operations	Martyrs' Shrine	16163 ON-12		Midland, ON	L4R 4K6	705-526-3788	
Aboriginal Consultation										
Att: Consultation Unit				Ministry of Indigenous Affairs	160 Bloor St. East	9th Floor	Toronto, ON	M7A 2E6	416-326-4757 1-866-381-5337	maa.ea.review@ontario.ca
(INAC (formerly AANDC) <u>not</u> to be contacted as project is not on Aboriginal lands)				Indigenous & Northern Affairs Canada - Consultation Unit (formerly Aboriginal Affairs & Northern Development Canada)	25 St. Clair Avenue East	8th Floor	Toronto, ON	M4T 1M2	1-800-567-9604	
Mr.	Brian	Tucker	Associate Director of Education and Way of Life	The Metis Nation of Ontario	66 Slater St.	Suite 1100	Ottawa, ON	K1P 5H1	807-274-1386 (direct) 613-798-1488 (Secretary)	Prefers digital - briant@metisnation.org & copy to consultation@metisnation.org
Mr.	Jesse	Fieldwebster, M. Eng.	Manager	Metis Nation of Ontario	355 Cranston Crescent	P.O. Box 4	Midland, ON	L4R 4K6	705-526-6335 ext. 220	JesseF@metisnation.org
Att:			President	Georgian Bay Metis Council	355 Cranston Crescent	P.O. Box 4	Midland, ON	L4R 4K6	705-526-6335	
Mr.	David	Dusome	PCMNO Regional Councillor	The Metis Nation of Ontario, Georgian Bay Traditional Territory Consultation Committee	355 Cranston Crescent	P.O. Box 4	Midland, ON	L4R 4K6	705-526-6335	daviddusome@rogers.com
Ms.	Lynette	Davis	Director of Operations	Metis National Council	4-340 MacLaren Street		Ottawa, ON	K2P 0M6	613-232-3216	lynetted@metisnation.ca
Mr.	Tony	Muscat	President Interim	Moon River Metis Council	B26360 Cedarhurst Beach Road	R.R. 1	Beaverton, ON	L0K 1A0	705-426-1381	tonymuscat@rogers.com
Indigenous Communities										
Chief	Guy	Monague		Beausoleil First Nation	11 O-Gemaa Miikan		Christian Island, ON	L9M 0A9	705-247-2051	bfn@chief@chimnissing.ca
Ms.	Tanya	Roote-Jamieson	Executive Assisstant	Beausoleil First Nation	11 O-Gemaa Miikan		Christian Island, ON	L9M 0A9	705-247-2051 ext. 222	tanyaroot@chimnissing.ca
Mr.	Maxime	Picard	Coordonnateur de projets - Ontario	Huron Wendat First Nation	255, Place Chef Michel-Laveau		Wendake, QC	G0A 4V0	418-843-3767 ext. 2105	maxime.picard@cnhw.qc.ca
Ms.	Tina	Durand	Executive Secretary to Chief and Council	Huron Wendat First Nation	255, Place Chef Michel-Laveau		Wendake, QC	G0A 4V0		tina.durand@cnhw.qc.ca
Mr.	Compton	Khan	Executive Director	Georgian Bay Native Friendship Centre	175 Yonge St.		Midland, ON	L4R 2A7	705-526-5589 ext. 224	edirector@qbnfc.com
Chief	Rodney	Noganosh		Chippewas of Rama First Nation	200-5884-Rama Road		Rama, ON	L3V 6H6	705-325-3611	rodneyn@ramafirstnation.ca
Ms.	Hollie	Nolan	Executive Assistant to the Chief	Chippewas of Rama First Nation	200-5884-Rama Road		Rama, ON	L3V 6H6	705-3253611 ext. 1216	hollien@ramafirstnation.ca
Ms.	Karry	Sandy-McKenzie	Co-ordinator/Negotiator	Williams Treaties First Nation	8 Creswick Court		Barrie, ON	L4M 2J7		k.a.sandy-mckenzie@rogers.com

Town of Midland Waterworks Master Plan Update
 Notice of Commencement / Notice of Public Information Centre No. 1
 PROJECT CONTACT LIST

Date: 06/02/2019

Title	First	Last	Title	Company	Address 1	Address 2	Town	PC	Telephone	Email
Chief	Lester	Anoquot		Chippewas of Saugeen First Nation	6493 Highway 21	R.R. 1	Southampton, ON	N0H 2L0	1-800-680-0744	sfn@saugeen.org
Mr.	Michael	Johnston	Manager	Saugeen Ojibway Nation Environment Office	25 Maadookii Subdivision		Neyaashiinigmiing, ON	N0H 2T0	519-534-5507	michael.johnston@saugeenojibwaynation.ca
Chief	Donna	Big Canoe		Chippewas of Georgina Island First Nation	R.R. #2	P.O. Box 13	Sutton West, ON	L0E 1R0	705-437-1337	donna.bigcanoe@georginaisland.com
Ms.	Joselyn	Keeshig	Administrator	Chippewas of Nawash First Nation	#135 Lakeshore Blvd.		Neyaashiinigmiing, ON	N0H 2T0	519-534-1689	cnadministrator@nawash.ca
Chief	Greg	Nadjiwon		Chippewas of Nawash First Nation	#135 Lakeshore Blvd.		Neyaashiinigmiing, ON	N0H 2T0	519-372-3069	chiefsdesk@nawash.ca
Chief	Barron	King		Moose Deer Point First Nation		P.O. Box 119	MacTier, ON	P0C 1H0	705-375-0532	barron.king@moosedeerpoint.com
Chief	Phillip	Franks		Wahta Mohawks (Mohawks of Gibson)	2664 Muskoka Road	P.O. Box 260	Bala, ON	P0C 1A0	705-762-2354	phillip.franks@wahtamohawkcouncil.ca
Utilities										
Mr.	Phil	Marley	President & CEO	Midland Power Utility Corporation	16984 Hwy 12	P.O. Box 820	Midland, ON	L4R 4P4		tpanak@innservices.co
Ms.	Carol	O'Brien		Bell Canada	136 Bayfield Street	2nd Floor	Barrie, ON	L4M 3B1	705-722-2405	carol.obrien@bell.ca
Mr.	Andrew	Fournier		Bell Canada	136 Bayfield Street	2nd Floor	Barrie, ON	L4M 3B1	705-722-2405	andrew.fournier@bell.ca
Mr.	Anothony	Zita	Planning Analyst	Enbridge Gas	6 Colony Court		Brampton, ON	L6T 4E4	905-458-3822 416-427-9620 cell	Anthony.Zita@enbridge.com
Mr.	Meetpal	Chhina	Supervisor	Enbridge Gas	6 Colony Court		Brampton, ON	L6T 4E4	905-458-3822	meetpal.chhina@enbridge.com
Mr.	Graham	McPherson	Planning	Rogers	1 Sperling Drive		Barrie, ON	L4M 6B8	705-737-4660 x6914	Graham.McPherson@rci.rogers.com



AECOM
55 Cedar Pointe Drive, Suite 620
Barrie, ON
L4N 5R7
Canada
www.aecom.com

705-721-9222 tel
705-734-0764 fax

February 1, 2019

File No. 60593529

SAMPLE AGENCY / KEY STAKHOLDER / EMERGENCY SERVICES LETTER

«Name»
«Position»
«Organization»
«Address»

Dear «Name»:

**RE: Town of Midland
Midland Waterworks Master Plan Update
Municipal Class Environmental Assessment
Notice of Study Commencement / Public Information Centre No. 1**

The Town of Midland has retained the services of AECOM to undertake an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes. This project will follow the planning and design process in accordance with the *Municipal Class Environmental Assessment* (Oct. 2000, as amended 2007, 2011 & 2015).

The purpose of this letter is to notify you of the commencement of this undertaking and to provide opportunity for you to participate in the process and to provide input. Please refer to the attached notice for additional details regarding the project.

Should you have any questions or concerns regarding this project, please contact the undersigned or Mr. Chuck Fiddy, Manager at the Town of Midland, at 705-526-4268 ext. 4202 or via email at cfiddy@midland.ca.

Sincerely,

AECOM

Andrea Potter, B.E.S.
Senior Environmental Planner
Tel: (705) 797-3278
Email: andrea.potter@AECOM.com

cc C. Fiddy Town of Midland, Manager
W. Crown Town of Midland, Director of Planning & Building Services
M. Sobil Town of Midland, Senior Project Manager

R. Provencal AECOM, Project Manager
M. Choudhary AECOM, Deputy Project Manager
K. Grueneis AECOM, Senior Environmental Planner

Encl. Notice



AECOM
55 Cedar Pointe Drive, Suite 620
Barrie, ON
L4N 5R7
Canada
www.aecom.com

705-721-9222 tel
705-734-0764 fax

February 1, 2019

SAMPLE INDIGENOUS COMMUNITY LETTER

File No. 60593529

«Name»
«Position»
«Organization»
«Address»

Dear «Name»:

**RE: Town of Midland
Midland Waterworks Master Plan Update
Municipal Class Environmental Assessment
Notice of Study Commencement / Public Information Centre No. 1**

The Town of Midland has retained the services of AECOM to undertake an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes. This project will follow the planning and design process in accordance with the *Municipal Class Environmental Assessment* (Oct. 2000, as amended 2007, 2011 & 2015).

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Should you have any questions or concerns regarding this project, please contact the undersigned or Mr. Chuck Fiddy, Manager at the Town of Midland, at 705-526-4268 ext. 4202 or via email at cfiddy@midland.ca.

Sincerely,

AECOM

Andrea Potter, B.E.S.
Senior Environmental Planner
Tel: (705) 797-3278
Email: andrea.potter@AECOM.com

cc C. Fiddy Town of Midland, Manager
W. Crown Town of Midland, Director of Planning & Building Services
M. Sobil Town of Midland, Senior Project Manager

R. Provencal AECOM, Project Manager
M. Choudhary AECOM, Deputy Project Manager
K. Grueneis AECOM, Senior Environmental Planner

Encl. Notice

PIC No. 1 Material



MIDLAND WATERWORKS MASTER PLAN UPDATE

Municipal Class Environmental Assessment

PUBLIC INFORMATION CENTRE NO. 1

(online presentation)

WELCOME!



- The Town of Midland has initiated an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes.
- The proposed Master Plan Update will provide a comprehensive, cost effective, and sustainable water servicing infrastructure plan for the next 20 years.
- The Town has initiated several other studies that include a Wastewater Master Plan, Transportation Master Plan, Parks Master Plan and Official Plan Update. Water servicing infrastructure improvements will give consideration to the aforementioned studies to make certain that servicing infrastructure can accommodate future growth.
- Consultation is a key part of the Class EA process. The Town is seeking input from the public and other interested parties regarding this project.
- Please review the material and be sure to complete the Water User Questionnaire and the PIC 1 Comment Sheet provided.

This presentation will:

- ✓ Introduce the project and provide background information;
- ✓ Explain the Municipal Class Environmental Assessment (Class EA) process and the Master Plan approach;
- ✓ Describe the rationale for the update;
- ✓ Identify the deficiencies affecting the existing system; and
- ✓ Present possible solutions or strategies that will be formally presented at PIC #2.





MUNICIPAL CLASS EA PROCESS

- The Town must meet the requirements of Ontario's Environmental Assessment (EA) Act for infrastructure projects.
- This Study requires completion of Phases 1 (Problem/Opportunity Statement) and 2 (Alternative Solutions) of the Class EA process. We are currently in Phase 2.
- At the end of the EA process, a Master Plan Update Report will be prepared for public review and comment to document the planning process followed.

Phase 1: Problem or Opportunity Statement

Identify problem or opportunity

We are here!

- Online PIC 1 available (February 6, 2019)
- Water User Questionnaire & Comment Sheet

- The Master Plan will be filed under Approach #2 of the MEA Class EA Approach for Master Planning.
- The Master Plan Update will meet the planning requirements for Schedule A, A+ and select Schedule B projects and provide the basis for future investigations of identified Schedule B and C projects.

Phase 2: Alternative Solutions

Identify alternative solutions to problem or opportunity

Inventory natural, cultural and socio-economic environment

Consult the public, agencies and other stakeholders regarding problem or opportunity, existing and future conditions and high level alternative solutions

Identify impacts of alternative solutions on the environment and mitigating measures

Evaluate alternative solutions and identify recommended solutions

Consult the public, agencies and other stakeholders regarding the recommended solutions and strategies

Select preferred solutions

Master Plan Update Report placed on public record

Notice of Completion issued for Schedule 'B' Projects, 30 Day Review Period

Implementation

Complete drawings and documents

Proceed to construction and operation

Monitor for environmental provisions and commitments

PIC 2 (Date to Be Confirmed)

PROBLEM STATEMENT



PROBLEM:

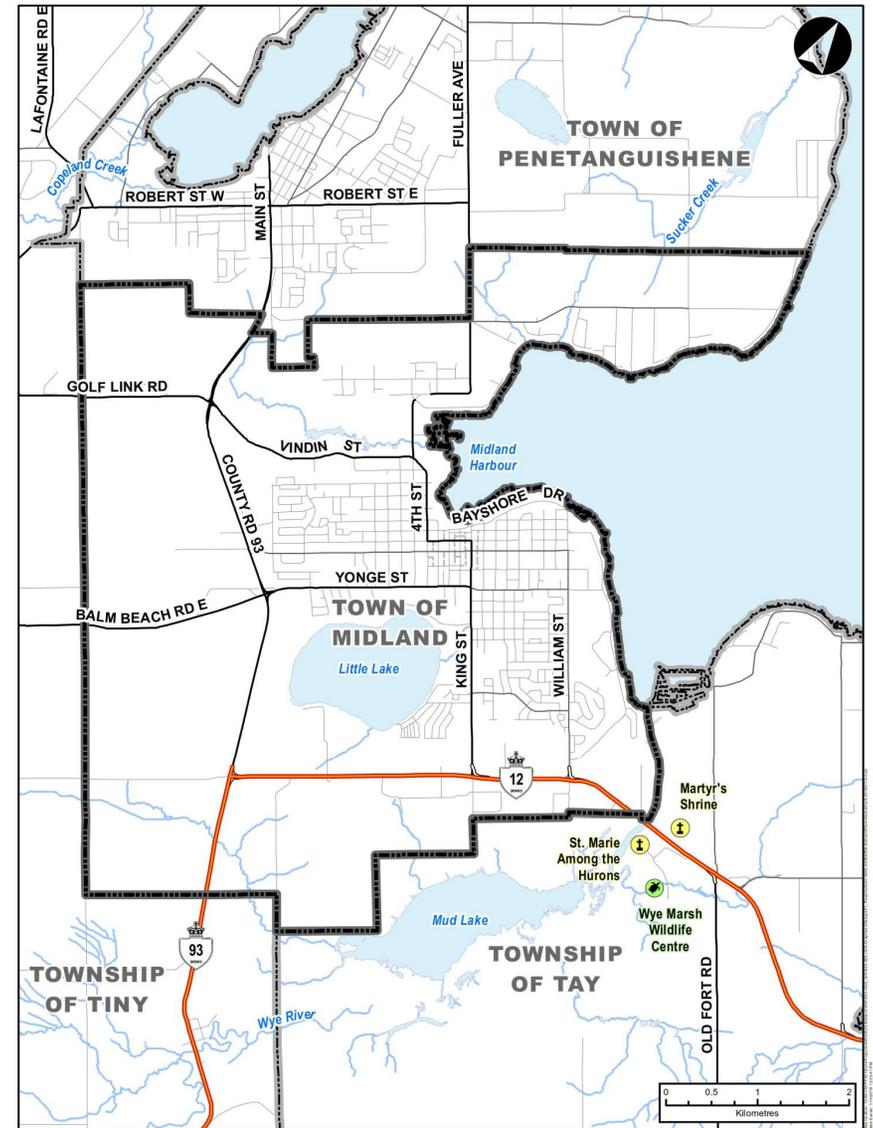
Moderate near and long term growth is expected in the Town of Midland. As such, there is a need for improving water production/supply and servicing in a sustainable manner that can be logically phased. Additional infrastructure and improvements to the existing system must be in place in a timely and orderly manner to service approved growth. A detailed cost phasing and implementation plan is required to allow the Town to develop a capital works program and budget.

OPPORTUNITIES:

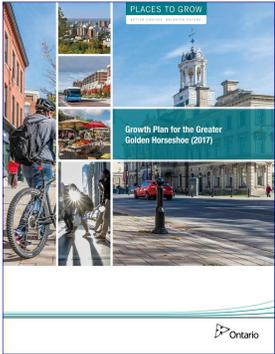
To develop a water utility-infrastructure master plan or "road map" that will support future capital works planning and funding opportunities and meet the needs of existing and future water customers.

PROJECT STUDY AREA

- The Town of Midland water system (groundwater based) serves approximately 5,400 residential and commercial customers and also supplies potable water for approximately 475 fire hydrants.
- The Project Study Area encompasses the entire limits of the Town of Midland, as illustrated in the adjacent study map.
- Since the Town of Midland also provides water services to Sainte-Marie Among the Hurons, Wye Marsh Wildlife Centre, and the Martyrs' Shrine this portion of the neighboring Township of Tay will also be included in the study area.



ANTICIPATED GROWTH



- The Town of Midland is identified as a Primary Urban Settlement Area in the Growth Plan for the Greater Golden Horseshoe (2017) and is therefore anticipating continued growth and development in the community.
- The existing population of Midland is approximately 16,864. The Province of Ontario, through its Growth Plan for the Greater Golden Horseshoe (2017), has allocated a population for the Town of Midland of 22,500 with 1,800 new jobs by the year 2031.
- Given the growth anticipated for the municipality, it will be important that the municipal servicing infrastructure can sufficiently accommodate the demand required.

The table below illustrates the population forecasts and employment projections for the Town of Midland for the next 20 years.

Population and Employment Forecasts
for the Town of Midland

Town of Midland	2006	2031	2036*	2041*
Population Forecasts	16,900	22,500	24,663	26,881
Employment Projections	12,000	13,800	15,127	18,487

*Note: The 2036 and 2041 forecasts are estimates only and have not been allocated by the County of Simcoe.

- A population trends and comparative analysis completed by the Town in January 2018 determined that growth in the municipality has been slow and steady over the past 15 years.
- It also revealed that the population of Midland is aging with those over the age of 65 now representing 25.17% of the total population, which is an increase of almost 7% from 2001.

PLANNED DEVELOPMENT



In accordance with the Growth Plan for the Greater Golden Horseshoe (2017), Settlement Areas shall be the focus of population and employment growth.



Settlement Area:

The Town of Midland Settlement Area boundary is aligned with the municipal boundary as illustrated in the adjacent map.



Draft Plans:

This layer as shown identifies lands that are subject to Draft Plan approval and that will eventually be developed in the near future. The areas as shown include those currently under review and those that have been approved.



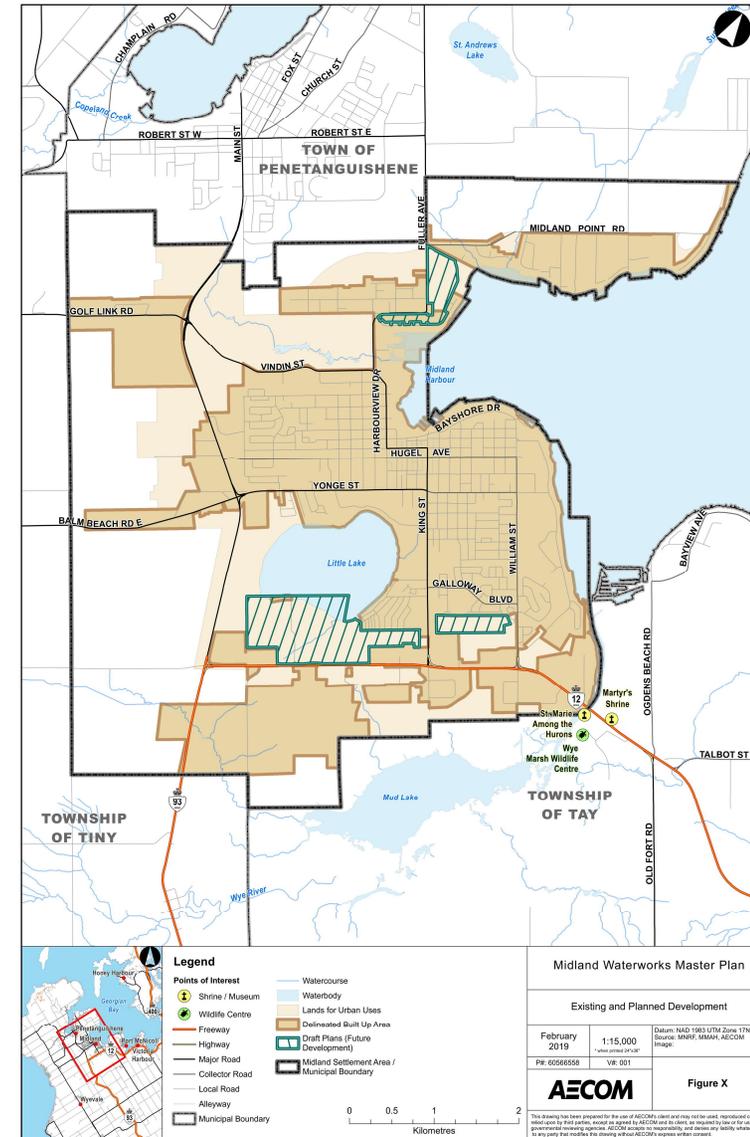
Delineated Built-Up Area:

This layer as shown represents the concentrated developed area and includes vacant lands or lands where intensification could occur. Within settlement areas, growth is to be focused in the Delineated Built-up Areas. (Growth Plan, S. 2.2.1 c)).



Lands for Urban Uses:

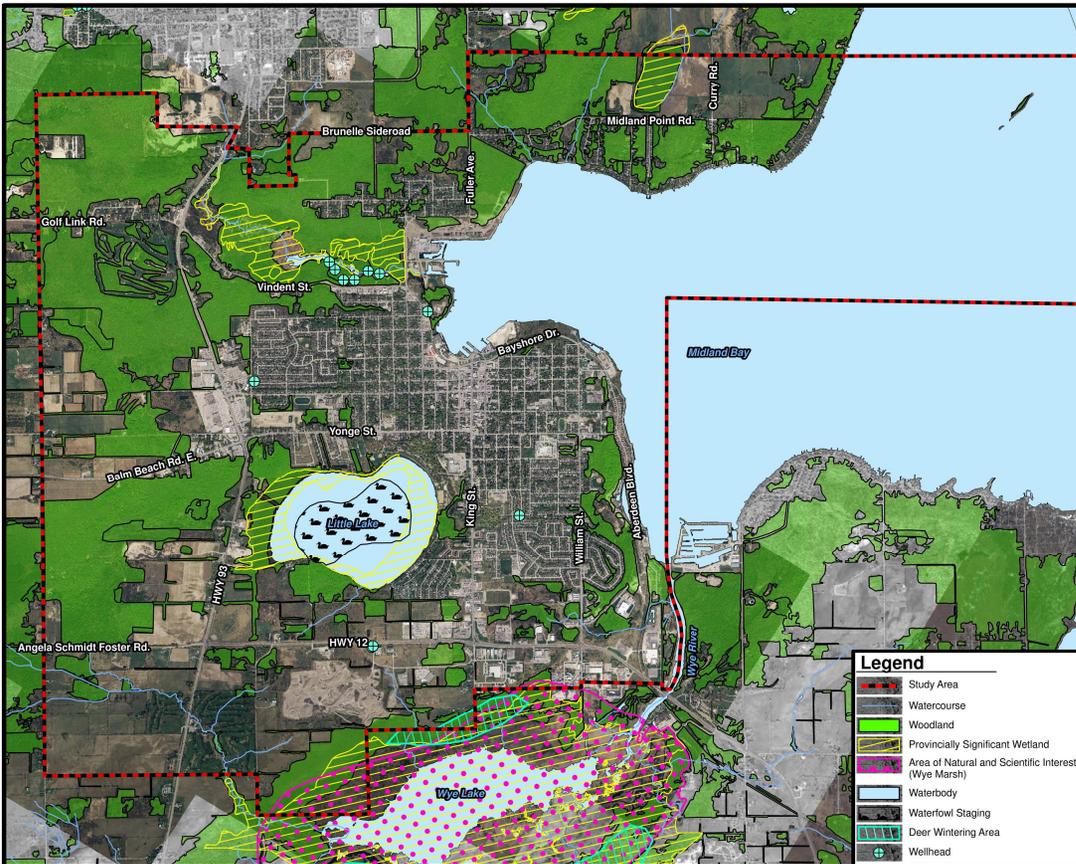
The County of Simcoe Official Plan defines Lands for Urban Uses as lands that are not designated for agricultural uses or rural uses within the settlement area. The Lands for Urban Uses as shown represents greenfield lands / developable lands. Greenfield Areas are lands within settlement areas (outside of the Delineated Built-up Areas) that have been designated for development in the Town's Official Plan.



EXISTING CONDITIONS: NATURAL ENVIRONMENT



As part of the Class EA process, the existing conditions within the study area environment (technical, natural, socio-economic and cultural) are inventoried to identify any areas of potential constraint.



(Source: Official Plan Review Planning Issue #1 Natural & Cultural Heritage, The Planning Partnership, August 2012).

NATURAL ENVIRONMENT

- Natural heritage features present within the study area include:
 - Woodlands, (i.e. deciduous / mixed forest and conifer plantations);
 - Several Provincially Significant Wetlands;
 - An Area of Natural and Scientific Interest (i.e. Wye Marsh Regional Life Science ANSI);
 - Waterfowl Staging Area (i.e. Little Lake & Wye Marsh); and
 - Deer Wintering Area (i.e. Wye Marsh).
- The Town of Midland abuts Georgian Bay and there is a small lake (Little lake) and several watercourses that include the Wye River and Sucker Creek located within the area of study.
- Significant groundwater recharge areas as well as a sensitive aquifer and a number of drinking water wells are also present. The Town of Midland is subject to the South Georgian Bay Lake Simcoe Source Protection Plan.
- The natural heritage features present within the study area may provide habitat for terrestrial and aquatic species, including Species at Risk protected under the Endangered Species Act.
- There is the potential for Species at Risk vegetation (i.e. Butternut Tree) to be present within the vegetated areas. Several Provincially rare plant species (i.e. S-2 and S-3 rank) may also be found within the wetland and aquatic habitats.
- This project is not located within the Greenbelt Area, the Oak Ridges Moraine Area or the Niagara Escarpment Plan Area.

The Project Team uses this information when reviewing alternative solutions including the siting and operation of municipal water infrastructure.

EXISTING CONDITIONS: SOCIO-ECONOMIC & CULTURAL



CULTURAL ENVIRONMENT

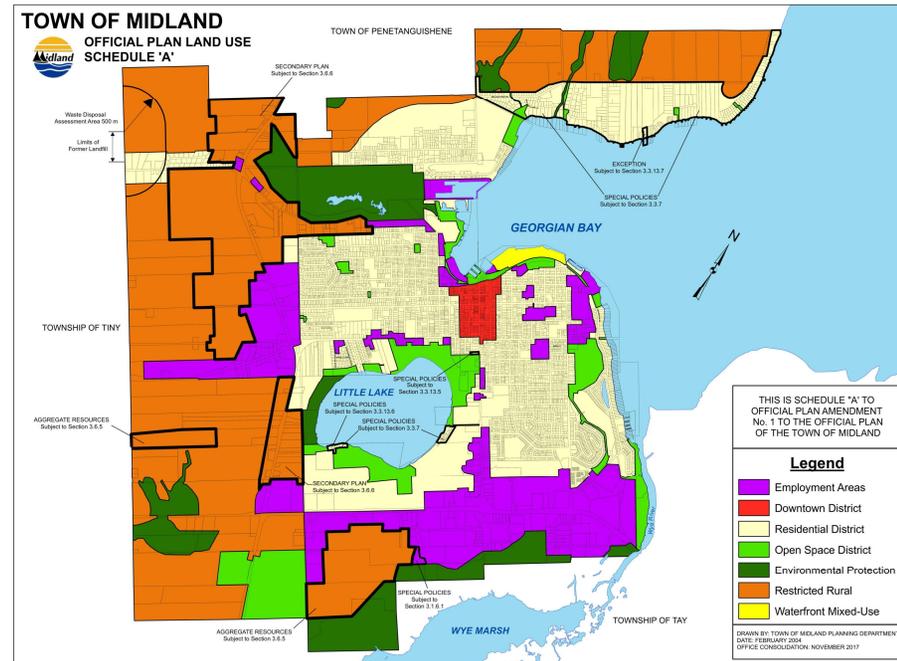
Built Heritage and Cultural Heritage Landscapes:

Within the area of study there are a number of properties designated under the Ontario Heritage Act as identified below:

- Hillside Home at 310 Fifth Street
- Midland Public Library at 320 King Street
- Heritage Animal Hospital at 687 King Street
- Letherby House at 4225 King St.
- William Wilson Cemetery at 17007 Highway 12
- Drummond Wall at 353 Fuller Avenue

Archaeological:

- The County of Simcoe has initiated an Archaeological Management Plan (AMP) with the intent of identifying, protecting, and conserving the archaeological features within the County, which includes the Town of Midland.
- Parts of the study area may exhibit archaeological potential and other areas may not given previous deep and extensive land disturbance or low and wet conditions.
- Areas of archaeological potential may warrant localized analysis if there is the potential for impact from the proposed improvements.



(Source: Town of Midland Official Plan, January 2017).

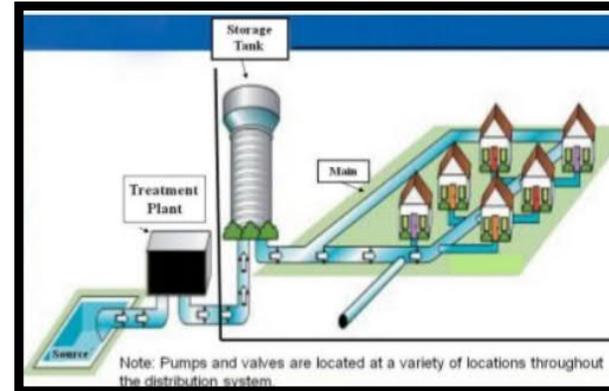
SOCIO-ECONOMIC ENVIRONMENT

- Land use designations within the area of study are identified in the above Land Use map taken from the Town of Midland Official Plan.
- An Official Plan Review (OPR) is currently underway and is expected to be completed in the spring of 2019. The OPR is giving consideration to a number of factors that will include waterfront development, downtown revitalization and active transportation.
- The Town of Midland is situated on the shores of Georgian Bay and is a popular tourist destination.
- Sainte-Marie Among the Hurons, the Wye Marsh Wildlife Centre, and the Martyrs' Shrine are also located in proximity and provide economic benefit to the community.

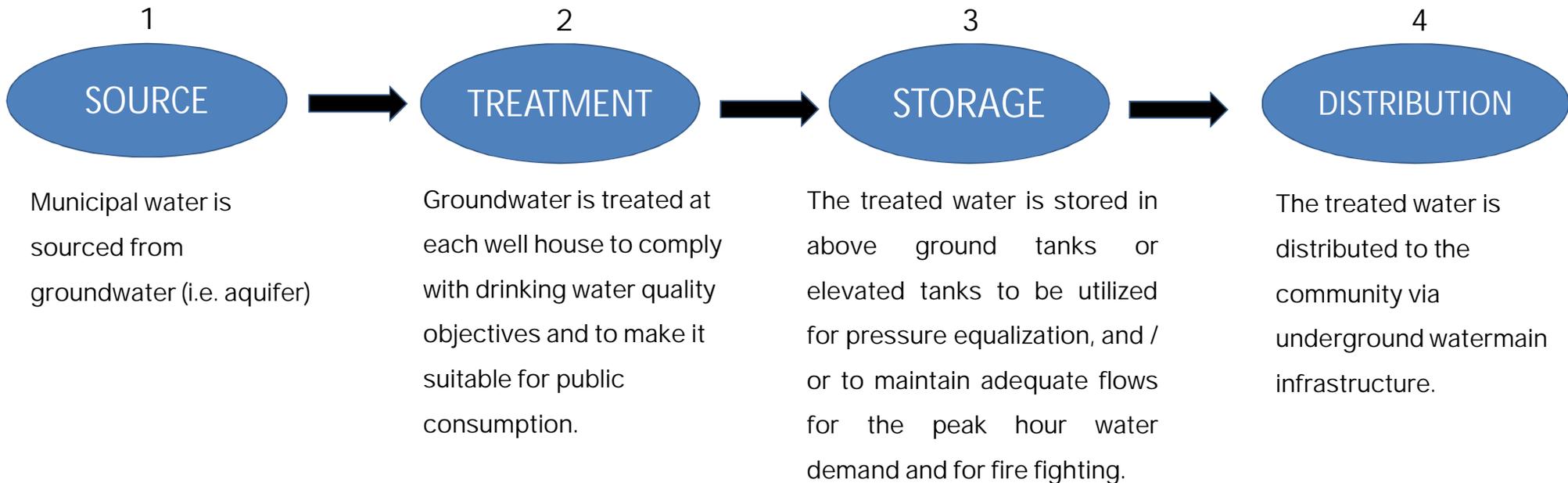
COMPONENTS OF A MUNICIPAL WATER SYSTEM



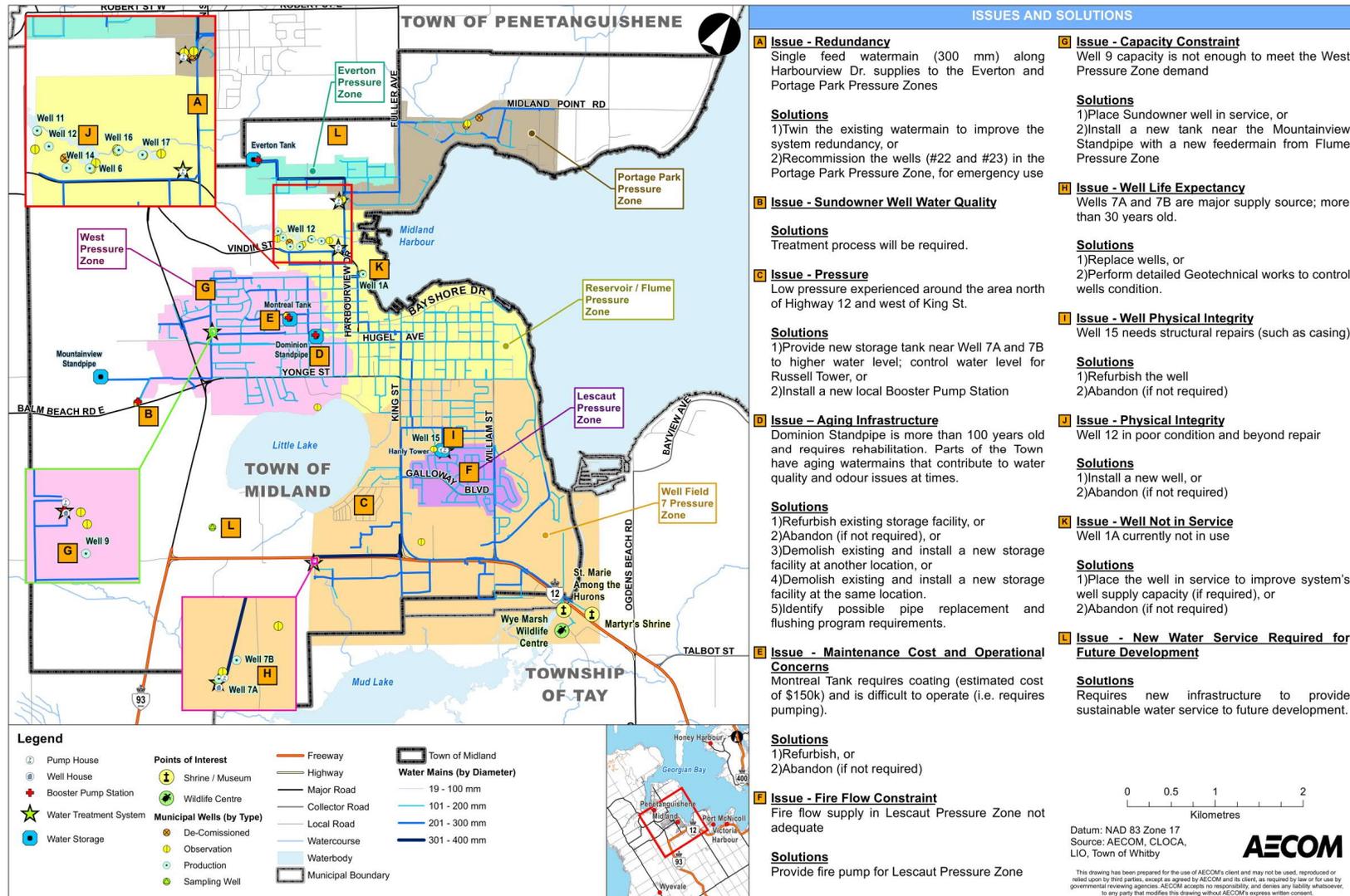
The Town of Midland municipal water system is comprised of four main components as follows:



(Source: LinkedIn Learning, Hydraulics Chapter 4, Dr. Siddique).



EXISTING ISSUES AND POTENTIAL SOLUTIONS



Note: The above potential solutions are preliminary only. The formal Alternative Solutions under consideration for this project will be presented for public review and comment at a second Public Information Centre at to be scheduled at a future date.

EVALUATION CRITERIA



Draft criteria have been identified that will be used to evaluate and select the preferred alternative.

Tell us what you think!

Are there other evaluation criteria that have been missed and should be considered?

(Please fill out the Comment Sheet).

	Factor	Criteria
	Land Use	<ul style="list-style-type: none"> Conformance with approved local, regional and provincial plans and policies Potential effects on approved / planned land uses Current and future operations of the land including future development plans
	Technical	<ul style="list-style-type: none"> Potential compatibility with system - requirement for system upgrades Potential constructability and minimum utility conflicts Ability to meet long-term water servicing requirements including flow, pressure and fire flow for the servicing area Potential for project to impact climate change and for climate change to impact the project
	Natural Environment	<ul style="list-style-type: none"> Potential effects on terrestrial species (fauna and flora) and habitat Potential effects on aquatic species and habitat Potential effects on Species at Risk (SAR) and SAR habitat Potential effects on surface water and groundwater Potential to encounter soil and water contamination
	Socio-economic	<ul style="list-style-type: none"> Potential effects related to disruption to residences, businesses and travelling public during construction Degree of property acquisition / easement requirements Potential effects on recreational spaces / institutional / community facilities Potential effects on noise and vibration on sensitive receptors
	Cultural Environment	<ul style="list-style-type: none"> Potential effects on archaeological resources Potential effects to built heritage resources and cultural heritage landscapes
	Cost	<ul style="list-style-type: none"> Cost of construction (including property acquisition) Cost of operations / maintenance

NEXT STEPS



- The Project Team will review the comments received in response to this online presentation, including the Water User Questionnaire. Deficiencies affecting the system will be confirmed.
- Alternative Solutions will be developed to address the identified deficiencies and to optimize the system in general.
- A second PIC will be scheduled at a future date to present the alternative solutions under consideration and to provide opportunity for the public to meet the Project Team and to ask questions. Advance notification will be provided.



We Want to Hear From You!

- We invite you to please complete the attached Water User Questionnaire and identify any observed deficiencies with the current system such as pressure, odour, colour, and taste or any other issue that you feel is pertinent. Please also feel free to complete a PIC No. 1 Comment Sheet.
- Your input is appreciated and will assist the Project Team in defining any issues with the current water system and in developing appropriate solutions.
- Please submit the completed Questionnaire and / or Comment Sheet to the municipality by February 22, 2019 to either of the following members of the Study Team:

Chuck Fiddy
Manager
Town of Midland
200 Bay Street
Midland, ON L4R 1J5
Tel: 705-526-4268 Ext. 4202
Fax: 705-528-6072
Email: cfiddy@midland.ca

Andrea Potter, B.E.S.
Senior Environmental Planner
AECOM
55 Cedar Pointe Drive, Suite 620
Barrie, ON L4N 5R7
Tel: 705-797-3278
Fax: 705-734-0764
Andrea.Potter@aecom.com

Questionnaire & Comment Sheet



WATER USER SURVEY QUESTIONNAIRE

We want to hear from you! The Town of Midland has initiated an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes. This proposed update to the existing Waterworks Master Plan will provide a comprehensive water servicing infrastructure plan for the community for the next 20 years. This questionnaire has been prepared to solicit input regarding the Town's municipal water system. Your input is important and will assist the Project Team in defining any issues with the current water system and in developing appropriate solutions.

Please Print Your Name and Contact Information Below:

Name:			
Address:			
Telephone:		Email:	
Check the box below for your water consumption type:			
Single Family Residence:		<input type="checkbox"/>	
Multi Family Residence (townhouse/apartments):		<input type="checkbox"/>	
Commercial:		<input type="checkbox"/>	
Institutional:		<input type="checkbox"/>	
Industrial:		<input type="checkbox"/>	
Other:		<input type="checkbox"/>	

Please complete this Questionnaire by answering the specific questions below and / or identify any other issues that you have noticed with the current water supply.

Have you noticed an odour with your drinking water? If yes, please describe.

YES	NO	
<input type="checkbox"/>	<input type="checkbox"/>	

Have you noticed any issues with water pressure? If yes, please describe.

YES	NO	
<input type="checkbox"/>	<input type="checkbox"/>	

Have you observed any issues with the colour of your drinking water? If yes, please describe.	
YES <input type="checkbox"/>	
NO <input type="checkbox"/>	

Have you noticed any changes in the taste of your drinking water? If yes, please describe.	
YES <input type="checkbox"/>	
NO <input type="checkbox"/>	

Is your water use metered?		
YES <input type="checkbox"/>	NO <input type="checkbox"/>	
	<input type="checkbox"/> One meter for indoor and outdoor water use.	<input type="checkbox"/> One meter for indoor use and a second meter for outdoor use.

Number of people living in your household.			
Over 19 years of age:	_____	From 4 to 12 years of age:	_____
From 13 to 18 years of age:	_____	Less than 4 years of age:	_____

Are you concerned about the quality of your water? (Please check all that apply)		
YES <input type="checkbox"/>	NO <input type="checkbox"/>	Other (Please specify) <input type="checkbox"/>

COMMENT SHEET

Online Public Information Centre #1
February 2019

MIDLAND WATERWORKS MASTER PLAN UPDATE MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

We want to hear from you! The Town of Midland has initiated an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes. This proposed update to the existing Waterworks Master Plan will provide a comprehensive water servicing infrastructure plan for the community for the next 20 years. Thank you for visiting the online Public Information Centre #1 for the Midland Waterworks Master Plan Update Municipal Class Environmental Assessment (EA). We value your feedback. By filling out this comment sheet your feedback and insights about the EA Study will be documented and considered.

Please Print Your Name and Contact Information Below:

Name:			
Address:			
Telephone:		Email:	

1. How would you prefer to receive information in the future?

- Regular mail I do not wish to receive further information
 E-mail

2. Did you find the information provided online helpful and informative?

- Yes No

If not, what additional information would you like to receive?

3. Do you have any comments on the study's problems and opportunities (i.e. water quality aesthetics, growth in the study area, etc.)?



COMMENT SHEET

Online Public Information Centre #1
February 2019

4. Do the evaluation criteria presented in the online presentation capture what is important to you and your community?

Yes No

a. Are there other evaluation criteria that have been missed and should be considered?

b. Are there any important features that we should consider as we proceed with the evaluation of the alternatives (e.g. any important natural, heritage or community features)?

5. General Comments: Please identify any other issues that you have observed with your current water supply. (Please print)

6. Would you like to complete a water user survey? If yes, please see website link to the water user questionnaire.

THANK YOU!



COMMENT SHEET

Online Public Information Centre #1
February 2019

MIDLAND WATERWORKS MASTER PLAN UPDATE MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

Please submit your written comments* before leaving the meeting or mail / email them in by February 22, 2019

Chuck Fiddy, Manager
Town of Midland – Water and Wastewater Services
200 Bay Street
Midland, ON L4R 1J5
Tel: 705-526-4268 Ext. 4202
Fax: 705-528-6072
Email: cfiddy@midland.ca

**Andrea Potter, Senior Environmental
Planner**
AECOM
55 Cedar Pointe Drive, Suite 620
Barrie, ON L4N 5R7
Tel: 705-797-3278
Fax: 705-734-0764
Andrea.Potter@aecom.com

** Under the Freedom of Information and Protection of Privacy Act and the Environmental Assessment Act, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and will be released, if requested, to any person.*



Comments Received / Response Provided

Potter, Andrea

From: Michael Johnston <michael.johnston@saugeenojibwaynation.ca>
Sent: February-07-19 11:08 AM
To: Hiles, Wendy
Subject: Re: 60593529-Midland Waterworks MP Update

Good morning Ms. Hiles,

Thank you for reaching out to us with this. Midland lies outside our Traditional Territory, so we have no interest in the ground works of the project and you may remove us from the distribution list.

We do, however, have a significant interest in the waters of Georgian Bay, which are an important part of our Indigenous commercial fishery. We may comment on the project in future should we feel it impacts the water quality or fish habitat of Georgian Bay.

Yours,

Michael Johnston
Manager, Saugeen Ojibway Nation Environment Office
25 Maadookii Subdivision
Neyaashiinigiing, ON N0H 2T0
Office: (519) 534 5507

On Thu, Feb 7, 2019 at 9:51 AM Hiles, Wendy <Wendy.Hiles@aecom.com> wrote:

Please find the attached notice for the above noted project.

Wendy Hiles
WATER, Greater Toronto Area Metro
D +705-797-3284

Cisco 3293284
wendy.hiles@aecom.com

AECOM
55 Cedar Pointe Drive
Suite 620
BARRIE, ON L4N 5R7
T +705-721-9222 F+705-734-0764
aecom.com

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Potter, Andrea

From: Potter, Andrea
Sent: February-22-19 2:12 PM
To: 'Melissa Carruthers'; 'cfiddy@midland.ca'
Cc: Julie Cayley; Aisha Chiandet; Andy Campbell (acampbell@midland.ca); Wesley Crown (wcrown@midland.ca); Grueneis, Karl; Provencal, Randy; Wan, Benny
Subject: RE: Waterworks Services Master Plan comments
Attachments: 60593529 Midland MP PIC No. 1 Comment Sheet FINAL Jan-25-2019 _SSEAcommen....pdf

Hello Ms. Caruthers,

Thank you for participating in this process. We appreciate your input and we will continue to keep you informed as we proceed.

Andrea Potter, B.E.S.
Senior Environmental Planner, Planning and Permitting
D +1-705-797-3278
andrea.potter@aecom.com

AECOM
55 Cedar Pointe Drive
Barrie, ON L4N 5R7, Canada
T +1-705-721-9222
aecom.com

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From: Melissa Carruthers [<mailto:MCarruthers@severnsound.ca>]
Sent: February-22-19 1:57 PM
To: 'cfiddy@midland.ca'; Potter, Andrea
Cc: Julie Cayley; Aisha Chiandet
Subject: Waterworks Services Master Plan comments

Hi Chuck and Andrea,

Please see attached comments regarding the Public Information Centre #1 for the Midland Waterworks Master Plan Update Municipal Class Environmental Assessment. If you have any questions, please don't hesitate to contact me.

Thank you

Melissa Carruthers
Risk Management Official / Risk Management Inspector

Severn Sound Environmental Association
489 Finlayson St, P.O. Box 460, Port McNicoll, ON L0K 1R0

COMMENT SHEET

Online Public Information Centre #1
February 2019

MIDLAND WATERWORKS MASTER PLAN UPDATE MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

We want to hear from you! The Town of Midland has initiated an update to the existing Waterworks Services Master Plan (2013) to reflect growth in the community, planned development, and operational changes. This proposed update to the existing Waterworks Master Plan will provide a comprehensive water servicing infrastructure plan for the community for the next 20 years. Thank you for visiting the online Public Information Centre #1 for the Midland Waterworks Master Plan Update Municipal Class Environmental Assessment (EA). We value your feedback. By filling out this comment sheet your feedback and insights about the EA Study will be documented and considered.

Please Print Your Name and Contact Information Below:

Name:	Severn Sound Environmental Association (SSEA)		
Address:	489 Finlayson Street, Port McNicoll ON L0K 1R0		
Telephone:	705-534-7283	Email:	mcarruthers@severnsound.ca

1. How would you prefer to receive information in the future?

- Regular mail I do not wish to receive further information
 E-mail

2. Did you find the information provided online helpful and informative?

- Yes No

If not, what additional information would you like to receive?

3. Do you have any comments on the study's problems and opportunities (i.e. water quality aesthetics, growth in the study area, etc.)?

The Town of Midland should be commended on being forward thinking to ensure safe, clean, and abundant water can be provided to your residents for the next 20 years and beyond. When deciding on solutions to the highlighted problems, it is recommended requirements under the Safe Drinking Water Act, 2002, O. Reg. 205/18 and the Clean Water Act, 2006, s.48(1.1) (b), O.Reg. 287/07 are considered, to ensure adequate timing and financial resources are allotted to the project. The SSEA welcomes the opportunity to work with the Town of Midland and provide comments as the EA process continues.



COMMENT SHEET

Online Public Information Centre #1
February 2019

4. Do the evaluation criteria presented in the online presentation capture what is important to you and your community?

Yes No

a. Are there other evaluation criteria that have been missed and should be considered?

b. Are there any important features that we should consider as we proceed with the evaluation of the alternatives (e.g. any important natural, heritage or community features)?

5. General Comments: Please identify any other issues that you have observed with your current water supply. (Please print)

6. Would you like to complete a water user survey? If yes, please see website link to the water user questionnaire.

THANK YOU!



COMMENT SHEET

Online Public Information Centre #1
February 2019

MIDLAND WATERWORKS MASTER PLAN UPDATE MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

Please submit your written comments* before leaving the meeting or mail / email them in by February 22, 2019

Chuck Fiddy, Manager
Town of Midland – Water and Wastewater Services
200 Bay Street
Midland, ON L4R 1J5
Tel: 705-526-4268 Ext. 4202
Fax: 705-528-6072
Email: cfiddy@midland.ca

**Andrea Potter, Senior Environmental
Planner**
AECOM
55 Cedar Pointe Drive, Suite 620
Barrie, ON L4N 5R7
Tel: 705-797-3278
Fax: 705-734-0764
Andrea.Potter@aecom.com

** Under the Freedom of Information and Protection of Privacy Act and the Environmental Assessment Act, unless otherwise stated in the submission, any personal information such as name, address, telephone number and property location included in a submission will become part of the public record files for this matter and will be released, if requested, to any person.*



P (705) 534-7283 ext. 205 / **Fax** (705) 534-7459

MCarruthers@severnsound.ca | www.severnsound.ca | [@SSEA SSRAP](#)

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Potter, Andrea

From: Potter, Andrea
Sent: March-04-19 3:42 PM
To: Stephen O'Reilly
Cc: Andre Pepin (apepin@midland.ca); Andy Campbell (acampbell@midland.ca); Chuck Fiddy (cfiddy@midland.ca); Mitch Sobil (msobil@midland.ca); Shawn Berriault (sberriault@midland.ca); Wesley Crown (wcrown@midland.ca); Grueneis, Karl; Provencal, Randy; Wan, Benny; Chaymann, Semyon; Choudhary, Mukesh
Subject: Midland Waterworks Master Plan Update - 1165 Brunelle Side Road File No. 60593529

Hello Mr. O'Reilly,

Thank you for your comment regarding the above noted Master Plan Update.

As requested, we have added you to the project contact list so that you will receive all future notifications regarding the project. For additional background information, please go to the project website at the link below....

https://www.midland.ca/Pages/Waterworks_Master_Plan.aspx

We have made note of the property at 1165 Brunelle Side Road that you identified in your email as having the potential to be impacted by the study. We will give this consideration as we proceed through the process and will contact you for further discussion, as necessary.

Please note that we will be scheduling a second Public Information Centre in the coming months that will provide an opportunity to discuss the project further with members of the study team who will be in attendance. Advance notification regarding PIC No. 2 will be provided.

In the meantime, if you have any further questions or concerns, please feel free to give me a call. We appreciate your input and we will continue to keep you informed as we proceed.

Thanks.

Andrea Potter, B.E.S.
Senior Environmental Planner, Planning and Permitting
D +1-705-797-3278
andrea.potter@aecom.com

AECOM
55 Cedar Pointe Drive
Barrie, ON L4N 5R7, Canada
T +1-705-721-9222
aecom.com

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From: Provencal, Randy
Sent: March-04-19 12:44 PM
To: Potter, Andrea
Subject: FW: Midland water waste water master study

Andrea;

Can you review and add to PIC distribution?

Randy

Randy Provencal, P. Eng

Manager, Barrie Office
Ontario East
D: 705.797.3277 C: 705.333.0709
Randy.Provencal@aecom.com

AECOM

55 Cedar Pointe Drive, Suite 620
Barrie, ON L4N 5R7
T 705.721.9222 F 705.734.0764
www.aecom.com

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Please consider the environment before printing this page.

From: O'Reilly, Stephen [mailto:Stephen.OReilly@am.jll.com]
Sent: Monday, March 04, 2019 12:37 PM
To: Provencal, Randy
Subject: Midland water waste water master study

Hi Randy

Your contact information was given to us by Angela Zhao of the Town of Midland

JLL has a listed of a property for sale in Midland, 1165 Brunelle Side Road. The property will be impacted by the study.

We would like to be added to contact lists for notification of public hearings and documents as they become available.

Please advise of any additional steps required to ensure we are in the loop.

Thanks

Stephen O'Reilly

Vice President/Sales Representative
Tenant Representation Group
Jones Lang LaSalle
Bay Adelaide East,
22 Adelaide Street West, Suite 2600,
Toronto, ON M5H 4E3.

tel +1 416-238-4421 cell +1 416-219-1140

Stephen.OReilly@am.jll.com

www.jll.com

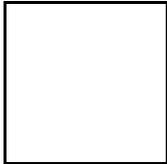
*Sales Representative

<image001.jpg>



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Potter, Andrea

From: Brian Goodreid <goodreidplanninggroup@gmail.com>
Sent: March-12-19 3:11 PM
To: Potter, Andrea
Cc: V Kota
Subject: Fwd: Master Servicing Study - Town of Midland

Hi Andrea,

Further to our discussion we are forwarding an email that was sent to the Town of Midland last month regarding the Master Servicing Study currently underway.

Our Client, Veeran Kota and I have recently met with County of Simcoe planning personnel and Town of Midland planning and engineering personnel about preliminary development plans for the Brooklea property.

If you require further details please let me know.

Thanks,

Brian Goodreid, MCIP, RPP
Principal

GOODREID PLANNING GROUP
274 Burton Avenue
Suite 1201
Barrie, Ontario
L4N 5W4
P: 705-331-5717
F: 705-722-5660

----- Forwarded message -----

From: **Brian Goodreid** <goodreidplanninggroup@gmail.com>
Date: Fri, Feb 22, 2019 at 3:15 PM
Subject: Master Servicing Study - Town of Midland
To: <acampbell@midland.ca>
Cc: Wes Crown <wcrown@midland.ca>, V Kota <vkota@brookleagolf.com>

Mr. Campbell,

We are planners for the Brooklea Golf and Country Club (Mr. Veeran Kota).

The subject property is located at 8566 and 8567 Highway 93 in the Town Midland.

Our Client is interested in the Master Servicing Study currently underway in the Town of Midland particularly as it pertains to water, waste water and transportation planning for future land use development servicing and would appreciate being informed throughout the Study exercise.

As you will recall we did meet in recent months to talk in a preliminary fashion about future plans for the Brooklea Golf and Country Club property.

If you require anything further from our firm or Mr. Kota please do not hesitate to call or write.

Thank You,

Brian Goodreid, MCIP, RPP
Principal

GOODREID PLANNING GROUP
274 Burton Avenue
Suite 1201
Barrie, Ontario
L4N 5W4
P: 705-331-5717
F: 705-722-5660

Potter, Andrea

From: Brian Goodreid <goodreidplanninggroup@gmail.com>
Sent: March-15-19 2:42 PM
To: Potter, Andrea
Cc: Wes Crown; Thompson, Tiffany; Blake, Kaitlyn; V Kota
Subject: Fwd: Brooklea G&CC - Midland
Attachments: Memo re Brooklea 28-01-19.pdf; Concept SP - Final December 21, 2018.pdf

Andrea,

Further to our discussion and your query earlier today, we would advise that we met with the County of Simcoe and Town of Midland planning and engineering personnel on January 24, 2019 to discuss development options and servicing for the redevelopment of the Brooklea Golf and County Club.

Attached please a preliminary conceptual Site Plan looking at short/long term development options for commercial and residential land use of the subject properties. It was intended to outline broad land use patterns and possible servicing options on the subject properties for municipal consideration and feedback.

The development being contemplated by our client within the Town's settlement boundary depends on municipal water, sanitary and stormwater services being addressed through a master servicing plan exercise as well as land use policies being further addressed through changes to the Town's Official Plan. We expect to provide planning comments in the near future in respect to the Town's Official Plan Update upon the next version of the draft document being released for public review.

You will find an email from Wes Crown below with an attachment that provides his commentary on our meeting to all those who attended and participated in discussions. The Memo should be helpful to you in identifying the matters being considered. At present we are awaiting the planning comments from County personnel on potential development and servicing options under the PPS and the County Official Plan.

As you will find Wes Crown did provide a study list for advancing a development proposal for the subject properties.

Given file size please confirm receipt of our email so I know you received it.

If you have any questions or concerns, please do not hesitate to call.

Regards,

Brian Goodreid, MCIP, RPP
Principal

GOODREID PLANNING GROUP
274 Burton Avenue
Suite 1201
Barrie, Ontario
L4N 5W4
P: 705-331-5717

F: 705-722-5660

----- Forwarded message -----

From: **Wes Crown** <wcrown@midland.ca>

Date: Mon, Jan 28, 2019 at 3:26 PM

Subject: Brooklea G&CC - Midland

To: Kaitlyn Blake - County of Simcoe <Kaitlyn.Blake@simcoe.ca>, Thompson, Tiffany
<Tiffany.Thompson@simcoe.ca>

Cc: Brian Goodreid <goodreidplanninggroup@gmail.com>, Veeran Kota <vkota@brookleagolf.com>, Angela
Zhao <AZhao@midland.ca>

See attached.



MEMORANDUM

To: Kaitlyn Blake & Tiffany Thompson – County of Simcoe
From: Wes Crown
Cc: Brian Goodreid - Planner
Veeran Kota - Owner
Subject: **Brooklea Golf and Country Club (8567 & 8566 Highway 93)**
Date: January 28, 2019

Thank you again for meeting with the Town and representatives of Brooklea Golf and Country Club (Brooklea) on January 24th to discuss development plans and options for the subject properties in light of the current and emerging planning context for the area.

I have attached the slide deck that reviews the planning policy and use structure for the properties as set out in the Growth Plan, County OP and Town of Midland OP. As you will recall the property is split by Highway 12, with the East part having an area of 55 ha (135 acres), the West part having an area of 15 ha (35 acres) for a total land area of 70 ha (174 acres). The lands are located within the Settlement Area of the Town of Midland and within the Delineated Built-up Area and as such would be considered Lands for Urban Use. The lands are designated OPEN SPACE in the Town's Official Plan. The Owner is considering redevelopment opportunities considering the changing economics and demand for golf course in North America. Brian Goodreid, the Owner's Planning Consultant, provided via email a map showing the generalized development concept for the property.

As we discussed, the question of the servicing standards that would apply to the redevelopment of the property is the focus of the discussions and would drive the nature and form of the required planning applications. We advised that while master planning for water and wastewater infrastructure is now underway in Midland, there is no current capital servicing plans for the extension of full municipal services to the area and properties. Servicing is 1.5 kms away from Highway 12 & Beamish Road and 2.3 kms away from CR#93 and Yonge Street.

The Owner is considering a range of commercial and residential options for the property. The following outlines the servicing policy questions for your consideration:

1. Would the County support private communal servicing options for the lands?
2. Would the County support private on-site servicing options for the lands?
3. Would the County support private on-site servicing options for the lands for employment uses (commercial)?
4. Would the County support private on-site servicing options for the lands for residential uses?

5. Would the County support private on-site servicing options for the lands as an interim servicing strategy for either residential or employment uses?
6. What studies and/or reports would the County be looking for as part of a complete application to the Town.

I have provided below our listing of what we would anticipate requesting as part of the complete application for the lands.

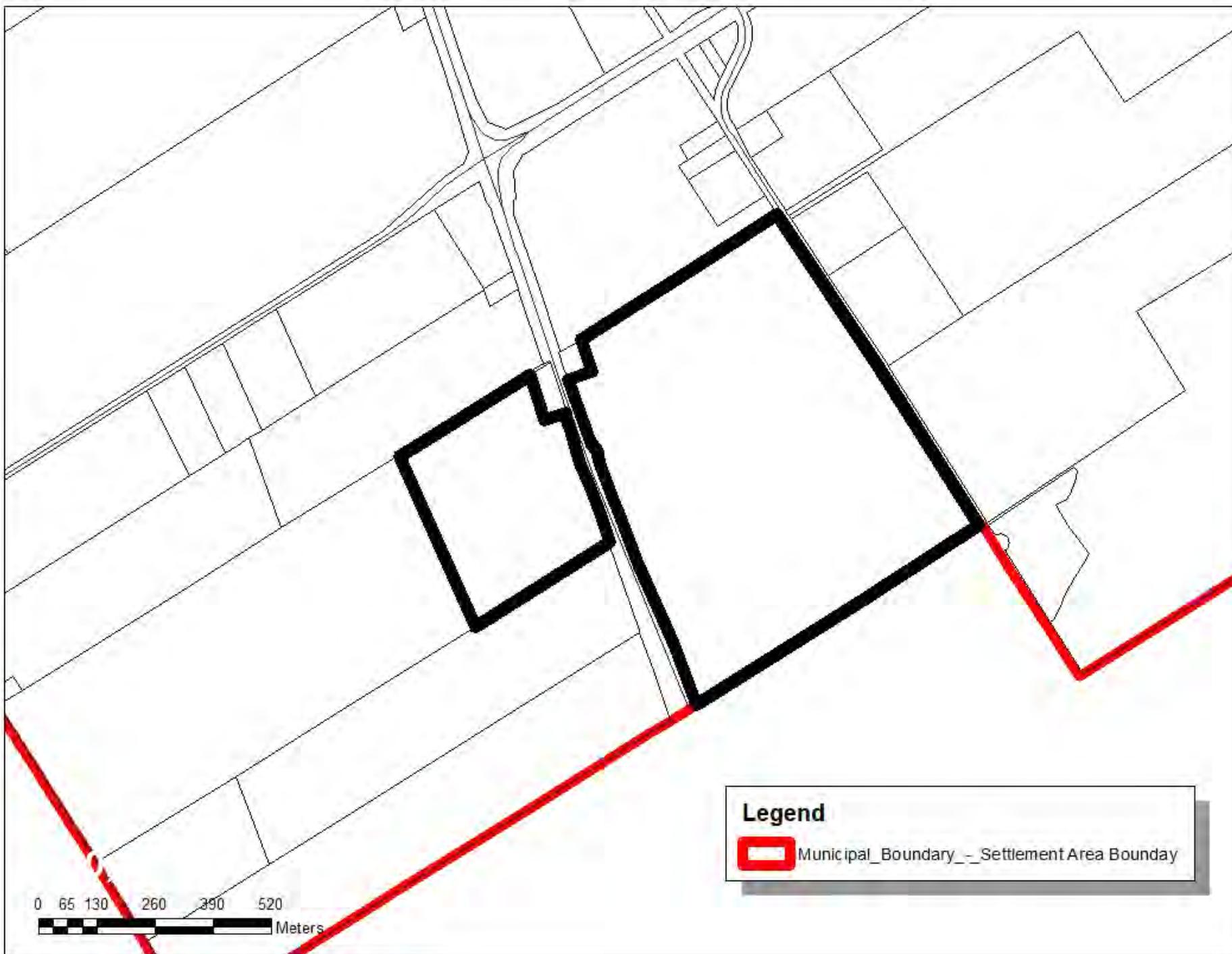
Table 1 – Other Information and Studies
1. CULTURAL HERITAGE RESOURCES
<ul style="list-style-type: none"> • Archaeological Assessment
2. PLANS AND DRAWINGS
<ul style="list-style-type: none"> • Site Plan or Concept Plan in accordance with Town requirements, including a digital submission • Subdivision Plan or Condominium Plan in accordance with Town requirements, including a digital submission
3. ENVIRONMENTAL/NATURAL HERITAGE/NATURAL HAZARDS
<ul style="list-style-type: none"> • Environmental Impact Study • Tree Preservation Plan/Enhancement Plan
4. SERVICING/INFRASTRUCTURE
<ul style="list-style-type: none"> • Municipal Water and Sanitary Sewer Servicing Feasibility Study • Preliminary Stormwater Management Report and Plan • Traffic Impact Study
5. LAND USE COMPATIBILITY
<ul style="list-style-type: none"> • Noise Impact Study
6. PLANNING
<ul style="list-style-type: none"> • Planning Justification Report

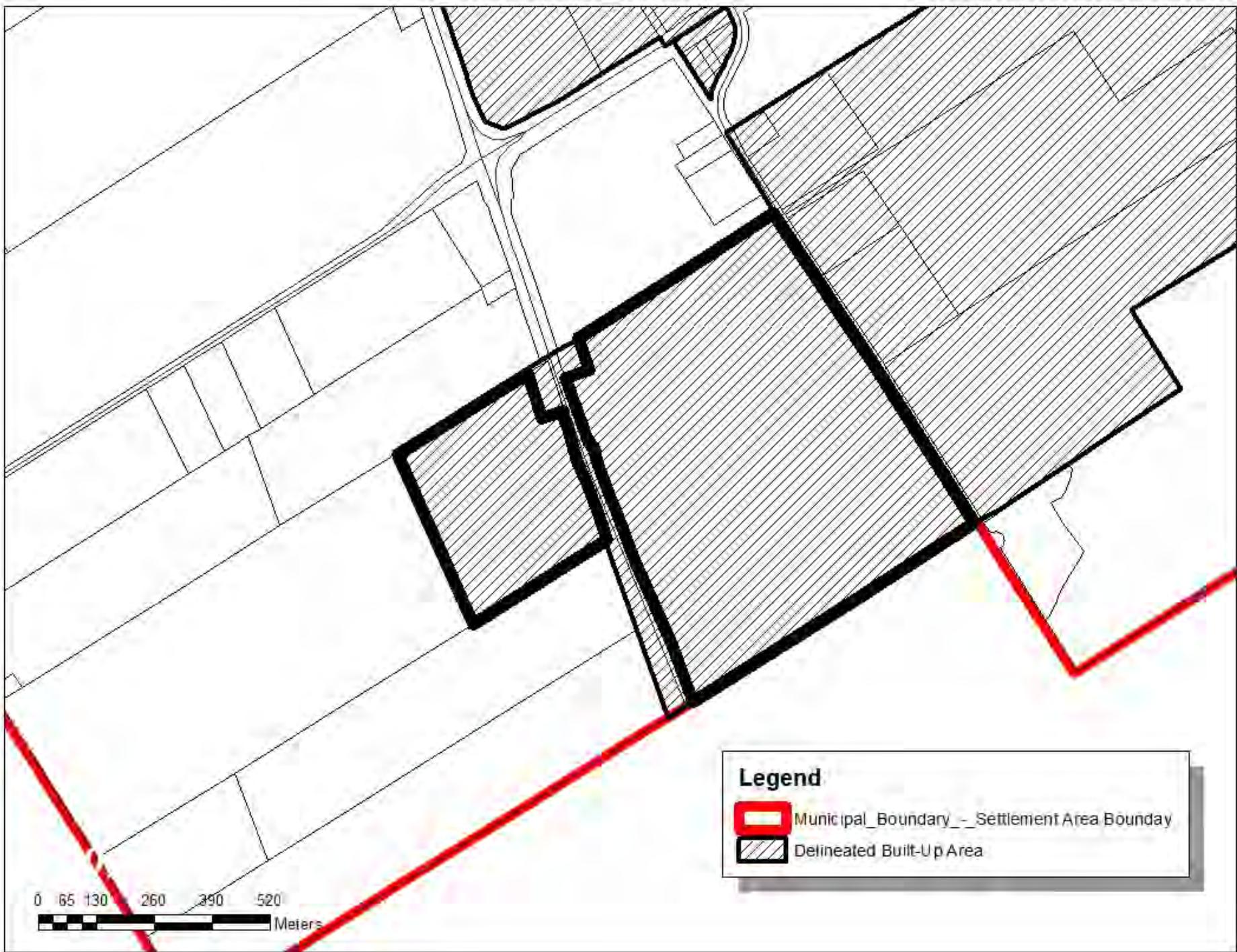
We look forward to your responses and advice. If you have any questions, please give me a call at any time.

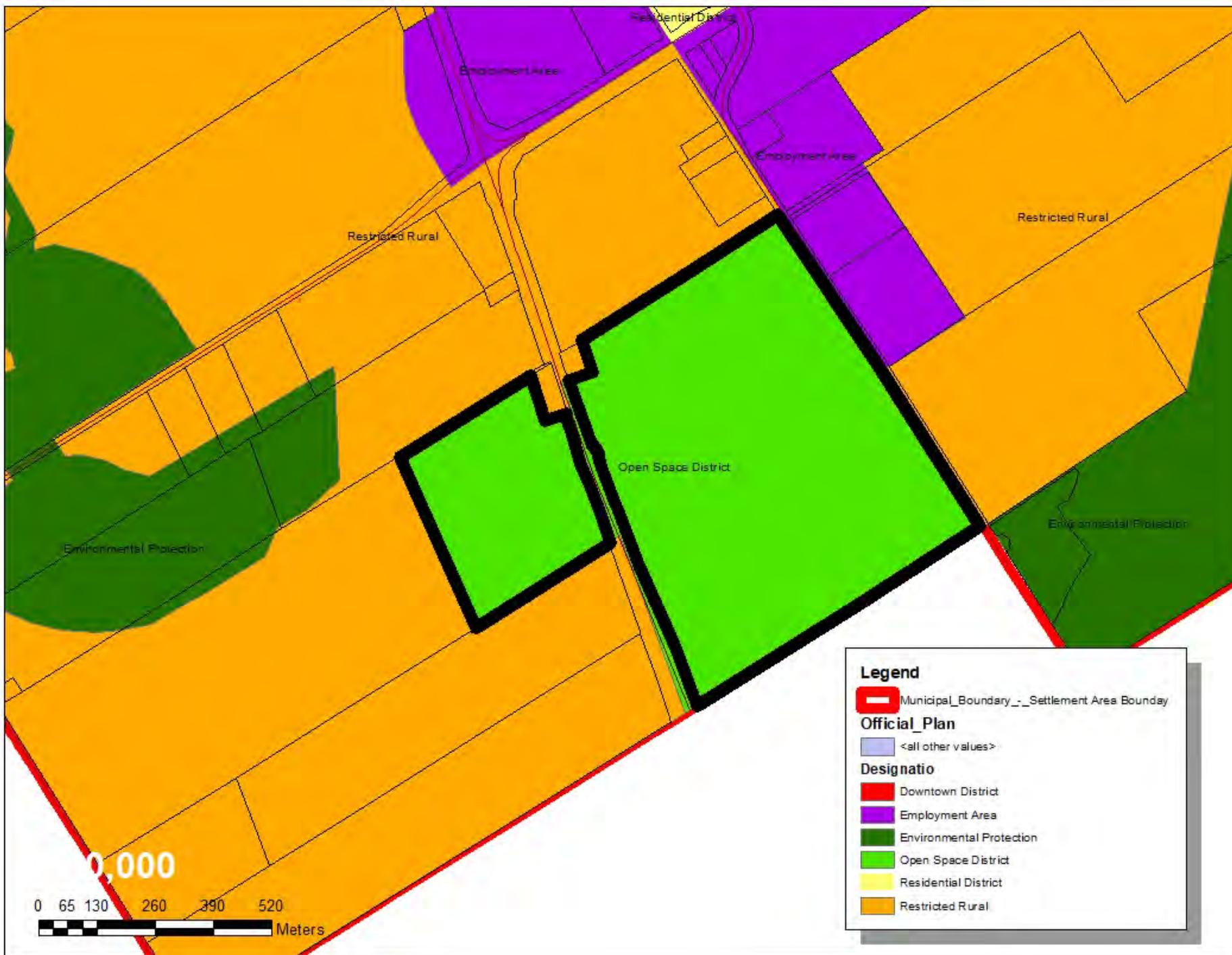


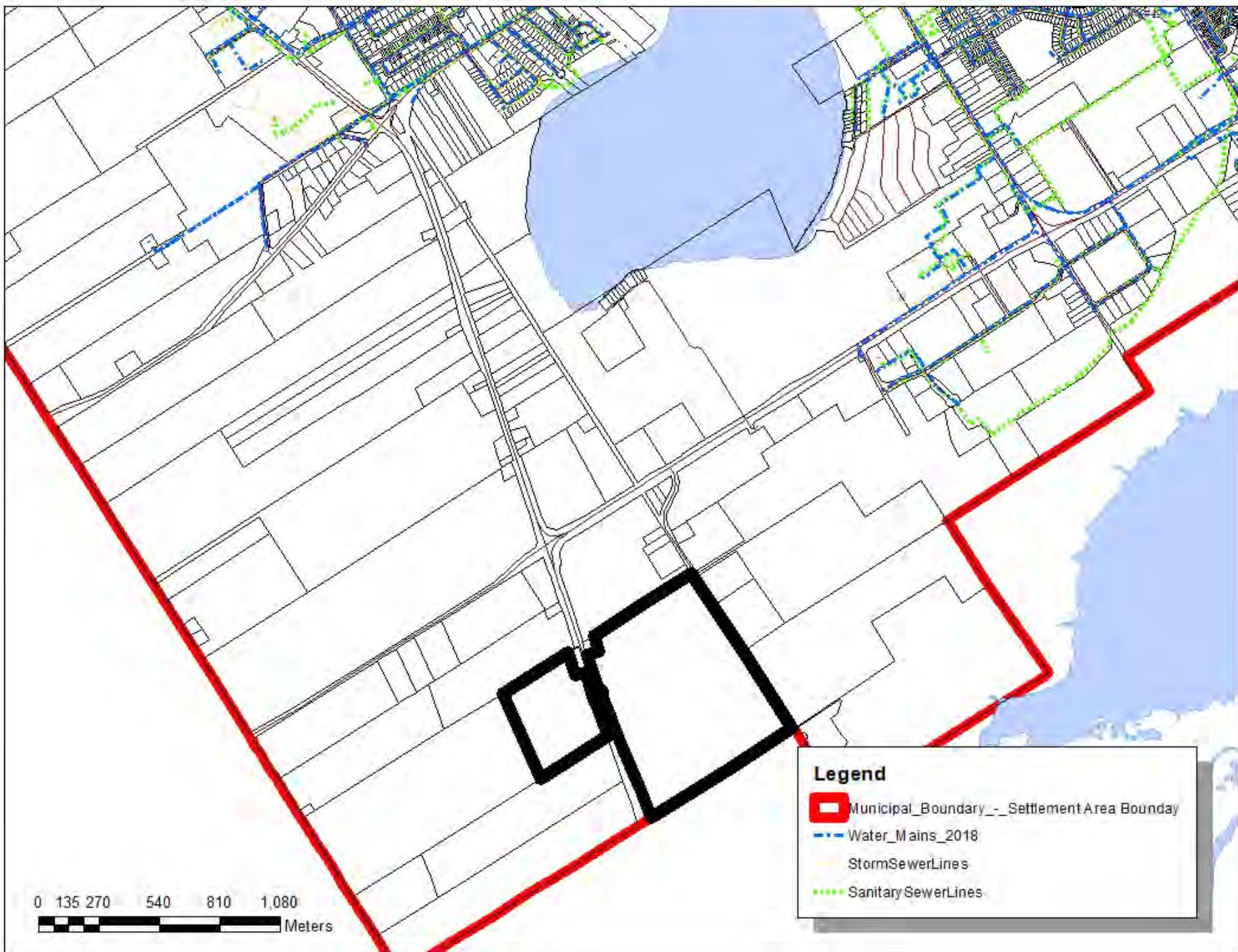
BROOKLEA GOLF & COUNTRY CLUB
MIDLAND

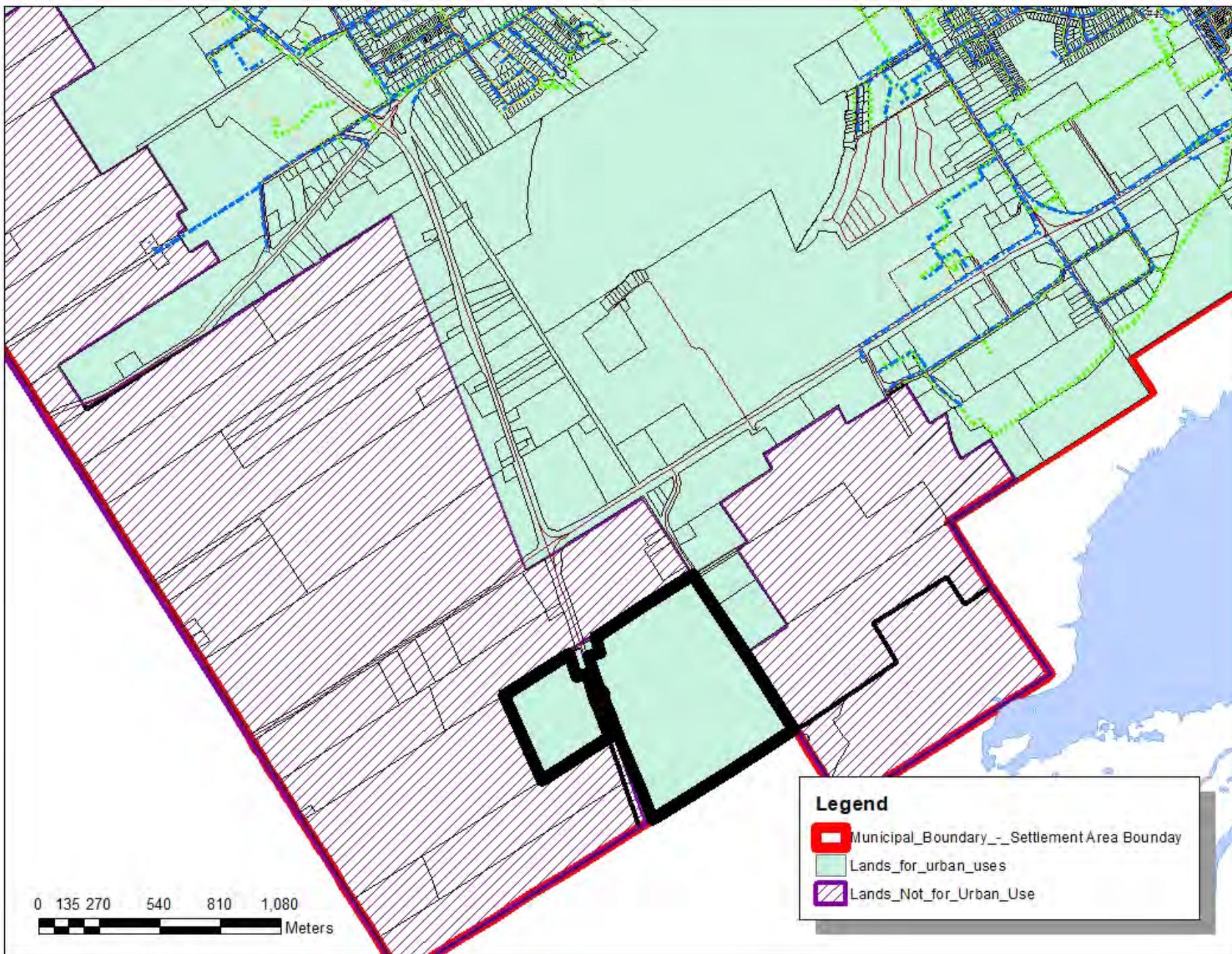
~ PLANNING CONTEXT ~













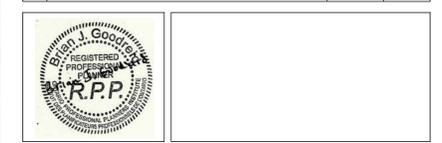


— BOUNDARY OF DEVELOPMENT LANDS

PRELIMINARY CONCEPTUAL PLAN FOR BROOKLEA GOLF AND COUNTRY CLUB REDEVELOPMENT

- DETAILS:**
1. FULL MUNICIPAL & PRIVATE SERVICES PROPOSED.
 2. PLAN OF SUBDIVISION & CONDOMINIUM, REZONING & SITE PLAN APPROVALS MAY BE INVOLVED.

NO.	SCHEDULE OF REVISIONS	DATE	DRAWN



[GPG] Goodreid Planning Group
 Brian J. Goodreid, MCIP, RPP
 Consulting Planner, Principal
 274 Burton Ave., Suite 1201, Barrie, Ontario, L4N 5W4
 Phone: 705-331-5717 Fax: 705-722-5660
 goodreidplanninggroup@gmail.com
 www.landplanningbarrie.ca

BROOKLEA
 8566-8567 Highway 93
 TOWN OF MIDLAND
 County of Simcoe

--	--

Memorandum

Re: Interconnection of Midland and Penetanguishene Water System

Stewart Strathearn, Mayor, Town of Midland:

I enjoyed our recent wide-ranging conversation on a number of municipally related topics. As discussed, I have recently reviewed the on-line material related to Midland's Waterworks Master Plan Up-date. As I indicated, I had reviewed, in some detail, the previous up-date final report, dated November, 2013, at that time. I had actually drafted a letter to then Mayor Gord McKay which I never completed or sent, expressing my concerns over some erroneous conclusions contained in the report. I kept this uncompleted draft in my files and enclose a copy for your information.

At approximately the same time, 2012 – 2013, Midland was up-dating its Water Master Plan, Penetanguishene was completing an environmental assessment to replace and up-date storage capacity in its water system. The consultants for both projects were Aecom, but different offices.

One of the key issues in the 2013 Midland up-date was the need to address the fact that the Sunnyside and Portage Park areas of the town were reliant on a single feed watermain on Harbourview. More detail on this issue is addressed in the above-referenced draft letter originally intended for Gord McKay. The mistaken conclusions in this document, relating to a linkage with Penetanguishene, have obviously been carried forward to the current Water Master Plan Up-date, as evidenced by Page 11 of the Public Information Centre No. 1, "Existing Issues and Potential Solutions." Issue A – Redundancy for the watermain on Harbourview Drive lists two possible solutions, but not a connection to Penetanguishene as a solution.

Since the writing of the referenced draft letter, the Penetanguishene replacement storage was completed and has been operational since late 2015. Also, for reasons unknown to me, Penetanguishene decided not to decommission the Robert St. West storage facility and, in fact, has \$20,000.00 budgeted for 2020 to replace the structures roof. Contrary to the 2013 Midland up-date information, as of late 2015, Penetanguishene had a surplus storage capacity of 300 cubic metres and since the Robert St. West reservoir (1,100 cubic metres) was not removed and is, in fact, being improved, its excess capacity over 2031 requirements should be 1,400 cubic metres. I have included M.O.E. reports from 2011 and 2015 and the latest for 2018 indicating that Penetanguishene is meeting all quality requirements and has, for a number of years, very substantial excess approved supply capacity.

If Penetanguishene has a problem, it is also a redundancy issue based on their reliance on the three wells located in fairly close proximity at Payette Drive. Their response to date has been to pursue the reactivation and treatment of the two Robert St. West wells, removed from the system in 1991 due to contamination with trichloroethylene (T.C.E.). They have done various studies and reports over the years, including an extended pumping test in 2012. The various studies have identified a cost of \$7,500,000.00 to reactivate and treat the Robert St. wells. The current development charges study (2014) and charges being collected include this \$7,500,000.00 cost, plus an additional \$450,800.00 for financing costs. As of the end of 2017, Reserve fund statements for Penetanguishene indicate \$372,880.00 is being held in a specific reserve fund titled Robert Street West Well Reserve and a further \$573,740.00 is being held in a Development Charge Reserve fund under the category Water, Robert Street well. The balance of the specific reserve fund in 2012 was \$444,938.00, suggesting that a least

\$72,058.00 was spent on the 2012 testing and consultants. It should also be noted that the Capital Budget for the town includes ~~\$10,000.00~~ in 2021 to be paid from Reserve for Robert St. West testing.
150,800.00

Therefore, in order to have the Robert St. West wells available as a back-up or redundancy source, the town will have spent well over \$220,000.00 on testing and would be required to spend an estimated, just under, \$8,000,000.00 for treatment and systems work with most of the money, according to the 2014 development charge study, coming from taxpayers and/or system users.

Such huge capital costs, coupled with high operating costs previously identified by Penetanguishene for a back-up facility that may never be required makes little or no sense. Also, to be available in an emergency situation, such as a failure of an existing Payette site well or wells, it would need to be in place in a short time span, not requiring possibly several years of approvals and construction.

A December 15, 2008 Penetanguishene Transportation and Services Section report (copy attached) titled "Robert Street West Well Rehabilitation MRIF Funding Reallocation" dealt with options to reallocate \$1,367 million of previously approved federal funding to other possible projects based on recommendations that the Robert Street West was "no longer a financially viable project in the immediate capital forecast." Option 1 of the alternatives was "Extension of a transmission watermain along Fuller Avenue to facilitate a potential connection to the Town of Midland Water Supply System."

The report provided further detail of a 1.3 km watermain along Fuller Avenue from Midland Point Road/Brunelle Sideroad to Robert St. East at an estimated cost of \$1,275,000.00. This option appears to have been dismissed as it would have only utilized a small portion of the federal funding. The selected project was the Payette storage, which is now built and operational.

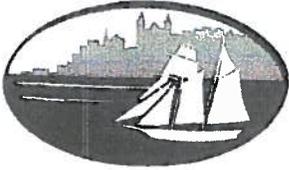
It is important that, in conclusion, under "RISK MANAGEMENT", the report states: "The town will continue to explore other alternatives to the Robert Street West well project, including water conservation, the protection of the town's water source and other back-up system options (such as connection to the Town of Midland or construction of a secondary source."

Under "Strategic Goals and Objectives", the report states: "The protection of the town's water supply is the highest strategy priority. The options being considered must, however, be affordable and sustainable, given the town's small user base."

Given that reports estimate for the selected Payette Storage option was \$3,450,000.00 and the project was completed in 2015 for approximately half that amount, the \$1,275,000.00 figure, even given the number of years that have passed, may be reasonable or possibly high. The area the construction would affect is a vacant treed rural area with no driveways or houses and overhead hydro, Bell, cable T.V. located on the other side of the road. While not certain, I believe natural gas is probably located on that same side of the street.

Constructing this system's link would not only address the redundancy issue for both Midland and Penetanguishene, it would do so a substantially lower cost and physical disruption than each municipality proceeding separately with its own solutions.

Ted Phelps
Attachments.



**The Corporation of The Town of Penetanguishene
Transportation & Environmental Services Section Report**

Dec. 15th 2008

COMMITTEE: Transportation & Environmental Services Section
COMMITTEE CHAIR: Councillor Ken Mackie
SUBJECT: Robert Street West Well Rehabilitation MRIF Funding Reallocation

RECOMMENDATION

That the Transportation and Environmental Services Section recommend to Council that the Town request the Federal Government to reallocate the MRIF funding for the Robert Street Well Field Packed Tower Aeration Facility to fund a portion of the costs associated with the Payette Reservoir Installation.

INTRODUCTION

Council accepted the recommendation of the Director of Public Works that, due to the increased capital and operating cost estimates the Robert Street West Well Rehabilitation, was no longer a financially viable project in the immediate capital forecast. A meeting to discuss alternate water related projects that could be eligible for the \$1.367 million funding from the federal MRIF grant program was held on January 5, 2009 between the CAO, Mayor and Simcoe North MP Bruce Stanton.

Three potential options were discussed as the most suitable for the grant funding in terms of cost, schedule, scope and priority. The majority of the potential funding scenarios consisted of projects that are currently within the capital funding horizon.

The proposed project funding scenarios include the following:

- Option 1:** *Extension of a transmission water main along Fuller Avenue to facilitate a potential connection to the Town of Midland Water Supply System.*
- Option 2:** *Removal, replacement and upgrading of aging water infrastructure on the following streets:*
- *Harriet Street (Between Edward Street and Jeffery Street)*
 - *Lucy Street (Between Robert Street and Jeffery Street)*
 - *Maria Street (Between Edward Street and Jeffery Street)*
 - *Scott Street (Between Robert Street and Water Street)*
 - *Simcoe Street (Between Main and Fox Street)*
 - *Peel Street (Between Robert Street to Brock Street)*
 - *Sheridan Street (Chatham Street to Fox Street)*
- Option 3:** *Installation of a new reservoir at the Payette Well Facility*



The Corporation of The Town of Penetanguishene Transportation & Environmental Services Section Report

ANALYSIS

To help identify the most applicable project to apply the MRIF funding to the project options listed above were reviewed by Public Works staff in terms of their cost, scope and viability within the MRIF funding requirements and timeframes.

A brief summary of each funding option including their estimated schedules and costs has been provided below:

OPTION 1: *Extension of a transmission water main along Fuller Avenue to facilitate a connection with the Town of Midland Water Supply System.*

This project is not currently scheduled within the forecasted capital budget nor was it identified as a growth related project within the approved Growth Management Study (2008). It would however provide a secondary water source to the Town and increase the distribution potential of the existing system and therefore fast track future development potential in the immediate area.

A preliminary location for the connection point to the transmission water main has been identified at the intersection of Midland Point Road and Fuller Avenue. If this connection point were to be used it would involve the extension of the water main from the intersection of Robert Street and Fuller approximately 1.3 km to Midland Point Road. There have been no formal discussions between the Town of Penetanguishene and the Town of Midland regarding this option.

A summary of the requirements, schedule and costs associated with this project are summarized below:

Requirements and Schedules

- Consultation and Approval Between Municipalities (2-4 months) - Winter to Spring 2009
- Feasibility Studies (6-8 months) - Spring 2009 to Fall 2009
- Class Environmental Assessment (4-6 months) - Spring 2009 to Fall 2009
- Engineering Design and Contract Documentation (6 months) – Fall 2009 to Spring 2010
- Water System C of A Amendment and Reclassification (2 months) – Spring 2010 to Summer 2010
- Construction and Contract Administration (4 months) – Summer 2010 to Fall 2010

Estimated Project Costs

- Feasibility Studies - \$100,000
- Class Environmental Assessment - \$75,000
- Engineering Design, Contract Documentation and C of A Amendment - \$100,000
- Construction and Contract Administration - \$1,000,000

Total Estimated Project Cost = **\$1,275,000**

MRIF Portion of Project Cost(33%) = **\$425,000**

Town Portion of Project Cost(67%) = **\$850,000**

From the preliminary cost estimates provided above this project would be insufficient to cover the entire \$1,367,000 provided by the MRIF grant and would therefore need to be combined with a significantly larger project(s) (if permitted) if the entire funding grant were to be utilized.



The Corporation of The Town of Penetanguishene Transportation & Environmental Services Section Report

OPTION 2: *Removal, replacement and upgrading of aging water infrastructure on the following streets:*

- *Harriet Street (Between Edward Street and Jeffery Street)*
- *Lucy Street (Between Robert Street and Jeffery Street)*
- *Maria Street (Between Edward Street and Jeffery Street)*
- *Scott Street (Between Robert Street and Water Street)*
- *Simcoe Street (Between Main and Fox Street)*
- *Peel Street (Between Robert Street to Brock Street)*
- *Sheridan Street (Chatham Street to Fox Street)*

The street sections listed above have been tentatively scheduled for full reconstruction within the capital forecast over the next 5 to 10 years. Included within the reconstruction work will be the upgrading and replacement of all municipal services and private utilities as well as the road cross sections to Town standards.

Since the MRIF grant is restricted to water related projects only one third of the costs for the water distribution related construction for each of the reconstruction projects proposed would be eligible for funding.

A summary of the requirements, schedule and costs associated with the above reconstruction work are given below:

Requirements and Schedules

- Engineering Design and Investigations (4-6 months) – Winter 2009 to Summer 2009
- Acquire Water and Sewer C of A (3 months) – Spring 2009 to Summer 2009
- Construction and Contract Administration (12-16 months) – Summer 2009 to Fall 2010

Estimated Project Costs

- Engineering Design and Investigations - \$200,000
- Construction and Contract Administration - \$5,750,000

Total Estimated Project Cost	= \$5,950,000.00
Water Related Portion of Project Cost (25% of Total)	= \$1,487,500.00
MRIF Portion of Project Cost (33% of Water Portion)	= \$495,833.33
Town Portion of Project Cost	= \$5,454,166.67

From the preliminary cost estimates provided above this project would be insufficient to cover the entire \$1,367,000 provided by the MRIF grant and would therefore need to be combined with a significantly larger project(s) (if permitted) if the entire funding grant were to be utilized.

Also, with the relatively small portion of the project cost that may be funded by the MRIF grant the remaining cost borne by the Town may be too great to be completed in the specified timeframe.

Option 3: *Installation of a new reservoir at the Payette Well Facility*

The installation of a new reservoir at the Payette Well has been identified within the capital forecast as a Water Department infrastructure priority. The initiation of the Class EA process has been scheduled for 2009 with the engineering design and construction tentatively



The Corporation of The Town of Penetanguishene Transportation & Environmental Services Section Report

scheduled for 2010 and 2011 respectively. However, if the funding for this project were available the schedule of the project could be fast tracked into construction as early as 2010.

Due to the nature and scope of the project the MRIF grant would apply to one third of the total cost with the Town providing the remaining funding.

A summary of the requirements, schedule and preliminary costs associated with the Payette Reservoir project are given below:

Requirements and Schedules

- Class Environmental Assessment (Schedule B)
(4-6 months) - Winter 2009 to Summer 2009
- Engineering Design and Contract Documentation
(6 months) – Summer 2009 to Winter 2010
- Construction and Contract Administration (6 months) – Spring 2010 to Fall 2010

Estimated Project Costs

- Class Environmental Assessment - \$50,000
- Engineering Design, Contract Documentation - \$100,000
- Construction and Contract Administration - \$3,300,000

Total Estimated Project Cost = **\$3,450,000**

MRIF Portion of Project Cost(33%) = **\$1,150,000**

Town Portion of Project Cost(67%) = **\$2,300,000**

Based on the estimated scope and associated preliminary costs provided above it appears that the Payette Reservoir project, out of all the options considered, comes the closest to satisfying the project scope and funding requirements of the originally funded MRIF project (Robert Street West Well Rehabilitation).

It is therefore the recommendation of the Public Works Department that after reviewing the options presented the MRIF funding grant should be applied to the Payette Reservoir project, pending MRIF funding approval.

BUDGETARY IMPLICATIONS

Should the MRIF funding for the Payette Reservoir Project be approved the Town would be responsible for the remaining cost of the project (Est. \$2,300,000) over the next two to three years. The distribution of these funds will most likely be taken out of the existing Robert Street West reserve and water rate funding.

Additional government funding (up to a total of 50%) for this project could be for applied for through the Gas Tax Revenue fund to further reduce the loading on the water rates and reserve funds. This would however have an impact on the capital plan as the Gas Tax Revenue has been directed to projects that would normally be tax supported.

RISK MANAGEMENT

The rapid completion of this project which could be triggered through the use of the MRIF funding would only enhance the existing water distribution infrastructure in Town and minimize future maintenance and construction cost if the project were further delayed had the funding not been available.



The Corporation of The Town of Penetanguishene Transportation & Environmental Services Section Report

RISK MANAGEMENT

The Town will continue to explore other alternatives to the Robert Street West well project including water conservation, the protection of the Town's water source and other back up system options (such as connection to the Town of Midland or construction of a secondary source).

STRATEGIC GOALS & OBJECTIVES

The protection of the Town's water supply is the highest strategic priority. The options being considered must however be affordable and sustainable given the Town's small user base.

Prepared by: John Boucher, Director of Public Works

Approved by: E.J. Rath, C.A.O.

Meeting Date: December 15, 2008

Electronic file: S:\Public Works\John\Word Files\Infrastructure Funding Robert St W P T A .doc

Town of Midland
 TAX SUPPORTED
 Capital Budget 2018 - Draft 1
 Studies

Account	Project Description	Source of Funding												
		Current Year Cost	Donations, Grants & Proceeds	Fed/Prov Gas Tax	Facility-Related Reserves	Equipment Vehicle Reserves	Police Services Reserve	Roads-Related Capital Res.	Development Charges	Wastewater Reserve	Water Reserve	Other Reserve	Debt	Tax Levy
211-8005-2130	Regional Fire Study	\$ 15,000	-	-	-	-	-	-	-	-	-	-	-	\$ 15,000
505-8005-2130	Transportation Master Plan	\$ 150,000	-	-	-	-	\$ 75,000	\$ 75,000	-	-	-	-	-	-
811-8202-2130	Development Charges Study (Year 1 of 2)	\$ 38,500	-	-	-	-	-	\$ 38,500	-	-	-	-	-	-
811-8208-6200	Community Improvement Plan	\$ 50,000	-	-	-	-	-	-	-	-	-	-	-	\$ 50,000

TOTAL	\$ 254,500	\$ 0.00%	\$ 0.00%	\$ 0.00%	\$ 0.00%	\$ 0.00%	\$ 75,000	28.47%	\$ 114,500	44.99%	\$ 0.00%	\$ 50,000	19.65%	\$ 15,000	5.89%
% of Total Funding	100%														

Ontario government announces one-time funding for small and rural municipalities

By Hannah Jackson Local Online Journalist (Barrie) Global News



Minister of Municipal Affairs and Housing, Steve Clark announced on Wednesday one-time funding for many of Ontario's small and rural municipalities.

Hannah Jackson / Global News

At Innisfil Town Hall Wednesday morning, Ontario's Minister of Municipal Affairs and Housing, Steve Clark, announced one-time funding for many of the province's small and rural municipalities.



According to Clark, the one-time \$200 million investment will be allocated to 405 municipalities across Ontario to help modernize and improve services in the communities.

“People rely on municipalities to deliver so many important services: transit, water and wastewater services, parks and recreation and the list goes on and on,” Clark said. “Taxpayers expect and deserve modern, efficient service delivery that puts people first and shows respect for hard earned taxpayers dollars.

“And while larger municipalities have economies of scale and the resources needed to modernize and improve the way they deliver services, smaller and rural municipalities might not.”

READ MORE: Doug Ford doesn't shoot down amalgamation rumours during Cambridge visit

“This one-time investment gives Ontario’s small and rural communities the support that they need to become more efficient, to modernize service delivery, to avoid expenditure growth and ultimately better meet the needs of their residents,” he said.

According to the province, the money will be allocated based on the number of households in a municipality and whether the municipality is urban or rural.

Individual municipalities will receive:

- City of Orillia: \$520,308
- Town of Collingwood: \$595,703
- Town of Midland: \$676,935

- Town of Penetanguishene: \$649,148
- Town of Wasaga Beach: \$540,330
- Town of Innisfil: \$676,935
- Town of Bradford West Gwillimbury: \$535,004
- Town of New Tecumseth: \$469,838
- Essa Township: \$676,935
- Tiny Township: \$676,935
- Adjala-Tosorontio Township: \$651,361
- Clearview Township: \$676,935
- Oro-Medonte Township: \$676,935
- Ramara Township: \$676,935
- Severn Township: \$676,935
- Springwater Township: \$676,935
- Tay Township: \$676,935

READ MORE: Town of Innisfil 2019-20 budget includes upgrades to parks, roads

Innisfil mayor Lynn Dollin said she is “extremely grateful” for the investment.

“While we pride ourselves on being a municipality that does more with less, there is always room to improve and this funding will help us do that. So we are extremely grateful to Minister Clark and the province for this investment,” she said.

WATCH: A look at which Ontario municipalities have opted out of retail pot shops

“We know how hard residents work for their money. That is why we are always looking for opportunity and cost efficiencies wherever possible,” Dollin said. “For us, finding efficiencies isn’t just about something that should happen every now and then, but it should be a constant focus.”

According to Clark, notification was sent to the remaining municipalities receiving funding Wednesday morning.

Get daily Ottawa headlines and alerts

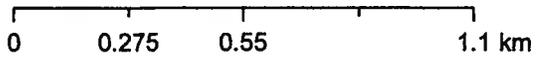
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County of Simcoe - Web Map

Cambridge St



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March 13, 2019

County of Simcoe - Web Map



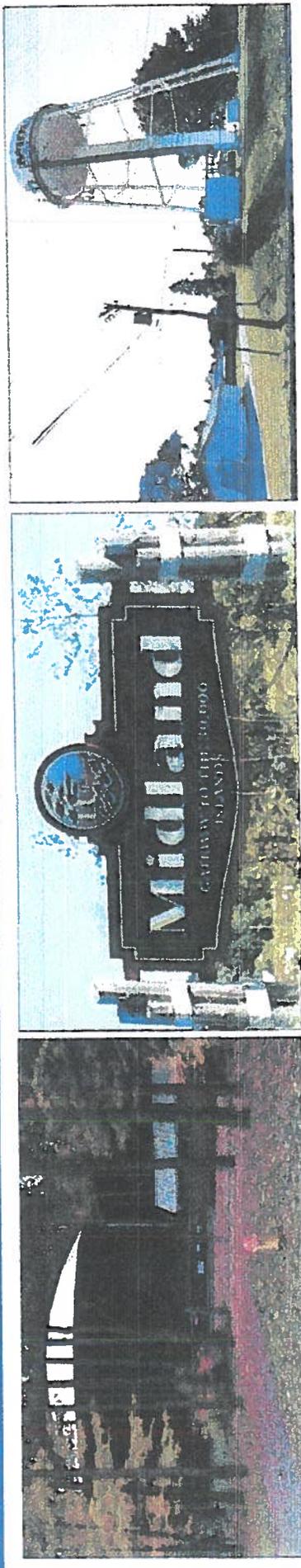
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March 13, 2019

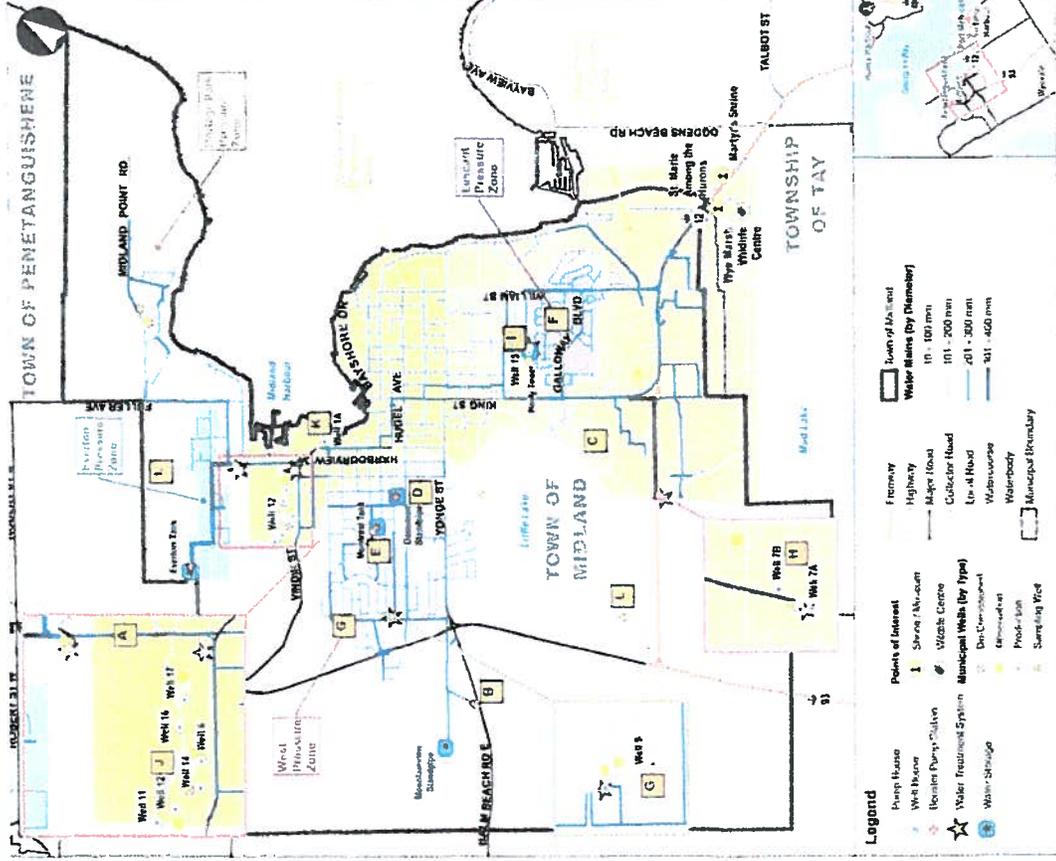


MIDLAND WATERWORKS MASTER PLAN UPDATE
Municipal Class Environmental Assessment
PUBLIC INFORMATION CENTRE NO. 1
(online presentation)

Link to Penetanguishene was dropped from original study based on incorrect information for water tower. Also fails to consider any changes that have occurred.



EXISTING ISSUES AND POTENTIAL SOLUTIONS



Issue	Solutions
Issue - Redundancy Single feed watermain (300 mm) along Harbourview Dr. supplies to the Everton and Portage Park Pressure Zones	Solutions 1) Turn the existing watermain to improve the system redundancy, or 2) Re-commission the wells (#22 and #23) in the Portage Park Pressure Zone, for emergency use
Issue - Sundowner Well Water Quality	Solutions Treatment process will be required.
Issue - Pressure Low pressure experienced around the area north of Highway 12 and west of King St.	Solutions 1) Provide new storage tank near Well 7A and 7B to higher water level; control water level for Russell Tower, or 2) Install a new local Booster Pump Station
Issue - Aging Infrastructure Denison Standpipe is more than 100 years old and requires rehabilitation. Parts of the Town have aging watermain that contribute to water quality and odour issues at times.	Solutions 1) Reurbish existing storage facility, or 2) Abandon (if not required), or 3) Demolish existing and install a new storage facility at another location, or 4) Demolish existing and install a new storage facility at the same location. 5) Identify possible pipe replacement and flushing program requirements.
Issue - Maintenance, Cost, and Operational Concerns Montreal tank requires casing (estimated cost of \$150k) and is difficult to operate (i.e. requires pumping).	Solutions 1) Reurbish, or 2) Abandon (if not required)
Issue - Fire Flow Constraint Fire flow supply in Leacock Pressure Zone not adequate	Solutions Provide fire pump for Leacock Pressure Zone
Issue - Capacity Constraint Well 9 capacity is not enough to meet the West Pressure Zone demand	Solutions 1) Place Sundowner well in service, or 2) Install a new tank near the Mountainview Standpipe with a new foodmain from Flumo Pressure Zone
Issue - Well Life Expectancy Wells 7A and 7B are major supply source, more than 30 years old.	Solutions 1) Replace wells, or 2) Perform detailed Geotechnical works to control wells condition.
Issue - Well Physical Integrity Well 15 needs structural repairs (such as casing)	Solutions 1) Reurbish the well 2) Abandon (if not required)
Issue - Physical Integrity Well 12 in poor condition and beyond repair	Solutions 1) Install a new well, or 2) Abandon (if not required)
Issue - Well Not in Service Well 1A currently not in use	Solutions 1) Place the well in service to improve system's well supply capacity (if required), or 2) Abandon (if not required)
Issue - New Water Service Required for Future Development	Solutions Requires new infrastructure to provide sustainable water service to future development.



Client: MIDLAND TOWN OF TAY
 Project: AECOM CLOCA
 L10, Town of Wharby
 AECOM

Note: The above potential solutions are preliminary only. The formal Alternative Solutions under consideration for this project will be presented for public review and comment at a second Public Information Centre at to be scheduled at a future date.



**Draft Letter, written and never sent
Spring, 2015**

Mayor Gordon McKay,
Town of Midland.

RE: Inter Municipal Co-operation.

Dear Mayor McKay:

Last evening, I spent some time on-line reviewing the lengthy material associated with your Strategic Planning Session in the Special Council Meeting of Feb. 12, 2015. It reminded me a great deal of the tone and to some degree, the content of the optimistic joint urban node meetings I attended in both Midland and Penetanguishene early in the term of the last Council. I believe that the spirit of co-operation for the common good largely petered out due to historical and political parochialism. I am optimistic, however, that given the large influx of new, previously non-political blood on most of the local Councils, much of the old baggage can be left behind.

I am neither a resident or a tax payer of Midland, but as a resident of North Simcoe, the health and well-being of the Town is of vital importance to me. Going as far back as the "Urban Node" meetings and more recently, your development charge deliberations, I spoke with you about what I believed to be a very obvious point of co-operation and mutual benefit to both Midland and Penetanguishene. This involved a linking of your water systems which could provide an economical mutually beneficial redundancy to both of your systems. I have some knowledge of both water systems, including a review of your Midland Water Master Plan Up-date Final Report, dated November, 2013. That report identifies a problem for your east pressure zone (Sunny Side area) involving system redundancy (reliance on single 300mm pipe on Harborview). The consideration of alternatives includes twinning the water main along Harborview at an estimated cost of \$1,368,000 or development of a new well in the Sunny Side area at an estimated cost of \$472,000.00. The \$1,368,000.00 twinning is the recommended alternative.

The alternative of a connection to Penetanguishene was not even considered in the final selection. Page 56 of the report addresses this possible Midland-Penetanguishene connection, but misinterprets, omits and is factually incorrect on essentially all the information considered relating to the Penetanguishene system. The report references the EA study for Payette Water Storage (march 2012, also by Aecom, but different office) for the replacement of two existing old reservoirs with new storage of equivalent volume or larger. The existing reservoirs, although old, meet M.O.E. requirements. The Midland report suggests that these existing reservoirs will be removed from the system, leaving Penetanguishene with a storage deficit of 1,900 cubic metres. In fact, the sole purpose of the Penetanguishene E.A. was for the replacement of the two old reservoirs with 2,300 cubic metres of new storage, with the old storage proposed to be decommissioned only after the new storage was in place. The E.A. stated the total future 2031 required storage volume is 6,900 cubic metres. This included the existing Centennial elevated tank (5,000 cubic metres) as well as the then proposed 2,300 cubic metre replacement storage. Therefore, contrary to the assertion in the Midland report that Penetanguishene will have a deficit of 1,900 cubic metres, Penetanguishene will, in fact, have a surplus of 400 cubic metres over its 2031 requirements.

Since that time, Penetanguishene has proceeded with design and is currently qualifying contractors and proposes to award a contract in April for completion of construction in November, 2015. The revised design is for two on ground glass lined steel tanks with a total capacity of 2,200 cubic metres. This is 100

cubic metres less than the E.A. proposal, but still 300 cubic metres over the 2031 requirements. The Midland report is simply wrong. The Midland report further states that "it is unlikely that the Penetanguishene system has surplus capacity to serve Midland and it is more likely that Midland exports water in the future to Penetanguishene."

It is difficult to understand how two branches of the same consulting firm or the operator of a system in such close proximity to its neighbour could be so ill informed of the true facts. I am attaching pages from a Jan. 14, 2015 report from the M.O.E. on the Penetanguishene Payette Drinking Water System. This report provides a great deal of detail on the system including its rated capacity of 11,000 cubic metres per day and the fact that in 2014, the Average Day Demand was just 30.7% (3,371.1 cubic metres per day) of rated capacity, a 1.8% reduction from the 2013 average day. Maximum Day demand also was 42.9% (4,715.8 cubic metres per day) of the rated capacity. It should be noted that since installation of water metres in 2005, water usage has declined year over year, every year. Penetanguishene, therefore, has surplus capacity, even at maximum day demand of at least 6,000 cubic metres per day. Again, the Midland report is wrong.

Under "Disadvantages", the Midland report lists: "Potential unwanted water quality blends (some surrounding water systems continue with common boil water advisories. This can be hard to sell to existing customers)" While the Township of Tay has had some issues, there is no evidence that this has been a problem in the Penetanguishene system. In fact, the Jan. 14, 2015 M.O.E. report indicates there were no non-compliance recommendations or best practice issues identified. The M.O.E. report notes that this was a "focused" inspection because inspections over the last 3 years had few or no violations, few or no orders were issued and no deficiencies were noted. This raises the question of what was the basis of this comment and why it was included except to create false impressions and discourage a fair consideration of this inter-connection as a viable option.

Upon replacement of the Payette storage, Penetanguishene will, as the above information indicates, have a surplus of storage capacity and a very substantial surplus of supply capacity to meet its 2031 theoretical population requirements. If Penetanguishene has a problem it is also a matter of redundancy, due to its reliance on three wells located in fairly close proximity. The solution that keeps re-appearing, is the reactivation and treatment of the contaminated Robert St. West wells, at an estimated cost of approximately \$7,500,000. In December, 2008, Penetanguishene Council rejected this as too costly, not only in capital costs, but in operating costs. However, staff have continued to push this option.

(draft not completed)

Final Report
November 19, 2013

possible to gradually implement additional wells as the Town's demands increase over the next 20 years. This could be advantageous financially since the capital costs could be staggered over time rather than constructing a single well facility.

Potential areas for new wells need to be far from contaminated areas with TCE. Based on discussions with Golder Associates, locations south of the system have been monitored and no contaminants have been found. These are probably the safest locations to drill new wells. Recently Golder Associates conducted field testing in the intersection of County Road 93 and Highway 12. These results are getting revised and will provide an indication whether this area is suitable for drilling a new well.

A high level hydrogeological review of the Town of Midland supply will be provided in order to understand the impacts and opportunities associated with alternative water supply sources as well as option of sharing water sources with Penetanguishene.

Advantages

- Environmental impact
- Availability of watermain connections
- Aids East-West distribution
- Total Cost of 1 vs. 2 wells
- Smaller short term cost
- Greater supply reliability

Disadvantages

- Land purchase costs
- Longer time for implementation
- Greater construction costs
- Greater O&M costs

7.1.5 Alternative 1.5 – Connection to an adjacent municipal system (e.g. Tay)

There is a potential for connecting the Town of Midland water system with one or more of the neighbour municipalities of Tay, Tiny or the Town of Penetanguishene. The areas of annexation would need to have the sufficient conveyance capacity (large diameter mains), and likely the import or export of water would require kilometers of connecting transmission mains. The availability of water in each system and the water quality that the systems would provide are also important parameters to be further analysed in a potential integration of the systems. Here is a brief summary of the opportunities and limitations of integrating the Town of Midland water system with its neighbours.

Township of Tay: The Township has a budget provision to refurbish the existing Tay Area Water Plant (TAWP). The upgrades to the existing plant will provide sufficient capacity to serve the growth for the next 20 years in Tay Township. Since this TAWP expansion is largely due to growth, it is not expected that there will be additional water surplus. Similarly the water needs for the Township are expected to be covered by the plant expansion. Therefore, it is not expected an integration between the water systems of Tay and Midland as there will be required infrastructure upgrades without a realistic benefit for either system.

Township of Tiny: Currently, there is not sufficient water infrastructure in the Township of Tiny, west of Midland, to consider a potential integration of these two systems.

Town of Penetanguishene: Connecting the Midland system to the Town of Penetanguishene is a possibility due to its proximity to the Sunnyside area (East pressure zone). Currently there is a storage deficiency in the East pressure zone area of Midland and this deficiency will only increase in the future years. Additionally a storage deficiency was recognized in the recently filed Class EA study for the Water Storage Upgrades to Payette Water System within the Town of Penetanguishene. This study even considers the alternative of having this zone supplied by the Midland East zone but recognizing the fact that Midland would still not have surplus storage capacity to serve this area.

Based on short-term water storage requirements for Penetanguishene, the Town will have a water storage deficit of approximately 400 m³ if the Payette reservoir were to be removed from the system. This storage deficit is based on 2011 water demands and will continue to grow as water demands in the Town increase.

In 2031, the water storage deficit would reach approximately 1,900 m³ assuming that the Payette and Robert St. W. reservoirs were both removed from the system due to age and condition. Therefore, based on the MOE Guidelines and the projected water demands, a minimum storage volume of approximately 1,900 m³ needs to be added to the Penetanguishene water system, specifically in the Lower pressure zone, to meet 2031 demands.

These figures confirms what the Town of Midland has indicated that it is unlikely that the Penetanguishene system has surplus of capacity to serve Midland and it is more likely that Midland export water in the future to Penetanguishene.

Although this alternative is technically feasible, it would require agreement and coordination with the Town of Penetanguishene. Further discussion between the Town of Penetanguishene and the Town of Midland would be required to investigate this opportunity and consequences of combing systems (e.g. increased operational complexity.)

Advantages

- Potential backup water supply/source provided
- Potential revenue for water exports

Disadvantages

- Capital cost for watermain infrastructure to connect systems
- Does not increase water storage in Town of Midland
- Not a stand-alone option; requires implementation of other alternatives ? so does preferred alternative
- Agreements required between Town of Midland and Town of Penetanguishene
- Potential unwanted water quality blends (some surrounding water systems continue with common boil water advisories. This can be hard to sell to existing customers)
- Would significantly increase complexity of operating water system.

7.2 Issue No. 2 – Storage Deficiency – East Pressure Zone

Some alternative solutions were initially identified to address the storage capacity issues that were outlined in Section 6.10.

- Alternative 2.1 – Do Nothing
- Alternative 2.2 – Reduce Water Demand
- Alternative 2.3 – Relocate existing Montreal Street Standpipe
 - Alternative 2.3A – Relocation to East pressure zone
 - Alternative 2.3B – Relocation to other location in West pressure zone
 - Alternative 2.3C – Relocation to location in newly defined pressure zone

Water



Town of Midland

Waterworks Master Plan Update

Prepared by:

AECOM

10 Checkley Street

Barrie, ON, Canada L4N 1W1

www.aecom.com

705 721 9222 tel

705 734 0764 fax

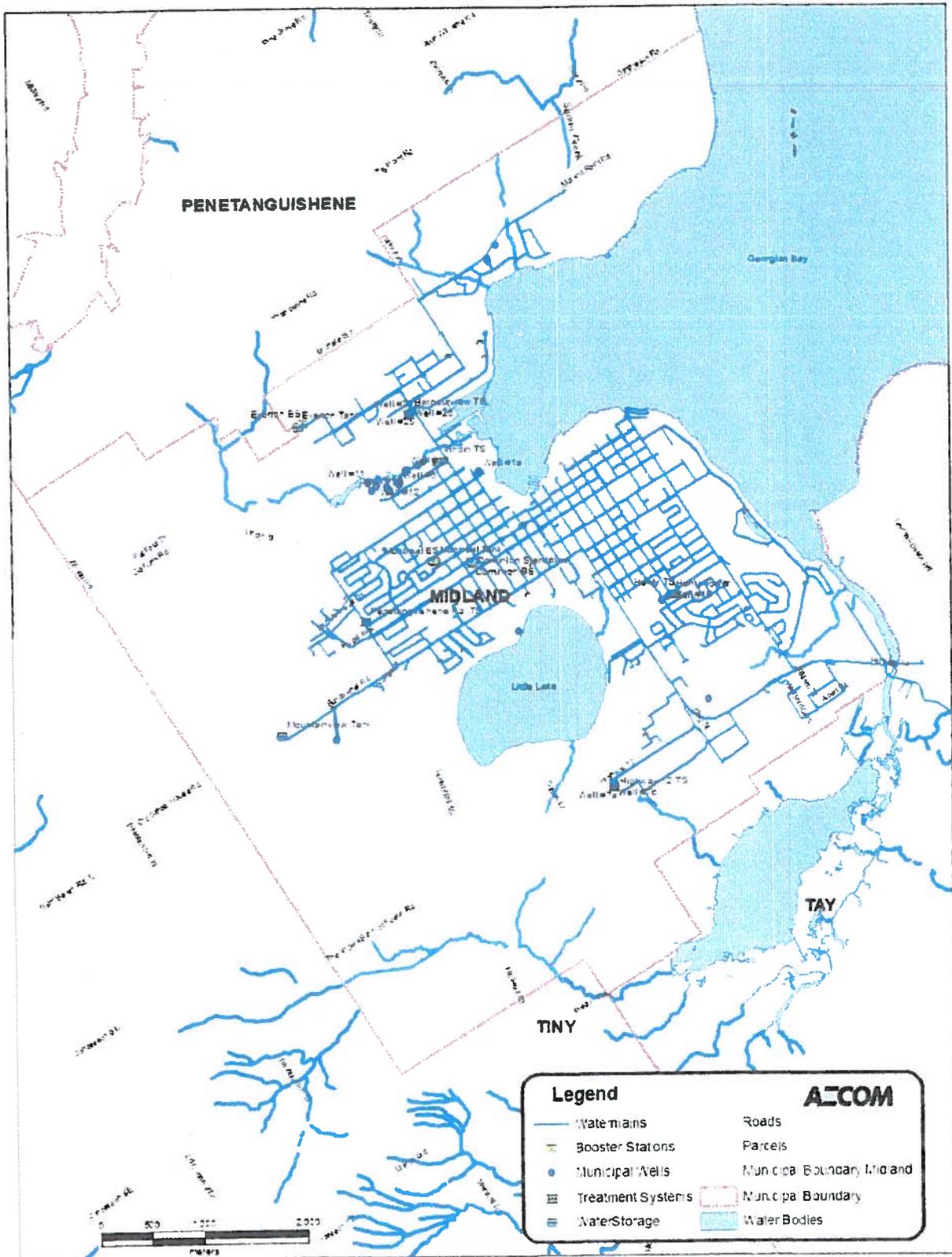
Project Number:

60197623

Date:

November, 2013

Figure 1 Map of Town of Midland



6.10.5 Other Hydraulic Issues

6.10.5.1 Linear Infrastructure

The existing pipe network sizes are typically sufficient to deliver the expected flows throughout the system.

Major infrastructure upgrades required in the system include a redundancy feedermain to the north area. Currently there is a 300mm diameter main supplying the entire north area (Everton and Portage areas). Twinning approximately 560m of the Harbourview Drive main would provide pipe redundancy to supply these areas.

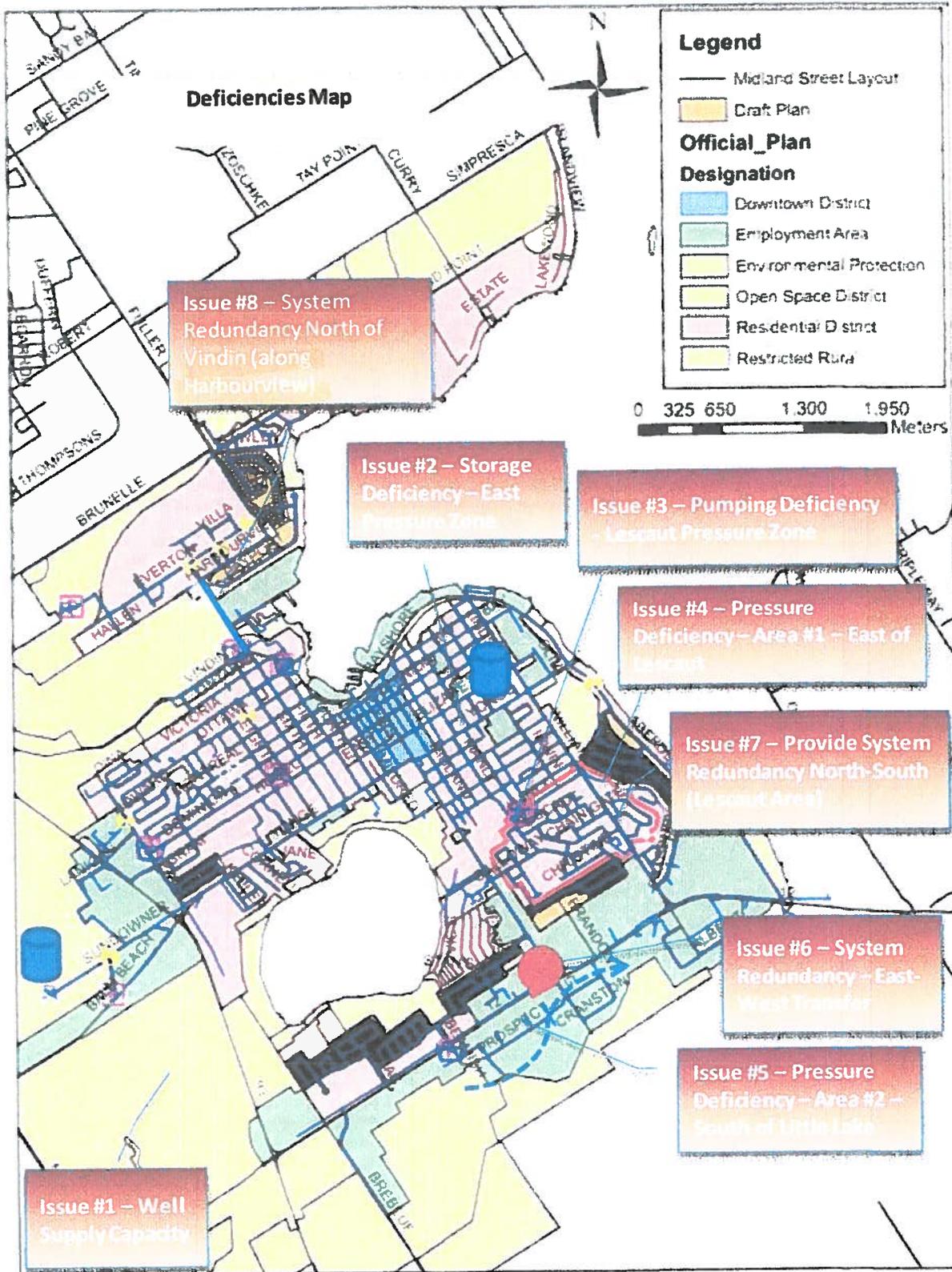
Similarly, additional pipe upgrades are recommended to provide sufficient conveyance capacity north-south along William Street, particularly before the upgrades to expand the Lescaut area are completed. This upgrade will support the existing supply capacity of the 300mm diameter watermain along King Street.

Other linear infrastructure deficiencies include watermains required for looping the new draft approved developments. These can be major upgrades if the Sumac Lane developments are supplied from the West zone taking advantage of the storage surplus that exists in this zone.

6.10.5.2 Vertical Infrastructure

East to West booster pumping is only available from the Dominion booster station, so increased redundancy may be beneficial in case of a Dominion booster station outage situation. **Figure 9** includes a summary of all the deficiency issues that need to be addressed as part of this current master plan.

Figure 9 Summary of System Deficiencies



Final Report
November 19, 2013

possible to gradually implement additional wells as the Town's demands increase over the next 20 years. This could be advantageous financially since the capital costs could be staggered over time rather than constructing a single well facility.

Potential areas for new wells need to be far from contaminated areas with TCE. Based on discussions with Golder Associates, locations south of the system have been monitored and no contaminants have been found. These are probably the safest locations to drill new wells. Recently Golder Associates conducted field testing in the intersection of County Road 93 and Highway 12. These results are getting revised and will provide an indication whether this area is suitable for drilling a new well.

A high level hydrogeological review of the Town of Midland supply will be provided in order to understand the impacts and opportunities associated with alternative water supply sources as well as option of sharing water sources with Penetanguishene.

Advantages

- Environmental impact
- Availability of watermain connections
- Aids East-West distribution
- Total Cost of 1 vs. 2 wells
- Smaller short term cost
- Greater supply reliability

Disadvantages

- Land purchase costs
- Longer time for implementation
- Greater construction costs
- Greater O&M costs

7.1.5 Alternative 1.5 – Connection to an adjacent municipal system (e.g. Tay)

There is a potential for connecting the Town of Midland water system with one or more of the neighbour municipalities of Tay, Tiny or the Town of Penetanguishene. The areas of annexation would need to have the sufficient conveyance capacity (large diameter mains), and likely the import or export of water would require kilometers of connecting transmission mains. The availability of water in each system and the water quality that the systems would provide are also important parameters to be further analysed in a potential integration of the systems. Here is a brief summary of the opportunities and limitations of integrating the Town of Midland water system with its neighbours.

Township of Tay: The Township has a budget provision to refurbish the existing Tay Area Water Plant (TAWP). The upgrades to the existing plant will provide sufficient capacity to serve the growth for the next 20 years in Tay Township. Since this TAWP expansion is largely due to growth, it is not expected that there will be additional water surplus. Similarly the water needs for the Township are expected to be covered by the plant expansion. Therefore, it is not expected an integration between the water systems of Tay and Midland as there will be required infrastructure upgrades without a realistic benefit for either system.

Township of Tiny: Currently, there is not sufficient water infrastructure in the Township of Tiny, west of Midland, to consider a potential integration of these two systems.

Town of Penetanguishene: Connecting the Midland system to the Town of Penetanguishene is a possibility due to its proximity to the Sunnyside area (East pressure zone). Currently there is a storage deficiency in the East pressure zone area of Midland and this deficiency will only increase in the future years. Additionally a storage deficiency was recognized in the recently filed Class EA study for the Water Storage Upgrades to Payette Water System within the Town of Penetanguishene. This study even considers the alternative of having this zone supplied by the Midland East zone but recognizing the fact that Midland would still not have surplus storage capacity to serve this area.

Based on short-term water storage requirements for Penetanguishene, the Town will have a water storage deficit of approximately 400 m³ if the Payette reservoir were to be removed from the system. This storage deficit is based on 2011 water demands and will continue to grow as water demands in the Town increase.

In 2031, the water storage deficit would reach approximately 1,900 m³ assuming that the Payette and Robert St. W. reservoirs were both removed from the system due to age and condition. Therefore, based on the MOE Guidelines and the projected water demands, a minimum storage volume of approximately 1,900 m³ needs to be added to the Penetanguishene water system, specifically in the Lower pressure zone, to meet 2031 demands.

These figures confirms what the Town of Midland has indicated that it is unlikely that the Penetanguishene system has surplus of capacity to serve Midland and it is more likely that Midland export water in the future to Penetanguishene.

Although this alternative is technically feasible, it would require agreement and coordination with the Town of Penetanguishene. Further discussion between the Town of Penetanguishene and the Town of Midland would be required to investigate this opportunity and consequences of combing systems (e.g. increased operational complexity.)

Advantages

- Potential backup water supply/source provided
- Potential revenue for water exports

Disadvantages

- Capital cost for watermain infrastructure to connect systems
- Does not increase water storage in Town of Midland
- Not a stand-alone option; requires implementation of other alternatives ? so does preferred alternative
- Agreements required between Town of Midland and Town of Penetanguishene
- Potential unwanted water quality blends (some surrounding water systems continue with common boil water advisories. This can be hard to sell to existing customers)
- Would significantly increase complexity of operating water system.

7.2 Issue No. 2 – Storage Deficiency – East Pressure Zone

Some alternative solutions were initially identified to address the storage capacity issues that were outlined in Section 6.10.

- Alternative 2.1 – Do Nothing
- Alternative 2.2 – Reduce Water Demand
- Alternative 2.3 – Relocate existing Montreal Street Standpipe
 - Alternative 2.3A – Relocation to East pressure zone
 - Alternative 2.3B – Relocation to other location in West pressure zone
 - Alternative 2.3C – Relocation to location in newly defined pressure zone

7.8.2 Alternative 8.2 – Provide Watermain Twinning along Harbourview Drive

Twinning the existing 300mm watermain along Harbourview Drive from Vindin St. to Harmony Lane will provide system redundancy for the areas north of Vindin Street in the event of a watermain break emergency. The length of this watermain is approximately 1,100 m. The size would be the same as the existing watermain, 300mm in diameter.

Advantages

- Will provide redundancy to areas in case of a watermain break

Disadvantages

- Capital cost of watermain twinning

7.8.3 Alternative 8.3 – Provide well supply north of the single feed

By having a well supply north of the single feed, the areas at risk would have sufficient redundancy because they would have their own supply of water. So even in a situation where the 300mm is out of service, the area would function solely with the new well facility and the Everton Tank.

Advantages

- Will provide redundancy to areas in case of a watermain break
- Could be combined with well supply capacity upgrades

Disadvantages

- Capital cost of new well facility
- Potential limitations in finding a suitable location for well.

Table 28 Conceptual Cost Estimates for the Various Alternatives

Issue	Alternative	Description of Alternative	Pipe Length (m)	Pipe Diameter (mm)	Storage and Type (m ³)	Storage Relocation (m ³)	Number of Pumps	Pumps Flow (l/s)	Pumps Head (m)	Well Capacity (l/s)	Treatment (l/s)	Conceptual Cost (CAD\$)
Issue No. 1 – Well Supply Capacity	1.3	Provide treatment and utilize existing Sundowner Well, capacity 53 l/s									53	\$ 1,435,000
	1.4A	Construct a single high capacity well facility 51 l/s						1 x 53			53	\$ 624,000
	1.4B	Construct multiple new well facilities to add up 51 l/s						3 x 17 = 51			3 x 17 = 51	\$ 1,487,000
	1.5	Connect to Tay system from Odgens Beach Road to Aberdeen Boulevard	1,200	250								\$ 1,790,000
Issue No. 2 – Storage Deficiency – East Pressure Zone	2.3 A	Relocate Montreal tank in East pressure zone				2,881						\$ 927,000
	2.3 B	Relocate Montreal tank in West pressure zone				2,881						\$ 786,000
	2.3 C	Relocate Montreal tank in New South pressure zone				2,881						\$ 914,000
	2.4 A	Located in East pressure zone			2,500							\$ 2,120,000
	2.4 B	Located in West pressure zone			2,500							\$ 2,120,000
	2.4 C	Located in New South pressure zone			2,500							\$ 2,120,000
Issue No. 3 – Pumping Deficiency - Lescaut Pressure Zone	3.2	Add new extra pump to the existing "Sunnyside" pumps					1	1 x 12	69			\$ 303,000
	3.3	Add all new pumps to booster station					3	1 x 6, 2 x 14	32			\$ 541,000
	4.2	Extend Lescaut Pressure Zone Boundary. Build a new watermain to connect north-south systems Donalds Street to north of Southwinds Crescent	865	250								\$ 1,180,000
Issue No. 5 – Pressure Deficiency – Area No. 2 – South of Little Lake	5.2	Booster station at the East PZ to South PZ					3	3 x 18	22			\$ 815,000
	5.3	Booster station at New South PZ, Supports East Storage Deficit					3	3 x 53	145			\$ 887,000
	5.4	Connect to West pressure zone from Sundowner Road to Highway 12 (2.1 km), and then along Highway 12 to Beamish Road (1.6 km)	3,700	300								\$ 5,794,000
Issue No. 6 – System Redundancy – East-West Transfer	6.2	Provide treatment and operate Sundowner Well									53	\$ 1,435,000
	6.3 A	Booster Station near 7th Street and Victoria Street					3	3 x 34.7	40			\$ 845,000
	6.3 B	Booster station located near extended East-West Pressure Zone boundary					3	3 x 34.7	61			\$ 827,000
Issue No. 7 – Provide System Redundancy North-South (Lescaut Area)	7.2	Build a new watermain to connect north-south systems Donalds Street to north of Southwinds Crescent	865	250								\$ 1,180,000
	8.2	Provide watermain twinning from Viridin Street to Harmony Lane	845	300								\$ 1,368,000
Issue No. 8 – System Redundancy North of Viridin (along Harborview)	8.3	Provide well supply north of single feed								10		\$ 472,000

Alternative 5.3 has the potential to cause cost impacts to municipal finances as a connection and sharing between Midland and Tay would exist. However, discussions between the Town of Midland and the Township of Tay are required to determine the extent of the municipal finance impacts.

8.7 Legal and Jurisdictional

Alternatives Alternative 1.3 (use existing Sundowner well) and 6.2 (provide treatment to Sundowner) would have high complexity in terms of approvals required due to TCE contamination. High complexity for approvals exists for alternative 1.5 (connect Midland system to an external system), as it would require an agreement and approvals between the Town of Midland and other townships. Alternatives 8.3 (provide well supply north areas) and 1.4 (New well facility) have moderate approval complexities resulting from a required Environmental Compliance Approval (ECA) and Permit to take Water (PTTW) if these groundwater wells are activated.

Alternatives 2.3 (relocate existing Montreal standpipe), 2.4 (construct new storage facility), 3.3 and 3.4 (add pumps to the Lescaut pressure zone area), 4.2 (extend Lescaut pressure zone boundary), 5.2 (connect south area to east pressure zone), 7.2 (build a new water main north-south – Lescaut area), and 8.2 (twin Harborview water main) would have no land requirements as the Town already owns the land in these areas.

Higher impacts are anticipated with land acquisition requirements for 6.3 (provide secondary booster E-W), as the Town potentially does not own these lands.

8.8 Technical Considerations

In terms of well supply alternative 1.4b requires higher infrastructure requirements than 1.4a alternative. Alternative 1.3 requires a significant infrastructure investment as well and also its implementation can be difficult due to the trichloroethylene (TCE) treatment/public acceptance and it also can increase the complexity of the system operation. Alternative 1.5 would also increase the complexity of the operation of the water distribution system as it would now be connected to potentially Tay's or Penetanguishene's water distribution systems.

In terms of storage deficiency, relocation of the Montreal standpipe (alternative 2.3) appears to be a feasible and cost effective alternative. It has been proposed to be moved near the Mountainview standpipe. However, relocating this in the new south pressure zone could potentially be more beneficial. A more detail study should be conducted to confirm this is an acceptable solution. Considerations should be given to the cost of the foundation and pedestal, and factors such as aesthetics. If the tank is relocated additional storage would still be required. Alternative 2.4 has the ability to provide the required water storage for long-term needs with or without relocating Montreal. Alternatives 2.1 and 2.2 would not provide additional storage and would over-utilize the storage capacity in the Town.

For the extension of the Lescaut pressure zone the alternative 3.2 (adding an additional pump) it could potentially be inefficient to operate even with a VFD feature. One advantage is that there will be savings in re-using the "Sunnyside" pumps. The downside, apart from the inefficiency is the potential high maintenance costs of the used pumps. Alternative 3.3 has the advantage that the pumps can be properly designed to operate efficiently. While this study is conducted, the Town is studying the possibility of installing these used pumps. Alternatives 4.2 and 7b provide redundancy and increase the pipe conveyance capacity north-south once the Lescaut area is expanded.

With respect to the pressure deficiency south of Little Lake, alternative 5.3 provides the most efficient strategy as it would use the storage surplus from the west minimizing the pumping from the east. This alternative as well as alternative 5.2 would require a booster station on the south in the limits of east and west pressure zone boundary. Alternative 5.3 would supply the entire new south pressure zone with surplus to the east zone and would feed the

LEGEND: X Most preferred; no to low impacts
 V Low to Moderate impacts

F Moderate to high impacts
 P Least preferred; High impacts

t Moderate impacts

Issue No. 8 – System Redundancy North of Vindin (along Harborview)

Evaluation Criteria	Alternative B.1 "The Nothing"	Alternative B.2 Provide wastewater treatment along Harborview	Alternative B.3 Provide well supply north of bridge
Natural Environment	Impact to Environmentally Protected areas and Areas of Natural and Scientific Interest (ANSI)	No impacts	Low impacts as potential site is likely not to be within Environmentally Protected or ANSI lands
	Sensitive species habitat	No impacts	Low impacts as potential site is likely not to be within Environmentally Protected or ANSI lands
	Disruption to natural features (removal of trees, etc.)	No impacts	Low impacts as potential site is likely not to be within Environmentally Protected or ANSI lands
	Stream crossing	No impacts	No stream crossings identified
	Summary	X	V
	Canine growth	Can potentially compromise growth	Provides long-term supply requirements and will allow Town growth
	Archaeological/historical resources	No impacts	No impacts
	Fire/hazards considerations	No impacts	No impacts
	Agricultural resources	No impacts	No impacts
	Road construction (radicopavement)	No impacts	Moderate impacts as site is along major road
Social & Cultural	Groundwater water quality	No impacts	No impacts
	Temporary construction impacts (noise, dust, safety of public)	No impacts	Moderate potential for impacts as site is readily accessible
	Summary	t	V
	Estimated capital cost	N/A	\$ 1,358,000
	Infrastructure use and requirements	None	Low infrastructure requirements (new wellhead)
	O&M Costs	No additional costs	No additional costs
	Summary	X	V
	Complexity of approvals and agreements	No approvals required	No approvals required
	Land requirements	No land requirements	Land acquisition required
	Summary	X	P
Economic & Financial	Barriers of existing infrastructure	Negative impacts as supply security in the north area is not guaranteed	Low infrastructure requirements, provides redundancy to north areas
	Ability to meet short-term and long-term servicing demands	It can compromise long term water servicing	Supports long-term servicing demands as it provides system redundancy
	Ease of implementation (timing)	N/A	Short time is expected
	Difficulty of construction	N/A	Moderate difficulty of construction due to work near road
	Operational and maintenance complexity	Increases maintenance requirements	System operation will remain the same
	Summary	P	V
	Final Evaluation	F	X
	Preferred Alternative		Preferred Alternative

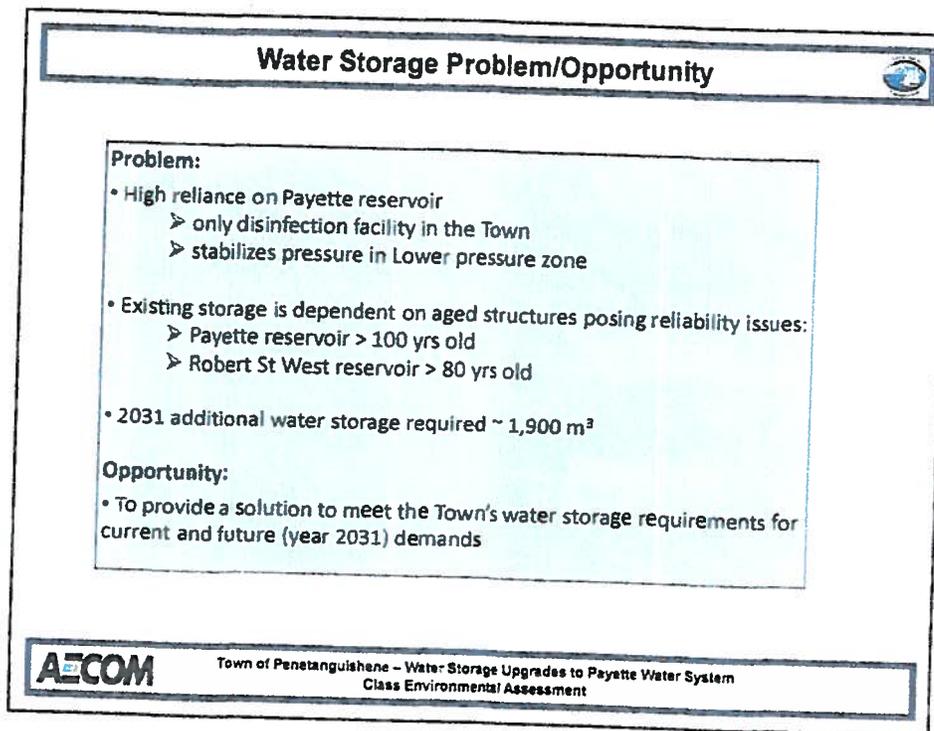
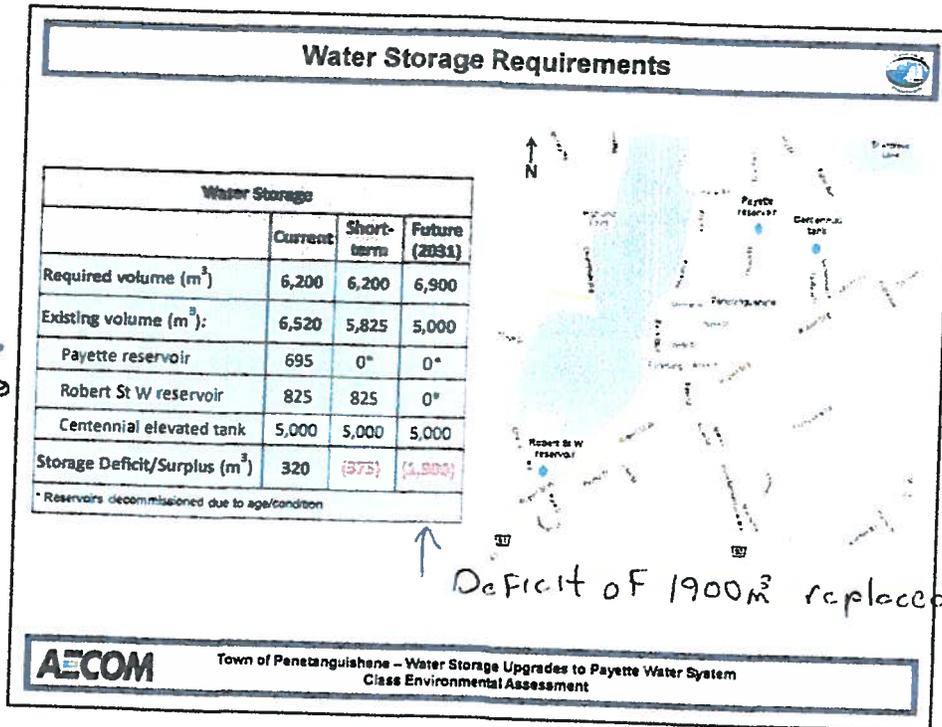
Does not include link to Penobscot's have system as was dismissed based on incomplete and/or incorrect information.

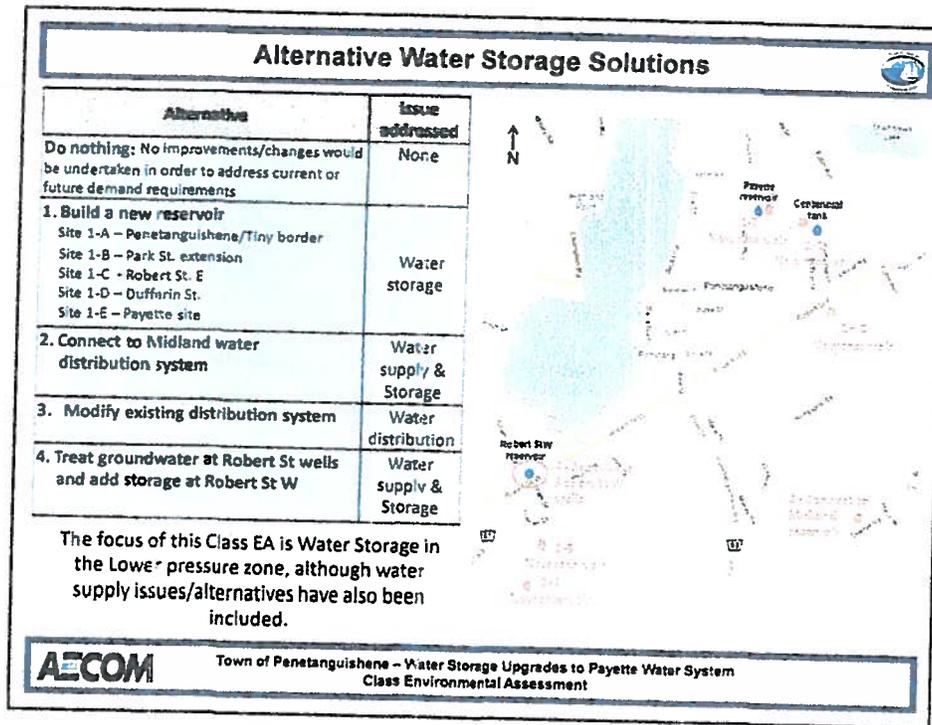
Table 30 Conceptual Cost Estimate of Preferred Alternative

Issue	Alternative	Description of Alternative	Pipe Length (m)	Pipe Diameter (mm)	Storage and Type (m3)	Storage Relocation (m3)	Number of Pumps	Pumps Flow (L/s)	Pumps Head (m)	Well Capacity (L/s)	Conceptual Cost (CAD\$)
Issue No. 1 – Well Supply Capacity	1.4A	Construct a single high capacity well facility 51 L/s						1 x 53		53	\$ 624,000
Issue No. 2 – Storage Deficiency – East Pressure Zone	2.3 B 2.4 C	Relocation to other location in West pressure zone Located in New South pressure zone			2,500	2,881					\$ 786,000 \$ 2,120,000
Issue No. 3 – Pumping Deficiency - Lescaut Pressure Zone	3.3	Add all new pumps to booster station					3	1 x 6, 2 x 14	32		\$ 541,000
Issue No. 4 – Pressure Deficiency – Area No. 1 – East of Lescaut	4.2	Extend Lescaut Pressure Zone Boundary. Build a new watermain to connect north-south systems Donalda Street to north of Southwinds Crescent	865	250							\$ 1,180,000
Issue No. 5 – Pressure Deficiency – Area No. 2 – South of Little Lake	5.3	BS at New South PZ. Supports East Storage Deficit					3	3 x 53	145		\$ 887,000
Issue No. 6 – System Redundancy – East-West Transfer	6.3 A	Booster Station near 7th Street and Victoria Street					3	3 x 34.7	40		\$ 827,000
Issue No. 7 – Provide System Redundancy North-South (Lescaut Area)	7.2	Build a new watermain to connect north-south systems Donalda Street to north of Southwinds Crescent	865	250							\$ 1,180,000
Issue No. 8 – System Redundancy North of Windin (along Harborview)	8.2	Provide watermain twinning from Windin Street to Harmony Lane	845	300							\$ 1,368,000

Penetanguishene E.A. Payette
Storage 2012
Built and operational 2015

3/20/2012





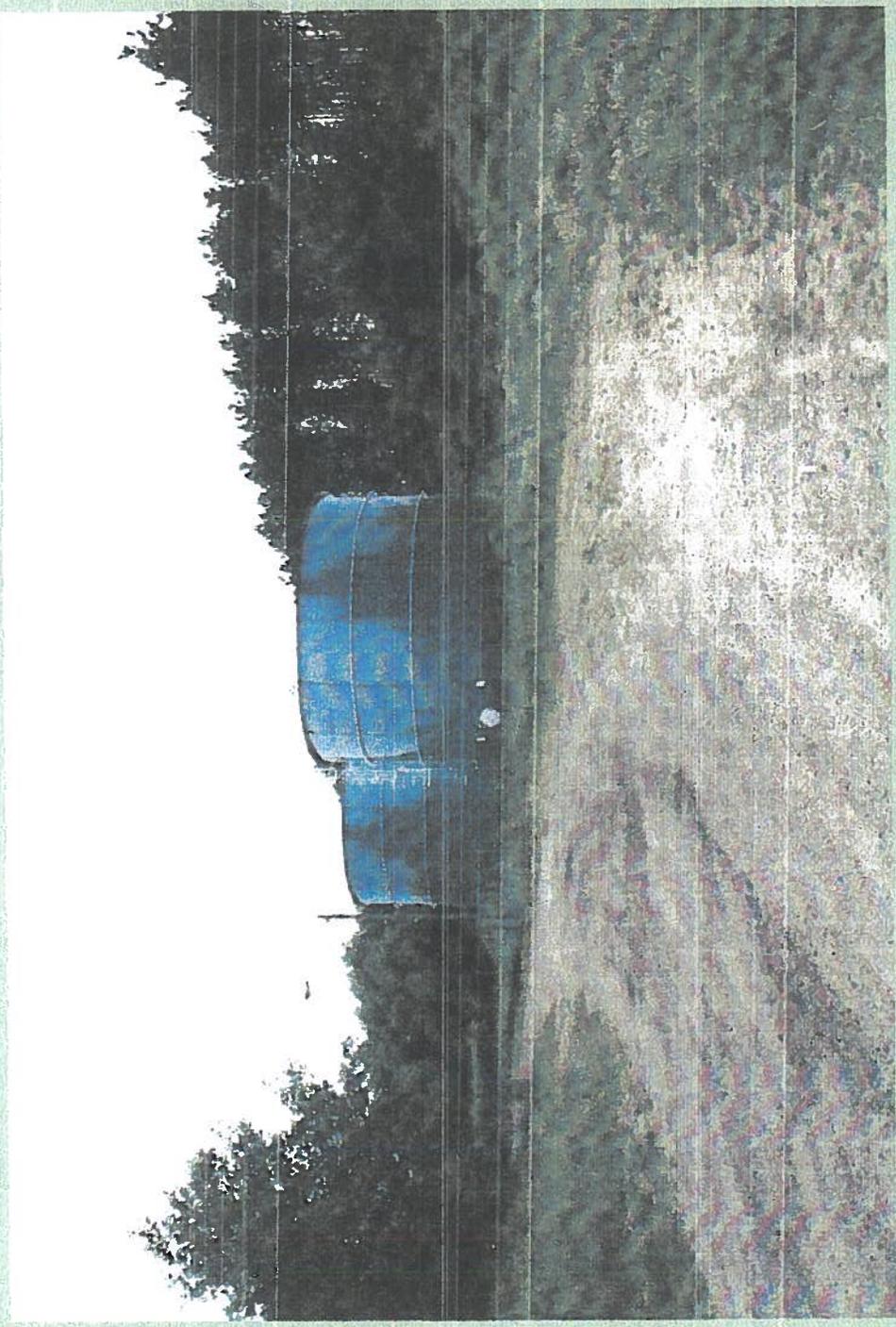
Summary of Alternative Advantages/Disadvantages

Alternative	Advantages	Disadvantages
Do nothing	<ul style="list-style-type: none"> No impact on natural environment or disturbances from construction 	<ul style="list-style-type: none"> Does not address water storage requirements
1A New reservoir - Penetanguishene/Tiny border	<ul style="list-style-type: none"> Addresses water storage requirements Isolated area so low disturbances to public from construction 	<ul style="list-style-type: none"> Within environmentally protected land High capital cost (water mains, booster pumps, land acquisition, etc.)
1B New reservoir - Park St. extension	<ul style="list-style-type: none"> Addresses water storage requirements Isolated area so low disturbances to public from construction 	<ul style="list-style-type: none"> Within environmentally protected land High capital cost (booster pumps, water mains, land acquisition, etc.)
1C New reservoir - Robert St. E	<ul style="list-style-type: none"> Addresses water storage requirements Low disturbance to residents from construction 	<ul style="list-style-type: none"> Far from service area (Lower pressure zone) High capital cost (booster pumps, water mains, land acquisition, etc.)
1D New reservoir - Dufferin St.	<ul style="list-style-type: none"> Addresses water storage requirements Municipally owned property 	<ul style="list-style-type: none"> High capital cost (booster pumps, well pump upgrade, water mains, etc.)
1E New reservoir - Payette site	<ul style="list-style-type: none"> Addresses water storage requirements Municipally owned property Does not increase operational complexity Lowest capital cost (existing infrastructure used) 	
2 Connect to Midland water distribution system	<ul style="list-style-type: none"> Provides alternate source of water supply and decreases water supply risk 	<ul style="list-style-type: none"> Does not address short-term water storage issues Increases complexity of water system Requires agreement between municipalities
3 Modify existing distribution system	<ul style="list-style-type: none"> Could add flexibility and redundancy in operation of water system 	<ul style="list-style-type: none"> Does not address water storage requirements
4 Treat groundwater at Robert St W wells and Add storage volume	<ul style="list-style-type: none"> Addresses water supply and water storage needs No land acquisition required 	<ul style="list-style-type: none"> High capital cost Increases operational complexity and maintenance requirements

Selected →

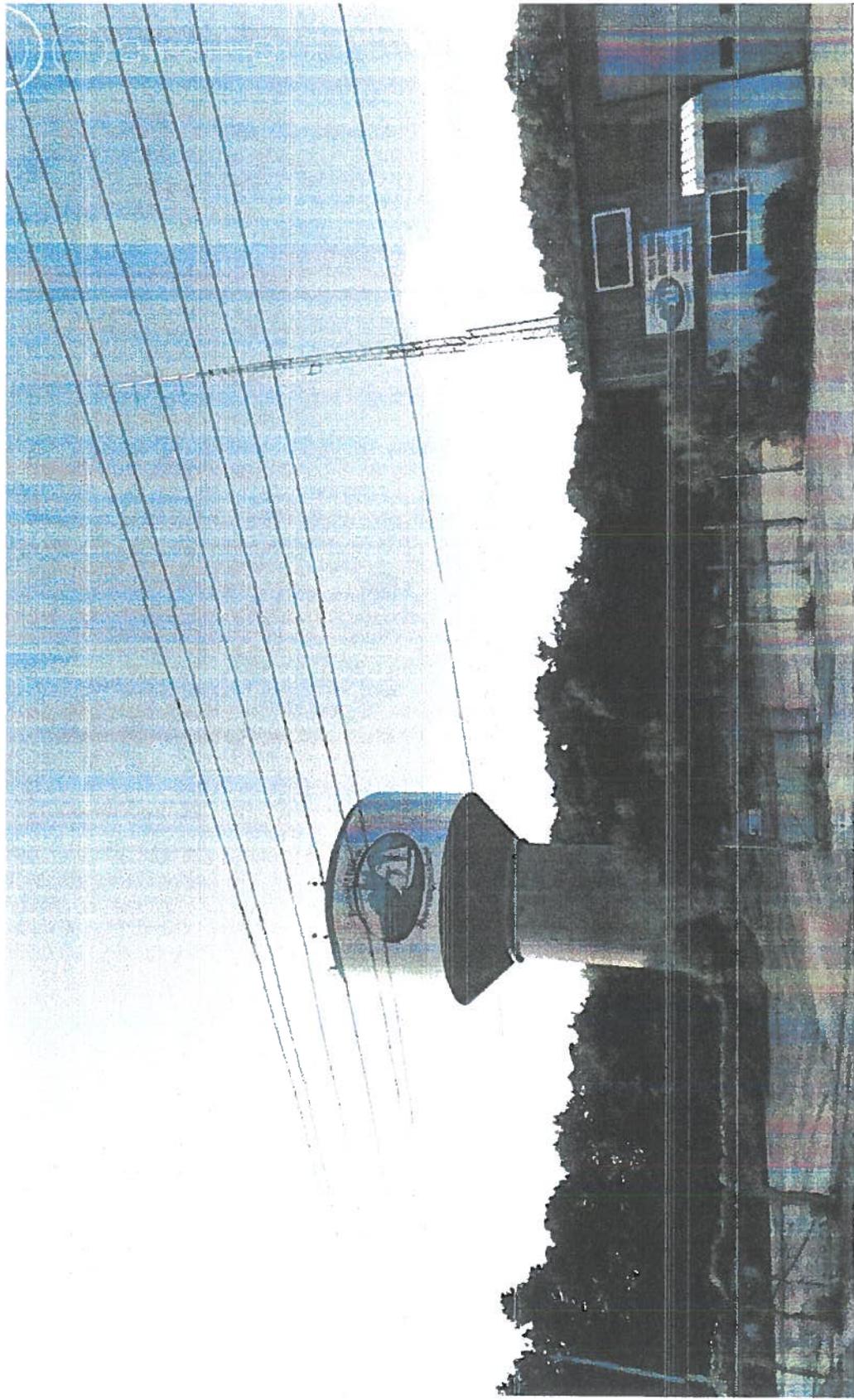
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Town of Penetanguishene – Water Storage Upgrades to Payette Water System
Class Environmental Assessment



TOWN OF PENETANGUISHENE PAYETTE RESERVOIR UPGRADES

Built & Operational 2015



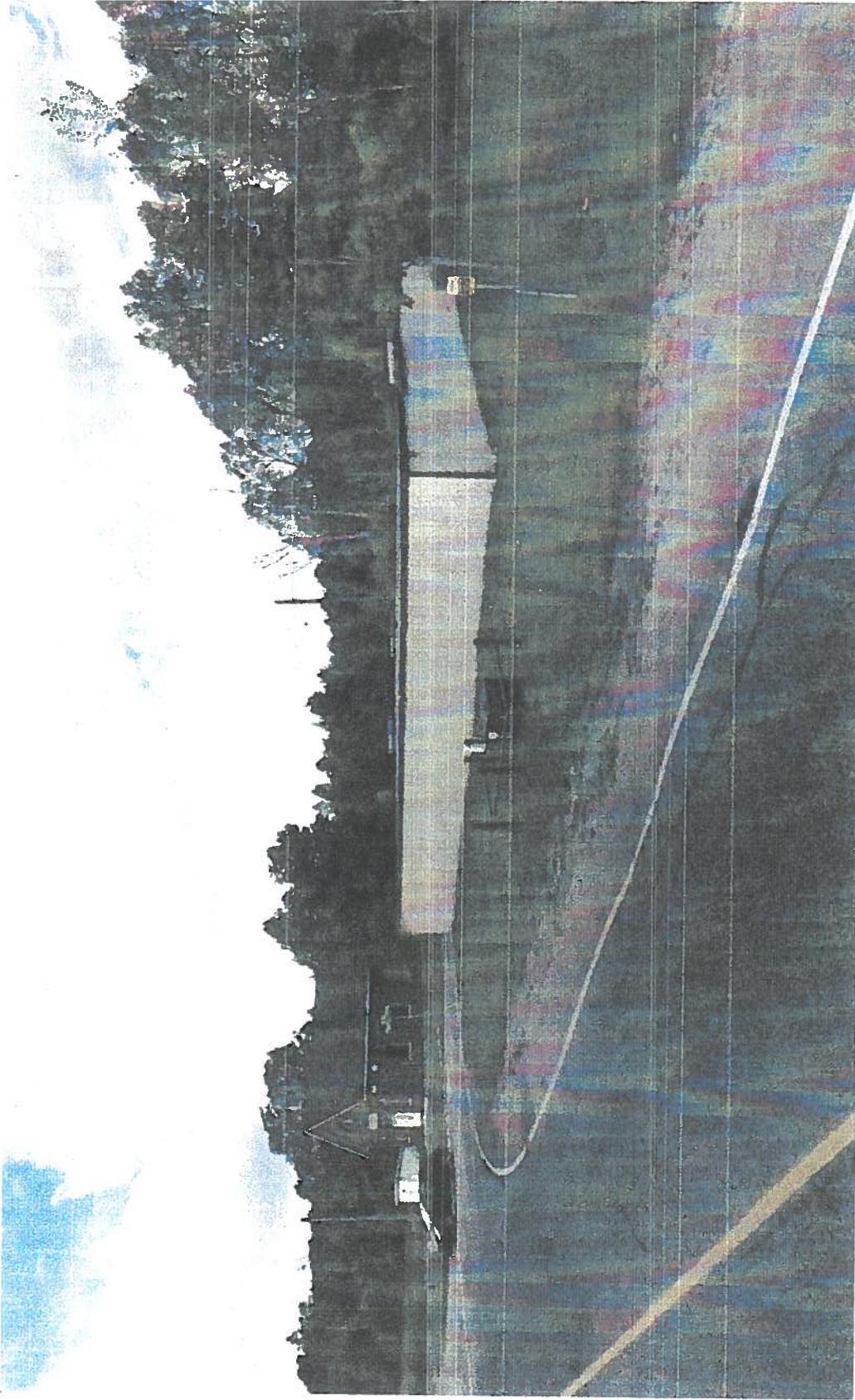
Constructed in 1993 (21 yrs old)
Entirely above-grade/elevated
5,000 m³ capacity



Constructed in 1910 (104 yrs old)

Above-grade, earth berm around it

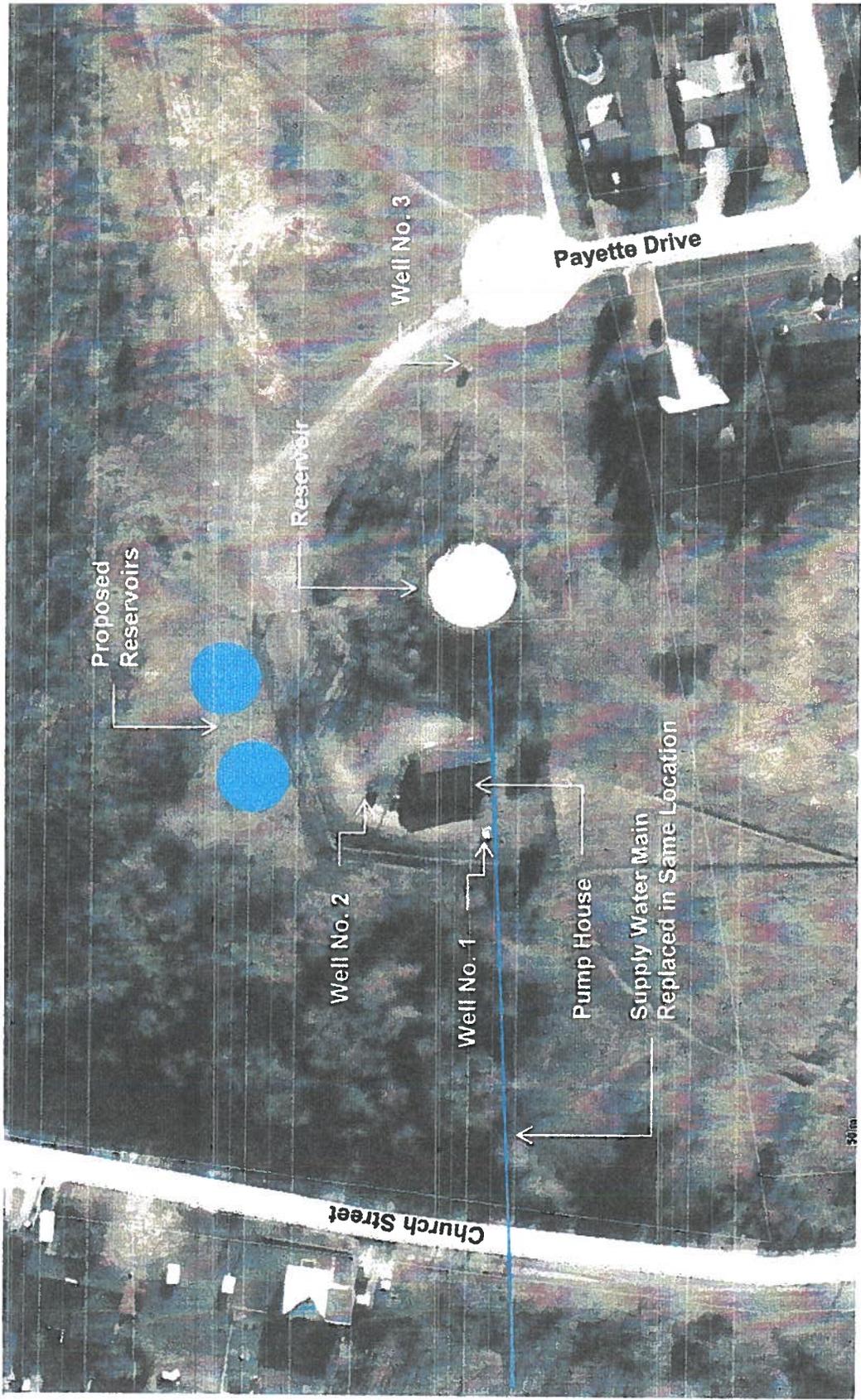
1,100 m³ capacity



Constructed in 1931 (83 yrs old)

Partially above-grade

1,100 m³ capacity



Preliminary Design of Upgrades



- Existing Payette Drive reservoir is 15.5 m diameter and 6.5 m high.
- Cast-in-place concrete, above-grade and bermed with earth all around.
- No redundancy. Difficult to service without taking off-line, causing service interruptions.
- New Payette reservoir capacity: 2,200 m³ (combined capacity of existing Payette Drive and Robert Street West reservoirs).

Preliminary Design of Upgrades

- Two above-grade reservoirs, each 12.8 m diameter and 8.5 m high, 1,100 m³ capacity (2,200 m³ total).
- Proposed location is generally behind existing reservoir berm.
- Also replacing existing 104 year old supply water main from existing reservoir to Church Street. Has reached end of life. Needs to be replaced to prevent failure and loss of service.

Schedule

21

- Complete design and obtain approvals in 2014.
- Construction scheduled for 2015.

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	W220001147
Drinking-Water System Name:	Payette (Penetanguishene) Well Supply
Drinking-Water System Owner:	Town of Penetanguishene
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	2011

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [<input checked="" type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>2 Locations: Municipal Office, 10 Robert Street West, Penetanguishene, Ontario Public Works Office, 22 Centennial Drive Penetanguishene, Ontario</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 50px; text-align: center;" type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <input style="width: 50px; text-align: center;" type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
--	---

List Drinking-Water Systems, which receive all of their drinking water from your system:

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?
 Yes [] No []

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper

- Public access/notice via Public Request**
- Public access/notice via a Public Library**
- Public access/notice via other method** _____

Describe your Drinking-Water System

The Penetanguishene Water System is a ground water system with its main pumping station located at #64 Payette Drive in the Town of Penetanguishene. The system provides disinfection to the water as treatment. The system has a rated capacity of 11,000m³/day and presently serves a population of approximately 3,444 Residential Units and 225 Industrial/Commercial/Institutional Units. In 2011, the Maximum Day demand was approximately 53.3 % (5867.0 m³/day) of the rated capacity. The Average Day demand was 32.1% (3532.2 m³/day) of the rated capacity which represents a 0.5% decrease from the 2010 average day. The system is supplied by three (3) wells which pump into the reservoir at Payette Drive. The existing pumps in the 3 wells are incapable of supplying more than the maximum flow rates allowed by the Permit-To-Take-Water. There are four pressure zones in the Payette System named: Upper Zone, Lower Zone, Gilwood Zone Bellisle Heights Zone.

List all water treatment chemicals used over this reporting period

Chlorine Gas and Sodium Hypochlorite.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Describe

The Payette Drive Pumping Station, in 2011 had the Wallace and Tiernan model 50-350 Cl₂ gas alarm detector replaced with a Wallace and Tiernan Acutec 35 Chlorine Gas Detector. The detector installation was completed and wired in to the SCADA system on November 14, 2011. Also, a Campbell Scientific Inc. RM Young Model 52202 Electrical Heated Rain and Snow Gauge was installed on the roof of the Payette Pumping Station and wired into the SCADA system. Also, The Detroit Diesel generator had its batteries, automatic battery charger and block heater replaced between November 24, 2011 to November 29, 2011.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

Microbiological testing done under section 8-2 during this reporting period

	Number of Samples	Range of E.Coli Or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples Or Background Colony Counts	Range of HPC Results (#-#) Or Background Colony Counts
Raw	156	0	0	5	0 - 9
Treated	52	0	0	4	0 - 20
Distribution	260	0	0	16	0 - 370

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.000 – 1.000 NTU
Chlorine	8760	0.000 – 1.052 mg/L
Chlorine Residual Distribution System	8760	0.002 – 0.746 mg/L
Fluoride (If the DWS provides fluoridation)	N/A	N/A

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is not milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	May 11/11	0.09	ug/L	NO
Arsenic	May 11/11	0.5	ug/L	NO
Barium	May 11/11	61.0	ug/L	NO
Boron	May 11/11	10	ug/L	NO
Cadmium	May 11/11	0.003<MDL	ug/L	NO
Chromium	May 11/11	2.0	ug/L	NO
Lead	Feb 14/11 May/11/11	0.30 0.32	ug/L	NO
Mercury	May 11/11	0.02<MDL	ug/L	NO
Selenium	May 11/11	3	ug/L	NO
Sodium	Aug. 15/11	20.2	mg/L	YES
Uranium	May 11/11	0.74	ug/L	NO

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrite	Feb. 14/11 May 11/11 Aug. 15/11 Nov. 14/11	0.005<MDL	mg/L	NO
Nitrate	Feb. 14/11 May 11/11 Aug. 15/11 Nov. 14/11	1.43	mg/L	NO

Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	May 11/11	0.02<MDL	ug/L	NO
Aldicarb	May 11/11	0.01<MDL	ug/L	NO
Aldrin + Dieldrin	May 11/11	0.01<MDL	ug/L	NO
Atrazine + N-dealkylated metabolites	May 11/11	0.01<MDL	ug/L	NO
Azinphos-methyl	May 11/11	0.02<MDL	ug/L	NO
Bendiocarb	May 11/11	0.01<MDL	ug/L	NO
Benzene	May 11/11	0.32<MDL	ug/L	NO
Benzo(a)pyrene	May 11/11	0.004<MDL	ug/L	NO
Bromoxynil	May 11/11	0.033<MDL	ug/L	NO
Carbaryl	May 11/11	0.01<MDL	ug/L	NO
Carbofuran	May 11/11	0.01<MDL	ug/L	NO
Carbon Tetrachloride	May 11/11	0.16<MDL	ug/L	NO
Chlordane (Total)	May 11/11	0.01<MDL	ug/L	NO
Chlorpyrifos	May 11/11	0.02<MDL	ug/L	NO
Cyanazine	May 11/11	0.03<MDL	ug/L	NO
Diazinon	May 11/11	0.02<MDL	ug/L	NO
Dicamba	May 11/11	0.20<MDL	ug/L	NO
1,2-Dichlorobenzene	May 11/11	0.41<MDL	ug/L	NO
1,4-Dichlorobenzene	May 11/11	0.36<MDL	ug/L	NO
Dichlorodiphenylt richloroethane (DDT) + metabolites	May 11/11	0.01<MDL	ug/L	NO
1,2-Dichloroethane	May 11/11	0.35<MDL	ug/L	NO
1,1-Dichloroethylene (vinylidene chloride)	May 11/11	0.33<MDL	ug/L	NO
Dichloromethane	May 11/11	0.35<MDL	ug/L	NO
2-4 Dichlorophenol	May 11/11	0.15<MDL	ug/L	NO
2,4-Dichlorophenoxy acetic acid (2,4-D)	May 11/11	0.19<MDL	ug/L	NO
Diclofop-methyl	May 11/11	0.40<MDL	ug/L	NO

Drinking-Water Systems Regulation O. Reg. 170/03

Dimethoate	May 11/11	0.03<MDL	ug/L	NO
Dinoseb	May 11/11	0.36<MDL	ug/L	NO
Diquat	May 11/11	1<MDL	ug/L	NO
Diuron	May 11/11	0.03<MDL	ug/L	NO
Glyphosate	May 11/11	6<MDL	ug/L	NO
Heptachlor + Heptachlor Epoxide	May 11/11	0.01<MDL	ug/L	NO
Linadane (Total)	May 11/11	0.01<MDL	ug/L	NO
Malathion	May 11/11	0.02<MDL	ug/L	NO
Methoxychlor	May 11/11	0.01<MDL	ug/L	NO
Metolachlor	May 11/11	0.01<MDL	ug/L	NO
Metribuzin	May 11/11	0.02<MDL	ug/L	NO
Monochlorobenze ne	May 11/11	0.30<MDL	ug/L	NO
Paraquat	May 11/11	1<MDL	ug/L	NO
Parathion	May 11/11	0.02<MDL	ug/L	NO
Pentachloropheno l	May 11/11	0.15<MDL	ug/L	NO
Phorate	May 11/11	0.01<MDL	ug/L	NO
Picloram	May 11/11	0.25<MDL	ug/L	NO
Polychlorinated Biphenyls(PCB)	May 11/11	0.04<MDL	ug/L	NO
Prometryne	May 11/11	0.03<MDL	ug/L	NO
Simazine	May 11/11	0.01<MDL	ug/L	NO
THM (NOTE: show latest annual average)	Feb. 14/11 May 11/11 Aug. 15/11 Nov. 14/11	4.05	ug/L	NO
Temephos	May 11/11	0.01<MDL	ug/L	NO
Terbufos	May 11/11	0.01<MDL	ug/L	NO
Tetrachloroethyle ne	May 11/11	0.35<MDL	ug/L	NO
2,3,4,6- Tetrachloropheno l	May 11/11	0.14<MDL	ug/L	NO
Triallate	May 11/11	0.01<MDL	ug/L	NO
Trichloroethylene	May 11/11	0.43<MDL	ug/L	NO
2,4,6- Trichlorophenol	May 11/11	0.26	ug/L	NO
2,4,5- Trichlorophenoxy acetic acid (2,4,5- T)	May 11/11	0.22<MDL	ug/L	NO
Trifluralin	May 11/11	0.02<MDL	ug/L	NO
Vinyl Chloride	May 11/11	0.17	ug/L	NO

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Drinking-Water Systems Regulation O. Reg. 170/03

Parameter	Result Value	Unit of Measure	Date of Sample

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:
Drinking-Water System Name:
Drinking-Water System Owner:
Drinking-Water System Category:
Period being reported:

W220001147
Payette (Penetanguishene) Well Supply
Town of Penetanguishene
Large Municipal Residential
2015

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No []

Is your annual report available to the public at no charge on a web site on the Internet? Yes [] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

2 Locations:
 Municipal Office, 10 Robert Street West,
 Penetanguishene, Ontario
 Public Works Office, 22 Centennial Drive
 Penetanguishene, Ontario

Complete for all other Categories.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

List Drinking-Water Systems, which receive all of their drinking water from your system:

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [] No []

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper

- Public access/notice via Public Request**
- Public access/notice via a Public Library**
- Public access/notice via other method** _____

Describe your Drinking-Water System

The Penetanguishene Water System is a ground water system with its main pumping station located at #64 Payette Drive in the Town of Penetanguishene. The system provides disinfection to the water as treatment. The system has a rated capacity of 11,000m³/day and presently serves a population of approximately 2,611 Residential Units and 242 Industrial, Commercial, Institutional, and Multi-residential accounts. In 2015, the Maximum Day demand was approximately 43.0% (4725.6 m³/day) of the rated capacity. The Average Day demand was 30.3% (3328.5 m³/day) of the rated capacity which represents a 1.4% decrease from the 2014 average day.

The system is supplied by three (3) wells which pump into the stand pipes at Payette Drive. The existing pumps in the 3 wells are incapable of supplying more than the maximum flow rates allowed by the Permit-To-Take-Water. There are four pressure zones in the Payette System named: Upper Zone, Lower Zone, Gilwood Zone and Bellisle Heights Zone.

List all water treatment chemicals used over this reporting period

Chlorine Gas and Sodium Hypochlorite.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Describe

The Payette Drive Pumping Station, in 2015 saw several pieces of equipment replaced and repaired.

- The Payette Reservoir was replaced and decommissioned. Greatario Engineered Storage Systems installed two 1,105 m³ glass lined stand pipes.
- The Payette Drive Pumping Station had its existing Wallace and Tiernan V-notch gas chlorine system upgraded to a Severn Trent Service Series Nxt 3000 system.
- A new chlorine gas scrubber unit and blower were also added.
- Payette Drive Well #1 had considerable work done by International Water Supply. A new National Pumps wet end driven by a Franklin Electric 50 HP motor was installed. The pump was set on new 152 mm black steel T&C pipe. Also, a Flomatic check valve was installed at the top of the pump.
- The two GA Industries swing check valves on the Booster pumps were replaced with Flomatic Surgebuster 7206C check valves.
- The Depolox 3 Plus treated analyzer was upgraded to Depolox 5 wet side and a new version of the Depolox 3 Plus dry side.

The Robert Street East Booster Station also had significant upgrades in 2015.

- The Depolox 3 Plus Distribution analyzer was upgraded to Depolox 5 wet side and a new version of the Depolox 3 Plus dry side.
- A 150 mm Rosemount Magnetic Meter and Singer Pressure Reducing Valve with a pressure sustaining feature was installed inside Robert Street East Monitoring Station by H₂O natrio.

The Payette Drive Distribution System had several watermain replacements or upgrades completed in 2015.

- A 100 mm Singer Pressure Reducing Valve with a pressure sustaining feature was installed at Broad Street and Church Street.
- A new 75.0 meter stretch of 100 mm diameter C900 Class watermain was installed by Sabin Charlebois and Haulage on Water Street.
- A new 240.0 meter stretch of 150mm C900 Class was pipe was installed along Beck Boulevard by Maacon Construction.
- The 250 mm cast iron transmission watermain from the Payette Stand Pipes to Church Street was replaced with of twinned 250 mm C900 Class watermain.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
February 20, 2015	Watermain failure, shutdown and replacement	N/A	N/A	Superchlorinate, flush section of distribution system and sample two locations	February 21, 2015

Microbiological testing done under section 8-2 during this reporting period

	Number of Samples	Range of E.Coli Or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples Or Background Colony Counts	Range of HPC Results (#-#) Or Background Colony Counts
Raw	153	4	1 – 11	16	1 – 120
Treated	52	0	0	4	10 – 2.00 x 10 ³
Distribution	260	0	0	16	10 – 1.10 x 10 ³

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

Drinking-Water Systems Regulation O. Reg. 170/03

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.000 – 1.000 NTU
Chlorine	8760	0.000 – 4.999 mg/L
Chlorine Residual Distribution System	8760	0.000 – 1.583 mg/L
Fluoride (If the DWS provides fluoridation)	N/A	N/A

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is not milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Feb. 12/15	0.13	ug/L	No
Arsenic	Feb. 12/15	0.2<MDL	ug/L	No
Barium	Feb. 12/15	55	ug/L	No
Boron	Feb. 12/15	9.4	ug/L	No
Cadmium	Feb. 12/15	0.003<MDL	ug/L	No
Chromium	Feb. 12/15	0.69	ug/L	No
Lead	Feb. 12/15	0.29	ug/L	No
Mercury	Feb. 12/15	0.08	ug/L	No
Selenium	Feb. 12/15	1<MDL	ug/L	No
Sodium	Feb. 12/15	12.7	mg/L	No
Uranium	Feb. 12/15	0.741	ug/L	No
Nitrite (NOTE: show latest annual average)	Feb. 12/15 May 14/15 Aug. 13/15 Nov. 12/15	0.003<MDL	mg/L	No
Nitrate (NOTE: show latest annual average)	Feb. 12/15 May 14/15 Aug. 13/15 Nov. 12/15	1.23	mg/L	No

Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Feb. 12/15	0.02<MDL	ug/L	No
Aldicarb	Feb. 12/15	0.01<MDL	ug/L	No

Aldrin + Dieldrin	Feb. 12/15	0.01<MDL	ug/L	No
Atrazine + N-dealkylated metabolites	Feb. 12/15	0.01<MDL	ug/L	No
Azinphos-methyl	Feb. 12/15	0.02<MDL	ug/L	No
Bendiocarb	Feb. 12/15	0.01<MDL	ug/L	No
Benzene	Feb. 12/15	0.32<MDL	ug/L	No
Benzo(a)pyrene	Feb. 12/15	0.004<MDL	ug/L	No
Bromoxynil	Feb. 12/15	0.33<MDL	ug/L	No
Carbaryl	Feb. 12/15	0.01<MDL	ug/L	No
Carbofuran	Feb. 12/15	0.01<MDL	ug/L	No
Carbon Tetrachloride	Feb. 12/15	0.16<MDL	ug/L	No
Chlordane (Total)	Feb. 12/15	0.01<MDL	ug/L	No
Chlorpyrifos	Feb. 12/15	0.02<MDL	ug/L	No
Cyanazine	Feb. 12/15	0.03<MDL	ug/L	No
Diazinon	Feb. 12/15	0.02<MDL	ug/L	No
Dicamba	Feb. 12/15	0.20<MDL	ug/L	No
1,2-Dichlorobenzene	Feb. 12/15	0.41<MDL	ug/L	No
1,4-Dichlorobenzene	Feb. 12/15	0.36<MDL	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb. 12/15	0.01<MDL	ug/L	No
1,2-Dichloroethane	Feb. 12/15	0.35<MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Feb. 12/15	0.33<MDL	ug/L	No
Dichloromethane	Feb. 12/15	0.35<MDL	ug/L	No
2-4 Dichlorophenol	Feb. 12/15	0.15<MDL	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb. 12/15	0.19<MDL	ug/L	No
Diclofop-methyl	Feb. 12/15	0.40<MDL	ug/L	No
Dimethoate	Feb. 12/15	0.03<MDL	ug/L	No
Dinoseb	Feb. 12/15	0.36<MDL	ug/L	No
Diquat	Feb. 12/15	1<MDL	ug/L	No
Diuron	Feb. 12/15	0.03<MDL	ug/L	No
Glyphosate	Feb. 12/15	1<MDL	ug/L	No
Heptachlor + Heptachlor Epoxide	Feb. 12/15	0.01<MDL	ug/L	No
Linadane (Total)	Feb. 12/15	0.01<MDL	ug/L	No
Malathion	Feb. 12/15	0.02<MDL	ug/L	No
Methoxychlor	Feb. 12/15	0.01<MDL	ug/L	No
Metolachlor	Feb. 12/15	0.01<MDL	ug/L	No
Metribuzin	Feb. 12/15	0.02<MDL	ug/L	No
Monochlorobenzene	Feb. 12/15	0.30<MDL	ug/L	No
Paraquat	Feb. 12/15	1<MDL	ug/L	No
Parathion	Feb. 12/15	0.02<MDL	ug/L	No
Pentachlorophenol	Feb. 12/15	0.15<MDL	ug/L	No
Phorate	Feb. 12/15	0.01<MDL	ug/L	No
Picloram	Feb. 12/15	1<MDL	ug/L	No
Polychlorinated Biphenyls(PCB)	Feb. 12/15	0.04<MDL	ug/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Prometryne	Feb. 12/15	0.03<MDL	ug/L	No
Simazine	Feb. 12/15	0.01<MDL	ug/L	No
THM (NOTE: show latest annual average)	Feb. 12/15 May 14/15 Aug. 13/15 Nov. 12/15	4.70	ug/L	No
Temephos	Feb. 12/15	0.01<MDL	ug/L	No
Terbufos	Feb. 12/15	0.01<MDL	ug/L	No
Tetrachloroethylene	Feb. 12/15	0.35<MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	Feb. 12/15	0.14<MDL	ug/L	No
Triallate	Feb. 12/15	0.01<MDL	ug/L	No
Trichloroethylene	Feb. 12/15	0.44<MDL	ug/L	No
2,4,6-Trichlorophenol	Feb. 12/15	0.25<MDL	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Feb. 12/15	0.22<MDL	ug/L	No
Trifluralin	Feb. 12/15	0.02<MDL	ug/L	No
Vinyl Chloride	Feb. 12/15	0.17<MDL	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:
Drinking-Water System Name:
Drinking-Water System Owner:
Drinking-Water System Category:
Period being reported:

W220001147
Payette (Penetanguishene) Well Supply
Town of Penetanguishene
Large Municipal Residential
2018

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No []

Is your annual report available to the public at no charge on a web site on the Internet? Yes [] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

2 Locations:
 Municipal Office, 10 Robert Street West,
 Penetanguishene, Ontario
 Public Works Office, 22 Centennial Drive
 Penetanguishene, Ontario

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

List Drinking-Water Systems, which receive all of their drinking water from your system:

--

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [] No []

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper

- Public access/notice via Public Request**
- Public access/notice via a Public Library**
- Public access/notice via other method** _____

Describe your Drinking-Water System

The Penetanguishene Water System is a ground water system with its main pumping station located at #64 Payette Drive in the Town of Penetanguishene. The system provides disinfection to the water as treatment. The system has a rated capacity of 11,000m³/day and presently serves a population of approximately 2855 Residential Units and 119 Industrial/Commercial/Institutional Units. In 2018, the Maximum Day demand was approximately 41.5% (4563.2m³/day) of the rated capacity. The Average Day demand was 25.9% (2844.7 m³/day) of the rated capacity which represents 2.9% increase from the 2017 average day. The system is supplied by three (3) wells which pump into the Stand Pipes at Payette Drive. The existing pumps in the 3 wells are incapable of supplying more than the maximum flow rates allowed by the Permit-To-Take-Water. There are four pressure zones in the Payette System named: Upper Zone, Lower Zone, Gilwood Zone and Bellisle Zone.

List all water treatment chemicals used over this reporting period

Chlorine Gas and Sodium Hypochlorite.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Describe

The Payette Drive Pumping Station upgrades in 2018 consisted of the following:
The Allen Bradley SMC-Plus smart motor control was replaced with an Allen Bradley SMC-3 due to failure.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

Microbiological testing done under section 8-2 during this reporting period

Number	Range of	Range of	Number	Range of HPC

Drinking-Water Systems Regulation O. Reg. 170/03

	of Samples	E.Coli Or Fecal Results (#-#)	Total Coliform Results (#-#)	of HPC Samples Or Background Colony Counts	Results (#-#) Or Background Colony Counts
Raw	155	0	1- 12	6	1-42
Treated	52	0	0	5	20-40
Distribution	260	0	0	20	10-360

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity	8760	0.000 – 1.000
Chlorine	8760	0.029 - 2.031
Chlorine Residual Distribution System	8760	0.204 - 0.958
Fluoride (If the DWS provides fluoridation)	N/A	N/A

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is not milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Feb. 15/18	0.03	ug/L	No
Arsenic	Feb. 15/18	0.2<MDL	ug/L	No
Barium	Feb. 15/18	57.4	ug/L	No
Boron	Feb. 15/18	11	ug/L	No
Cadmium	Feb. 15/18	0.003<MDL	ug/L	No
Chromium	Feb. 15/18	0.83	ug/L	No
Lead	Feb. 15/18	0.63	ug/L	No
Mercury	Feb. 15/18	0.01<MDL	ug/L	No
Selenium	Feb. 15/18	0.14	ug/L	No
Sodium	Feb. 15/18	19.7	mg/L	No
Uranium	Feb. 15/18	0.733	ug/L	No
Nitrite	Feb. 15/18 May 15/18 Aug. 15/18 Nov. 19/18	0.003<MDL	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrate	Feb. 15/18 May 15/18 Aug. 15/18 Nov. 19/18	1.15	mg/L	No
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Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Feb. 15/18	0.02<MDL	ug/L	No
Atrazine + N-dealkylated metabolites	Feb. 15/18	0.01<MDL	ug/L	No
Azinphos-methyl	Feb. 15/18	0.05<MDL	ug/L	No
Benzene	Feb. 15/18	0.32<MDL	ug/L	No
Benzo(a)pyrene	Feb. 15/18	0.004<MDL	ug/L	No
Bromoxynil	Feb. 15/18	0.33<MDL	ug/L	No
Carbaryl	Feb. 15/18	0.05<MDL	ug/L	No
Carbofuran	Feb. 15/18	0.01<MDL	ug/L	No
Carbon Tetrachloride	Feb. 15/18	0.16<MDL	ug/L	No
Chlorpyrifos	Feb. 15/18	0.02<MDL	ug/L	No
Diazinon	Feb. 15/18	0.02<MDL	ug/L	No
Dicamba	Feb. 15/18	0.20<MDL	ug/L	No
1,2-Dichlorobenzene	Feb. 15/18	0.41<MDL	ug/L	No
1,4-Dichlorobenzene	Feb. 15/18	0.36<MDL	ug/L	No
1,2-Dichloroethane	Feb. 15/18	0.35<MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Feb. 15/18	0.33<MDL	ug/L	No
Dichloromethane	Feb. 15/18	0.35<MDL	ug/L	No
2-4 Dichlorophenol	Feb. 15/18	0.15<MDL	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb. 15/18	0.19<MDL	ug/L	No
Diclofop-methyl	Feb. 15/18	0.40<MDL	ug/L	No
Dimethoate	Feb. 15/18	0.03<MDL	ug/L	No
Diquat	Feb. 15/18	1<MDL	ug/L	No
Diuron	Feb. 15/18	0.03<MDL	ug/L	No
Glyphosate	Feb. 15/18	1<MDL	ug/L	No
Malathion	Feb. 15/18	0.02<MDL	ug/L	No
MCPA	Feb. 15/18	0.00012<MDL	mg/L	No
Metolachlor	Feb. 15/18	0.01<MDL	ug/L	No
Metribuzin	Feb. 15/18	0.02<MDL	ug/L	No
Monochlorobenzene	Feb. 15/18	0.30<MDL	ug/L	No
Pentachlorophenol	Feb. 15/18	0.15<MDL	ug/L	No
Paraquat	Feb. 15/18	1<MDL	ug/L	No
Phorate	Feb. 15/18	0.01<MDL	ug/L	No
Picloram	Feb. 15/18	1<MDL	ug/L	No
Polychlorinated Biphenyls(PCB)	Feb. 15/18	0.04<MDL	ug/L	No
Prometryne	Feb. 15/18	0.03<MDL	ug/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Simazine	Feb. 15/18	0.01<MDL	ug/L	No
THM (NOTE: show latest annual average)	Feb. 15/18 May 15/18 Aug. 15/18 Nov. 19/18	7.03	ug/L	No
Total Haloacetic Acids (HAAS)	Feb. 15/18 May 15/18 Aug. 15/18 Nov. 19/18	5.3<MDL	ug/L	No
Terbufos	Feb. 15/18	0.01<MDL	ug/L	No
Tetrachloroethylene	Feb. 15/18	0.35<MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	Feb. 15/18	0.20<MDL	ug/L	No
Triallate	Feb. 15/18	0.01<MDL	ug/L	No
Trichloroethylene	Feb. 15/18	0.44<MDL	ug/L	No
2,4,6-Trichlorophenol	Feb. 15/18	0.25<MDL	ug/L	No
Trifluralin	Feb. 15/18	0.02<MDL	ug/L	No
Vinyl Chloride	Feb. 15/18	0.17<MDL	ug/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)

Phelps submission to
O.M.B in objection to
2014 Development Charge
Bylaw

Robert St. West Wells

Hemson Report

Robert Street Treatment and Water Supply	
Gross Project Cost and Net municipal Cost	\$7,500,000
Replacement and BTE Shares	\$6,544,170
Total DC Eligible Costs	\$ 955,830
Robert Street Treatment and Water Supply	
Financing Costs	\$ 450,800
D.C. Eligible Costs	\$ 450,800
Proposed Timing	2020

Robert Street West Wells History and Context

The two Robert Street wells, the then primary source of the Town's water supply were removed from service in 1990 due to the presence of a volatile organic compound (T.C.E.). The wells are not connected to the system, but continue to be considered as part of the system by the M.O.E. The Town and the County of Simcoe have monitored the presence of the contaminant since 1990.

In 2008, the town retained Aecom to design a treatment facility for these wells. The estimated cost was approximately \$7,000,000 with an annual operating cost of \$125,000. At their meeting of December 17, 2008, Town council voted not to pursue the Robert St. West well rehabilitation due to the increased capital and operating cost estimates. They, then, considered a report to use then available funding for alternative water related projects, including the Payette Well Reservoir. Although this was on recommendation of staff, staff also continues to pursue the well rehabilitation.

In 2012, The Town conducted a long term (94 day) pumping test on Robert Street well No. 2 continuously at a rate (3,273 cubic metres per day) nearly equivalent to the average day demand (3432 cubic metres per day) for the whole Town as reported to the M.O.E. for 2013.

This report provided a revised cost estimate of \$5,370,000 to \$6,470,000 to accommodate water demands well in excess of the current and projected requirement with no consideration for the existing M.O.E. approved and licensed supply. The report further notes that contamination levels are declining and that future pumping tests should be performed at a "flow rate that reflects the Town's water supply back-up (emphasis mine) requirements at the well field in the future."

The Town's Annual Report to the M.O.E. for 2013 states that the current system has a rated capacity of 11,000 cubic metres per day. In 2013, the Average Day demand was 31.2% (3432.4 cubic metres per day) of rated capacity and the Maximum Day Demand was 44.3% (4870.6 cubic metres per day) of rated capacity. The usage also represented a decrease over the previous year and usage has decreased every year since 2005 when water meters were installed.

With the current approved system operating at well between a third and a half of the approved rated capacity, there is clearly no growth related requirement for the Robert Street Well rehabilitation. The current population could more than double within the current approved rated capacity. The only

possible justification for the Robert Street wells project would be as a back-up in the slim possibility of the complete loss of the existing operating well field.

The March 17, 2013 Director of Public Works report to Committee and Council states that pumping rates for estimating purposes were used based on the anticipated Average Day and Maximum Day demand in 2031.

It should be noted that the following assumptions appear to have been used:

1. The existing 11,000 cubic metres per day approved rate capacity supply does not exist or requires complete replacement and/or
2. The surplus capacity using the 2013 Annual Report's numbers of 7567.6 cubic metres per day (68.8%) Average Day demand and 6129.4 cubic metres per day (55.7%) Maximum Day demand is not adequate to accommodate the proposed 2031 growth and/or
3. The design numbers used for per capita and non-residential usage will be or will have to be substantially higher than existing usage numbers which, in fact, have been declining year on year for almost a decade.

The Robert Street Well Rehabilitation certainly cannot be justified as required for growth and should any over-engineering be included, its need based on growth cannot be justified until well beyond 2031, if ever.

Impact on Development Charges from Removal of Robert Street Well Rehabilitation

Hemson D.C. Eligible Costs 2014 – 2031	\$ 955,830
D.C. Eligible Costs 2014 – 2031	<u>\$ 450,800</u>
	\$1,406,630
Residential Share 73%	\$1,026,840
Non-residential Share 27%	<u>\$ 379,790</u>
	\$1,406,630
Ultimate Growth in Population in New Units	2112
Robert Street Wells Residential D.C. per growth related person	<u>\$1,026,840</u> = \$406.19 per person 2112 persons
Robert Street Wells Non-residential D.C. Per housing unit	
Singles and semis	2.66 pph x \$406.19 = \$1,080.47
Townhouses	1.96 pph x \$406.19 = \$ 796.13
Apartments	1.76 pph x \$406.19 = \$ 714.89

Points of Discussion

1. The Robert Street Wells Rehabilitation, given the excess capacity already in the system cannot be justified based on growth.
2. Any argument based on rehabilitating and treating this well can only be based on the need for a back-up source in the instance of a catastrophic failure of the current operating wells.
3. The nature of the contaminant, T.C.E., a volatile organic compound, means the costly treatment process will have a finite life period and will be redundant when the contaminant levels decline below the maximum level permitted by Provincial Drinking Water Standards.

4. The Town, in the December 2008 report deeming the rehabilitation too costly, proposed and costed a more economical proposal for a back-up source involving an inter connection with Midland's system. There is no evidence this alternative was ever actively pursued.
5. Significant hydrogeological studies, called the North Simcoe Ground Water Study, were undertaken in 2005 by Golder Associates and further studies were also completed as part of the Source Water Protection process. These studies document existing or former municipal wells located in the Gilwood and Pinegrove subdivision, originally in Tay Township, but now in the Town of Penetanguishene. These wells, originally constructed to service small estate subdivisions, could possibly be developed or redeveloped to provide a non-contaminated, more cost efficient back-up water source. These wells were removed from service or decommissioned by connecting the water systems to the overall system. This possibility does not appear to have ever been studied or considered as a potential back-up source.

APPENDIX C.3**WATER****DEVELOPMENT-RELATED CAPITAL PROGRAM**

The development-related capital program for the water distribution and storage system amounts to \$18.98 million and is required to service growth to build-out of the Town's currently designated lands. The program provides for the recovery of the Robert Street treatment and water supply and also the Payette Reservoir. Both of these projects only provide a small increase in capacity and include costs that relate to regulatory compliance upgrades. As such, a large portion of the costs are deemed to benefit existing residents. The BTE share is based on current and future shares of population and employment. Borrowing costs have been included for recovery for these two projects, based on the DC eligible amounts, and a 4 per cent interest rate on a 20 year debenture.

The water distribution projects include two projects related to the extension of Thompsons Road. Consistent with the developer contributions for the road and sewer works along this road, a portion of the costs amounting to \$263,500 will be recovered through direct developer contributions. The remaining project, the Main Street water main upgrade is an upsizing of a pipe on to ensure adequate fire flows into the downtown area. This project will, however, benefit new development within its service area as well. As such, a large portion of this project is deemed to benefit the existing residents and the BTE share is based on current and future shares of population and employment.

In totality, the portion of this capital forecast deemed to benefit the existing development within the Town amount to \$15.27 million and as such, these costs must be funded through non-DC sources. The Thompsons Road projects are deemed to benefit development beyond 2031 and as such, these costs will not be recovered through this development charges by-law. An amount of \$255,750 falls into the post period benefit share. Lastly, \$613,400 is available in the sewer DC reserve to fund a share of the capital forecast. The DC recoverable share is then reduced to \$2.58 million.

CALCULATION OF THE UNADJUSTED DEVELOPMENT CHARGES

Table 1 displays the calculated development charge rates for water services. The total capital program amounts to \$18.98 million. A prior growth share is identified as funds available in the sewer services DC reserve fund balance and \$613,400 is applied to program. The benefit to existing share of \$15.27 million is also removed from the calculations, which will need to be

funded through non-DC sources. A further share of \$255,750 is removed from the calculations as this represents the post period benefit share. These costs are considered to be related to new development, however, not within the Study's planning period.

The DC eligible amount related to growth is reduced to \$2.58 million and is allocated 73 per cent to the residential sector, and 27 per cent to the non-residential sector (based on shares of future population and employment growth). As such, the residential sector bears \$1.87 million of the growth-related capital program. This cost, divided by the anticipated population growth in new units yields a calculated charge of \$885.23 per capita. The non-residential charge is the \$705,530 divided by the anticipated new non-residential floor space, which yields a charge of \$14.05 per square metre.

The following table summarizes the calculation of the Water development charge:

WATER SUMMARY			
2014 - 2031		Calculated	
Development-Related Capital Program		Development Charge	
Total	Net DC Recoverable	\$/capita	\$/sq.m
\$18,977,500	\$2,575,141	\$885.23	\$14.05

New D.C. Budget in 2019
 This not in capital budget
 should be left to 2019

APPENDIX C.3
 TABLE 1

Robert St. Wells

TOWN OF PENETANGUISHENE
 DEVELOPMENT-RELATED CAPITAL PROGRAM
 WATER

Project Description	Timing	Gross Project Cost	Grant/ Subsidies/Other Receivables	Net Municipal Cost	Repayment & BTE Shares	Ineligible Costs		Total DC Eligible Costs	Available DC Reserves	DC Eligible Costs	
						0%	Reduction			2014-2013	Post 2013
3.0 WATER											
3.1 Water Storage and Supply											
3.1.1 Robert Street Treatment and Water Supply	2020	\$ 7,500,000	\$ -	\$ 7,500,000	\$ 6,544,170	\$ -	\$ -	\$ 955,830	\$ -	\$ 955,830	\$ -
3.1.2 Robert Street Treatment and Water Supply - Financing	2020	\$ 450,800	\$ -	\$ 450,800	\$ -	\$ -	\$ -	\$ 450,800	\$ -	\$ 450,800	\$ -
3.1.3 Payelia Well Reservoir	2015+	\$ 9,000,000	\$ -	\$ 9,000,000	\$ 7,653,010	\$ -	\$ -	\$ 1,346,990	\$ 613,369	\$ 533,621	\$ -
3.1.4 Payelia Well Reservoir - Financing	2015+	\$ 251,700	\$ -	\$ 251,700	\$ -	\$ -	\$ -	\$ 251,700	\$ -	\$ 251,700	\$ -
Subtotal Water Storage and Supply		\$ 17,202,500	\$ -	\$ 17,202,500	\$ 14,397,180	\$ -	\$ -	\$ 2,805,320	\$ 613,369	\$ 2,191,951	\$ -
3.2 Water Distribution											
3.2.1 Main Street Water Main Upgrade	2016+	\$ 1,000,000	\$ -	\$ 1,000,000	\$ 872,560	\$ -	\$ -	\$ 127,440	\$ -	\$ 127,440	\$ -
3.2.2 Thompsons Road Extension: Main Street to eastern limits of Bedale Subdivision	2014+	\$ 400,000	\$ -	\$ 324,000	\$ -	\$ -	\$ -	\$ 324,000	\$ -	\$ 102,000	\$ 162,000
3.2.3 Thompsons Road Extension: Phase 1 to western limits of Bedale Subdivision (includes construction Subtotal Water Distribution)	2018+	\$ 375,000	\$ 187,500	\$ 187,500	\$ 872,560	\$ -	\$ -	\$ 187,500	\$ -	\$ 93,750	\$ 93,750
TOTAL WATER		\$ 18,977,500	\$ 263,500	\$ 18,714,000	\$ 16,269,740	\$ -	\$ -	\$ 3,444,260	\$ 613,369	\$ 2,830,891	\$ 255,750

Residential Development Charge Calculation	73%	\$1,888,611
Residential Share of 2014 - 2023 DC Eligible Costs		2,112
Ultimate Growth in Population in New Units		\$65,23
Development Charge Per Capita		
Non-Residential Development Charge Calculation	27%	\$705,530
Non-Residential Share of 2014 - 2023 DC Eligible Costs		50,200
Ultimate Growth in Square Metres		\$14.05
Development Charge Per Square Metre		

Uncommitted Reserve Fund Balance
 Balance as at December 31, 2013 \$613,369

HEMSON

Penetanguishene Capital Budget Public Works

YR	Dept		Curry Fund	DCA	Debt	Other	Reserve	Subsidy	Taxation	W Rates	WW Rates	TOTAL	
2018	Public Works	878 Huronia Airport Capital Request - Fuel Tanks					112,000					112,000	
		CF 628 Drainage Easement through Lediard property	36,958								10,000	10,000	36,958
		CF H-108 Rate Report - Water & Wastewater										73,850	73,850
		CF H-22 STP - Plant Expansion & Financing		715,270					83,750			291,468	1,100,489
		CF H-767 Navy Lane Pumpstation Upgrades/Retrofit - Construction		250,000									250,000
		CF H-816 New Salt Dome for Roads Division							56,250			18,750	75,000
		CF M-747 Fox Street STP Dechlorination System - Engineering							50,000				50,000
		CF M-880 Ojibwa Landing Ecological and Human Health Risk Assessment	2,700	24,295							40,000		40,000
		H-101 Replace Water Division Vehicle #75							85,611	314,389			400,000
		H-704 Main Street Reconstruction										15,000	15,000
		H-899 Replace 2 SCBA - Wastewater									50,000		50,000
		H-900 Foam Fire Suppression System at Payette									92,000		92,000
		H-902 Replace Valve Maintenance Machine									25,000		25,000
		H-903 Legislated Reservoir Tank Inspections			81,000		19,000						100,000
		H-948 Engineering - Thompsons Rd Extension (Ph1 to western limits)								30,000			30,000
		H-950 Radio Repeater for Roads & Base Station upgrades								100,000			100,000
		H-951 Replace #65 4x4 pick-up Truck with 4x4 1 ton dump truck with rear sander								15,000	15,000		30,000
		L-804 Office Upgrades 22 Centennial Dr.							29,156		15,844		45,000
		M-769 Replace Pick up Truck for Roads Division #83								40,194	3,434		50,000
		M-863 Engineering - Intersection Upgrades (Robert & Fuller)		6,372							50,000		50,000
M-892 Pedestrian Crossing on Robert St W								100,000			100,000		
M-898 LED Streetlight Retrofits										30,000	30,000		
M-901 Façade Replacement at Robert St W Pump Station									20,000		20,000		
M-905 Stormwater Pond Fencing & Signage									10,000		10,000		
M-947 County Road 83 Multi-Use Trail		90,000							20,000		100,000		
M-949 New Hydrosander Unit 500 gal											20,000		
Public Works Total			39,658	1,166,937		19,000	141,156	425,805	578,667	282,000	409,069	3,042,292	
2018 Total			39,658	1,166,937		19,000	141,156	425,805	578,667	282,000	409,069	3,042,292	
2020	Public Works	958 Video Surveillance at Payette								15,000		15,000	
		H-107 Well Maintenance - Water								40,000		40,000	
		H-24 Construction - Thompsons Rd Extension (Ph1 to western limits)		1,093,500		256,500					170,000		1,350,000
		H-25 Replace 1998 backhoe & attachments										125,000	125,000
		H-747 Fox Street STP Dechlorination System						150,000	150,000				300,000
		H-751 Tandem Sander (76)								100,000			100,000
		H-956 Retaining Wall Replacement - Burke & Keefe									20,000		20,000
		L-742 Replace roof on Robert St W Reservoir										75,000	75,000
		L-906 Upgrade Beck SPS 2 VFD & 3 Phase Power											60,000
		M-106 Sidewalk Installation McGuire Rd (Dead end to Yeo)		54,000						35,412	48,588		84,000
		M-82 Sidewalk removal & replacement-Robert St W (Scott to Center)								218,140			250,000
		M-952 Construction - Intersection Upgrades - Robert Street and Fuller Avenue		31,660								20,000	20,000
		M-957 Sewer Camera & Software											20,000
Public Works Total			1,179,360		256,500	150,000	403,552	164,588	245,000	220,000	2,609,000		
2020 Total			1,179,360		256,500	150,000	403,552	164,588	245,000	220,000	2,609,000		
2021	Public Works	110 Reconstruction of Chatham Street (Beck Boulevard to Burke St)						703,802	25,826	150,000	150,000	1,029,628	
		743 Turbid meter replacement at Payette & Lepage								6,000		6,000	
		750 Engineering - Water St (Scott to Owen)								25,000	12,500	50,000	
		817 Replace Column Pump - Robt St W Sanitary Pump Station		40,000								20,000	40,000
		818 Expand Roads Division Garage - Wash Bay - Engineering						150,000					150,000
		819 Robert St W Well testing								55,000			55,000
		902 Retaining Wall Replacement at Intersection of Lucy/Robert								40,000			40,000
		907 Champlain Culvert Re-lining						170,000		130,000			300,000
Public Works Total			40,000			320,000	703,802	275,826	166,500	182,500	1,690,628		
2021 Total			40,000			320,000	703,802	275,826	166,500	182,500	1,690,628		
2022	Public Works	105 Engineering - Fox St. (Sheridan to Broad) - PW		6,373					100,000	50,000	43,627	200,000	
		110 Reconstruction of Chatham Street (Burke to Brock St)							63,159	200,000	200,000	880,053	
		776 Tandem Snow Plow (85)					130,000		170,000			300,000	

YR	Dept		Carry Fwd	DCA	Debt	Other	Reserve	Subsidy	Taxation	W Rates	WW Rates	TOTAL
2022	Public Works	84 Construction - Expansion of Roads Division Garage & Wash bay		600,000					15,000			600,000
		963 PW Garage Hoist							75,000			15,000
		964 Replacement of stairs in front of 20 Robert St W										75,000
	Public Works Total			606,373			130,000	416,894	423,159	250,000	243,627	2,070,053
2022 Total				606,373			130,000	416,894	423,159	250,000	243,627	2,070,053
2023	Public Works	107 Well Maintenance - Water (Payette Well #2)							550,000			40,000
		618 Navy Lane Drainage Improvements-Construction									90,000	90,000
		744 Flow Splitting Device at Yeo/Fox Sanitary Manhole					100,000		200,000			300,000
		775 Rubber Tire Loader (80)					165,000					185,000
		780 Replacement of Backhoe										20,000
		903 Legislated Reservoir Tank Inspections								20,000		40,000
		904 Water Division Pick-Up Truck Replacement (90)								40,000		40,000
		905 Improvements to the Splash Pad Parking Area							40,000			40,000
		906 Replace Utility Truck #71								80,000		80,000
		907 Champlain Culvert Refining							40,000			40,000
		95 Reconstruction of Harriet St (Edward to Jeffery)						505,036		175,000	175,000	855,036
	Public Works Total						285,000	505,036	830,000	355,000	265,000	2,240,036
2023 Total							285,000	505,036	830,000	355,000	265,000	2,240,036
2024	Public Works	107 Well Maintenance - Water (Payette Well #1)					70,000		140,000			210,000
		623 Triaxle Dump Truck (Truck # 89) - Roads							50,000	25,000	25,000	100,000
		750 Engineering - Poyntz St (Owen to Benson)							37,500	18,750	18,750	75,000
		95 Reconstruction of Harriet St (Edward to Jeffery)					150,000		150,000			300,000
		968 Reshingle & Repair PW Sand Dome Roof							200,000			200,000
		969 Surface Treatment on Various Road Sections							230,927	145,000	148,000	1,680,194
		98 Reconstruction and Extension of Lucy St		270,000		108,000		789,267	808,427	238,750	189,750	2,615,194
	Public Works Total			270,000	108,000	108,000	220,000	789,267	808,427	238,750	189,750	2,615,194
2024 Total				270,000	108,000	108,000	220,000	789,267	808,427	238,750	189,750	2,615,194
2025	Public Works	102 Reconstruction of Peel St (Robert St E to Brock St)						505,036	170,000			170,000
		908 Single Axle Snow Plow (#42) TRANSFER TO RESERVE					30,000		270,000			300,000
		910 Tandem Snow Plow (#58)		67,500					109,500	36,500	36,500	250,000
		98 Reconstruction and Extension of Lucy St		67,500				30,000	505,036	549,500	286,500	1,725,036
	Public Works Total			67,500			30,000	505,036	549,500	286,500	286,500	1,725,036
2025 Total				67,500			30,000	505,036	549,500	286,500	286,500	1,725,036
2026	Public Works	102 Reconstruction of Peel St (Robert St E to Brock St)							452,465	50,000	50,000	200,000
		777 Reconstruction of Water St (Scott St to Owen St)					100,000		225,000	225,000		902,465
		908 Single Axle Snow Plow (#42)					100,000		552,465	275,000	275,000	1,202,465
	Public Works Total						100,000		552,465	275,000	275,000	1,202,465
2026 Total							100,000		552,465	275,000	275,000	1,202,465
2027	Public Works	777 Reconstruction of Water St (Scott St to Owen St)							50,000	25,000	25,000	100,000
		778 Reconstruction Poyntz St (Owen to Benson St) Tfr to Road Reserve							209,000			209,000
		779 Reconstruction Fox St (Sheridan to Broad St) Tfr to Road Reserve							250,000			250,000
		907 Champlain Culvert Refining							40,000			40,000
		908 Payette Booster Pump #1								60,000		60,000
		909 Replace Roads Pick-up truck #8							45,000			45,000
		910 Legislated Reservoir Tank Inspections								20,000		20,000
		911 Replace STP vehicle #72									40,000	40,000
		912 Lepage Generator & Transfer Switch					130,000		120,000	200,000		200,000
		972 Replace #44 Sidewalk Machine Trackless					130,000		705,000	305,000	65,000	1,205,000
	Public Works Total						130,000		705,000	305,000	65,000	1,205,000
2027 Total							130,000		705,000	305,000	65,000	1,205,000
2028	Public Works	779 Reconstruction of Fox St (Sheridan St to Broad St)		70,097	400,000			1,515,108	834,192	375,000	479,903	3,674,300
		913 Replace Loader Mounted Snowblower Attachment							170,000			170,000
		974 Replace #51 one ton dump truck					100,000					100,000
	Public Works Total			70,097	400,000		100,000	1,515,108	1,004,192	375,000	479,903	3,844,300
2028 Total				70,097	400,000		100,000	1,515,108	1,004,192	375,000	479,903	3,844,300
TOTAL				38,668	3,406,267	400,000	383,600	1,608,186	5,261,524	2,751,750	2,616,348	22,344,004

Table W-1
Town of Penetanguishene
Water Service
Capital Budget Forecast
Uninflated \$

Description	Budget		Forecast								
	Total	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Capital Expenditures											
Well Maintenance - Water	70,000	30,000	-	-	-	-	-	-	-	-	-
Construction Phase of the Payette Water Storage Upgrades	1,864,612	1,864,612	-	-	-	40,000	-	-	-	-	-
New Circular Shoring System - Water Division	20,000	20,000	-	-	-	-	-	-	-	-	-
Replace 3 Chlorine Analyzers at Payette Well Facility	35,000	35,000	-	-	-	-	-	-	-	-	-
Two Self-Contained Breathing Apparatus (SCBA)	10,000	10,000	-	-	-	-	-	-	-	-	-
Main Street Reconstruction	718,138	-	478,759	239,379	-	-	-	-	-	-	-
Chatham St (Beck to Brock) - Eng. and Reconstruction	362,500	-	-	12,500	300,000	50,000	-	-	-	-	-
Fox St (Sheridan to Broad) - Eng. and Reconstruction	800,000	-	-	50,000	-	-	-	-	-	750,000	-
Vehicle Replacement - Van for Water Division	30,000	-	-	-	30,000	-	-	-	-	-	-
Poyntz St (Owen to Benson) - Eng. and Reconstruction	375,000	-	-	-	25,000	-	-	-	-	-	-
Harriet St (Edward to Jeffery) - Reconstruction	193,750	-	-	-	-	175,000	18,750	-	-	-	350,000
Water Division Pick-Up Truck Replacement (84)	35,000	-	-	-	-	-	-	-	-	-	-
Robert St West Well Testing	150,000	-	-	-	-	150,000	-	-	-	-	-
Reconstruction and Extension of Lucy St	182,500	-	-	-	-	35,000	-	36,500	-	-	-
Peel St (Robert St E to Brock St) - Reconstruction	300,000	-	-	-	-	-	146,000	250,000	-	-	-
Well Maintenance - Water (Payette Well #2)	40,000	-	-	-	-	-	-	40,000	-	-	-
Water St (Scott St to Owen St) - Eng. and Reconstruction	262,500	-	-	-	-	12,500	-	-	225,000	-	-
Water Division Pick-Up Truck Replacement (90)	40,000	-	-	-	-	-	-	40,000	-	-	-
Well Maintenance - Water (Payette Well #1)	40,000	-	-	-	-	-	-	-	40,000	-	-
Growth Projects (Growth Portion Only):											
Construction Phase of the Payette Water Storage Upgrades	419,750	419,750	-	-	-	-	-	-	-	-	-
Main Street Reconstruction	21,241	-	21,241	-	-	-	-	-	-	-	-
Main Street Reconstruction	10,621	-	-	10,621	-	-	-	-	-	-	-
Main Street Reconstruction	-	-	-	-	-	-	-	-	-	-	-
Construction-Thompsons Rd Extension (Phase 1)	150,000	-	-	-	150,000	-	-	-	-	-	-
Reconstruction and Extension of Lucy St	67,500	-	-	-	-	-	54,000	13,500	-	-	-
Studios	-	-	-	-	-	-	-	-	-	-	-
Master Servicing Study	50,000	-	-	50,000	-	-	-	-	-	-	-
Rate Report - Water & Wastewater	10,000	-	-	-	10,000	-	-	-	-	-	-
Total Capital Expenditures	6,258,112	2,379,362	500,000	362,500	515,000	462,500	219,750	380,000	315,000	775,000	350,000

Water & Wastewater Financial Plans
June 29, 2015



Table W-2
Town of Penangutshene
Water Service
Capital Budget Forecast
Inflated \$

Description	Total	Forecast												
		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024			
Capital Expenditures														
Well Maintenance - Water	73,700	30,000	-	-	-	-	-	-	-	-	-	-	-	-
Construction Phase of the Payette Water Storage Upgrades	1,864,612	1,864,612	-	-	-	-	-	-	-	-	-	-	-	-
New Circular Shoring System - Water Division	20,000	20,000	-	-	-	-	-	-	-	-	-	-	-	-
Replace 3 Chlorine Analyzers at Payette Well Facility	35,000	35,000	-	-	-	-	-	-	-	-	-	-	-	-
Two Self-Contained Breathing Apparatus (SCBA)	10,000	10,000	-	-	-	-	-	-	-	-	-	-	-	-
Main Street Reconstruction	725,400	479,800	246,600	-	-	-	-	-	-	-	-	-	-	-
Chatham St (Beck to Brock) - Eng. and Reconstruction	385,800	12,900	54,600	318,300	-	-	-	-	-	-	-	-	-	-
Fox St. (Sheridan to Broad) - Eng. and Reconstruction	973,900	51,500	-	31,800	-	-	-	-	-	-	-	-	-	-
Vehicle Replacement - Van for Water Division	31,800	-	-	26,500	-	-	-	-	-	-	-	-	-	-
Poyntz St (Owen to Benson) - Eng. and Reconstruction	469,900	-	-	-	-	-	-	-	-	-	-	-	-	-
Harrist St (Edward to Jeffery) - Reconstruction	212,300	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Division Pick-Up Truck Replacement (84)	38,200	-	-	-	-	-	-	191,200	-	21,100	-	-	-	443,400
Robert St West Well Testing	163,900	-	-	-	-	-	-	38,200	-	-	-	-	-	-
Reconstruction and Extension of Lucy St	267,400	-	-	-	-	-	-	163,900	-	-	-	-	-	-
Peel St (Robert St E to Brock St) - Reconstruction	349,500	-	-	-	-	-	-	-	-	225,100	-	-	-	-
Well Maintenance - Water (Payette Well #2)	46,400	-	-	-	-	-	-	-	-	-	42,300	-	-	-
Water St (Scott St to Owen St) - Eng. and Reconstruction	313,100	-	-	-	-	-	-	-	-	-	289,800	-	-	-
Water Division Pick-Up Truck Replacement (90)	46,400	-	-	-	-	-	-	-	-	-	46,400	-	-	-
Well Maintenance - Water (Payette Well #1)	47,800	-	-	-	-	-	-	13,700	-	-	-	30,700	-	-
Growth Projects (Growth Portion Only):														
Construction Phase of the Payette Water Storage Upgrades	419,750	419,750	-	-	-	-	-	-	-	-	-	-	-	-
Main Street Reconstruction	21,200	21,200	-	-	-	-	-	-	-	-	-	-	-	-
Main Street Reconstruction	10,900	-	10,900	-	-	-	-	-	-	-	-	-	-	-
Construction-Thompsons Rd Extension (Phase 1)	159,100	-	-	159,100	-	-	-	-	-	-	-	-	-	-
Reconstruction and Extension of Lucy St	15,700	-	-	-	-	-	-	-	-	-	-	-	-	-
Studies														
Master Servicing Study	51,500	-	-	51,500	-	-	-	-	-	-	-	-	-	-
Rate Report - Water & Wastewater	10,600	-	-	-	10,600	-	-	-	-	-	-	-	-	-
Total Capital Expenditures	6,763,862	2,379,362	500,000	373,400	546,300	505,300	246,200	440,600	853,100	376,200	443,400	953,100	376,200	443,400
Capital Financing														
Provincial/Federal Grants	1,059,912	559,912	333,333	166,667	-	-	-	-	-	-	-	-	-	-
Development Charges Reserve Fund	626,650	419,750	21,200	159,100	-	-	-	-	-	-	-	-	-	-
Non-Growth Related Debiture Requirements	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Growth Related Debiture Requirements	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Developer Contributions	60,800	-	-	-	-	-	-	-	-	-	-	-	-	-
Robert Street West Well Reserve	163,900	-	-	-	-	-	-	163,900	-	-	-	-	-	-
Lifecycle Reserve Fund	4,852,600	1,399,700	145,467	387,200	-	-	-	341,400	-	185,400	-	-	-	-
Total Capital Financing	6,763,862	2,379,362	500,000	373,400	546,300	505,300	246,200	440,600	853,100	376,200	443,400	953,100	376,200	443,400

Penabangwishene

2018 ESTIMATED RESERVES & RESERVE FUNDS CONTINUITY SCHEDULE

RESERVES:			*Opening Balance JAN 1/18	Reserve Fund Interest	Utilization of	Appropriate to	**Ending Balance DEC 31/18
ADM	1213001501	CONTINGENCY RESERVE	-	42,230			42,230
ADM	1213001502	WORKING FUNDS RESERVE	-	196,032			196,032
ADM	1213001503	ELECTION RESERVE	-	33,000	45,000		151,032
ADM	1213001504	SICK LEAVE RESERVE	-	182	44,000	11,000	-
ADM	1213001505	LEGAL/LITIGATION RESERVE	-	26,275			182
ADM	1213001508	COMPUTER SYSTEMS RESERVE	-	39,926			26,275
ADM	1213001513	CAPITAL ASSET MANAGEMENT RESERVE	-	1,136,416			39,926
ADM	1213001521	COMMUNITY POLICING RESERVE	-	9,701		424,171	1,560,587
ADM	1213001526	POLICING RESERVE	-	249,894			9,701
ADM	1213001557	WASTE MANAGEMENT RESERVE	-	40,401			249,894
ADM	1213001562	INSURANCE RESERVE	-	60,775			40,401
ADM	1213001583	WELLNESS DAY RESERVE	-	4,129			60,775
CORP	1213001538	PARKING LOT RESERVE	-	16,291			4,129
CORP	1213101200	CAPITAL CARRY FORWARD RESERVE	-	763,482			16,291
FIRE	1213001524	EMERGENCY PREPAREDNESS RESERVE	-	25,000	753,482		-
FIRE	1213001525	FIRE VEHICLE/EQUIP RESERVE	-	328,344			25,000
PLN	1213001512	COMMUNITY DEVELOPMENT FUND RESERVE	-	144,567	345,057	128,334	111,621
PW	1213001520	STORM WATER MANAGEMENT	-	30,000	30,000		114,567
PW	1213001532	PW VEHICLE/EQUIP REPLACEMENT RESERVE	-	8,088	100,000		-
PW	1213001533	PW VEHICLE/EQUIP MAINT RESERVE	-	50,665		130,000	38,088
PW	1213001539	TRANSIT RESERVE	-	211,802			45,665
PW	1213001542	ROBERT STREET WEST WELL RESERVE	-	372,880	13,500		198,302
PW	1213001551	STORM SEWER CONSTRUCTION RESERVE	-	85,070			372,880
PW	1213001552	STORM SEWER MAINT RESERVE	-	10,097			85,070
RCS	1213001510	TRAILS RESERVE	-	29,830			10,097
RCS	1213001515	RECREATION PROGRAM RESERVE	-	5,870			29,830
RCS	1213001516	ARENA ROOF RESERVE	-	160,858			5,870
RCS	1213001517	PLAYGROUND RESERVE	-	48,000		51,000	201,668
RCS	1213001519	SENIORS COUNCIL RESERVE	-	21	45,000		-
RCS	1213001562	LIBRARY CAPITAL RESERVE	-	6,678			21
RCS	1213001576	MUSEUM GENERAL	-	63,003	4,700		1,978
WHARF	1213001530	WHARF LIFECYCLE RESERVE	-	91,151		33,000	96,003
TOTAL RESERVES			-	4,267,455	1,510,739	809,217	3,561,233
RESERVE FUNDS:							
Oblig RF	1213501509	BUILDING INSPECTION LIFECYCLE RF	-	313,032	4,515		334,742
Oblig RF	1213501602	CASH IN LIEU OF PARKLAND RF	-	27,892	108	17,195	28,000
Oblig RF	1213501603	DEVELOPMENT CHARGES RF	-	2,882,001	38,333	540,000	1,709,801
Oblig RF	1213501610	GAS TAX REBATE RF	-	1,934	2,400		33
TOTAL OBLIGATORY RESERVE FUNDS			-	3,224,858	45,356	557,195	2,072,577
1213501541	WATER LIFECYCLE RF		-	820,913	15,728		865,197
1213501553	WASTEWATER LIFECYCLE RF		-	41,188	809	497,641	1,082,821
1213501606	HEC RF		-	1,881,015	21,423	466,874	9,312
1213501607	INDUSTRIAL LAND DEVELOPMENT RF		-	183,817	1,934		185,752
1213501608	LIBRARY FUNDRAISING RF		-	163,407	1,415		164,822
1213501609	MUSEUM RF		-	8,320	88		8,408
TOTAL RESERVE FUNDS			-	3,098,660	41,397	984,515	150,670
TOTAL RESERVES & RESERVE FUNDS			-	10,590,974	86,752	2,330,927	5,784,480

*as per draft FS

** Estimated Y/E Bal

**TOWN OF PENETANGUISENE
DEVELOPMENT CHARGE RESERVE FUND STATEMENT
For the Year Ending December 31, 2017**

SECTION	SERVICE	PROJECT	Opening Balance	DC's In	Interest	DC's Used	Closing Balance
P&D	General Government	DC Study	16,666	5,899	212	-	22,777
P&D	General Government	Growth Study	(55,601)	5,590	(590)	-	(50,601)
P&D	General Government	Planning Study	2,589	8,888	70	-	11,547
P&D	General Government	Service MP Study	(11,193)	1,125	(119)	-	(10,186)
P&D	General Government	Ojibwa Study	(16,558)	6,577	(165)	(65,705)	(75,851)
RCS	General Government	Rec Master Plan	3,511	4,916	62	-	8,488
FCS	General Government	Fire Master Plan	(16,259)	2,458	(157)	-	(13,958)
FCS	Fire	ATV	615	861	11	-	1,487
FCS	Fire	Firehall	(192,093)	56,433	(1,866)	-	(137,527)
FCS	Fire	Land	6,812	-	76	-	6,887
FCS	Fire	Bunker Gear	30,134	538	337	-	31,009
FCS	Fire	Furnishings	1,557	0	17	-	1,575
FCS	Fire	Aerial Truck	70,648	-	783	-	71,431
FCS	Police	Police	2,629	1,733	37	-	4,399
FCS	Airport	Airport	12,605	-	140	-	12,745
RCS	Library	Materials	79,824	12,426	943	(16,693)	76,499
RCS	Library	Bldg & Parking	131,290	52,338	1,700	-	185,328
RCS	Recreation	Facility	458,326	-	5,082	-	463,408
RCS	Recreation	Storage	20,806	-	231	-	21,036
RCS	Recreation	3/4 Pickup	14,841	-	165	-	15,005
RCS	Parks	Parks & Trails	19,604	-	217	-	19,821
T&E	Public Works	Vehicles	1,991	5,924	50	-	7,965
T&E	Public Works	Facility	265,157	48,804	3,168	(16,288)	300,841
T&E	Public Works	Veh/Eq	0	-	0	-	0
T&E	Public Works	Veh/Eq	10,642	-	118	-	10,760
T&E	Public Works	Tandem Plow	30,361	0	337	-	30,698
T&E	Public Works	Stormwater	34,691	-	385	-	35,076
T&E	Roads	Lucy Street	6,538	9,155	115	-	15,809
T&E	Roads	Fuller Bike Lane	(40,021)	1,017	(439)	-	(39,443)
T&E	Roads	Thom W Osize	44,026	27,465	616	(72,108)	(0)
T&E	Roads	Thom A,B,C	62,238	165,298	1,462	(242,812)	(13,813)
T&E	Roads	Fuller	217,669	17,285	2,494	-	237,448
T&E	Roads	Brunelle	107,297	6,482	1,220	-	114,999
T&E	Roads	Robt E	47,714	6,914	561	-	55,189
T&E	Roads	Other	18,267	5,222	227	-	23,716
T&E	Wastewater	Thompsons	23,168	32,439	408	-	56,015
T&E	Wastewater	Future Expansion	203,885	320,716	3,758	-	528,359
T&E	Wastewater	Main	9,980	12,124	167	-	22,271
T&E	Wastewater	Fox	46,512	61,425	803	-	108,740
T&E	Water	Thompsons	18,032	25,248	318	-	43,597
T&E	Water	Robert St Well	498,448	69,441	5,851	-	573,740
T&E	Water	Payette	23,206	69,049	580	-	92,834
T&E	Water	Main	5,498	6,291	90	-	11,879
			\$ 2,216,052	1,050,080	29,475	(413,607)	\$ 2,882,000

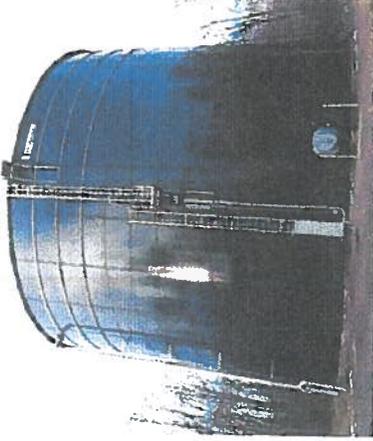
*as per draft FS



Capital Project Summary

Town of Midland

Project #: 431-B029	Project Title: Everton Storage Leaking
Prepared By: André Pepin	Date Prepared: 16/10/2017
Date Revised: 21/11/2017	Budget Year: 2018
Department: Water Services	Maintenance or Growth: Maintenance
Project Description: Everton Storage has multiple leaks, and cannot be easily repaired. The lower laminated rings are suspected to be filled with water.	Project Timeline: 2018-2019
Asset Numbers:	Asset Life: 75 Years
GIS References:	



Major Quantity Summary

Item	Quantity	Unit	Unit Cost	Total
Sanitary sewer				\$ -
Water main				\$ -
Storm sewer				\$ -
Curb				\$ -
Asphalt				\$ -
Sidewalk				\$ -

Expenses

Base year of cost data: 2017

Costs inflated by inflation: Choose an item.

Inflation Rate: Click here to enter text. %

Item	2018	2019	2020	2021	Total
Project Administration 3%					
Land					
Approvals / EAs					
Design					
Construction					
Contingency					
Total	\$25,750				\$25,750
Funding					

Item	2018	2019	2020	2021	Total
Water Reserve	\$25,750				\$25,750
Wastewater Reserve					
Road Reserve					
Other Reserve					
Grants					
Other					
Total	\$25,750				\$25,750

Additional Information:

This project was identified on the Water Deficiency List. Tank could be engineered to accept a superior brand of structure for the lower 4 rings. Alternatively tank could be completely deconstructed, cleaned, inspected and reconstructed properly. Inspection report is available (Greatario 2017).

Potter, Andrea

From: Patel, Vivian <Vivian.Patel@am.jll.com>
Sent: April-15-19 8:54 AM
To: Provencal, Randy; jwilson@jlrichards.ca
Subject: Water & Waste Master Plan
Attachments: ATT00001.txt; ATT00002.htm

Good Morning Jane and Randy,

I hope this email finds you well.

I was referred to you both by Angela Zhou, Planner at the Town of Midland. I am working on behalf of a land owner in Midland and I am reaching out for two reasons—firstly, I would like to be added to the contact list to receive documents and notice about public hearings regarding the waste and water master plan.

Secondly, I would like to gain any insight or update on which stage the master plan is in. Have any specific studies been completed? If so, which studies and are there copies I can have access to. Are there any drafts that are publicly available, again, if so, can I have a copy.

Thank you in advance.

Vivian Patel
Urban Planner

Bay Adelaide East | 22 Adelaide St. West, 26th Floor | Toronto, ON M5H 4E3
Tel (416) 304-6000 ext. 6971 | Fax (416) 304-6001

vivian.patel@am.jll.com

www.jll.ca



Achieve Ambitions

Potter, Andrea

From: Potter, Andrea
Sent: May-14-19 4:47 PM
To: 'Patel, Vivian'
Cc: Jane Wilson (jwilson@jlrichards.ca); Wesley Crown (wcrown@midland.ca); Andy Campbell (acampbell@midland.ca); Chuck Fiddy (cfiddy@midland.ca); Chaymann, Semyon; Choudhary, Mukesh; Grueneis, Karl; Wan, Benny; Stephen O'Reilly; Provencal, Randy
Subject: Town of Midland Waterworks Master Plan Update File No. 60593529

Hello Ms. Patel,

Thank you for your email received April 15, 2019 regarding the Town of Midland Waterworks Master Plan Update. Please note that the focus of this email is the water servicing component. While the Town is coordinating the completion of both Master Plans, any updates regarding the Wastewater Master Plan will be addressed separately by JL Richards.

As per our discussion earlier this week, I understand that you represent a landowner at 1165 Brunelle Sideroad in Midland and that you would like to receive information regarding the Waterworks Master Plan Update currently underway. Please note that I have added you to the Project Contact List and you will be forwarded all future notifications regarding this project.

Please note that the municipality initiated the Waterworks Master Plan Update in November 2018. PIC No. 1 was presented in an online format on the Town's website starting February 6, 2019. You can access this information at the following link...

www.midland.ca/Pages/Waterworks_Master_Plan.aspx

We are in the process of scheduling PIC No. 2 for this project to present the alternative solutions under consideration and to provide opportunity for interested parties to discuss the project further with the Project Team. PIC No. 2 is tentatively scheduled for May 30th, 2019. A notice regarding PIC No. 2 will be issued shortly.

Please note that it is the intent to schedule an hour timeslot in advance of the main public meeting specifically for key stakeholders (i.e. neighboring municipalities, area developers, and relevant agencies). An invitation to attend this special hour in advance of the main public meeting will be included in the correspondence to be issued to key stakeholders. We have identified you as a key stakeholder on the Project Contact List and the letter to be issued to your office will include this invitation.

As mentioned in our April 29th, 2019 phone discussion, your colleague, Mr. Stephen O'Reilly, also submitted a comment regarding the same property at 1165 Brunelle Sideroad and as we agreed, I have copied him on this email so that everyone involved is kept informed.

If you have any further questions or concerns, please feel free to give me a call.

Thanks.

Andrea Potter, B.E.S.
Senior Environmental Planner, Planning and Permitting
D +1-705-797-3278
andrea.potter@aecom.com

AECOM

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From: Patel, Vivian [<mailto:Vivian.Patel@am.jll.com>]
Sent: April-15-19 8:54 AM
To: Provencal, Randy; jwilson@jlrichards.ca
Subject: Water & Waste Master Plan

Good Morning Jane and Randy,

I hope this email finds you well.

I was referred to you both by Angela Zhou, Planner at the Town of Midland. I am working on behalf of a land owner in Midland and I am reaching out for two reasons—firstly, I would like to be added to the contact list to receive documents and notice about public hearings regarding the waste and water master plan.

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Thank you in advance.

Vivian Patel

Urban Planner

Bay Adelaide East | 22 Adelaide St. West, 26th Floor | Toronto, ON M5H 4E3
Tel (416) 304-6000 ext. 6971 | Fax (416) 304-6001

vivian.patel@am.jll.com

www.jll.ca



Achieve Ambitions



The Corporation of the Town of Midland

575 Dominion Avenue
Midland, ON L4R 1R2
Phone: 705-526-4275
Fax: 705-526-9971
info@midland.ca

April 26, 2019

Mr. Jeff Lees, CAO
Town of Penetanguishene
10 Robert Street West
Penetanguishene, ON
L9M 2G2

Via Email: jlees@penetanguishene.ca

Dear Jeff,

Re: Town of Midland Water Master Plan Process
Meeting April 24, 2019

Thank you for taking the time to coordinate a meeting with our collective staff respecting the current Midland Water Master Planning process.

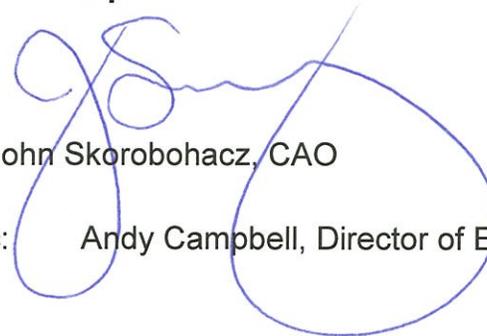
As part of the process we appreciate the opportunity to engage with your municipality to examine various options respecting short, medium, and long-term servicing solutions that may have mutual benefit to our respective communities. As discussed, we would appreciate the opportunity to have AECON Engineering, our water master planning consultants speak further with your staff to better understand your future servicing plans and what, if any, opportunities may exist for any potential shared services.

As you can appreciate these discussions would be exploratory in nature and any recommendations arising from our master planning exercise would be part of a future public process. Any recommendations respecting the potential for sharing of services would require support of our respective councils.

Thank you for taking the time to meet with our staff to discuss this matter and we look forward to the opportunity for further dialogue in the future.

Respectfully,

The Corporation of the Town of Midland



John Skorobohacz, CAO

c: Andy Campbell, Director of Engineering, Water & Wastewater

Midland Waterworks Master Plan Update

Meeting name Midland - Penetanguishene Water Connection Alternative	Meeting date May 9, 2019 10:00AM	Attendees Benny Wan, AECOM Karl Grueneis, AECOM Semyon Chaymann, AECOM Bryan Murray, Town of Penetanguishene Moe Lefaive, Town of Penetanguishene Andy Campbell, Town of Midland Chuck Fiddy, Town of Midland	Circulation list See list of attendees
Location Town of Penetanguishene Public Works Office 22 Centennial Drive Emergency Operations Centre Room	Project name Town of Midland Waterworks Master Plan Update		
AECOM project number 60593529	Prepared by Semyon Chaymann		

Meeting Agenda

1. Purpose of the meeting
2. Review of Penetanguishene and Midland Water Supply EA Studies
3. Confirmation of Penetanguishene population projections
4. Feasibility of interconnection with Town of Midland
 - a. Operational Complexity
 - b. Constructability
 - c. Public Concern
5. Agreement/Cost Sharing discussion
6. Data requirement for evaluation
7. Next Steps

Minutes

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1. Purpose of the Meeting

After introduction of all attendees, BW (AECOM) provided a brief explanation of the purpose of the meeting, which is to understand the opportunities for the Town of Midland to connect to the Penetanguishene water supply system for the purpose of increasing redundancy of supply in the future.

2. Review of Penetanguishene and Midland Water Supply EA Studies and 3. Confirmation of Penetanguishene Population Projections

BW (AECOM) listed limitations of the Midland water supply system based on the storage, pump capacity and supply capacity evaluation, which was complete as part of the Midland Waterworks Master Plan Update.

According to the evaluation:

- Midland has a storage deficit by 2041
- Midland has a supply deficit by 2041

From the previous Town of Penetanguishene EA Study it can be surmised that:

- Penetanguishene has storage capacity surplus in the water supply system, however it is not enough to offset the storage deficit of Midland water system in 2041 planning scenario
- Penetanguishene has as surplus of supply from its existing wells that could help offset the supply deficient of Midland in 2041

3. Feasibility of interconnection with Town of Midland

Operational Complexity

ML (Penetanguishene) – a connection to Midland would help Penetanguishene to circulate the Centennial Elevation Tank during the low demand conditions

BM (Penetanguishene) – reliability of supply in Penetanguishene is not guaranteed after the planning (2031) horizon

BW (AECOM) – commissioning Sundowner Well in Midland gives security of supply to Midland in the long term (post 2031), however twinning of Harbourview road is still in question as it could provide additional security of supply to Penetanguishene in the long term in addition to the connection between Midland and Penetanguishene along Fuller Ave.

Conceptual connection between Midland and Penetanguishene was discussed. The concept assumes that there is a potential connection between Penetanguishene and Midland along Fuller Ave. Midland could commission Sundowner Well in the future. Midland could connect and pump to Centennial ET (which has higher HGL than Midland East Zone).

The timing of Sundowner well commissioning was discussed. Based on the supply evaluation, Midland needs to commission the well in the 2036-2041 planning horizon. However, to increase supply redundancy to Penetanguishene the Sundowner well may be commissioned sooner, depending on when Penetanguishene would need the supply.

AECOM and Town of Midland agreed to provide the Town of Penetanguishene the hydraulic grade line at the potential connection of the two systems along Fuller Rd for the Town of Penetanguishene to analyse the possible connection.

Similarly, the Town of Penetanguishene agreed to provide their modelling results (hydraulic grade line) to AECOM and the Town of Midland to have that information available for future analysis.

BM (Town of Penetanguishene) asked if the connection is made, how do the two Towns operate the system and is a new EA process required at this time?

KG (AECOM) responded that the opportunity for connecting Midland and Penetanguishene water systems is addressed in the Town of Midland Waterworks Master Plan update EA process, however, future agreements would be similar to the examples of existing inter-municipal agreements in Midland and Ontario (eg. Midland and Tay, Innisfill and Bradford, Peel Region and York Region). Future EA study will be explored.

BM (Town of Penetanguishene) indicated that the connection to Midland would have to be consulted with the public as part of the future EA process, independent of the Town of Midland EA processes.

4. Data Requirements for evaluation

Town of Midland and Town of Penetanguishene agreed to share technical information required to assess the connection between the two water supply systems to evaluate its viability.

5. Next Steps

Town of Midland is hosting a PIC#2 for the Waterworks Master Plan where it hopes to welcome the Town of Penetanguishene representatives.