
Technical Appendix 4 - Public Consultation

1 Appendix Introduction

The compilation of all relevant documentation of the public consultation process including notices, comments and responses, and distribution information is provided in the following document. This Appendix is organized in sections as described below:

- Master Contact List
- Notice of Commencement and PIC #1
 - Comments and Responses
- PIC #1
 - Display Boards
 - Sign In Sheet, Comments, and Responses
- Notice of PIC #2
- PIC #2
 - Display Boards
 - Sign In Sheet, Comments, and Responses
- Notice of Completion

Master Contact List

#	Title	First Name	Last Name	Company/Organization	Department	Job Title	Street	City	Province	Postal Code	Telephone	Email
ABORIGINAL COMMUNITIES												
1	Mr.	Hohahes Leroy	Hill	Haudenosaunee Confederacy		Chiefs Council Secretary	2634 6th Line Road, RR #2	Ohsweken	ON	N0A 1M0	519-717-7326	jocko@sixnationsns.com
2	Mr.	William	Montour	Six Nations of the Grand River Territory		Chief	1695 Chiefswood Road., P.O. Box 5000	Ohsweken	ON	N0A 1M0	519-445-2201	wkm@sixnations.ca
3	Chief	Bryan	LaForme	Mississaugas of the New Credit First Nation		Chief	2789 Mississauga Road, RR#6	Hagersville	ON	N0A 1H0		bryanlaforme@newcreditfirstnation.com
4		Fawn D.	Sault	Mississaugas of the New Credit First Nation	Department of Consultation and Accommodation	Consultation Manager	2789 Mississauga Road, RR#6	Hagersville	ON	N0A 1H0	905-768-4260	Fawn.Sault@newcreditfirstnation.com
5	Chief	Ava	Hill	Six Nations of the Grand River		Chief	1695 Chiefswood Road., P.O. Box 5000	Ohsweken	ON	N0A 1M0	519-445-2201	
6				Metis Nation of Ontario			500 Old St. Patrick Street, Unit 3	Ottawa	ON	K1N 9G4	613-798-1488	
FEDERAL AGENCIES												
7	Ms.	Cheynne	Loon	Aboriginal Affairs and Northern Development Canada	Land and Trust Services	Senior Environmental Advisor	25 St. Clair Avenue East, 8th Floor	Toronto	ON	M4T 1M2		cheynne.loon@aandc.gc.ca
8	Ms.	Allison	Berman	Aboriginal Affairs and Northern Development Canada	Consultation and Accommodation Unit	Regional Subject Expert for Ontario	300 Sparks Street, Room 205	Ottawa	ON	K1A 0H4	613-943-5488	
9				Environment Canada	Environmental Assessment and Approvals Branch		2 St. Clair Avenue West, Floor 12A	Toronto	ON	M4V 1L5	1-800-461-6290	
10	Mr.	Robert	Dobos	Environment Canada	EA Section, Ontario Region	Manager	867 Lakeshore Road, PO. Box 5050	Burlington	ON	L7R 4A6		
11				Environment Canada	Canadian Wildlife Service- Ontario Region		4905 Dufferin Street	Toronto	ON	M3H 5T4	1-800-668-6767	enviroinfo@ec.gc.ca
12				Fisheries and Oceans Canada	Fisheries Protection Program		867 Lakeshore Road	Burlington	ON	L7S 1A1	1-855-852-8320	fisheriesprotection@dfo-mpo.gc.ca
13	Ms.	Monique	Mousseau	Transport Canada	Environment & Engineering	Regional Manager	4900 Yonge Street, Suite 300	Toronto	ON	M2N 6A5	416-952-0485	monique.mousseau@tc.gc.ca
PROVINCIAL AGENCIES												
14	Mr.	Corwin	Troje	Ministry of Aboriginal Affairs	Ministry Partnerships Division	Manager (Acting)	160 Bloor Street East, 9th Floor	Toronto	ON	M7A 2E6	416-325-7032	corwin.troje@ontario.ca
15				Ministry of Aboriginal Affairs	EA- First Nations							maa.ea.review@ontario.ca
16	Mr.	David	Pickles	Ontario Secretariat for Aboriginal Affairs		Senior Policy Advisor	720 Bay Street, 4th Floor	Toronto	ON	M5G 2K1	416-326-4757	
17	Ms.	Carol	Neumann	Ministry of Agriculture, Food and Rural Affairs	Environmental and Land Use Policy	Rural Planner	6484 Wellington Road 7, Unit 10	Elora	ON	N0B 1S0	519-846-3393	carol.neumann@ontario.ca
18	Mr.	Duane	Evans	Ministry of Municipal Affairs and Housing		Planner	659 Exeter Road, 2nd Floor	London	ON	N6E 1L3	519-873-4020	
19	Mr.	Erick	Boyd	Ministry of Municipal Affairs and Housing	Community Planning and Development	Team Lead, Regional Planning	659 Exeter Road	London	ON	N6E 1L3	519-873-4025	erick.boyd@ontario.ca
20	Ms.	Wendy	Perry	Ministry of Community and Social Services, Central West Region		Planning Officer	6733 Mississauga Road, Suite 200	Mississauga	ON	L5N 6J5	905-567-7177	
21	Mr.	Keith	Noronha	Infrastructure Ontario	Real Estate and Lending	Project Information Assistant	1 Dundas Street West, Suite 2000	Toronto	ON	M5G 2L5	416-327-2755	keith.noronha@infrastructureontario.ca
22	Ms.	Lisa	Myslicki	Infrastructure Ontario	Environmental Management	Environmental Advisor	1 Dundas Street West, Suite 2000	Toronto	ON	M5G 2L5	416-212-3768	lisa.myslicki@infrastructureontario.ca
23	Ms.	Jennifer	Graham Harkness	Ministry of Transportation	West Region (London)	Regional Director	695 Exeter Road, 4th Floor	London	ON	N6E 1L3	519-873-4333	jennifer.grahamharkness@ontario.ca
24	Mr.	John	Morrissey	Ministry of Transportation	Corridor Management Section	Corridor Management Planner	659 Exeter Road	London	ON	N6E 1L3	519-873-4597	John.morrissey@ontario.ca
25	Ms.	Ann	Baldwin	Ministry of Transportation	West Region	Regional Director						
26	Ms.	Rosi	Zirger	Ministry of Tourism, Culture & Sport	Culture Division	Heritage Planner	401 Bay Street, Suite 1700	Toronto	ON	M7A 0A7	416-314-7159	rosi.zirger@ontario.ca
27	Mr.	David	Marriott	Ministry of Natural Resources and Forestry	Guelph District	District Planner	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4926	david.marriott@ontario.ca
28	Ms.	Tara	McKenna	Ministry of Natural Resources and Forestry	Guelph District	District Planner	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4912	tara.mckenna@ontario.ca
29	Mr.	Ian	Hagman	Ministry of Natural Resources and Forestry	Guelph District	District Manager	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4931	ian.hagman@ontario.ca
30	Mr.	Mike	Stone	Ministry of Natural Resources and Forestry		District Planner	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4912	mike.stone@ontario.ca
31	Ms.	Barbara	Slattery	Ministry of the Environment and Climate Change		West-Central Region EA Coordinator	119 King Street West, 12th Floor	Hamilton	ON	L8P 4Y7	905-521-7864	barbara.slattery@ontario.ca
32	Ms.	Kathleen	Hedley	Ministry of the Environment and Climate Change	Environmental Approvals Branch	Director	135 St. Clair Avenue West	Toronto	ON	M4V 1P5	416-314-7288	kathleen.hedley@ontario.ca
33	Ms.	Dolly	Goyette	Ministry of the Environment and Climate Change		District Manager	1 Stone Road West	Guelph	ON	N1G 4Y2	519-783-4333	dolly.goyette@ene.gov.on.ca
34	Ms.	Jane	Glassco	Ministry of the Environment and Climate Change	Guelph District Office	Manager	1 Stone Road West	Guelph	ON	N1G 4Y2	519-826-4258	jane.glassco@ontario.ca
35				Ministry of Economic Development, Employment and Infrastructure			900 Bay Street, 5th Floor	Toronto	ON	M7A 1C2	1-888-668-4636	
36	Mr.	Brian	Agensky	Ontario Realty Corporation		General Manager Environmenta and Cultural Heritage	1 Dundas St West	Toronto	ON	M5G 2L5		
37	Mr.	Brian	Runstedler	Ontario Clean Water Agency		Operations Manager, Brant, Haldimand Hub, Waterloo Region	385 Mohawk Street	Brantford	ON	N3T 5S1	519-756-5957	
CITY COUNCIL REPRESENTATIVES												
38	Mayor	Dave	Jaworsky	City of Waterloo		Mayor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8700	dave.jaworsky@waterloo.ca
39	Councillor	Bob	Mavin	City of Waterloo	City Council	Ward 1 - Southwest - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	bob.mavin@waterloo.ca
40	Councillor	Brian	Bourke	City of Waterloo	City Council	Ward 2 - Northwest - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	brian.bourke@waterloo.ca
41	Councillor	Angela	Vieth	City of Waterloo	City Council	Ward 3 - Lakeshore - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	angela.vieth@waterloo.ca
42	Councillor	Diane	Freeman	City of Waterloo	City Council	Ward 4 - Northeast - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	diane.freeman@waterloo.ca
43	Councillor	Mark	Whaley	City of Waterloo	City Council	Ward 5 - Southeast - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	mark.whaley@waterloo.ca
44	Councillor	Jeff	Henry	City of Waterloo	City Council	Ward 6 - Central-Columbia - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	jeff.henry@waterloo.ca
45	Councillor	Melissa	Durrell	City of Waterloo	City Council	Ward 7 - Uptown - Councillor	100 Regina St. S.	Waterloo	ON	N2J 4A8	519-747-8784	melissa.durrell@waterloo.ca
46	Councillor	Sean	Strickland	Region of Waterloo		City of Waterloo	150 Frederick Street, 1st Floor	Kitchener	ON	N2G 4J3	519-503-0613	sstrickland@regionofwaterloo.ca
47	Councillor	Dave	Jaworsky	Region of Waterloo		City of Waterloo	150 Frederick Street, 1st Floor	Kitchener	ON	N2G 4J3	519-747-8700	djaworsky@regionofwaterloo.ca
48	Councillor	Jane	Mitchell	Region of Waterloo		City of Waterloo	150 Frederick Street, 1st Floor	Kitchener	ON	N2G 4J3	519-886-9626	jmtchell@regionofwaterloo.ca
LOCAL MUNICIPAL REPRESENTATIVES												
49	Mr.	Rob	Horne	Region of Waterloo - Planning, Housing and Community Services		Commissioner	150 Frederick Street, 5th Floor	Kitchener	ON	N2G 4J3	519-575-4500	
50	Dr.	Liana	Nolan	Region of Waterloo - Public Health Department		Commissioner of Public Health and Medical Officer of Health	99 Regina Stret South, 3rd Floor, Box 1633	Waterloo	ON	N2J 4V3	519-883-2000	
51	Mr.	Eric	Riek	City of Kitchener		Project Manager	P.O. 1118	Kitchener	ON	N2G 4G7		
52	Ms.	Kathy	Padgett	City of Cambridge		Environmental Planner	50 Dickson Street, P.O. Box 669	Cambridge	ON	N1R 5W8	519-621-0740	
53	Mr.	David	Scott	Township of North Dumfries		Planner	2958 Greenfield Road, P.O. Box 1060	Ayr	ON	N0B 1E0	519-632-8800 ext.124	
54	Mr.	Geoff	VanderBaaren	Township of Wellesley		Planner	4639 Lobsinger Line	St. Clements	ON	N0B 2M0	519-699-3952	
55	Mr.	Gary	Charbonneau	The Corporation of the Township of Wilmot		Director of Public Works	60 Snyder's Road West	Baden	ON	N3A 1A1	519-634-8444 x238	gary.charbonneau@wilmot.ca
56	Mr.	John	Scarfone	Township of Woolwich		Manager of Planning	24 Church Street West, P.O. Box 158	Elmira	ON	N3B 2Z6		
SPECIAL INTEREST GROUPS												
57	Ms.	Johanne	Ranger	Canadian Heritage Rivers System		Acting Manager	30 Victoria Street, 3rd Floor	Gatineau	ON	J8X 0B3	819-420-9172	johanne.ranger@pc.gc.ca
58	Mr.	Mike	Grivicic	Region of Waterloo - Waterloo Regional Heritage Foundation			150 Frederick Street, 2nd Floor	Kitchener	ON	N2G 4J3	519-575-4493	
59	Mr.	Chris	Gosselin	Region of Waterloo Ecological and Environmental Advisory Committee			150 Frederick Street	Kitchener	ON	N2G 4J3	519-575-4501	
60				Safe and Healthy Community Advisory Committee - City of Waterloo		Director of Community Programs and Services	100 Regina Street South, 3rd Floor	Waterloo	ON	N2J 4A8		
61				Beechwood North Homes Association			326 Beechlawm Drive	Waterloo	ON	N2L 5W6		
62				Beechwood South Homes Association			160 Candlewood Crescent	Waterloo	ON	N2L 5T4		
63				Mary Allen Neighbourhood Association			51 George Street	Waterloo	ON	N2J 1K8		
64				Sunnydale Community Association			508-H Sunnydale Place	Waterloo	ON	N2L 3T1		
65	Mr.	Gary	Kirk	Westvale Community Association			161 Thornberry Lane	Waterloo	ON	N2T 2C9		
66	Mr.	Fraser	Gibson	Kitchener-Waterloo Field Naturalists		President	317 Highland Road East	Kitchener	ON	N2M 3W6		
67	Mr.	John	Griffin	Waterloo Advisory Committee on Active Transportation		Environmental Project Manager	265 Lexington Court	Waterloo	ON	N2J 4A8	519-886-2310	

#	Title	First Name	Last Name	Company/Organization	Department	Job Title	Street	City	Province	Postal Code	Telephone	Email
68	Ms.	Robyn	McMullen	Waterloo Citizens Environmental Advisory Committee		Environmental Policy Planner	100 Regina Street South	Waterloo	ON	N2J 4A8	519-747-8531	
69	Mr.	Eckhard	Pastrik	Waterloo Park Committee		Landscape Architect	265 Lexington Court	Waterloo	ON	N2J 4A8	519-747-8622	
70				WPIRG, University of Waterloo		Coordinator	200 University Avenue West	Waterloo	ON	N2L 3G1	519-888-4882	info@wpirg.org
	UTILITIES											
71	Ms.	Ann	Newman	Enbridge Pipelines Inc.	Damage Prevention	Crossings Coordinator	801 Upper Canada Drive	Sarnia	ON	N7T 7H8	519-339-0080	ann.newman@enbridge.com
72	Mr.	Chris	Pincombe	Enbridge Pipelines Inc.	Eastern Region	Lands & ROW Administrator	1086 Modeland Road, Building 1050, 1st Floor	Sarnia	ON	N7S 6L2	519-333-6753	chris.pincombe@enbridge.com
73	Mr.	Russell	McLean	Enbridge Gas		Manager, GIS and Records Administration	500 Consumers Road	North York	ON	M2J 1P8	416-458-7930	russell.mclean@enbridge.com
74	Ms.	Cara	Clairman	Ontario Power Generation Inc.	Sustainable Development	Vice President	700 University Avenue	Toronto	ON	L5G 1X6	416-592-2555	
75	Mr.	Satish	Kumar	Trans-Northern Pipelines Ltd	Crossings and Facilities	Coordinator	45 Vogell Road, Suite 310	Richmond Hill	ON	L4B 3P6	905-770-3353	
76	Ms.	Katherine	Lange	Trans Canada Pipelines		Event Coordinator	11200 Weston Road	Maple	ON	L6A 1S7		
77	Mr.	Jeremy	Getson	Union Gas Ltd.	Utility Service	Manager						jgetson@uniongas.com
78	Mr.	Ted	Hancocks	Rogers Cable			85 Grand Crest Place, P.O. Box 488	Kitchener	ON	N2G 4A8	519-893-4400	
79	Ms.	Gayle	Widmeyer	Bell Canada	Access Network Department	Manager	575 Riverbend Drive, Floor 2	Kitchener	ON	N2K 3S3		
80	Mr.	Jim	Leworthy	Bell Canada		Manager, Municipal	444 Millard Avenue	Newmarket	ON	L3Y 6J7		james.leworthy@bell.ca
81	Ms.	Dorothy	Moryc	Waterloo North Hydro	Distribution Engineering	Manager	526 Country Squire Road	Waterloo	ON	N2J 4G8	519-886-5090	dmoryc@wnhydro.com
82	Mr.	Walter	Kloostra	Hydro One Networks		Sustainment Manager	483 Bay Street TCT15-A11, North Tower	Toronto	ON	M5G 2P5		
83	Mr.	Roland	Herman	Enersource	Hydro Mississauga	Executive Vice President & Chief Operating Officer	3420 Mavis Rd	Mississauga	ON	L5C 3K1		
84	Mr.	Daniel J.	Pastoric	Enersource	Hydro Mississauga	President & Chief Executive Officer	3420 Mavis Rd	Mississauga	ON	L5C 3K1		
85	Mr.	Randy	Taylor	Goderick Exeter Rail			126 Weber Street North	Kitchener	ON	N2H 3Z9	519-272-4707	
	RAIL/TRANSIT											
86	Mr.	Dan	Francey	GO Transit and Metrolinx	Transportation Planning & Development	Manager	20 Bay Street, Suite 600	Toronto	ON	M5J 2W3	416-869-3600	daniel.francey@gotransit.com
87				GO Transit and Metrolinx		Manager Of Marketing & Planning	20 Bay Street, Suite 600	Toronto	ON	M5J 2W3	416-869-3600 ext. 5424	
88	Mr.	Francois	Beauclair	Canadian Pacific Railway		Director of Facilities, East	P.O. Box 6042 Station C.V.	Montreal	QC	H3C 3E4	514-395-5429	
89	Mr.	Randy	Crosby	Canadian National Railway		Track Supervisor	15 Wadsworth Street	Brantford	ON	N3T 3V5	519-759-5095	randy.crosby@cn.ca
	CONSERVATION AUTHORITIES											
90	Mr.	John	Brum	Grand River Conservation Authority	Resource Planning	Resource Planner - Central	400 Clyde Road	Cambridge	ON	N1R 5W6	519-621-2763 x 2233	jbrum@grandriver.ca
	SCHOOL BOARDS / SCHOOLS											
91	Mr.	Shawn	Callon	Waterloo Region District School Board	Planning Department	Principal Planner	51 Ardelt Avenue	Kitchener	ON	N2C 2R5	519-570-0003 x 4308	shawn_callon@wrdsb.on.ca
92	Ms.	Shesh	Maharaj	Waterloo Catholic District School Board		Chief Financial Officer and Treasurer	35 Weber Street West, PO Box 91116	Kitchener	ON	N2G 4G2		
93	Ms.	Maryse	Francella	Conseil scolaire de district catholique Centre-Sud		Surintendante adjointe de l'éducation par intérim	110 Drewry Avenue	Toronto	ON	M2M 1C8	416-397-6564 x 73335	mfrancella@csdccc.edu.on.ca
94	Mr.	Miguel	Ladouceur	Conseil scolaire Viamonde		Secteur de l'immobilisation, de l'entretien et de la planification	116 Cornelius Parkway	Toronto	ON	M6L 2K5	416-614-5917	ladouceurm@csviamonde.ca
	INSTITUTIONS											
95	Dr.	Feridun	Hamdullahpur	University of Waterloo		President and Vice-Chancellor	200 University Avenue West	Waterloo	ON	N2L 3G1	519-888-4567	president@uwaterloo.ca
96	Dr.	Max	Blouw	Wilfried Laurier University		President and Vice-Chancellor	75 University Avenue West	Waterloo	ON	N2L 3C5	519-884-1970	mknechtelbell@wlu.ca
97	Dr.	John	Tibbits	Conestoga College		President	299 Doon Valley Drive	Kitchener	ON	N2G 4M4	519-748-5220 x 3500	
	STAKEHOLDER GROUPS											
98	Mr.	Ian	McLean	Greater KW Chamber of Commerce			PO Box 27367	Kitchener	ON	N2H 6L4	519-749-6838	
99				Waterloo Region Home Builders Association			725 Bridge Street West, Suite 1	Waterloo	ON	N2V 2H1		
100				MHBC Planning			200-540 Bingemans Centre Drive	Kitchener	ON	N2B 3X9		
101				GSP Group			201-72 Victoria Street South	Kitchener	ON	N2G 4Y9		
102				IBI Group			17-105 Lexington Road	Waterloo	ON	N2J 4R7		
103				Labreche Patterson and Associates			330 Trillium Drive, Unit F	Kitchener	ON	N2E 3J2		
104	Mr.	Larry	Masseo	Activa Management Corporation	Planning & Development Services	Vice President	55 Columbia Street East. Suite 2	Waterloo	ON	N2J 4N7	519-886-9400 x 116	lmasseo@activagroup.ca

Notice of Study Commencement and PIC No. 1



Public Notice

Join us for a public information centre to learn about our Infrastructure Asset Management Plan and Water Distribution Master Plan Class Environmental Assessment

The Infrastructure Asset Management Plan

As part of our continuing efforts to ensure the services that the City provides through our infrastructure assets can be sustained over the long term, we are enhancing our processes to understand the investments that are needed to achieve the desired performance of our infrastructure assets. The Plan will look at all of the assets that the City owns and uses to provide a range of services to our community, classified into the following 14 asset groups: transportation, sanitary sewer collection, water distribution, storm sewer collection, stormwater management, facilities, parks, forestry, parking, fleet, fire services, furniture and fixtures, information technology, and lands.

As part of this Plan, we are also completing an in-depth look at our water distribution assets through the Water Distribution Master Plan study to apply these enhanced processes to one of our most important asset groups.

The Water Distribution Master Plan Study

The City of Waterloo and the Region of Waterloo work together to provide water to businesses and homes. Under this two-tier approach, the city is responsible for water distribution to local business and homes while the region is responsible for the supply, treatment, and delivery of water to the city's system.

In 2015, the Region of Waterloo completed a master planning process to identify the long-term activities and infrastructure needed to ensure long-term sustainable supply, treatment, and delivery of water to Waterloo's water system. The City's water distribution master plan will build on work completed by the region and will focus on the city-owned and managed local water distribution system.

The objective of the Master Plan is to achieve a cost-effective water distribution system that:

- meets the needs of our customers as well as regulatory and legislative requirements;
- supports population growth;
- considers system resiliency; and
- optimizes the system performance objectives with the long-term renewal needs of the system.

The process

The water distribution master plan is being completed as a separate Class EA study in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007 and 2011). The study is being undertaken based on Approach 1, which involves a broad level of assessment, satisfying phases one and two of the Class EA process. The master plan is being undertaken under the umbrella of the city's infrastructure asset management analysis report that is focused on developing a long-term strategy to manage all of the city's current and planned assets.

We Want to Hear from You!

The information centre will be held jointly with the city's current water and sanitary sewer rate study open house, and all attendees will be able to get an overview of both projects and comment on both studies. The first of two public information centres regarding this master plan study will be held as follows:

Date: Feb. 25, 2016

Time: 6 to 8 p.m.

Location: Waterloo Memorial Recreation Complex, Hauser Haus
101 Father David Bauer Dr., Waterloo

This notice is also available on the city's website at: waterloo.ca/watermasterplan where future project updates will also be posted. If you wish to submit comments or would like to be added to the project mailing list, please contact:

Milos Posavljak M.Sc., P.Eng.
Project Manager, Asset Management
City of Waterloo
265 Lexington Court
Waterloo ON N2J 4A8
Tel: 519-886-2310, ext. 30303
Email: Milos.Posavljak@waterloo.ca

Julien Bell, P.Eng.
Project Manager
GM BluePlan
650 Woodlawn Road West, Block C, Unit 2
Guelph, ON N1K 1B8
Tel: 519-824-8150
Email: Julien.Bell@gmblueplan.ca

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario’s Environmental Assessment Act.

Comments and Responses Tracking Sheet

CONSULTATION TRACKING SHEET
GOVERNMENT AGENCIES

Level of Government	Government Agency	From	To	Date Sent/Received	Type	Message	Action Item	Status	Date of Action	Type	Project Stage
Provincial	Infrastructure Ontario (MOI)	Lisa Myslicki (Environmental Advisor, Environmental Management)	City of Waterloo & GM BluePlan	February 18, 2016	Letter via Email	• Proposal may impact IO managed properties and/or activities of tenants present on IO-managed properties • To determine if IO property is within study area, title search needs to be carried out by reviewing parcel register(s) for adjoining lands under the following names: Her Majesty the Queen/King, OLC, ORC, Public Works, Hydro One, PIR, MGS, MBS, MOI, MTO, MNR and MEI • Potential negative impacts to IO tenants and lands could include: - General Impacts: dewatering, dust, noise, vibration, natural heritage features habitat and functions - Impacts to Land Holdings: taking of developable parcels of IO managed land, fragmentation of utility or transportation corridors - Impacts to Cultural Heritage: cultural landscapes, built heritage, and archaeological potential and/or sites • The purchase of MOI-owned/IO-managed lands or disposal of rights & responsibilities (e.g. easement) for IO-managed lands triggers the application of the MOI Class EA --> this will require contacting Sales, Easements & Acquisitions Group through IO's main line	• GM BluePlan to acknowledge letter received via email. • GMBP to confirm if any MOI owned lands are anticipated to be impacted. • Should there be any MOI-owned or managed lands, potential impacts will need to be identified and electronic notices for any projects impacting IO managed lands will need to be sent to Keith.Noronha@infrastructureontario.ca • Should there not be any MOI-owned or managed lands identified within the study area, GMBP to remove IO from contact list.	• Not Complete		Letter	Notice of Commencement
Provincial	Ministry of Transportation (MTO)	John Morrisey (Corridor Management Planner)	City of Waterloo	February 17, 2016	E-mail	• Wanted to ensure that the MTO is added to the contact list • Confirmed that John Morrisey can be used as the point of contact.	• City replied via email to acknowledge comment received • No further response required	• Complete	February 19, 2016	E-mail	Notice of Commencement
Provincial	Ministry of Environment and Climate Change (MOECC)	Craig Newton	City of Waterloo	February 12, 2016	E-mail	• Received Notice in error - MOECC Planner that reviews and comments on Master Plans in Waterloo is counterpart in Hamilton, Ms. Barb Slattery. (West Central Region jurisdiction) • Forwarded Notice to Ms. Slattery	• GMBP to update contact list, replacing MOECC contact Craig Newton with Barb Slattery	• Complete	February 12, 2016	Email	Notice of Commencement
		Barbara Slattery	City of Waterloo & GM BluePlan	February 16, 2016	Letter & Attachment via Email	• Acknowledges the Notice and that the study is following the master planning provisions within the MEA Class EA • Consultation with First Nation & Metis Communities: • Proposed project may have potential to affect Aboriginal communities who hold or claim Aboriginal or treaty rights under Section 35 of Canada's Constitution Act 1982. • Steps that need to be taken in relation to Aboriginal consultation are outlined in the attached "Aboriginal Consultation Information" document to help assess project's potential advser effects on Aboriginal or treaty rights. • Director of Environmental Aprovals Branch must be contacted if it is believed that proposed project may have adversely affect Aboriginal or treaty right, sonsultation has reach an impasse or Part II Order is anticipated for any Schedule B projects identified as part of the Master Plan.	• GM BluePlan to acknowledge letter received via email. • Maintain Barb Slattery as primary contact for MOECC Approvals Branch.	• Not Complete		Letter by E-mail	Notice of Commencement
Provincial	Ministry of Natural Resources and Forestry (MNRF)	David Marriott (District Planner, MNRF Guelph District)	GM BluePlan (on behalf of the City of Waterloo)	February 24, 2016	E-mail	• Confirms receipt of Notice of Study Commencement • Would appreciate receiving updates to the EA (e.g. reporting) when the information becomes available for review.	• GM BluePlan to acknowledge comment received via email.	• Not Complete		E-mail	Notice of Commencement
Provincial	Ministry of Tourism, Culture and Sport (MTCs)	Rosi Zirger (Heritage Planner)	GM BluePlan & City of Waterloo	February 25, 2016	E-mail	• Confirms receipt of Notice of Study Commencement • Requested changes to the contact list, directing future notices to Rosi Zirger.	• GM BluePlan to acknowledge comment received via email. • GM BluePlan to make changes to contact list as requested.	• Not Complete		E-mail	Notice of Commencement

Comments and Responses

Laura Borowiec - GM BluePlan

From: Newton, Craig (MOECC) <Craig.Newton@ontario.ca>
Sent: Friday, February 12, 2016 3:05 PM
To: Milos Posavljak; Julien Bell - GM BluePlan
Cc: Slattery, Barbara (MOECC); Bill Garibaldi
Subject: RE: Waterloo Water Distribution Master Plan Class EA

No problem, on reflection, I noticed I sent you a typo on Barb's name. The last name should have read Slattery, not Slatery.

Craig

From: Milos Posavljak [mailto:Milos.Posavljak@waterloo.ca]
Sent: February-12-16 3:04 PM
To: Newton, Craig (MOECC); Julien.Bell@gmblueplan.ca
Cc: Slattery, Barbara (MOECC); Bill Garibaldi
Subject: RE: Waterloo Water Distribution Master Plan Class EA

Thank you Mr. Newton, much appreciated!

Milos

From: Newton, Craig (MOECC) [mailto:Craig.Newton@ontario.ca]
Sent: Friday, February 12, 2016 3:01 PM
To: Milos Posavljak; Julien.Bell@gmblueplan.ca
Cc: Slattery, Barbara (MOECC)
Subject: Waterloo Water Distribution Master Plan Class EA

Mr. Posavljak:

I received this Notice in error. The MOECC Planner that reviews and comments on Master Plans in Waterloo is my counterpart, based in Hamilton, Ms. Barb Slattery. Please be advised that Waterloo is geographically situated in MOECC West Central Region's jurisdiction.

I have taken the liberty of forwarding your Notice to Barb's attention.

Please ensure future correspondence on this, and other EA projects in Waterloo, are forwarded to Barb's attention.

Thanks in advance.

Yours truly,

Craig Newton
Regional Environmental Planner / Regional EA Coordinator
Ministry of the Environment & Climate Change
Southwestern Region
(519) 873-5014

Please consider the environment before printing this email. IMPORTANT NOTICE: This communication (including attachments) is intended solely for the named addressee(s) and may contain information that is privileged, confidential and exempt from disclosure. No waiver of confidence, privilege, protection or otherwise is made. If you are not the intended recipient of this communication, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately and delete this email (including attachments) without reading, copying or forwarding it to anyone. Thank you for your cooperation.

Ministry of the Environment
and Climate Change
West Central Region

119 King Street West
12th Floor
Hamilton, Ontario L8P 4Y7
Tel.: 905 521-7640
Fax: 905 521-7820

Ministère de l'Environnement
et de l'Action en matière de changement climatique
Direction régionale du Centre-Quest

119 rue King Quest
12e étage
Hamilton (Ontario) L8P 4Y7
Tél. : 905 521-7640
Télec. : 905 521-7820



February 16, 2016

Mr. M. Posavijak
City of Waterloo
265 Lexington Court
Waterloo, ON N2J 4A8

Mr. J. Bell
GM BluePlan
650 Woodlawn Road West, Block C, Unit 2
Guelph, ON N1K 1B8

Dear Messrs Posavijak and Bell:

Re: Response to Notice of Commencement
Water Distribution Master Plan
IDS #6431-A77P2D

This letter is our response to the Notice of Commencement for the above noted project. This response acknowledges that the City of Waterloo has indicated that its study is following the master planning provisions within the MEA Class Environmental Assessment. It is understood that the City is undertaking this Master Planning exercise in order to *identify the long term sustainable supply, treatment, and delivery of water to the City's system* and move forward on the work that was previously done by the Region of Waterloo. Thank you for the opportunity to comment on this project.

Consultation with First Nation and Métis Communities

Your proposed project may have the potential to affect Aboriginal communities who hold or claim Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982.

The Crown has a duty to consult First Nation and Métis communities when it knows about established or credibly asserted Aboriginal or treaty rights, and contemplates decisions or actions that may adversely affect them.

Although the Crown remains responsible for ensuring the adequacy of consultation with potentially affected Aboriginal communities, it may delegate procedural aspects of the consultation process to project proponents.

The environmental assessment process requires proponents to consult with interested persons and government agencies, including those potentially affected by the proposed project. This includes a responsibility to conduct adequate consultation with First Nation and Métis communities.

The Ministry relies on consultation conducted by proponents when it assesses the Crown's obligations and directs proponents during the regulatory process.

Where the Crown's duty to consult is triggered in relation to your proposed project, the Ontario Ministry of the Environment and Climate Change is delegating the procedural aspects of rights-based consultation to you through this letter.

Steps that you may need to take in relation to Aboriginal consultation for your proposed project are outlined in the attached "Aboriginal Consultation Information" document. Please complete the checklist contained there, and keep related notes as part of your consultation record. Doing so will help you assess your project's potential adverse effects on Aboriginal or treaty rights.

You must contact the Director, Environmental Approvals Branch if you have reason to believe that your proposed project may **adversely affect an Aboriginal or treaty right, consultation has reached an impasse**, or if a Part II Order is anticipated for any Schedule "B" projects that may be identified as part of the master Plan. The Ministry will then assess the extent of any Crown duty to consult in the circumstances, and will consider whether additional steps should be taken and what role you will be asked to play in them.

In recognition of the approvals that may be required from this ministry to implement the projects that are identified in the master plan, it is recommended that you continue to provide me with notifications at key decision points so that we have the ability to provide you with information and advice.

Should you or any members of your project team have any questions regarding the material above, please contact me either at (905) 521-7864 or at Barbara.slattery@ontario.ca

Sincerely,

A handwritten signature in cursive script that reads "Barbara Slattery". The signature is written in dark ink on a light-colored background.

Barbara Slattery
EA/Planning Coordinator

cc. Rick Neubrand, MOECC (via email only)

Laura Borowiec - GM BluePlan

From: Slattery, Barbara (MOECC) <barbara.slattery@ontario.ca>
Sent: Tuesday, February 16, 2016 3:12 PM
To: Milos/posavijak@waterloo.ca; Julien Bell - GM BluePlan
Cc: Neubrand, Rick (MOECC)
Subject: Water Distribution Master Plan
Attachments: CityofWaterlooWDMPacklet.docx; Attachment_Template Response to Notice of Commencement_2015.May.7.docx

Regards,

Barb Slattery, EA/Planning Coordinator
Ministry of the Environment and Climate Change
West Central Region
(905) 521-7864

Ministry of the Environment
and Climate Change
West Central Region

119 King Street West
12th Floor
Hamilton, Ontario L8P 4Y7
Tel.: 905 521-7640
Fax: 905 521-7820

Ministère de l'Environnement
et de l'Action en matière de changement climatique
Direction régionale du Centre-Quest

119 rue King Quest
12e étage
Hamilton (Ontario) L8P 4Y7
Tél. : 905 521-7640
Télec. : 905 521-7820



February 16, 2016

Mr. M. Posavijak
City of Waterloo
265 Lexington Court
Waterloo, ON N2J 4A8

Mr. J. Bell
GM BluePlan
650 Woodlawn Road West, Block C, Unit 2
Guelph, ON N1K 1B8

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Re: Response to Notice of Commencement
Water Distribution Master Plan
IDS #6431-A77P2D

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In recognition of the approvals that may be required from this ministry to implement the projects that are identified in the master plan, it is recommended that you continue to provide me with notifications at key decision points so that we have the ability to provide you with information and advice.

Should you or any members of your project team have any questions regarding the material above, please contact me either at (905) 521-7864 or at Barbara.slattery@ontario.ca

Sincerely,

A handwritten signature in cursive script that reads "Barbara Slattery". The signature is written in dark ink on a light-colored background.

Barbara Slattery
EA/Planning Coordinator

cc. Rick Neubrand, MOECC (via email only)

February 18th, 2016

To whom it may concern,

Thank you for circulating Infrastructure Ontario (IO) on your Notice. Infrastructure Ontario is the strategic manager of the provincial government's real estate with a mandate of maintaining and optimizing value of the portfolio while ensuring real estate decisions reflect public policy objectives of the government.

As you may be aware, *IO is responsible for managing property that is owned by Her Majesty the Queen in Right of Ontario as represented by the Minister of Infrastructure (MOI)*. There is a potential that IO manages lands fall within your study area. As a result, your proposal may impact IO managed properties and/or the activities of tenants present on IO-managed properties. In order to determine if IO property is within your study area, IO requires that the proponent of the project conduct a title search by reviewing parcel register(s) for adjoining lands, to determine the extent of ownership by MOI or its predecessor's ownership (listed below). Please contact IO if any ownership of provincial government lands are known to occur within your study area and are proposed to be impacted. IO managed land can ***include within the title but is not limited to*** variations of the following: Her Majesty the Queen/King, OLC, ORC, Public Works, Hydro One, PIR, MGS, MBS, MOI, MTO, MNR and MEI*. Please ensure that a copy of your notice is also sent to the ministry/agency on title. As an example, if the study area includes a Provincial Park, then MNR is to also be circulated notices related to your project.

IO obligates proponents to complete all due diligence for any realty activity on IO managed lands and this should be incorporated into all project timelines.

Potential Negative Impacts to IO Tenants and Lands

General Impacts

Negative environmental impacts associated with the project design and construction, such as the potential for dewatering, dust, noise and vibration impacts, impacts to natural heritage features/habitat and functions, etc should be avoided and/or appropriately mitigated in accordance with applicable regulations best practices as well as Ministry of Natural Resources (MNR) and Ministry of the Environment (MOE) standards. Avoidance and mitigation options that characterize baseline conditions and quantify the potential impacts should be present as part of the EA project file. Details of appropriate mitigation, contingency plans and triggers for implementing contingency plans should also be present.

Impacts to Land holdings

Negative impacts to land holdings, such as the taking of developable parcels of IO managed land or fragmentation of utility or transportation corridors, should be avoided. If the potential for such impacts is present as part of this undertaking, you should contact the undersigned to discuss these issues at the earliest possible stage of your study.

If takings are suggested as part of any alternative, these should be appropriately mapped and quantified within the EA report documentation. In addition, details of appropriate mitigation and or next steps related to compensation for any required takings should be present. IO requests circulation of the draft EA report prior to finalization if potential impacts to IO-managed lands are present as part of this study.

From: Milos Posavljak [<mailto:Milos.Posavljak@waterloo.ca>]
Sent: Friday, February 19, 2016 3:52 PM
To: Marion Roes <mlroes@sympatico.ca>; Julien Bell - GM BluePlan <julien.bell@gmblueplan.ca>
Cc: Lesley Webb <lesley.webb@gmail.com>
Subject: RE: Public Notice of Study Commentcement and PIC #1

Thank you Marion for you e-mail, much appreciated.

Milos

From: Marion Roes [<mailto:mlroes@sympatico.ca>]
Sent: Thursday, February 18, 2016 10:11 AM
To: Milos Posavljak; julien.bell@gmblueplan.ca
Cc: Lesley Webb
Subject: Public Notice of Study Commentcement and PIC #1

Milos and Julien:

Waterloo Historical Society received the public notice and I'm requesting that you remove us from further mailings about this. We are a regional organization (not City of Waterloo) and have no physical location. If there is another reason for which we received the notice, would you let me know?

Thank you.

Marion Roes
Past President
Waterloo Historical Society
c/o Grace Schmidt Room
85 Queen St N
Kitchener ON N2H 2H1

Cc Lesley Webb, President

Please consider the environment before printing this email. IMPORTANT NOTICE: This communication (including attachments) is intended solely for the named addressee(s) and may contain information that is privileged, confidential and exempt from disclosure. No waiver of confidence, privilege, protection or otherwise is made. If you are not the intended recipient of this communication, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately and delete this email (including attachments) without reading, copying or forwarding it to anyone. Thank you for your cooperation.

From: Milos Posavljak [<mailto:Milos.Posavljak@waterloo.ca>]
Sent: Friday, February 19, 2016 3:36 PM
To: Morrisey, John (MTO) <John.Morrissey@ontario.ca>
Cc: Julien Bell - GM BluePlan <julien.bell@gmblueplan.ca>
Subject: RE: Waterloo - Water Distribution Master Plan Class EA

Thank you John for the e-mail, much appreciated.

Milos

From: Morrisey, John (MTO) [<mailto:John.Morrissey@ontario.ca>]
Sent: Wednesday, February 17, 2016 10:37 AM
To: Milos Posavljak
Cc: Julien.Bell@gmblueplan.ca
Subject: Waterloo - Water Distribution Master Plan Class EA

Milos,

Can you please ensure that the Ministry of Transportation is added to the project mailing list. You may utilize me as the point of contact.

Regards,

John Morrisey
Corridor Management Planner
Corridor Management Section
Engineering Office
Ministry of Transportation
659 Exeter Road, London, ON
N6E 1L3
Telephone 519-873-4597
Fax 519-873-4228
John.morrissey@ontario.ca

Please consider the environment before printing this email. IMPORTANT NOTICE: This communication (including attachments) is intended solely for the named addressee(s) and may contain information that is privileged, confidential and exempt from disclosure. No waiver of confidence, privilege, protection or otherwise is made. If you are not the intended recipient of this communication, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately and delete this email (including attachments) without reading, copying or forwarding it to anyone. Thank you for your cooperation.

From: Marriott, David (MNRF) [<mailto:David.Marriott@ontario.ca>]
Sent: Wednesday, February 24, 2016 10:12 AM
To: Julien Bell - GM BluePlan <julien.bell@gmblueplan.ca>
Subject: Waterloo - Water Distribution Master Plan Class EA

Hi Julien,

The Ministry of Natural Resources and Forestry (MNRF) Guelph District Office can confirm receipt of the 'Notice of Study Commencement' for the City's Water Distribution Master Plan Class Environmental Assessment (EA). MNRF staff would appreciate being circulated on updates to the EA (e.g. reporting) when the information becomes available for review.

Thanks

Dave

Dave Marriott
District Planner
Ministry of Natural Resources and Forestry, Guelph District
1 Stone Road West
Guelph ON, N1G 4Y2
(P) 519-826-4926
(F) 519-826-6849
email: david.marriott@ontario.ca

From: Zirger, Rosi (MTCS) [<mailto:Rosi.Zirger@ontario.ca>]
Sent: Thursday, February 25, 2016 2:31 PM
To: Julien Bell - GM BluePlan <julien.bell@gmblueplan.ca>
Cc: milos.posavljak@waterloo.ca
Subject: Waterloo Water Distribution Master Plan EA

The Ministry of Tourism, Culture and Sport (MTCS) received a Notice of Commencement and PIC#1 for the project mentioned above. Attached please find MTCS recommendations for this project.

Meanwhile, we would appreciate being kept informed of this project as it proceeds through the EA process. Please update your contact list to remove the names of Leela Gurpersaud, Laura Hatcher, Chris Stack, Laura-Lee Dam and Sonja Erstic. Please send future notices to Rosi Zirger, Heritage Planner at the address below or to rosi.zirger@ontario.ca.

Please feel free to email or telephone me as necessary. I would be pleased to have further discussion with you.

Sincerely

Rosi Zirger
Heritage Planner
Ministry of Tourism, Culture & Sport
Culture Division | Programs & Services Branch | Culture Services Unit
401 Bay Street, Suite 1700 Toronto, Ontario M7A 0A7
Tel. 416.314.7159 | Fax 416.314.7175 | E-mail: rosi.zirger@ontario.ca

From: Cyr, Gisele (MCIIT)
Sent: February 22, 2016 11:48 AM -
To: Gurpersaud, Leela (MTCS); Hatcher, Laura (MTCS) -
Cc: Stack, Chris (MCIIT); Dam, Laura-Lee (MCIIT); Erstic, Sonja (MCIIT) -
Subject: EA: Notice of Study Commencement and PIC #1 re. Water Distribution Master Plan -

Hello, -

Please see attached Environmental Assessment - Notice of Study Commencement re. Water Distribution Master Plan, and Public Information Centre #1, The City of Waterloo. -

Gisèle Cyr -
Administrative Assistant -
Regional Services Branch, West Region -
Ministry of Citizenship and Immigration and International Trade Ministry of Tourism, Culture and Sport -
4275 King Street East, 2nd Floor -
Kitchener, Ontario N2P 2E9 -
Tel: 519-650-5705 -
Fax: 519-650-3425 -
gisele.cyr@ontario.ca -

**Ministry of Tourism,
Culture and Sport**

Culture Services Unit
Programs and Services Branch
401 Bay Street, Suite 1700
Toronto ON M7A 0A7
Tel: 416 314-7159
Fax: 416 212 1802

**Ministère du Tourisme,
de la Culture et du Sport**

Unité des services culturels
Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto ON M7A 0A7
Tél: 416 314-7159
Téléc: 416 212 1802



February 25, 2016 (by email only)

Julien Bell, Consultant Project Manager
GM BluePlan
650 Woodlawn Road West, Block C Unit 2
Guelph, ON N1K 1B8
E: Julien.Bell@gmblueplan.ca

RE: MTCS file #: 0004253
Proponent: City of Waterloo and the Region of Waterloo
Subject: Notice of Commencement and PIC #1 – Municipal Class EA
Water Distribution Master Plan
Location: City of Waterloo, Ontario

Dear Mr. Bell

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Notice of Commencement and PIC #1 for the above noted project. MTCS's interest in this EA project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land-based and marine;
- built heritage resources, including bridges and monuments; and,
- cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources.

Master Plan Study

We would typically expect, at minimum, that in a Class EA master planning process such as this one, cultural heritage resources and concerns would be inventoried for the study area and the proposed facilities locations, and a process would be described for more complete assessment and mitigation of cultural heritage impacts when the proposed facilities are subjected to Phase 3 of the Class EA process.

Cultural Heritage Resources

While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation. Aboriginal communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Aboriginal communities includes a discussion about known or potential cultural heritage resources that are of value to these communities. Municipal Heritage Committees, historical societies and other local heritage organizations may also have knowledge that contributes to the identification of cultural heritage resources.

Archaeological Resources

This EA project may impact archaeological resources and you should screen the project with the MTCS [Criteria for Evaluating Archaeological Potential](#) to determine if an archaeological assessment is needed. MTCS archaeological sites data are available at archaeologicalsites@ontario.ca. If this EA project area

exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *OHA*, who is responsible for submitting the report directly to MTCS for review.

Built Heritage and Cultural Heritage Landscapes

The MTCS [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) should be completed to help determine whether your EA project may impact cultural heritage resources. The Clerk for the municipality can provide information on property registered or designated under the *Ontario Heritage Act*. Municipal Heritage Planners can also provide information that will assist you in completing the checklist.

If potential or known heritage resources exist, MTCS recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts. Our Ministry's [Info Sheet #5: Heritage Impact Assessments and Conservation Plans](#) outlines the scope of HIAs. Please send the HIA to MTCS for review, and make it available to local organizations or individuals who have expressed interest in heritage.

Environmental Assessment Reporting

All technical heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MTCS whether any technical heritage studies will be completed for your EA project, and provide them to MTCS before issuing a Notice of Completion. If your screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank-you for consulting MTCS on this project: please continue to do so through the EA process, and contact me for any questions or clarification.

Sincerely,

Rosi Zirger
Heritage Planner
rosi.zirger@ontario.ca

Copied to: Milos Posavljak, Project Manager, City of Waterloo

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

Please notify MTCS if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*.

If human remains are encountered, all activities must cease immediately and the local police as well as the Cemeteries Regulation Unit of the Ministry of Government and Consumer Services must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

Impacts to Cultural Heritage

Should the proposed activities impact cultural heritage features on IO managed lands, a request to examine cultural heritage features, which can include cultural landscapes, built heritage, and archaeological potential and/or sites, could be required. If the potential for such impacts is present as part of this undertaking, you should contact the undersigned to discuss these issues at the earliest possible stage of your study.

Potential Triggers Related to MOI's Class EA

IO is required to follow the MOI Public Work Class Environmental Assessment Process for (PW Class EA). The PW Class EA applies to a wide range of realty and planning activities including leasing or letting, planning approvals, disposition, granting of easements, demolition and property maintenance/repair. For details on the PW Class EA please visit the Environment and Heritage page of our website found at

<http://www.infrastructureontario.ca/Templates/Buildings.aspx?id=2147490336&langtype=1033>

Please note that completion of any EA process does not provide an approval for MOI's Class EA obligations. Class EA processes are developed and in place to assess undertakings associated with different types of projects. For example, assessing the impacts of disposing of land from the public portfolio is significantly different then assessing the best location for a proposed road.

IO is providing this information so that adequate timelines and project budgets can consider MOI's regulatory requirements associated with a proposed realty activity in support of a project. Some due diligences processes and studies can be streamlined. For example, prior to any disposition of land, at minimum a Phase I Environmental Site Assessment and a Stage I Archaeological Assessment and the MOI Category B Environmental Assessment should be undertaken.. Deficiencies in any of these requirements could result in substantial project delays and increased project costs.

In summary, the purchase of MOI-owned/IO-managed lands or disposal of rights and responsibilities (e.g. easement) for IO-managed lands triggers the application of the MOI Class EA. If any of these realty activities affecting IO-managed lands are being proposed as part of any alternative, please contact the Sales, Easements and Acquisitions Group through IO's main line (Phone: 416-327-3937, Toll Free: 1-877-863-9672), and also contact the undersigned at your earliest convenience to discuss next steps.

Specific Comments

Please remove IO from your circulation list, with respect to this project, if MOI owned lands are not anticipated to be impacted. In addition, in the future, please send only **electronic copies of notices** for any projects impacting IO managed lands to:

Keith.Noronha@infrastructureontario.ca

Thank you for the opportunity to provide initial comments on this undertaking. If you have any questions I can be reached at the contacts below.

Sincerely,

Lisa Myslicki

Environmental Advisor, Environmental Management
Infrastructure Ontario
1 Dundas Street West,
Suite 2000, Toronto, Ontario
M5G 2L5
(416) 212-3768
lisa.myslicki@infrastructureontario.ca

* Below are the acronyms for agencies/ministries listed in the above letter

OLC	Ontario Lands Corporation
ORC	Ontario Realty Corporation
PIR	Public Infrastructure and Renewal
MGS	Ministry of Government Services
MBS	Management Board and Secretariat
MOI	Ministry of Infrastructure
MTO	Ministry of Transportation
MNR	Ministry of Natural Resources
MEI	Ministry of Energy and Infrastructure

From: Fawn Sault [<mailto:Fawn.Sault@newcreditfirstnation.com>]

Sent: Monday, April 04, 2016 3:23 PM

To: Milos Posavljak

Cc: Mark LaForme; Megan DeVries

Subject: MNCFN Response to the Notice of Study Commencement and PIC#1 Water Distribution Master Plan Class Environmental Assessment

Dear Milos,

Thank you for the notification sent to The Mississaugas of the New Credit First Nation (MNCFN) regarding the Notice of Study Commencement and PIC#1 Water Distribution Master Plan Class Environmental Assessment. We have reviewed the document you have provided and determined that, at this time, MNCFN has a **low level** of concern about the project. *Please see the attached letter for more information.*

Respectfully, we ask that you immediately notify MNCFN if there are any changes to the project as they may impact MNCFN's interests. Additionally, MNCFN requests a copy of all associated environmental and/or archaeological reports. These can be electronic copies, if you prefer. Furthermore, MNCFN employs Field Liaison Representatives who **must** be on location whenever any fieldwork for environmental and/or archaeological assessments is undertaken. If additional work is scheduled, please notify us as soon as possible so that we may work together to discuss and arrange for MNCFN's participation.

Sincerely,

Fawn D. Sault
Consultation Manager
Department of Consultation and Accommodation
Mississauga of the New Credit First Nation
Office 905-768-4260
Fax 905-768-9751
Cell 289-527-6580

Please consider the environment before printing this email. IMPORTANT NOTICE: This communication (including attachments) is intended solely for the named addressee(s) and may contain information that is privileged, confidential and exempt from disclosure. No waiver of confidence, privilege, protection or otherwise is made. If you are not the intended recipient of this communication, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately and delete this email (including attachments) without reading, copying or forwarding it to anyone. Thank you for your cooperation.



April 11, 2016

Milos Posavljak, M.Sc., P.Eng.
Project Manager, Asset Management
City of Waterloo
265 Lexington Court
Waterloo, ON.

Dear Milos Posavljak,

By way of background, the Mississaugas of the New Credit First Nation (MNCFN) are the descendants of the Mississaugas of the River Credit. Our Traditional Territory extends from the Rouge River Valley in the east, across to the headwaters of the Thames River, down to Long Point on Lake Erie, and back along the shores of Lake Erie, the Niagara River, and Lake Ontario to the Rouge River Valley. It encompasses present-day Niagara Falls, Hamilton, Mississauga, Toronto, Scarborough and Woodstock, as well as our communal lands. In total our Traditional Territory consists of some 3.9 million acres of Southern Ontario.

Thank you for your notification on *the Notice of Study Commencement and PIC #1 Water Distribution Master Plan Class Environmental Assessment* dated February 19, 2016. The Mississaugas of the New Credit First Nation (MNCFN) has various treaty rights across its traditional territory, including the area contemplated by your project. For further information, please see our website, <http://www.newcreditfirstnation.com/>. MNCFN continues to exercise treaty rights which include, but are not limited to, rights to harvest, fish, trap and gather species of plants, animals and insects for any purpose including food, social, ceremonial, trade and exchange purposes. The MNCFN also has the right to use the water and resources from the rivers, creeks and lands across the MNCFN traditional territory.

At this time, MNCFN *does not* have a high level of concern regarding the proposed project and therefore, by way of this letter, approves the continuation of this project. However, MNCFN requests that you continue to notify us about the status of the project. **In addition, we respectfully ask you to immediately notify us if there are any changes to the project as they**

may impact MNCFN's interests and that you please provide us with a copy of all associated environmental and archaeology reports. This includes, but is not limited to changes related to the scope of work and expected archaeological and environmental impacts.

Additionally, MNCFN employs Field Liaison Representatives ("FLRs") to act as official representatives of the community and who are answerable to MNCFN Chief and Council through the Department of Consultation and Accommodation. The FLRs' mandate is to ensure that MNCFN's perspectives and priorities are considered in the field and to enable MNCFN to provide timely, relevant, and meaningful comment on the Project. Therefore, **it is MNCFN policy that FLRs are on location whenever any fieldwork for environmental and/or archaeological assessments are undertaken.** It is expected that the proponent will cover the costs of this FLR participation in the fieldwork. Please also provide the contact information of the person, or consultant, in charge of organizing this work so they may facilitate the participation of the MNCFN FLRs.

Nothing in this letter shall be construed as to affect the Aboriginal or Treaty rights and hence shall not limit any consultation and accommodation owed to MNCFN by the Crown or any proponent, as recognized by section 35 of the Constitution Act, 1982, of any other First Nation.

MNCFN reserves the right in relation to any development project or decision, to decide whether it supports a project and to: comment to regulators, participate in regulatory processes and hearings, seek intervener funding or status, or to challenge and seek remedies through the courts.

MNCFN expects all proponents to act according to the following best practices:

- Engage early in the planning process, before decisions are made
- Provide information in meaningful and understandable formats.
- Convey willingness to transparently describe the project and consider any MNCFN concerns.
- Recognize the significance of cultural activities and traditional practices of the MNCFN
- Demonstrate a respect for MNCFN knowledge and uses of land and resources.
- Understand the importance of youth and elders in First Nation communities.
- Act with honour, openness, transparency and respect.
- Be prepared to listen and allow time for meaningful discussion.

Sincerely,

Fawn D. Sault
Consultation Manager
MNCFN Department of Consultation and Accommodation

cc – Mark LaForme; Director, Department of Consultation and Accommodation



April 20, 2016

Fawn D. Sault
Consultation Manager
Department of Consultation and Accommodation
Mississauga of the New Credit First Nation
2789 Mississauga Road, RR#6
Hagersville, Ontario N0A 1H0

Re: City of Waterloo Water Distribution Master Plan Class Environmental Assessment (EA)

Dear Fawn,

We would like to thank you for your interest in this Master Plan study, and for providing your response to the Notice of Commencement. We will continue to keep The Mississaugas of the New Credit First Nation (MNCFN) informed throughout the EA and master planning process and will provide you with updated information as it becomes available.

At this time, we do not anticipate any environmental and/or archaeological field work will be completed as part the study process. However, should this change, we will notify you as soon as possible to arrange for MNCFN's participation and will provide you with copies of any associated environmental and/or archaeological reports.

For your reference, all documentation regarding the Water Distribution Master Plan (WDMP), including display materials from Public Information Centres (PICs), will be made available on the City's website: <http://www.waterloo.ca/en/government/watermasterplan.asp>.

Should you have any questions or require additional information regarding this study, please contact Mr. Milos Posavljak, City of Waterloo Project Manager at 519-886-2310 ext. 30303 (via email at milos.posavljak@waterloo.ca) or Mr. Julien Bell, GM BluePlan Project Manager at 519-824-8150 (via email at julien.bell@gmblueplan.ca).

Yours truly,



Milos Posavljak M.Sc., P.Eng.
Project Manager, City of Waterloo



Julien Bell, P.Eng.
Project Manager, GM BluePlan

PIC No. 1

PIC No. 1 Display Boards

Public Information Centre #1 / Open House for:

- **Infrastructure Asset Management Plan**
- **Water Distribution Master Plan Class Environmental Assessment Study**
- **Water and Sanitary Sewer Rate Design**



Thursday, February 25, 2016 - 6:00 p.m. to 8:00 p.m.
Waterloo Memorial Recreation Complex, Hauser Haus
101 Father David Bauer Dr, Waterloo, ON

What are we talking about tonight?

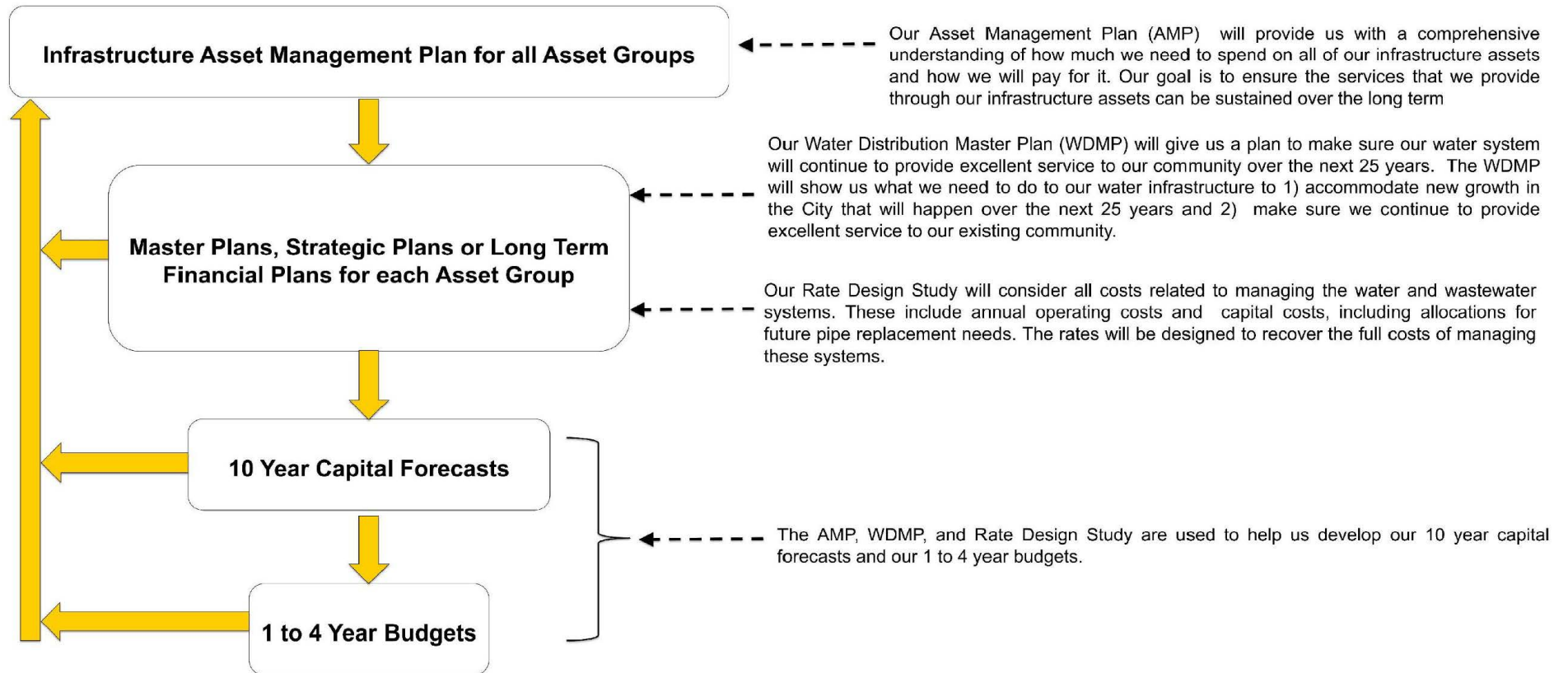
We are talking about three things tonight:

1. Our Infrastructure Asset Management Plan
How we are enhancing our understanding of how much we need to spend on our infrastructure assets.
2. Our Water and Sewer Rate Design Study
How we pay for our water and wastewater systems.
3. Our Water Distribution Master Plan
How we are making sure that our water system will continue to provide excellent service to our community over the next 25 years.

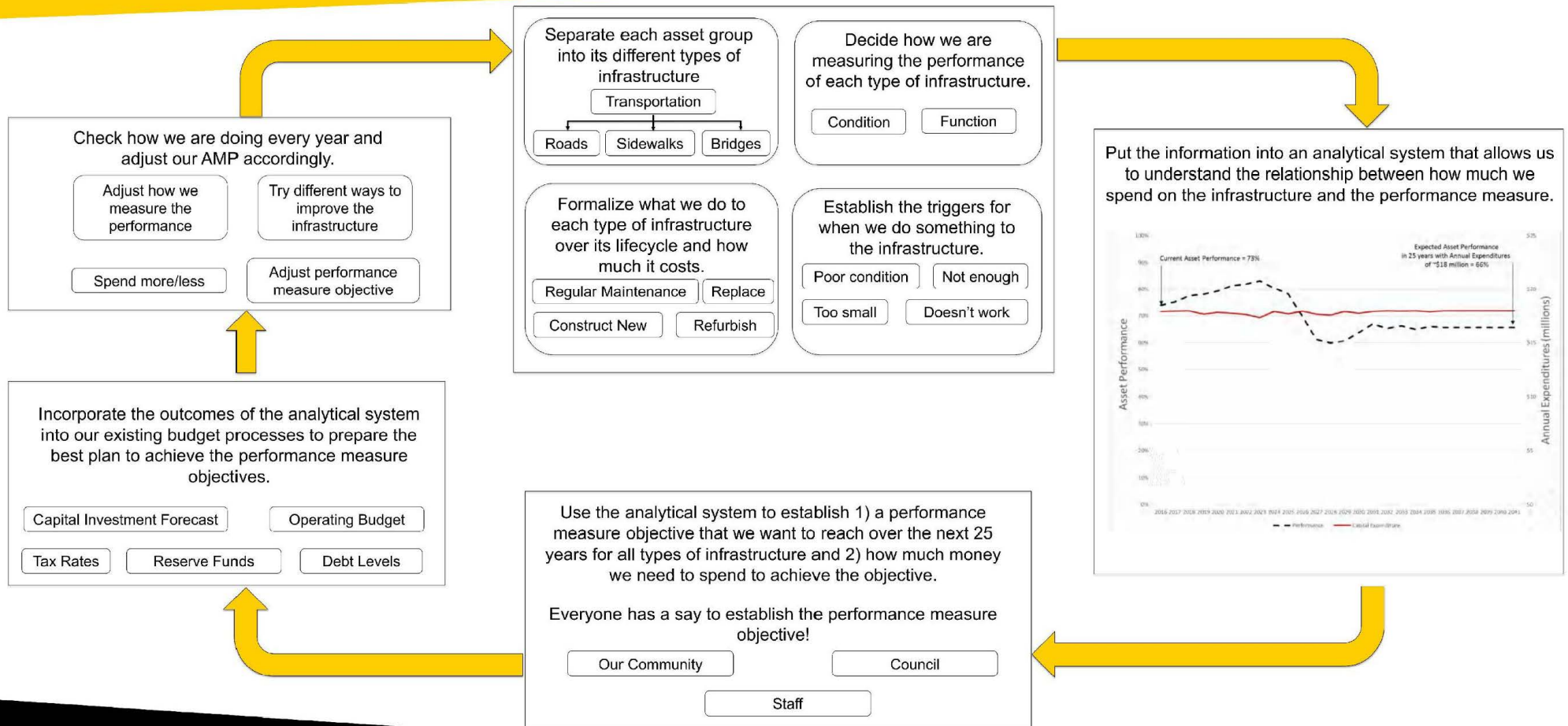
What are our water and wastewater systems?

- The City and the Region are responsible for delivering water and wastewater services to our community.
- The Region is primarily responsible for the supply and treatment infrastructure to provide these water and wastewater services.
- The City is responsible for delivering water to your tap through a network of pipes, which we call our **water distribution system**.
- The City is also responsible for transporting wastewater from your homes through a network of sewers to the Regional facilities where it is treated and put back into our environment. We call this our **sanitary sewer collection system**.

How do we use our AMP, WDMP and Rate Design Study?



How are we Developing our AMP?



Where are we now?

What infrastructure assets are included in our AMP?

- Transportation
- Sanitary Sewer Collection
- Water Distribution
- Storm Sewer Collection
- Stormwater Management
- Facilities
- Parks
- Forestry
- Parking
- Fleet
- Fire Services
- Furniture and Fixtures
- Information Technology
- Lands

What have we done?

Assembled all of the puzzle pieces that we need to start developing the analytical system. The table below shows how we are planning to measure performance of some key asset groups.



What are we doing now?

Working on the analytical system.



What's next?

- | | |
|---------------|--|
| Spring | Use the analytical system to help establish the performance measure objectives for each type of infrastructure. |
| Summer | Prepare an Infrastructure Asset Management Analysis Report with suggested scenarios to incorporate into the AMP. |
| Fall | Submit an AMP to Council for consideration. |

Infrastructure Type	Condition Performance Measure	Functional Performance Measure
Roads	Percentage of trips taken on good, fair and poor quality roads	Percentage of completed projects that are required to make sure traffic congestion levels are acceptable
Facilities	Percentage of facility systems in poor condition	Number of facilities constructed/refurbished that are required to meet the needs of community
Sanitary Sewers	Percentage of customers with an increased likelihood of experience a service disruption caused by a sewer collapse	Percentage of customers with an increased likelihood of experience a service disruption caused by a flooded sewer during a rain event
Parks	Percentage of playgrounds in good, fair and poor condition	Number of parks that require additional amenities to meet the needs of the community

Why are we Doing the WDMP?

- ❖ The Region has developed an Infrastructure Management Plan to Address the Region's Long Term Water Supply, Treatment, and Transmission Needs.
- ❖ An Evidence-Based Water System Infrastructure Management Plan is Needed to Ensure the Long-term and Sustainability of the City's Water System.
- ❖ The WDMP will Provide the Business Case for the Needs, Triggers, and Cost of Servicing To Address Existing Priorities and Accommodate Growth.
- ❖ The WDMP Will Provide the City with a Detailed Water Capital Program vetted through the Comprehensive Municipal Engineers Association (MEA) Class Environmental Assessment Process for Master Plans – Approach #1.



WDMP - Vision Statement

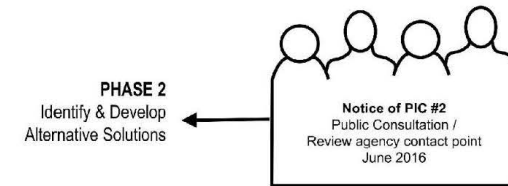
We use a Vision Statement to guide how we think as we develop the WDMP:

“To establish a master plan to achieve a cost effective water distribution system that:

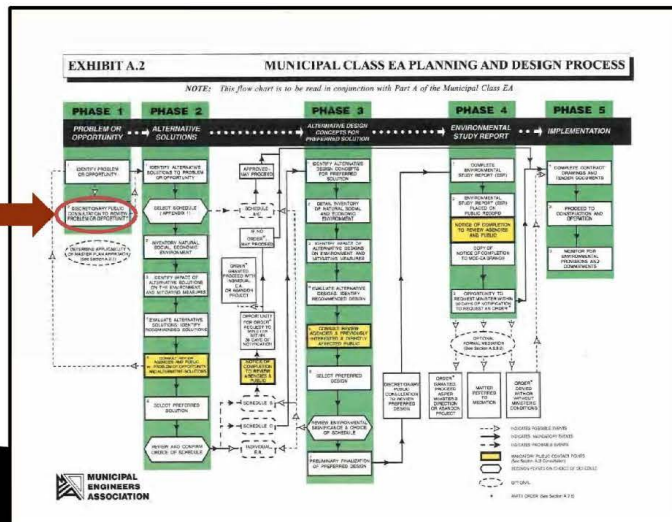
- meets the needs of existing users, regulatory and legislative requirements;
- supports growth;
- considers system resiliency; and,
- optimizes the system performance objectives with the long term renewal needs of the system.”

The Class EA Process

- The study follows the Master Plan process as outlined in Section A.2.7 of the Municipal Engineers Association (MEA) Municipal Class Environmental Assessment (Oct 2000, as amended in 2007 and 2011).
- The Master Plan will be filed under based on Approach 1 of the MEA Class Approach for Master Planning, which involves a broad level of assessment, satisfying Phases 1 & 2 of the Class EA process.
- The WDMP will meet the planning requirements for Schedule A and A+ projects and provide the basis for future investigations of identified Schedule B and C projects.



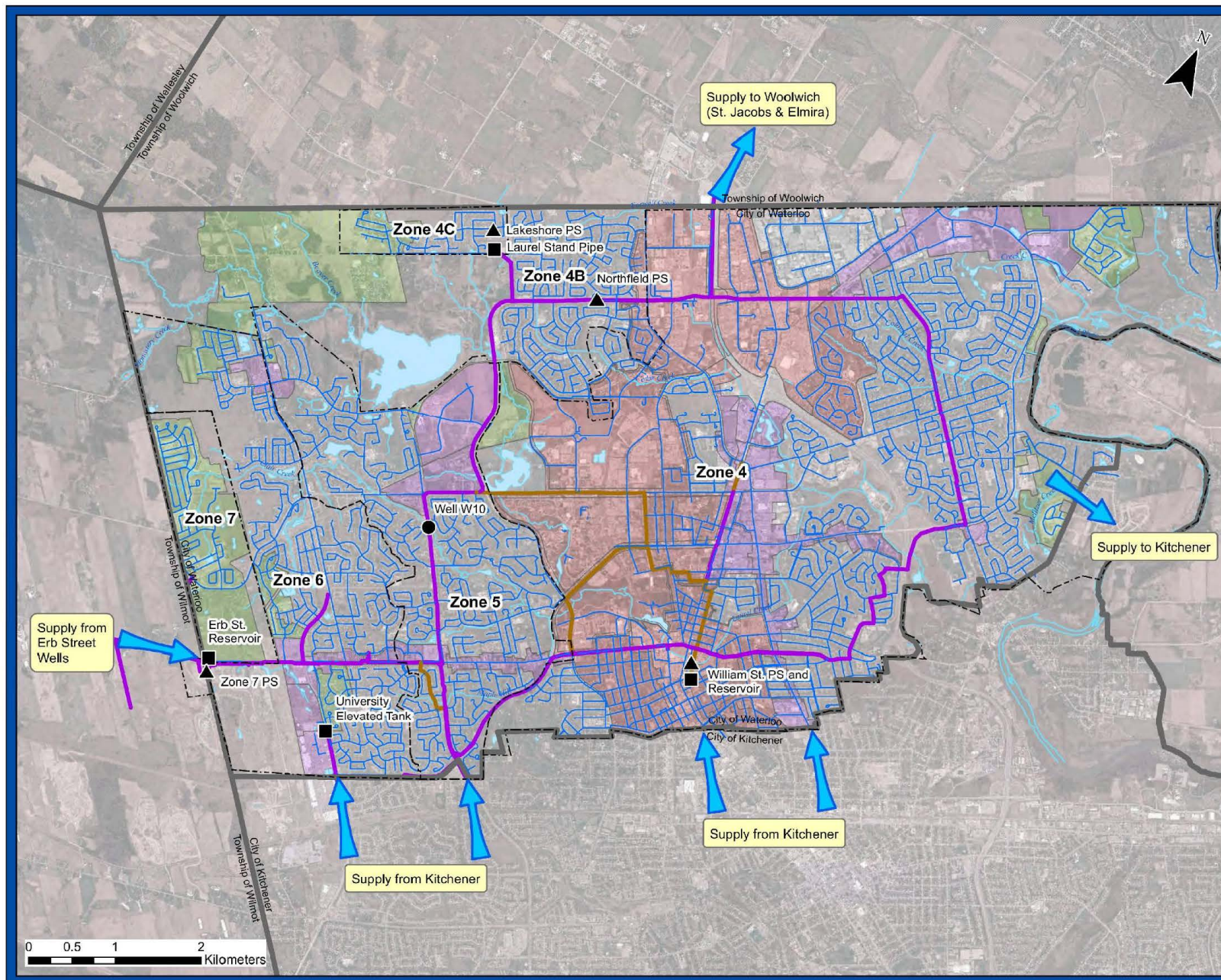
We are here (PIC #1)



PHASE 3
Evaluate & Select Preferred Solution

PHASE 4
Optimize WDMP and IAMA programs & File Class EA for Public Review





Water System Overview

Regional Facilities

-  Pumping Station
-  Storage
-  Well

Watermain Ownership

-  City of Waterloo
-  Region of Waterloo
-  Dual Ownership

Growth Areas

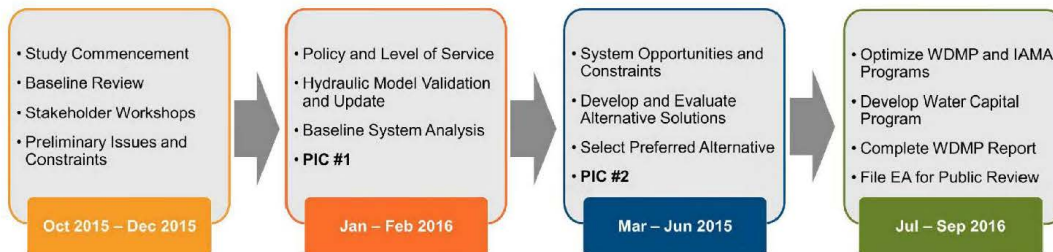
-  LRT Corridor
-  Official Plan Corridor
-  Designated Greenfield Area
-  Municipal Boundary
-  Pressure Zone Boundary
-  River, Lake

What's Next

Following this PIC, the project team will:

- Look at your input
- Identify and evaluate system opportunities and constraints
- Develop and evaluate alternative solutions
- Select preferred alternative
- Prepare for PIC No. 2 (June 2016)

Project Timeline



Thank You for Attending

If you have any questions or input, please speak with one of the project team members here, and/or you may contact the City of Waterloo Project Manager:

Milos Posavljak M.Sc., P.Eng.
Project Manager, Asset Management
City of Waterloo
265 Lexington Crt
Waterloo ON N2J 4A8
Tel: 519-886-2310, ext. 30303
Email: Milos.Posavljak@waterloo.ca

Please note that information related to this study will be collected in accordance with the Freedom of Information and Protection of Privacy Act. All comments received will become part of the public record and may be included in the study documentation prepared for public review.

Thank you for your interest in this study.

We want your input!

What do you think about what you have seen tonight? Write it down on the comment sheet, email us at one of the addresses listed on the comment sheet, or just talk to us about what's on your mind.

AMP

- What type of infrastructure should be highest on our priority list for improving?

Rate Design Study

- What is important for us to consider in designing the water and sewer rate structure and setting the rates?

WDMP

- What do you think about the water service you receive?
- What is important for us to think about as we develop the WDMP?

PIC No. 1 Sign In Sheet

SIGN-IN SHEET

Name (Organization if applicable)	Street Address	City	Phone No.	Email
Glen Black	396 Mossom	Waterloo	519 888-7321	glenblack@bell.net
G. SCHMERSTADT	246 WILFELD AV	WATERLOO	519-725-2704	_____
M. DYKSTRA	COF W.			
PAAMI TAKK	SANDBHUKS CR.	WATERLOO		
Walter Fedy Bron Jones	674 Queens Street, Kitchener, ON	Kitchener	(226) 868-0854	bjones@walterfedy.com
Leonard + Lois Schmidt	Norriton Dr Waterloo			
DAVE HICKNELL		WATERLOO		
AL HAYOS	276 LOUROOS	WATERLOO		ALHAYOS@WALTERFEDY.COM?
PAUL GRIVICK	191 KING ST S UNIT #1012	WATERLOO	519-589-4220	paulgrivick2002@yahoo.com
Barbara Robinson	243 Glasgow St.	Kitchener	744 8879	—

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

PIC No. 1 Comments and Responses



- Infrastructure Asset Management Plan (AMP)
- Water Distribution Master Plan (WDMP) Class EA Study
- Water and Sanitary Sewer Rate Design

Public Information Centre #1 / Open House
February 25, 2016
Comment Sheet

Contact Information:

Name: Glen Black Organization: _____

Street Address: 396 Mossom Pl City: Waterloo Province: _____

Postal Code: N2K 2G8 Phone: 519 888 7321 E-mail: glenblack@kell.net

Would you like to be added to the study mailing list?

AMP ☐ Yes ☒ No **WDMP** ☐ Yes ☒ No **Rate Study** ☐ Yes ☒ No

Comments:

Please provide your comments on any of the above projects or on the content presented today.

- In general, the more communication and varieties of communication, the better, even if some falls on deaf ears.
- Of course, citizens take water and municipal assets for granted. But, no surprises, please. And, transparent, please.
- Personally, I am willing to pay a little more for less future risk.
- "Good job" to staff and council, on behalf of all citizens.

Please place your comment sheet in the drop box provided, or return by mail by March 25th, 2016 to:

Milos Posavljak M.Sc., P.Eng.
Project Manager, Asset Management
City of Waterloo
265 Lexington Court
Waterloo ON N2J 4A8
Tel: 519-886-2310, ext. 30303
Email: Milos.Posavljak@waterloo.ca

Brad Witzel
Project Manager (Rate Design Study)

Julien Bell, P.Eng.
Project Manager (WDMP)
GM BluePlan
650 Woodlawn Road West, Block C, Unit 2
Guelph, ON N1K 1B8
Tel: 519-824-8150
Email: Julien.Bell@gmblueplan.ca

Nick Larson, P.Eng.
Project Manager (IAMP)

PIC No. 2

Notice of PIC No. 2



Public Notice
Water Distribution Master Plan
Class Environmental Assessment
Public Information Centre No. 2

Overview

The City of Waterloo and the Region of Waterloo work together to provide water to businesses and homes. Under this two-tier approach, the City is responsible for water distribution to local business and homes while the Region supplies, treats, and delivers water to the City's system. In 2015, the Region of Waterloo completed a master planning process to identify the long-term activities and infrastructure needed to ensure long-term sustainable supply, treatment and delivery of water to Waterloo's water system. The City's water distribution master plan expands on the work completed by the Region by focusing on the city-owned and managed local water distribution system.

Upcoming Public Information Centre (PIC) to Highlight Recommendations

Last February, the City hosted the Water Distribution Master Plan's first PIC which identified the City's Vision for its water distribution system. Since that time, City staff and its consultant partner (GM BluePlan) have developed several recommendations to ensure the City's water distribution needs support population growth while addressing the long-term renewal needs of the system. The City is pleased to invite residents to the second PIC to provide input on those recommendations.

Public Information Centre No. 2

Date and Time: November 15, 2016, 2:00 to 4:00 p.m.

Location: Waterloo Memorial Recreation Complex, Room 10, 101 Father David Bauer Drive

Study Process

The Water Distribution Master Plan is being undertaken in accordance with the planning requirements for Schedule 'B' projects under the Municipal Class Environmental Assessment (EA) process for master planning (October 2000, as amended in 2007 and 2011).

This notice is also available on the City's website at: waterloo.ca/watermasterplan where future project updates will also be posted. If you have any questions about the Water Distribution Master Plan or would like more information, please contact:

Milos Posavljak M.Sc., P.Eng. Project Manager, Asset Management City of Waterloo 265 Lexington Court Waterloo ON N2J 4A8 Tel: 519-886-2310, ext. 30303 Email: Milos.Posavljak@waterloo.ca	Julien Bell, P.Eng. Project Manager GM BluePlan 650 Woodlawn Road West, Block C, Unit 2 Guelph, ON N1K 1B8 Tel: 519-824-8150 Email: Julien.Bell@gmblueplan.ca
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With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

PIC No. 2 Display Boards

The Waterloo Water Distribution Master Plan

Welcome!!

City of Waterloo Water Distribution Master Plan

Public Information Centre No. 2

November 15, 2016



The Waterloo Water Distribution Master Plan (WDMP) - Overview

- In 2015, the Region of Waterloo completed a Water Supply and Distribution Operations Master Plan to identify the infrastructure needed to ensure long-term supply, treatment and delivery of water.
- The City's Water Distribution Master Plan builds on the work completed by the Region, focusing on the city-owned and managed local water distribution system.
- The Water Distribution Master Plan provides the business case for the needs, triggers and cost of servicing existing neighbourhoods while also addressing future growth.

This Water Distribution Master Plan will satisfy the requirements of the Class Environmental Assessment (EA) process and provide the context for the implementation of specific projects within the plan



Study's Vision Statement

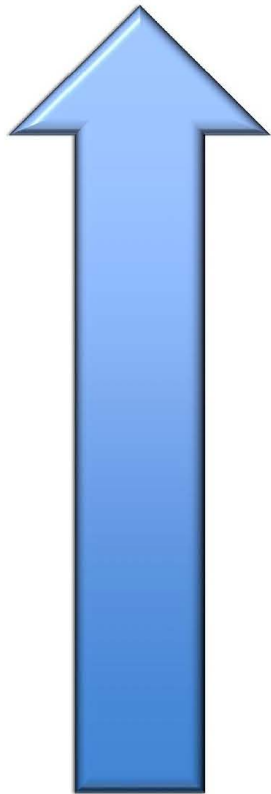
The Vision Statement guides how Waterloo will plan its water distribution system between now and 2031

"To establish a master plan to achieve a cost effective water distribution system that:

- meets the needs of existing users, regulatory and legislative requirements;
- supports growth;
- considers system resiliency; and,
- optimizes the system performance objectives with the long term renewal needs of the system."



Waterloo's Growth Requires the Need to Examine Future Distribution Services

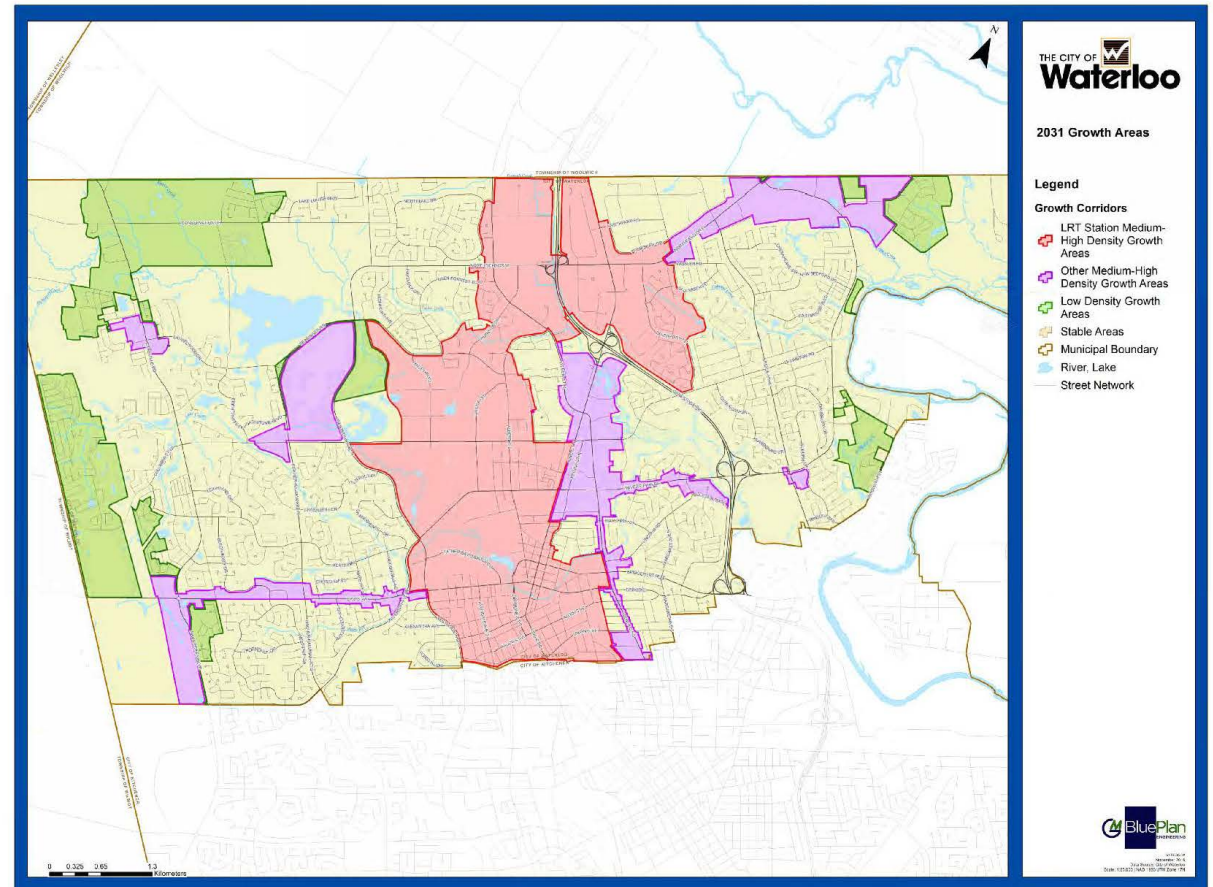


2031 Population
+ 37,000 residents

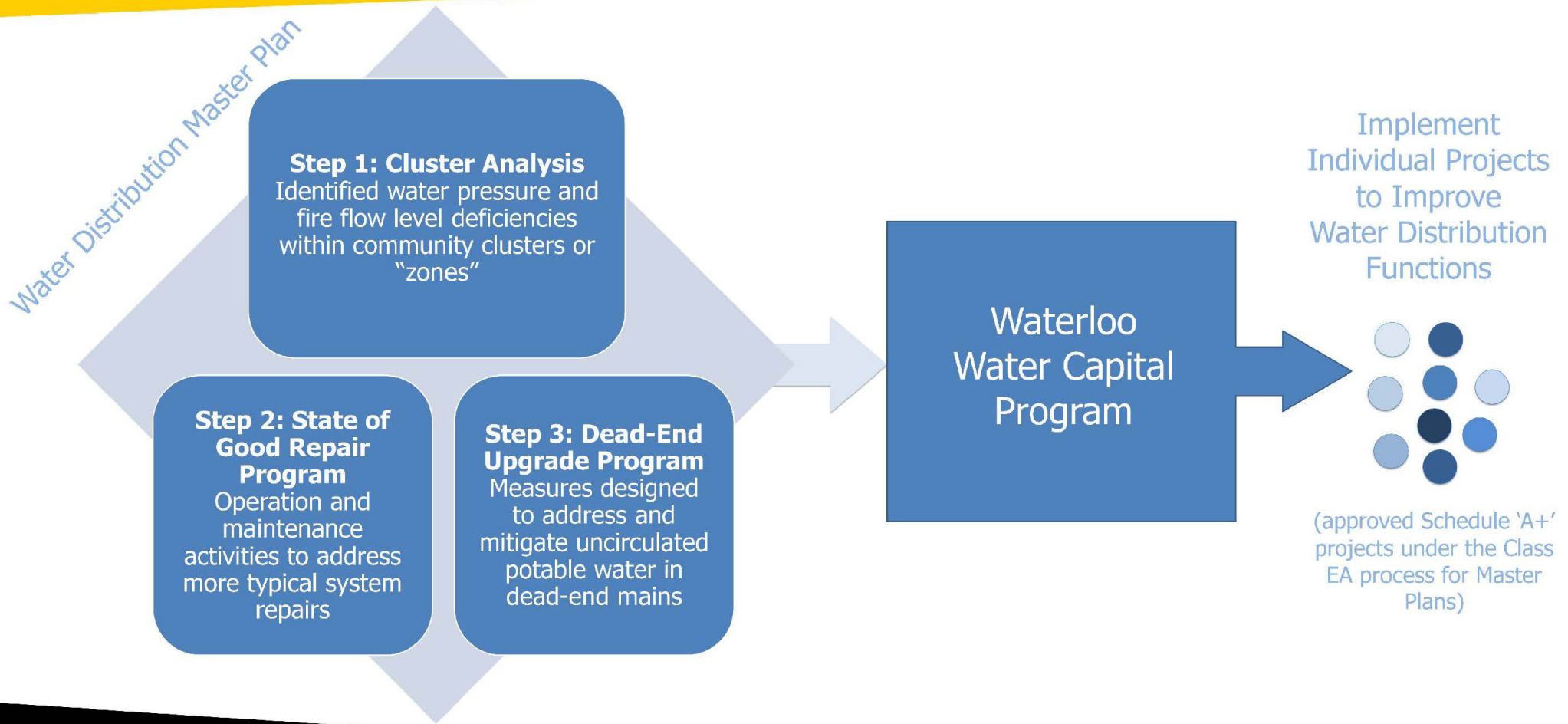
2031 Student Population
+ 4,200 students

2031 Employment
+ 25,500 jobs

**Growth projections based on Regional Ontario Places to Grow targets as provided by the Region of Waterloo

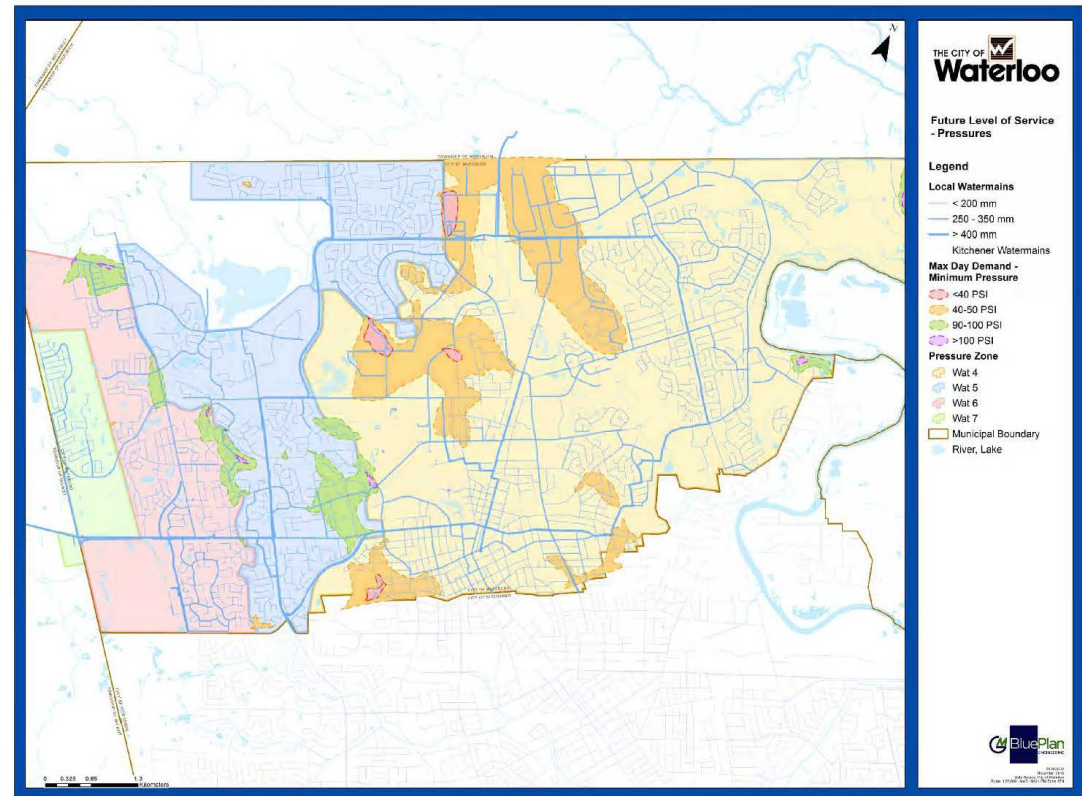


The Water Distribution Master Planning Process



Cluster Analysis Addresses High / Low Water Pressure Levels

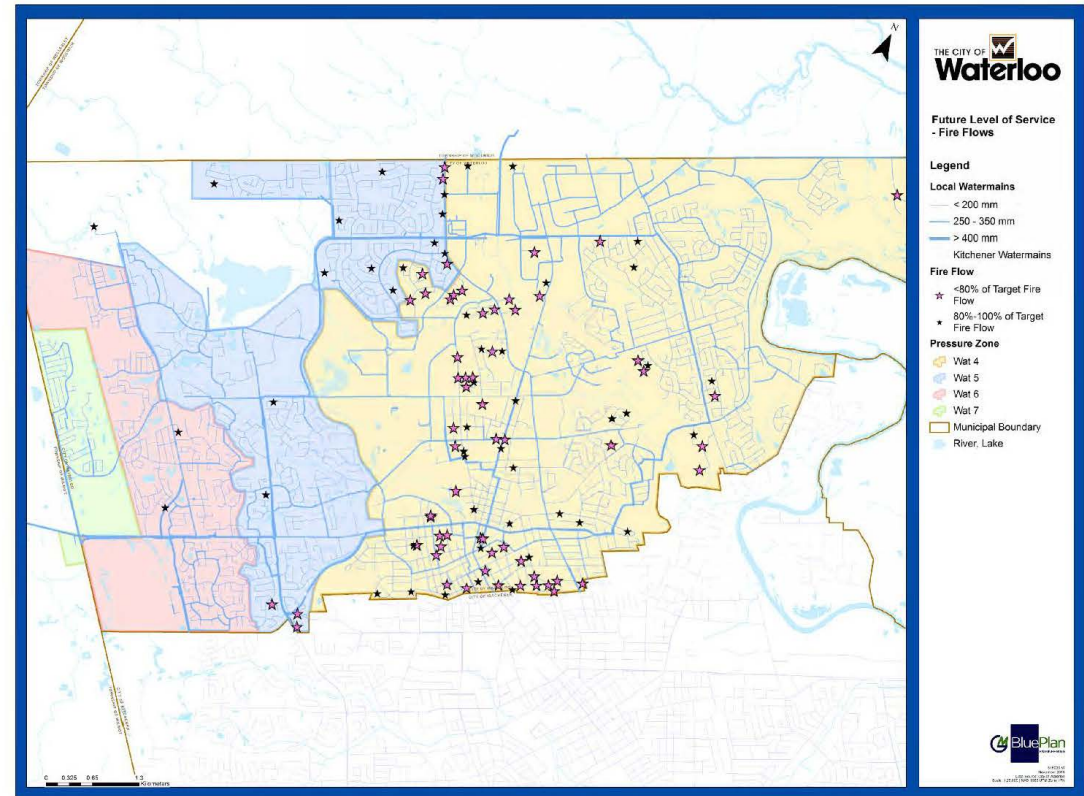
- The majority of Waterloo residences receive water pressures within the desired range (50-90 psi), although some areas experience significantly high or low pressures (>100 psi or <40 psi).
- High water pressure may cause faucets leaks, running toilets, wasted water and higher costs.
- Low water pressure results in lower water flows (shower, toilet, etc.).



This Master Plan has identified areas of high and low water pressure, and selected the most feasible way(s) to address these deficiencies

Cluster Analysis Addresses Fire Flow Levels

- Fire flow refers to the optimal amount of water needed to fight a fire.
- “Low” fire flow generally refers to areas where less than 80% of the optimal fire flow cannot be met without negatively impacting the system.
- In “low” fire flow areas, Fire Protection Services use special measures to compensate for reduced flow and not impact the system.



This Master Plan has identified areas where low fire flow may be experienced, and selected the most feasible way(s) to improve overall flows

Fire Flow vs. Water Quality: Balancing Waterloo's Future Water Demands

- In most water distribution systems, increasing fire flow may result in decreased water quality.
- Waterloo's fire flow targets, developed in conjunction with the Water Services and Fire Rescue Divisions, identify "sufficient" flows by land use.
- Fire flow targets were developed to ensure balanced water demands (fire flow vs. water quality) while also recognizing the need to be economically resourceful.

Waterloo's Fire Flow Targets for Different Land Uses

Land Use	Fire Flow Target (litres per second)
Residential – Dead End	50 L/s
Single Family	75 L/s
Townhouse	125 L/s
Multi-Family	150 L/s
Institutional	175 L/s
Commercial	175 L/s
Industrial	250 L/s
City Centre	225 L/s
University	300 L/s

Balancing Waterloo's Water Distribution Needs



Evaluation and Identification of Recommended Solutions

- The Master Plan evaluated several options to address the water distribution deficiencies, per “cluster” area.
- The options were evaluated based on five key factors: technical, environmental, social / cultural, financial and legal / jurisdictional.
- Options were evaluated using the **Reasoned Argument Approach**, which highlighted the reasons why one option is technically the best.

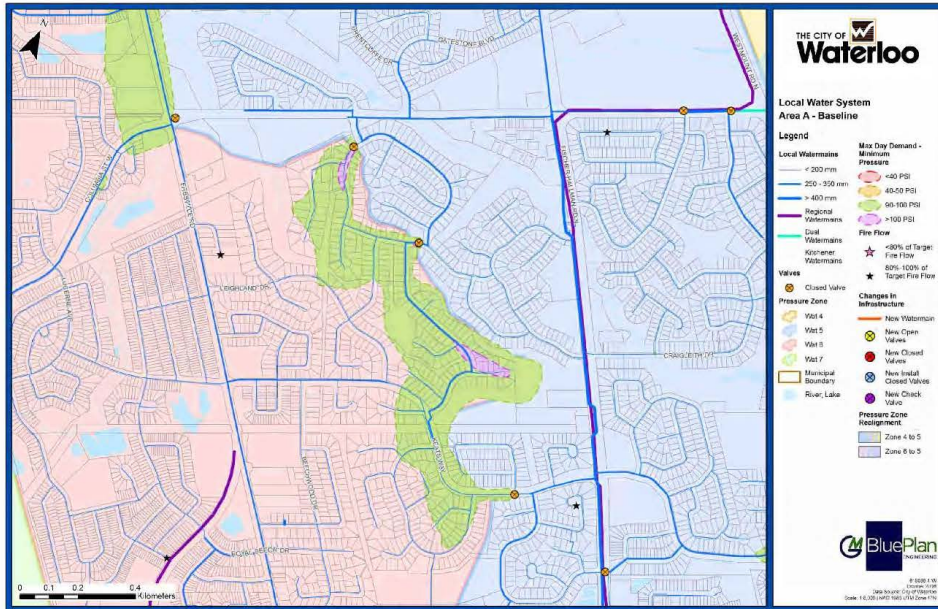
Evaluation Criteria used to Evaluate the Water Distribution Options

Factor	Criteria
Technical	Meets Capacity for Future Growth
	Technical Viability
	Meets Water Quality Objectives
	Meets Pressure Objectives
	Meets Fire Flow Objectives
	Operations and Maintenance
	Impact to System Criticality
Environmental	Environmentally Sensitive Features Impacts
	Water Features and Resources Impacts
	Species at Risk Impacts
	Soil (Contamination)
	Geology and Hydrogeology Considerations

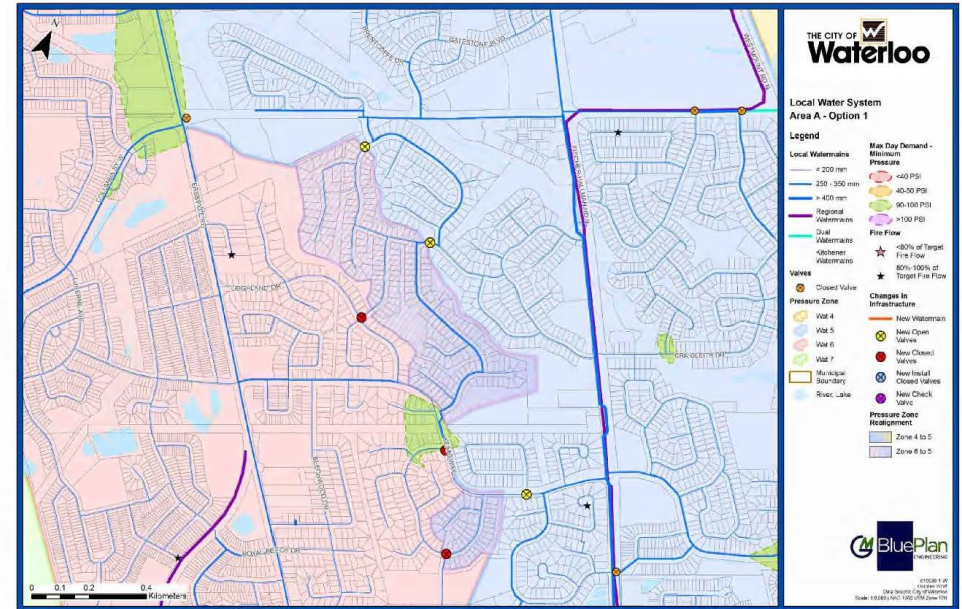
Factor	Criteria
Social / Cultural	Property Impacts
	Traffic and Transportation Impacts
	Construction Impacts (noise, vibration, dust)
Financial	Capital / Construction Costs
	Operations and Maintenance Costs
	Life Cycle Costs
Legal / Jurisdictional	Cost per Improvement
	Land Use Requirements and Impacts
	Integration with other Local/Regional Plans
	Coordination with other Jurisdictions

Evaluation and Identification of Recommended Solutions – Cluster Area A

Current State



Future State



Cluster Area A (Keats Way)

Key Deficiency: High water pressures primarily in central portions of the area

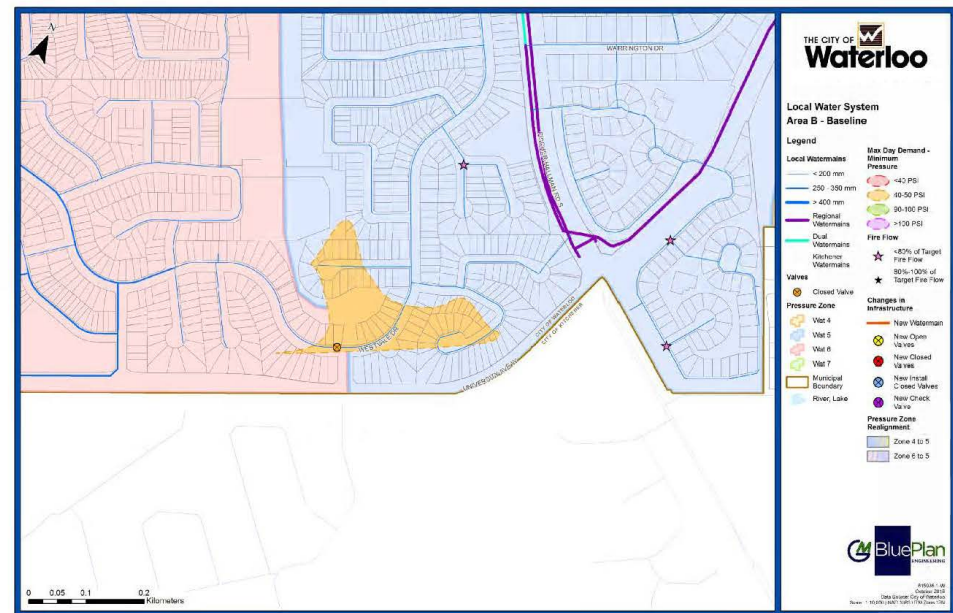
Recommendation: Providing boundary valves to reduce water pressures

Evaluation and Identification of Recommended Solutions – Cluster Area B

Cluster Area B (Westvale Drive)

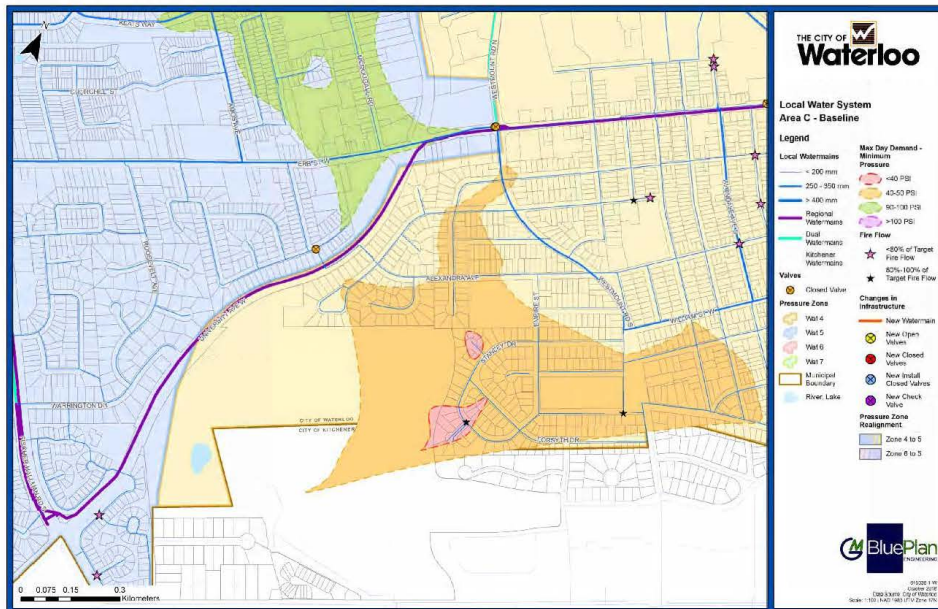
Key deficiency: Marginally low pressures near Westvale Drive

Recommendation: Maintain the status quo as deficiencies are minor in nature; the costs associated with providing new valves or “looping” (by constructing an additional watermain from the dead end to another watermain) do not justify the minor pressure improvements

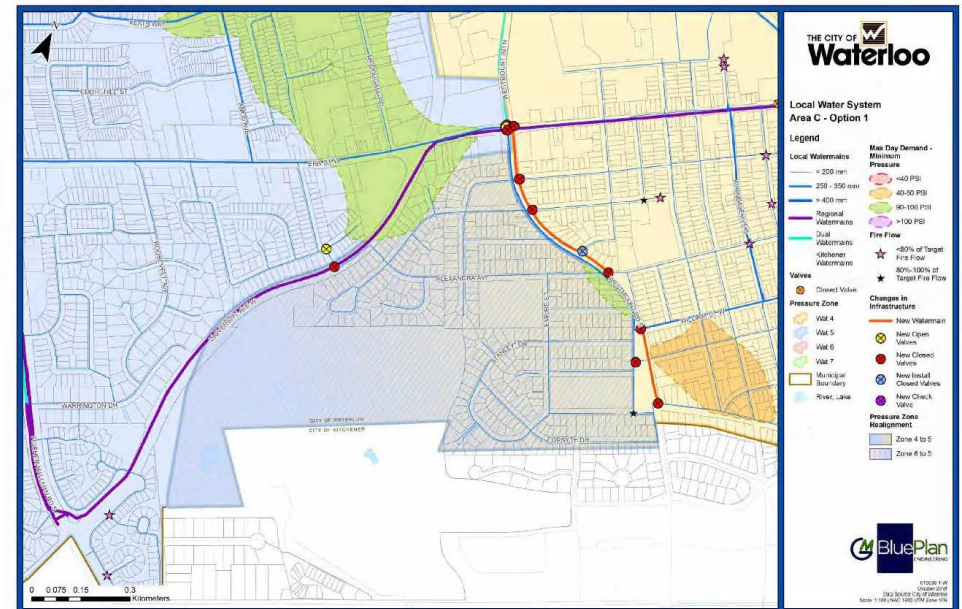


Evaluation and Identification of Recommended Solutions – Cluster Area C

Current State



Future State



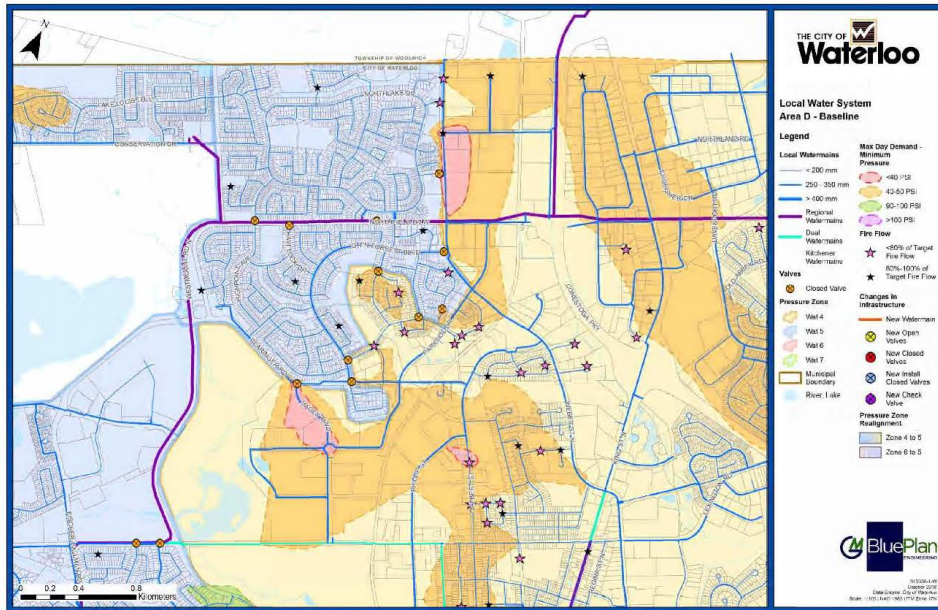
Cluster Area C (Westmount Road)

Key Deficiency: Low water pressures primarily west of Westmount Road South

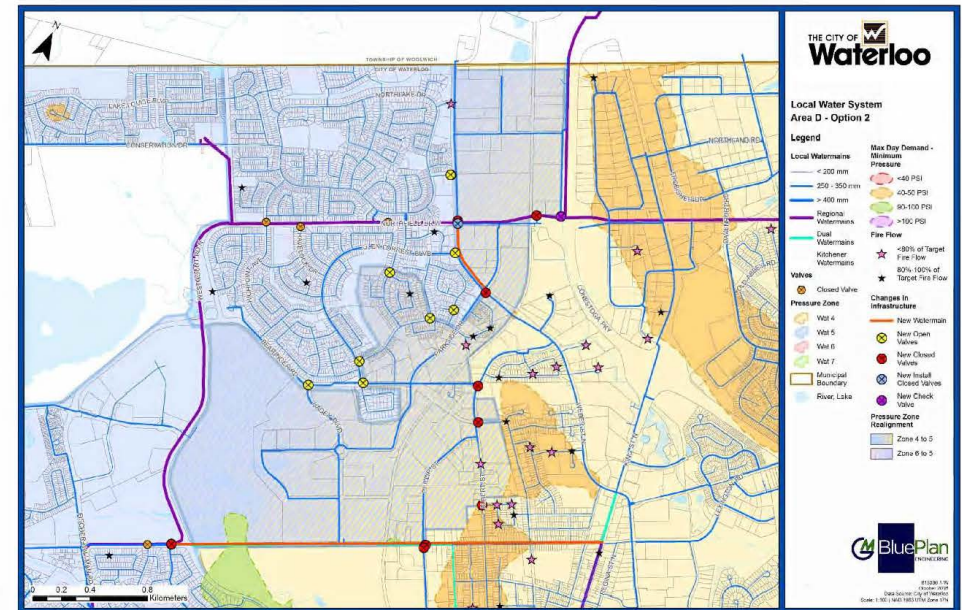
Recommendation: Providing watermains and valves to increase water pressures

Evaluation and Identification of Recommended Solutions – Cluster Area D

Current State



Future State



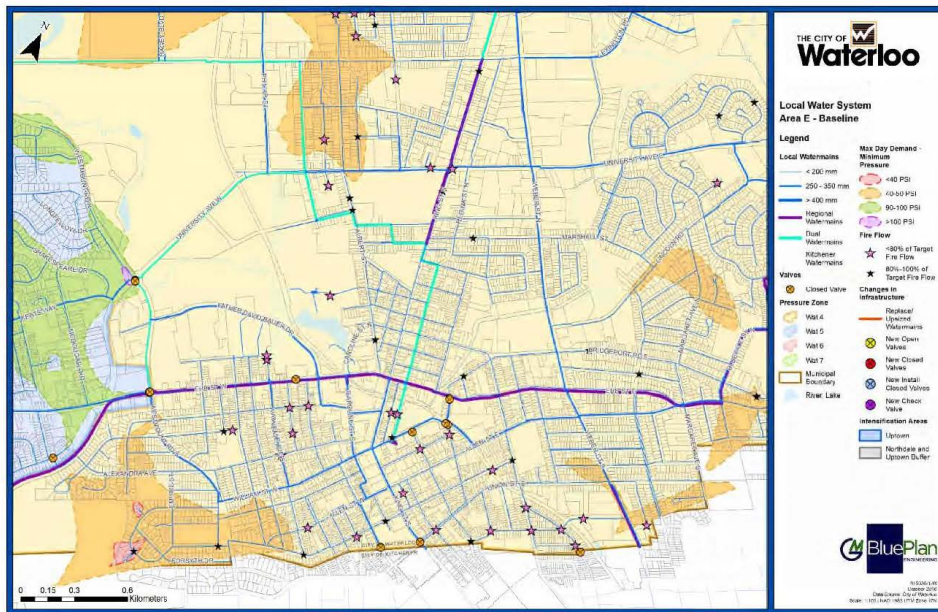
Cluster Area D (Parkside Drive)

Key Deficiency: Low water pressures east of Parkside Drive and north of Northfield Drive West

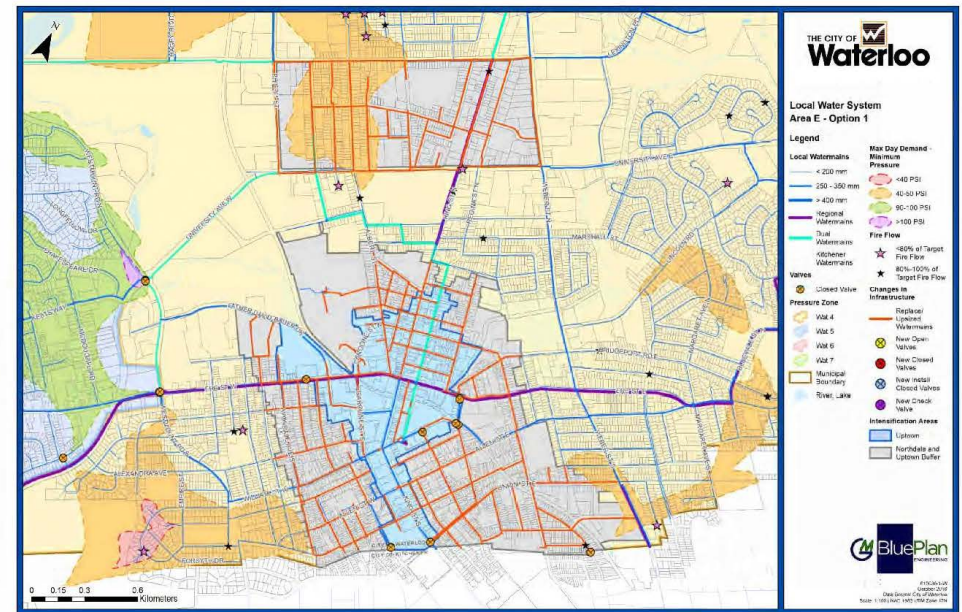
Recommendation: Providing watermains and valves to increase water pressures

Evaluation and Identification of Recommended Solutions – Cluster Area E

Current State



Future State



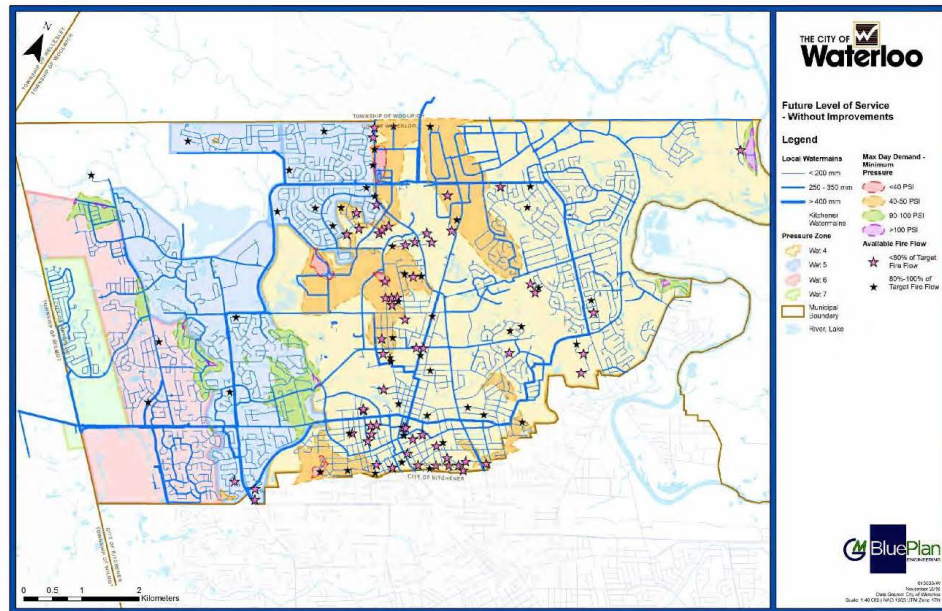
Cluster Area E (Intensification Areas)

Key Deficiency: Low fire flows in intensification areas

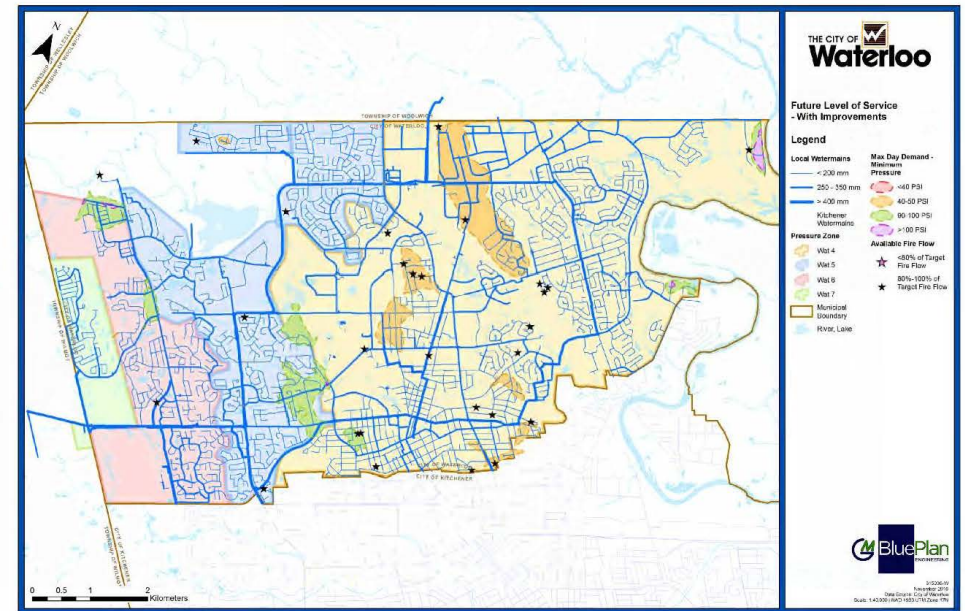
Recommendation: Replace and upsize new watermains as road improvements and construction occurs

Overall System Performance

Waterloo's Future Water Distribution System without Improvements



Waterloo's Future Water Distribution System with Improvements



Next Steps

- Review input from tonight's Public Information Centre; refine and enhance recommendations as needed
- File a Class EA study for public review (winter 2016/17)
- Develop Water Capital Program consisting of final recommendations
- Confirm Class EA "Schedules" for recommended water distribution improvements - as it stands now, all of the recommendations would be pre-approved under a Schedule 'A+', requiring public notification

Thank You for Attending

If you have any questions or input, please speak with one of the project team members here, and/or you may contact the City of Waterloo Project Manager:

Milos Posavljak M.Sc., P.Eng.
Project Manager, Asset Management
City of Waterloo
265 Lexington Court
Waterloo ON N2J 4A8
Tel: 519-886-2310, ext. 30303
Email: Milos.Posavljak@waterloo.ca

Please note that information related to this study will be collected in accordance with the Freedom of Information and Protection of Privacy Act. All comments received will become part of the public record and may be included in the study documentation prepared for public review.

Thank you for your interest in this study.

PIC No. 2 Sign In Sheets

SIGN-IN SHEET

Name (Organization if applicable)	Street Address	City	Phone No.	Email
Dino Masiero CofW	Levington Crt	Waterloo	519-886-3300	dino.masiero@gmail.com
Bill Garibaldi CofW	— " —	— " —	519 886 2310	BillGaribaldi@waterloo.ca
Jess Little	¹⁰⁰ Regina St	Waterloo	519-886-1550	Jess.Little@waterloo.ca
MIKE MICHAEL	100 REGINA ST	WATERLOO	519-886-1550	MIKE.MICHAEL@WATERLOO.CA
Ryan Schubert CofW	Columbia St. W	Waterloo	519 884 2121	ryan.schubert@waterloo.ca
Kevin Dolishny	150 Frederick St	Kitchener	519 575 4757 x3262	kdolishny@regionofwaterloo.ca

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

Notice of Completion



Notice of Study Completion

Water Distribution Master Plan Class Environmental Assessment

The Water Distribution Master Plan Study

The City of Waterloo and the Region of Waterloo work together to provide water to businesses and homes. Under this two-tier approach, the city is responsible for water distribution to local business and homes while the Region is responsible for the supply, treatment, and delivery of water to the City's system. In 2015, the Region of Waterloo completed a master planning process to identify the long-term activities and infrastructure needed to ensure long-term sustainable supply, treatment, and delivery of water to Waterloo's water system. The City's water distribution master plan will build on work completed by the Region and will focus on the City-owned and managed local water distribution system.

The goal of this Master Plan was to achieve a cost effective water distribution system that:

- Meets the needs of existing users, regulatory, and legislative requirements;
- Supports growth;
- Considers system resiliency; and,
- Optimizes the system performance objectives with the long term renewal needs of the system.

The Process

The Water Distribution Master Plan was completed as a Class EA study in accordance with the requirements of the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) process for master planning (MEA, June 2000, as amended in 2007, 2011 and 2015). The Master Plan followed Approach 2 which fulfilled the requirements for Schedule A, A+, and select Schedule B projects. While Approach 2 provides the basis for future investigations for specific Schedule C projects that are typically more complex, none were identified under this Master Plan. The study has defined existing problems and opportunities, considered and evaluated potential strategies and identified technically feasible water distribution servicing solutions.

As part of this Master Plan, the City hosted two Public Information Centres (PICs) on February 25, 2016 and November 15, 2016 to engage residents and stakeholders while complying with the Class EA process.

Completion

The Class EA report for the Water Distribution Master Plan has been prepared to document the planning and decision-making process undertaken for this study. By this notice, the report is being placed on the public record for a 30-day review period (starting April 6th, 2017 and ending May 6th, 2017) in accordance with the requirements of the Municipal Class EA. The Water Distribution Master Plan is available for public review on the City's website (waterloo.ca/watermasterplan) and at the following locations:

Waterloo City Hall 100 Regina Street South Waterloo, ON, N2J 4P9	RIM Park 2001 University Avenue East Waterloo, ON, N2K 4K4	Waterloo Memorial Recreation Complex 101 Father David Bauer Drive Waterloo, ON, N2L 0B4
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Comments

If you have any questions or wish to submit comments, please contact:

Milos Posavljak M.Sc., P.Eng.	Julien Bell, P.Eng.
Project Manager, Asset Management	Project Manager
City of Waterloo	GM BluePlan
265 Lexington Court	650 Woodlawn Road West, Block C, Unit 2
Waterloo ON N2J 4A8	Guelph, ON N1K 1B8
Tel: 519-886-2310, ext. 30303	Tel: 519-824-8150
Email: Milos.Posavljak@waterloo.ca	Email: Julien.Bell@gmblueplan.ca

The city wishes to ensure that anyone with an interest in this study has the opportunity to be involved and to provide input and as such, representatives from the city and its consultants are available to provide further information. If concerns regarding this project cannot be resolved in discussion with the city, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act (referred to as a Part II Order). Requests for a Part II Order must be received by the Minister, at the address below by, May 6th, 2017. A copy of the request must also be sent to the City of Waterloo's project manager.

Director, Environmental Approvals Branch Ministry of the Environment
77 Wellesley Street West, 11 th Floor
Toronto, ON, M74 2T5
Fax: 416-314-8452

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.