

The Corporation of the City of Kawartha Lakes Agenda

Regular Council Meeting

CC2020-03

Thursday, March 19, 2020

Open Session Commencing at 1:00 p.m.

Council Chambers

City Hall

26 Francis Street, Lindsay, Ontario K9V 5R8

Members:

Mayor Andy Letham

Deputy Mayor Patrick O'Reilly

Councillor Ron Ashmore

Councillor Pat Dunn

Councillor Doug Elmslie

Councillor Tracy Richardson

Councillor Kathleen Seymour-Fagan

Councillor Andrew Veale

Councillor Emmett Yeo

Accessible formats and communication supports are available upon request. The City of Kawartha Lakes is committed to accessibility for persons with disabilities. Please contact AgendaItems@kawarthalakes.ca if you have an accessible accommodation request.

1.	Call to Order	
2.	Opening Ceremonies	
2.1	O Canada	
2.2	Moment of Silent Reflection	
2.3	Adoption of Open Session Agenda	
3.	Disclosure of Pecuniary Interest	
4.	Notices and Information by Members of Council and Staff	
4.1	Council	
4.2	Staff	
5.	Council Minutes	23 - 37
	Regular Council Meeting Minutes - February 18, 2020	
6.	Deputations	
7.	Presentations	
8.	Committee of the Whole	
8.1	Correspondence Regarding Committee of the Whole Recommendations	
8.2	Committee of the Whole Minutes	38 - 61
	Committee of the Whole Minutes - March 10, 2020	
8.3	Business Arising from Committee of the Whole Minutes	
8.3.1	CW2020-034	
	That the deputation of Frank Arnold and Anke Arnold, regarding relief from By-law 2018-039, being a By-law to Regulate Water and Wastewater Services, for 13 Sturgeon Rd. N., Omemee, be received.	

8.3.2 CW2020-035

That staff be directed to review the application of the flat rate charge versus the metered charge for sanitary sewer service, and how those fees are applied to single family dwellings and multi-unit properties, under By-law 2018-039, being a By-law to Regulate Water and Wastewater Services in the City of Kawartha Lakes; and

That staff report back to the Committee of the Whole by the end of Q2, 2020 with the outcome of that review.

8.3.3 CW2020-036

That the deputation of Peter Howarth, **regarding sewer rate relief request**, be received.

8.3.4 CW2020-037

That staff apply a one time sewer rate relief credit of \$100.00 the water account held by Peter Howarth.

8.3.5 CW2020-038

That the deputation of James R. Webster and Larry Phillips, **regarding assistance to resolve an issue on title to 1899 Pigeon Lake Road**, be received.

8.3.6 CW2020-039

That the request from James R. Webster and Larry Phillips, **for assistance to resolve an issue on title to 1899 Pigeon Lake Road**, be referred to staff for review and report back at the April 7, 2020 Committee of the Whole Meeting.

8.3.7 CW2020-040

That the presentation by Dave Gordon, Senior Advisor, Waste Division, Association of Municipalities of Ontario, **regarding the transition of the blue box program to full producer responsibility**, be received and referred to staff for a report back in Q2 of 2020.

8.3.8 CW2020-041

That the presentation by Sara Johnston, Deputy Chief, Quality Assurance, and Julie Milne, Community Paramedic, **regarding the Community Paramedicine Pilot Project**, be received.

- 8.3.9 CW2020-042
- That** staff report back at the March 24, 2020 Regular Council Meeting to outline any funding sources that are available to extend the Community Paramedicine Pilot Project for a further three month time period.
- 8.3.10 CW2020-043
- That** the presentation by Brenda Stonehouse, Strategy and Innovation Specialist, **regarding the Strategic Plan 2016-2019 final report video presentation**, be received.
- 8.3.11 CW2020-044
- That** Report CAO2020-003, **2016-2019 Strategic Plan Final Progress Report**, be received.
- 8.3.12 CW2020-045
- That** the presentation by Barbara Condie, Accessibility Officer, **regarding 2019 Municipal Accessibility Master Plan Progress Report**, be received.
- 8.3.13 CW2020-046
- That** Report CLK2020-003, **2019 Municipal Accessibility Master Plan Progress Report**, be received.
- 8.3.14 CW2020-047
- That** Report CLK2020-004, **Kawartha Lakes AAC 2019 Annual Activities Report and Proposed 2020 Work Plan**, be received.
- 8.3.15 CW2020-048
- That** Report CEM2020-002, **Kawartha Lakes Cemetery Board Annual Report and 2020 Work Plan**, be received.
- 8.3.16 CW2020-049
- That** Report PRC 2020-001, **Parks Advisory Committee Annual Report and 2020 Work Plan**, be received.
- 8.3.17 CW2020-050
- That** Report PRC 2020-004, **Fenelon Falls Museum Board Annual Report and 2020 Work Plan**, be received.

8.3.18 CW2020-051

That Report PLAN2020-008, Environmental Advisory Committee (CKLEAC) 2020 Workplan, be received; and

That the 2020 proposed Environmental Advisory Committee Work Plan as outlined in Appendix B to Report PLAN2020-008 be approved.

8.3.19 CW2020-052

That Report ED2020-006, Municipal Heritage Committee Work Plan, be received; and

That the 2020 Municipal Heritage Committee Work Plan as outlined in Appendix B be approved.

8.3.20 CW2020-053

That Report ED2020-010, Downtown Revitalization Committee Annual Report and 2020 Workplan, be received.

8.3.21 CW2020-054

That Report ED2020-013, Agricultural Development Advisory Committee 2020 Work Plan, be received; and

That the Agricultural Development Advisory Committee 2020 Work Plan as outlined in Appendix B to Report ED2020-013 be approved.

8.3.22 CW2020-055

That Report WM2020-004, Fenelon Landfill Public Review Committee 2019 Work Summary and 2020 Work Plan, be received; and

That the 2020 Fenelon Landfill Public Review Committee Work Plan, as outlined in Appendix “A” to Report WM2020-004, be approved.

8.3.23 CW2020-056

That Report WM2020-005, Lindsay Ops Landfill Public Review Committee 2019 Work Summary and 2020 Work Plan, be received; and

That the 2020 Lindsay Ops Public Review Committee Work Plan attached to this report as Appendix A be approved by Council.

8.3.24 CW2020-057

That Report WM2020-006, Waste Management Advisory Committee 2019 Work Summary and 2020 Work Plan, be received; and

That 2020 Waste Management Advisory Committee Work Plan attached to this report as Appendix A be approved by Council.

8.3.25 CW2020-058

That Report ENG2020-006, Kawartha Lakes Airport Advisory Committee Annual Report and 2020 Work Plan, be received.

8.3.26 CW2020-059

That Report RS2020-001, Proposed Surplus Declaration, Closure and Sale of the Shoreline Road Allowance adjacent to 8 Black River Road, Dalton, be received;

That the subject property, being the shoreline road allowance adjacent to 8 Black River Road, Dalton and legally described as Part of the Shoreline Road Allowance, Part of Lot 31, Concession 13, in the Geographic Township of Dalton, City of Kawartha Lakes, be declared surplus to municipal needs;

That the closure of the subject shoreline road allowance and sale to the adjoining landowner be supported, in principle, in accordance with the provisions of By-Law 2018-020, as amended, and the Municipal Act, 2001, and subject to the parties entering into a conditional Agreement of Purchase and Sale;

That staff be directed to commence the process to stop up and close the said portion of road allowance;

That a by-law (with any amendments deemed necessary) to close the road and authorize its disposition shall be passed if appropriate; and

That the Mayor and Clerk be authorized to sign all documents to facilitate the road closing and conveyance of the lands.

8.3.27 CW2020-060

That Report RS2020-002, **Land Disposition Procedure**, be received;

That By-law 2018-020 be amended to require that, for all properties that are for sale subject to appraisal, a report containing the appraisal be presented to Council prior to final disposition of the property; and

That an amending by-law be put before Council.

8.3.28 CW2020-061

That Report RS2020-003, **180 Kent Street Lease – Innovation Cluster**, be received; and

That the Mayor and Clerk be authorized to execute the Lease Agreement attached as Appendix A on behalf of the Corporation of the City of Kawartha Lakes, being a Lease Agreement with the Innovation Cluster, Peterborough and the Kawarthas.

8.3.29 CW2020-062

That Report RS2020-005, **Rescind Council Policy C169-CAO-041**, be received; and

That Council rescind the Council Policy C169-CAO-041: Protocol to Address Dormant Outstanding Council Resolutions for the Land Management Department.

8.3.30 CW2020-063

That Report RS2020-006, **Rescind Council Policy 102-CAO-019**, be received; and

That Council rescind the Council Policy 102-CAO-019: Collection and Write-off for Provincial Offences Act Fines.

8.3.31 CW2020-064

That Report CORP2020-002, **Special Rate Area (SRA) Tax Levy Review**, be received.

8.3.32 CW2020-065

That street lights be moved from the Special Rate Area Tax Levy to the General Rate Tax Levy; and

That the Special Rate Area Tax Levy for street lights be phased into the General Rate Tax Levy over the next four year assessment period.

8.3.33 CW2020-066

That Report CORP2020-003, **2019 Q4 Capital Close**, be received;

That the capital projects identified in Attachment A to Report CORP2020-003 be approved to be closed due to completion;

That the balances in the table below as per Attachment A be transferred to or from the corresponding reserves;

Capital Projects Reserve	\$1,155,055.61
Police Reserves	\$59,242.53

That the following projects be granted an extension to June 30, 2020:

- 928171901 – P&R Software M/Y 2017-19
- 932170201 – Bethany Fire Hall Replacement M/Y 2017-19
- 932172201 - Coboconk Fire Hall Upgrades
- 953180100 – B&P Facilities

That the following projects be granted an extension to December 31, 2020:

- 928151500 – ERP System M/Y 2015-19
- 997130801 – Eldon Landfill
- 953170501 – 68 Lindsay St M/Y 2017-19
- 998170300 – Water Distribution & WW Collection
- 983170800 – WWW Road Restoration
- 983160600 – Urban/Rural Reconstruction
- 997166101 – Pump Chamber Construction
- 998160201 – Water Operating Monitoring System
- 998160501 – Pinewood Production Well

- 998160801 – Fenelon Falls Water main Upgrades
- 998161101 – Peel/York Water main Design
- 998161501 – Wastewater Operating Monitoring System
- 983170100 – Bridges
- 983170300 – Urban/Rural Reconstruction
- 998170100 – Water main Replacement
- 932180100 – Fire Facilities
- 932180300 – Fire Equipment
- 950180100 – Parkland Siteworks
- 950180200 – Parkland Facilities
- 983180100 - Bridges
- 983180300 – Urban/Rural Reconstruction
- 983180700 – Road Lifecycle Extension
- 983181100 – Traffic Signal Program
- 983181200 – Parking Lots
- 998180300 – Water Distribution & WW Collection
- 998180400 – Water Treatment Program
- 998180500 – Wastewater Treatment
- 950190300 – Recreation Facilities
- 950190400 – P&R Equipment
- 950190500 – Cemetery Siteworks
- 953190100 – B&P Facilities

That project 950180306 – Bike Repair/Tire Pump Station be reclassified as a multi-year project as funding was secured through the 2020 Special Project Budget;

That project 953180119 – Old Gaole Wall be reclassified as a multi-year project with a closing date of June 30, 2021; and

That project 953200501- City Hall Systems M/Y 2020-22 be closed and \$400,000 be transferred to 953180102 – City Hall Systems M/Y 2018-21.

- 8.3.34 CW2020-067
- That** Report ED2020-008, **Listing Properties on the Heritage Register**, be received; and
- That** the proposed listing of non-designated properties listed in Appendix A, with the exception of 91 Hartley Road, Eldon Township, be approved.
- 8.3.35 CW2020-068
- That** Report HS2020-002, **Employment Service System Transformation Update**, be received for information.
- 8.3.36 CW2020-069
- That** Report HH2020-002, **Canada-Ontario Housing Benefit**, be received for information purposes.
- 8.3.37 CW2020-070
- That** Report SOC2020-001, **Community Drug Strategy**, be received; and
- That** the formation of a community-based Advisory Group to support the Haliburton, Kawartha Lakes, Northumberland Drug Strategy, facilitated by City staff, be endorsed.
- 8.3.38 CW2020-071
- That** Report FIRE2020-001, **Emergency Management Program**, be received; and
- That**, in accordance with the **Emergency Management and Civil Protection Act, R.S.O. 1990, Chapter E.9**, the by-law to repeal and replace By-law 2004-157, as outlined in Appendix A to the report, be enacted to adopt the City of Kawartha Lakes Emergency Management Program and Emergency Response Plan.
- 8.3.39 CW2020-072
- That** Report ENG2020-003, **Update of the Roads 5 Year Plan**, be received.

8.3.40 CW2020-073

That Report WM2020-002, **Review of tire collection at City landfills**, be received;

That Staff communicates and educates customers to use producer operated collection sites for tire recycling; and

That Kawartha Lakes stops accepting tires for recycling at the City's landfill sites as of July 1, 2020.

8.3.41 CW2020-074

That Report WWW2020-002, **Septage Disposal Rate Review**, be received;

That Staff be directed to prepare the necessary amendments to **Schedule B** of By-law 2018-039 "**A By-law to Regulate Water and Wastewater Services in Kawartha Lakes**", attached as Appendix A to Report WWW2020-002; and

That staff review rates in five (5) years and report to Council if any adjustments are recommended.

8.3.42 CW2020-075

That Report WWW2020-003, **Water and Wastewater Services Costing Review**, be received.

8.3.43 CW2020-076

That the January 24, 2020 correspondence from the Township of Cavan Monaghan, **regarding off-road vehicles on boundary roads**, be received and referred to staff for a report back at the May 12, 2020 Committee of the Whole meeting.

8.3.44 CW2020-077

That the correspondence from Barry Baxter, President, Kawartha Lakes Haliburton Federation of Agriculture, **regarding Bill 156, Security from Trespass and Protecting Food Safety Act**, be received;

That Council supports the new proposed legislation, Bill 156: Security from Trespass and Protecting Food Safety Act; and

That this resolution be forwarded to the Honourable Ernie Hardeman, Minister of Agriculture, Food and Rural Affairs.

8.3.45 CW2020-078

That the February 13, 2020 correspondence from Ann Davidson and Brian Brethour, of Country Club Heights Association, **regarding a petition to amend by-law 2018-196**, be received and referred to staff for report back at the April 7, 2020 Committee of the Whole meeting.

8.3.46 CW2020-079

That the memorandum from Councillor Yeo, regarding **Increased Fees and Regulation Adjustments at Centennial Park**, be received;

That staff generate a report for Council outlining the rationale behind the increased fees/regulation adjustments and bring forward options to phase in, or restructure, new fees for park users; and

That staff deliver the report to Council at the April, 2020 Council Meeting.

8.4 Items Extracted from Committee of the Whole Minutes

9. **Planning Advisory Committee**

62 - 69

Planning Advisory Committee Minutes - March 11, 2020

9.1 Correspondence Regarding Planning Advisory Committee Recommendations

9.2 Planning Advisory Committee Minutes

9.3 Business Arising from Planning Advisory Committee Minutes

9.3.1 PAC2020-007

That Report PLAN2020-007, **respecting Part Lot 5, Concession 4, geographic Township of Verulam, Parkbridge Lifestyle Communities Inc. – Applications D01-2020-001 and D06-2020-003**, be received; and

That Report PLAN2020-007 respecting Applications D01-2020-001 and D06-2020-003 be referred back to staff to address any issues raised through the public consultation process and for further review and processing until such time that all comments have been received from all circulated agencies and City departments, and that any comments and concerns have been addressed.

9.3.2 PAC2020-008

That Report PLAN2020-010, respecting Part Lots 11 and 12, Concession 7, geographic Township of Emily, Applications D01-2019-006 and D06-2019-037, be received;

That a By-law to implement an Official Plan Amendment respecting application D01-2019-006, be prepared by staff, and be referred to Council for approval and adoption;

That a Zoning By-law Amendment respecting application D06-2019-037, be prepared by staff, and be referred to Council for approval and adoption; and

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of these applications.

9.3.3 PAC2020-009

That Report PLAN2020-011, respecting Part Lot 5, Concession 13, geographic Township of Manvers, Application D06-2020-001, be received;

That a Zoning By-law Amendment respecting application D06-2020-001, be prepared by staff, and be referred to Council for approval and adoption; and

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of this application.

9.3.4 PAC2020-010

That Report PLAN2020-006, Part of Lot 18, Concession 5, Former Town of Lindsay, DDB Investment Group Limited – Applications D01-2019-003 and D06-2019-029, be received;

That a By-law to implement the proposed Official Plan Amendment, substantially in the form attached as Appendix C to Report PLAN2020-006, be referred to Council for adoption;

That the zoning by-law amendment, substantially in the form attached as Appendix D to Report PLAN2020-006, be referred to Council for approval and adoption; and

That the Mayor and Clerk be authorized to execute any documents required by the approval of these applications.

9.4 Items Extracted from Planning Advisory Committee Minutes

10. Consent Matters

That all of the proposed resolutions shown in Section 10.1 and 10.2 of the Agenda be approved and adopted by Council in the order that they appear on the agenda and sequentially numbered.

10.1 Reports

10.1.1 ENG2020-005

70 - 125

Water and Sanitary Servicing to #68 and #70 Russell Street West, Lindsay

Juan Rojas, Director of Engineering and Corporate Assets

That Report ENG2020-005, **Water and Sanitary Servicing to #68 and #70 Russell Street West, Lindsay**, be received;

That an exemption to Section 7.01 (j) of By-Law 2018-039, being a By-Law To Regulate Water and Wastewater Services in the City of Kawartha Lakes, for vacant property at #70 Russell Street West, Lindsay, be approved by Council and fixed rates fees applied from October 2019 be refunded to the Owner;

That if the Owner applies for a Municipal Service Connection for a single residential water and sanitary sewer service within a 10 year period from the date of removal of the services, and prior to December 31, 2029, the City will replace the single set of residential water and sanitary service laterals to property line of #68 and/or #70 Russell Street West, Lindsay, to serve one residential unit/lot, at the City's expense;

That Frontage Charges shall be deemed to have been paid for #68 and #70 Russell Street West, Lindsay; and

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of this report.

10.1.2 PUR2020-010

126 - 128

2020-07-OQ Gravel Resurfacing – Supply and Place Granular Material

Linda Lee, Buyer

Mike Farquhar, Supervisor, Technical Services

That Report PUR2020-010, **2020-07-CQ Gravel Resurfacing – Supply and Place Granular Material**, be received;

That Robert E. Young Construction Ltd. be selected for award of 2020-07-OQ Gravel Resurfacing – Supply and Place Granular Material for the total quoted amount of \$1,762,233.45 plus HST;

That subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreements to award the contract; and

That the Procurement Division be authorized to issue a Purchase Order.

10.1.3 PUR2020-011 129 - 131

Single Source to Ontario Clean Water Agency

Linda Lee, Buyer

Nafiur Rahman, Engineering and Assets

That Report PUR2020-011, **Installation of UV Disinfection System and Pumps for the Fenelon Falls Water Treatment Plant**, be received;

That Council authorizes the expenditure of \$419,244.84 not including HST for the installation of the UV Disinfection System & Pumps at the Fenelon Falls Water Treatment Plant; and

That the Procurement Division be authorized to issue a purchase order.

10.1.4 PUR2020-008 132 - 156

Request to Increase Purchase Order Approval for the Complete Design and Construction Documents and Contract Administration for the HVAC System Replacement at City Hall

Krystina Cunningham, Buyer

Jocelyn Gill, Supervisor Capital Project Delivery

That Report PUR2020-008, **Request to increase the existing purchase order amount for the Design, Development of HVAC Systems at City Hall**, be received;

That Council authorize value of single source procurement for consulting services from +VG Architects for the Design, Development of HVAC System at City Hall from \$77,750.00 to \$313,250.00; a total increase of \$235,500.00.

That upon approval, the Financial Services Division be authorized to amend the purchase order for the revised amount proposed.

10.1.5	PUR2020-009	157 - 160
	<p>Transportation and Recycling of Mixed Construction and Demolition Material at Lindsay Ops Landfill</p> <p>Marielle van Engelen, Buyer Nikki Payne, Waste Technician II</p> <p>That Report PUR2020-009, Transportation and Recycling of Mixed Construction and Demolition Material at Lindsay Ops Landfill, be received;</p> <p>That Durham Disposal Services Ltd. be selected for the award of the transportation and recycling of mixed construction and demolition material at the Lindsay Ops Landfill, on an as required basis, at a total estimated cost of \$152,319 not including HST;</p> <p>That subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreement to award the contract; and</p> <p>That the Procurement Division be authorized to issue a purchase order.</p>	
10.1.6	CORP2020-004	161 - 165
	<p>2019 Annual Report on Council Remuneration and Expenses</p> <p>Leanne Mitchell, Supervisor of Cost Accounting</p> <p>That Report CORP2020-004, 2019 Annual Report on Council Remuneration and Expenses, be received for information purposes.</p>	
10.1.7	WWW2020-001	166 - 461
	<p>2019 Annual Waterworks Summary Report</p> <p>Julie Henry, Quality Management and Policy Coordinator</p>	

That Report WWW2020-001, 2019 Annual Waterworks Summary Report, be received in accordance with reporting requirements of Ontario Regulation 170/03 Schedule 22 and Section 11 under the Safe Drinking Water Act, 2002 for the following municipal residential drinking water systems (DWS) owned by the City of Kawartha Lakes:

- Birch Point Estates DWS
- Bobcaygeon DWS
- Canadiana Shores DWS
- Fenelon Falls DWS
- Janetville DWS
- King's Bay DWS
- Kinmount DWS
- Lindsay DWS
- Manilla DWS (Woods of Manilla)
- Manorview DWS
- Mariposa Estates DWS
- Norland DWS
- Omemee DWS (Victoria Glen)
- Pinewood DWS
- Pleasant Point DWS Sonya DWS
- Sonya DWS
- Southview DWS
- Victoria Place DWS
- Western Trent DWS
- Woodfield DWS
- Woodville DWS.

10.1.8

CS2020-005

462 - 464

Release of Woodville Legacy C.H.E.S.T. Funds

LeAnn Donnelly, Executive Assistant Community Services

	<p>That Report CS2020-005, Release of Woodville Legacy C.H.E.S.T. Funds, be received; and</p> <p>That the Woodville Lions Club be approved for funding in the amount of \$130,000.00 with the allocation to come from the Woodville Legacy C.H.E.S.T. Reserve (3.24320).</p>	
10.1.9	<p>CS2020-006</p> <p>Release of Kirkfield Legacy C.H.E.S.T. Funds Craig Shanks, Director Community Services</p> <p>That Report CS2020-006, Release of Kirkfield Legacy C.H.E.S.T. Funds, be received;</p> <p>That the Kirkfield Lions Club and Kirkfield and District Historical Society be approved for funding in the amount of \$119,446.58 with the allocation to come from the Kirkfield Legacy C.H.E.S.T. Reserve (3.24250).</p>	465 - 474
10.1.10	<p>PRC2020-005</p> <p>Norland Recreation Centre Volunteer Management Committee Terms of Reference Shelley Cooper, Community Partnership and Programs Supervisor</p> <p>That Report PRC2020-005, Norland Recreation Centre Volunteer Management Committee Terms of Reference, be received; and</p> <p>That the Norland Recreation Centre Volunteer Management Committee Terms of Reference, as outlined in Appendix A to Report PRC2020-005, be approved.</p>	475 - 483
10.1.11	<p>CEM2020-001</p> <p>Assumption of Janetville United Church Cemetery Cathy Sleep, Cemetery Administrator</p> <p>That Report CEM2020-001, Assumption of Janetville United Church Cemetery, be received; and</p> <p>That Staff take the necessary action to assume ownership of Janetville United Church Cemetery as set out in the Funeral, Burial and Cremation Services Act, 2002, Section 101.1 Subsections 1 to 8; and,</p> <p>That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of this decision.</p>	484 - 490

10.2	Correspondence	
10.2.1	CC2020-03.10.2.1	491 - 492
	<p>Memorandum Regarding Community Paramedicine Pilot Program Continuation</p> <p>Jennifer Stover, Director of Corporate Services</p> <p>That the Memorandum from Jennifer Stover, Director of Corporate Services, regarding Community Paramedicine Pilot Program Continuation, be received; and</p> <p>That the Community Paramedicine Pilot program be extended for a further _____ month(s) time period, at a cost of \$_____, to be funded from the efficiency grant in the Contingency Reserve.</p>	
10.3	Items Extracted from Consent	
11.	Petitions	
12.	Other or New Business	
13.	By-Laws	
	<p>That the By-Laws shown in Section 13.1 of the Agenda, namely: Items 13.1.1 to and including 13.1.10 be read a first, second and third time, passed, numbered, signed and the corporate seal attached.</p>	
13.1	By-Laws by Consent	
13.1.1	CC2020-03.13.1.1	493 - 495
	<p>A By-law to Amend By-law 2018-020, Being the City Lands Disposition By-law for the City of Kawartha Lakes (Notice)</p>	
13.1.2	CC2020-03.13.1.2	496 - 498
	<p>A By-law to Amend By-law 2018-020, Being the City Lands Disposition By-law for the City of Kawartha Lakes (Price for Road Allowances)</p>	
13.1.3	CC2020-03.13.1.3	499 - 503
	<p>A By-law to Designate 264 Pleasant Point Road, Geographic Township of Fenelon in the City of Kawartha Lakes</p>	

13.1.4	CC2020-03.13.1.4	504 - 508
	A By-law to Repeal and Replace Bylaw 2004-157 to adopt an Emergency Management Program and Emergency Response Plan in accordance with the requirements of the Emergency Management and Civil Protection Act in the City of Kawartha Lakes	
13.1.5	CC2020-03.13.1.5	509 - 513
	A By-Law to Amend the Town of Lindsay Official Plan to Re-designate Land within the City of Kawartha Lakes (140 Angeline Street South – DDB Investment Group Limited)	
13.1.6	CC2020-03.13.1.6	514 - 516
	A By-law to Amend the Town of Lindsay Zoning By-law No. 2000-75 to Rezone Land within the City Of Kawartha Lakes (140 Angeline Street South – DDB Investment Group Limited)	
13.1.7	CC2020-03.13.1.7	517 - 521
	A By-law to Amend the Township of Emily Official Plan to Re-designate Land within the City of Kawartha Lakes (88 Centreline Road - Caton)	
13.1.8	CC2020-03.13.1.8	522 - 524
	A By-law to Amend the Township of Emily Zoning By-law 1996-30 to Rezone Land within the City of Kawartha Lakes (88 Centreline Road - Caton)	
13.1.9	CC2020-03.13.1.9	525 - 527
	A By-law to Amend the Township of Manvers Zoning By-law 87-06 to Rezone Land within the City of Kawartha Lakes (281 Pigeon Creek Road - Prentice)	
13.1.10	CC2020-03.13.1.10	528 - 529
	A By-law to Delegate Authority for Decisions to the Chief Administrative Officer in the City of Kawartha Lakes	
13.2	By-Laws Extracted from Consent	
14.	Notice of Motion	

15. Closed Session

15.1 Adoption of Closed Session Agenda

15.2 Disclosure of Pecuniary Interest in Closed Session Items

15.3 Move Into Closed Session

That Council convene into closed session at ____ p.m. pursuant to Section 239(2) of the Municipal Act, S.O. 2001 S.25, in order to consider matters identified in Section 15.3 of the Regular Council Meeting Agenda of Thursday, March 19, 2020, namely Items 15.3.1 to and including 15.3.5.

15.3.1 CC2020-03.15.3.1

**Closed Session Minutes, Regular Council Meeting February 18, 2020
Municipal Act, 2001 s.239(2)(b) Personal Matters about Identifiable
Individuals
Municipal Act, 2001 s.239(2)(e) Litigation Affecting the Municipality
Municipal Act, 2001 s.239(2)(f) Solicitor-client Privilege**

15.3.2 ED2020-012

**Agricultural Development Advisory Committee 2020 Appointments
Municipal Act, 2001 s.239(2)(b) Personal Matters about Identifiable
Individuals
Kelly Maloney, Economic Development Officer - Agriculture**

15.3.3 ED2020-014

**Downtown Revitalization Advisory Committee 2020 Appointments
Municipal Act, 2001 s.239(2)(b) Personal Matters about Identifiable
Individuals
Carlie Arbour, Economic Development Officer - Community**

15.3.4 ED2020-015

**Cultural Centre Feasibility Task Force Appointments
Municipal Act, 2001 s.239(2)(b) Personal Matters about Identifiable
Individuals
Donna Goodwin, Economic Development Officer - Culture**

15.3.5 PLAN2020-009

**Member Appointments - Committee of Adjustment
Municipal Act, 2001 s.239(2)(b) Personal Matters about Identifiable
Individuals**

Richard Holy, Manager of Planning

16. Matters from Closed Session

17. Confirming By-Law

17.1 CC2020-03.17.1

530 - 530

A By-Law to Confirm the Proceedings of a Regular Meeting of Council,
Thursday, March 19, 2020

18. Adjournment

The Corporation of the City of Kawartha Lakes
Minutes
Regular Council Meeting

CC2020-02
Tuesday, February 18, 2020
Open Session Commencing at 1:00 p.m.
Council Chambers
City Hall
26 Francis Street, Lindsay, Ontario K9V 5R8

Members:
Mayor Andy Letham
Deputy Mayor Patrick O'Reilly
Councillor Ron Ashmore
Councillor Pat Dunn
Councillor Doug Elmslie
Councillor Tracy Richardson
Councillor Kathleen Seymour-Fagan
Councillor Andrew Veale
Councillor Emmett Yeo

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1. Call to Order

Mayor Letham called the Meeting to order at 1:00 p.m. Deputy Mayor P. O'Reilly and Councillors R. Ashmore, P. Dunn, D. Elmslie, T. Richardson and A. Veale were in attendance.

Absent: Councillors K. Seymour-Fagan and E. Yeo.

CAO R. Taylor, City Clerk C. Ritchie, Deputy Clerk S. O'Connell and Directors, J. Rojas, B. Robinson, J. Stover, C. Marshall, C. Shanks and City Solicitor R. Carlson and Chief of Paramedic Services A. Rafton were also in attendance.

2. Opening Ceremonies

2.1 O Canada

The Meeting was opened with the singing of 'O Canada'.

2.2 Moment of Silent Reflection

The Mayor asked those in attendance to observe a Moment of Silent Reflection.

2.3 Adoption of Open Session Agenda

CR2020-044

Moved By Councillor Veale

Seconded By Councillor Richardson

That the Agenda for the Open Session of the Regular Council Meeting of Tuesday, February 18, 2020, be adopted as circulated, with the following amendments:

Deletion:

Item 6.1

Unveiling of the Event Poster for the 2020 International Plowing Match and Rural Expo

Cathy Lasby, Executive Director, Ontario Plowmen's Association

Lynda Cunningham, Artist

Addition to Closed Session:

Item 14.3.7

Personnel Matter

Municipal Act 2001 s.239(2)(b) Personal Matters About Identifiable Individuals

Jennifer Stover, Director of Corporate Services

Carried

3. Disclosure of Pecuniary Interest

There were no declarations of pecuniary interest disclosed.

4. Notices and Information by Members of Council and Staff

4.1 Council

Councillor Richardson

- A Pancake Supper will be held at the Bethany United Church on February 26th;
- A Fundraising Dance, featuring Punch Douglas, will be held at the Manvers Arena on February 29th; and
- A Kid's Magic Show will be hosted at the Janetville Hall on March 1st.

Councillor Ashmore

- The Dunsford Lions Club hosted a Family Day Radar Run at Pleasant Point on February 16th;
- The Official Opening of the Front Entrance Renovations at the Downeyville Hall will be held on February 28th; and
- The Omemee Concert Series will be hosting a concert at the Coronation Hall in Omemee on March 6th.

Deputy Mayor O'Reilly

- The following events are going to be held at the Lindsay Exhibition (the "LEX"):
 - The East Central Farm Show will be held on March 4th and March 5th;
 - The Indian River Reptile Zoo and Dino Exhibition will be held on March 19th to March 22nd; and
 - The Spotlight on Agriculture Event will be held on March 27th and the event is now sold out.

- The Kent Street reconstruction project is underway; Kent Street is now closed from Lindsay Street to William Street.

4.2 Staff

5. Council Minutes

Regular Council Meeting Minutes - January 28, 2020

CR2020-045

Moved By Councillor Elmslie

Seconded By Councillor Richardson

That the Minutes of the January 28, 2020 Regular Council Meeting, be received and adopted.

Carried

6. Deputations

6.1 CC2020-02.6.1

Request for Quotation 2020-02-CQ Supply and Delivery of Two (2) Single Axle and Four (4) Tandem Axle Trucks

(Item 9.1.2 on the Agenda)

Dennis Clarke

Blake Clarke

Mr. Dennis Clarke provided an overview of his concern pertaining to the request for quotation process that was completed and the specifications that were required for the supply and delivery of two single axle and four tandem axle trucks. Mr. Clarke noted that his company, Currie Truck Centre, submitted a quote but was disqualified due to the specifications required under the Request for Quotation. Mr. Clarke asked that the matter undergo an additional review before a decision is made.

CR2020-046

Moved By Councillor Ashmore

Seconded By Deputy Mayor O'Reilly

That the deputation, and supporting correspondence, of Dennis Clarke, regarding **Request for Quotation 2020-02-CQ Supply and Delivery of Two (2) Single Axle and Four (4) Tandem Axle Trucks**, be received.

Carried

7. Presentations

7.1 CC2020-02.7.1

**Rural Zoning By-law Consolidation and Update
(Item 9.1.1 on the Agenda)**

Richard Holy, Manager of Planning

Bobby Gauthier, Senior Project Manager, WSP

Richard Holy, Manager of Planning, introduced Bobby Gauthier, Senior Project Manager, WSP, who is working on the Rural Zoning By-law Consolidation Project. Mr. Gauthier provided an overview of the project which includes the consolidation of thirteen (13) rural zoning by-laws, under the guidance of the Rural Zoning By-law Consolidation Task Force. Mr. Gauthier provided an outline of the timeline that will be followed and the public consultation that will be completed for the balance of the project.

CR2020-047

Moved By Councillor Elmslie

Seconded By Deputy Mayor O'Reilly

That the presentation by Richard Holy, Manager of Planning, and Bobby Gauthier, Senior Project Manager, WSP, **regarding the Rural Zoning By-law Consolidation and Update**, be received.

Carried

8. Committee of the Whole

8.1 Correspondence Regarding Committee of the Whole Recommendations

8.2 Committee of the Whole Minutes

Committee of the Whole Minutes - February 4, 2020

CR2020-048

Moved By Councillor Richardson

Seconded By Deputy Mayor O'Reilly

That the Minutes of the February 4, 2020 Committee of the Whole Meeting be received and the recommendations, included in Section 8.3 of the Agenda, be adopted, save and except for item 8.3.6.

8.3 Business Arising from Committee of the Whole Minutes

8.3.1 CW2020-022

That the deputation of Brian Henry, regarding a **high water bill adjustment for 60 King Street, Woodville**, be received.

Carried

8.3.2 CW2020-023

That Report CORP2020-001, **High Water Bill Adjustment - 60 King St - Woodville**, be received.

Carried

8.3.3 CW2020-024

That Council approves relief in the amount of \$5,838.76 as a one-time exemption for 60 King Street, Woodville.

Carried

8.3.4 CW2020-025

That the presentation by Ron Taylor, CAO, **regarding Service Modernization Review**, be received.

Carried

8.3.5 CW2020-026

That the presentation by Rebecca Mustard, Manager, Economic Development, and Debra Soule, former Economic Development Officer, Arts, Culture and Heritage, **regarding Cultural Master Plan 2020-2030**, be received.

Carried

8.3.7 CW2020-028

That the presentation by Lindsey Schoenmakers, Economic Development Officer - Business, **regarding the Kawartha Lakes Data Intelligence Tool**, be received.

Carried

8.3.8 CW2020-029

That Report ED2020-007, **Kawartha Lakes Local Data Intelligence Tool**, be received.

Carried

8.3.9 CW2020-030

That Report MLE2020-001, **By-Law Review and Updates**, be received; and

That the recommended by-laws be amended and forwarded to Council for adoption.

Carried

8.3.10 CW2020-031

That the Memorandum from Councillor Dunn, **regarding the sale of municipal property**, be received; and

That staff be directed to review all public land sale processes requiring an appraisal to determine fair market value, and make recommendations to Council at the March 10 Committee of the Whole meeting to update these processes to include the provision of the appraisal report to Council prior to authorizing the final transfer of the lands.

Carried

8.4 Items Extracted from Committee of the Whole Minutes

8.3.6 CW2020-027

Moved By Councillor Ashmore

Seconded By Deputy Mayor O'Reilly

That Report ED2020-005, **Cultural Master Plan 2020- 2030**, be received;

That Council approve the Cultural Master Plan 2020-2030 as outlined in Appendix A to Report ED2020-005;

That Staff bring forward to Council implementation action items for consideration through the annual budget processes; and

That Staff present a Business Plan for the Cultural Master Plan 2020-2030 to Council for consideration prior to budget deliberations.

A recorded vote was requested by Councillor Ashmore.

Recorded	For	Against	Absent
Mayor Letham		X	
Deputy Mayor O'Reilly		X	
Councillor Ashmore	X		

Councillor Dunn		X	
Councillor Elmslie		X	
Councillor Richardson		X	
Councillor Seymour-Fagan			X
Councillor Veale		X	
Councillor Yeo			X
Results	1	6	2
			Carried

CR2020-049

Moved By Councillor Richardson

Seconded By Councillor Elmslie

That Report ED2020-005, **Cultural Master Plan 2020- 2030**, be received;

That Council approve the Cultural Master Plan 2020-2030 as outlined in Appendix A to Report ED2020-005; and

That Staff bring forward to Council implementation action items for consideration through the annual budget processes.

Carried

9. Consent Matters

The following items were requested to be extracted from the Consent Agenda:

Items 9.1.1 and 9.1.2 Mayor Letham

Moved By Councillor Richardson

Seconded By Deputy Mayor O'Reilly

That all of the proposed resolutions shown in Section 9.1 and 9.2 of the Agenda be approved and adopted by Council in the order that they appear on the agenda and sequentially numbered, save and except for items 9.1.1 and 9.1.2.

Carried

9.1 Reports

9.1.3 PUR2020-005

Request for Proposal 2020-10-CP Refurbishment of Landfill Compactor and Loader

Marielle van Engelen, Buyer
Todd Bryant, Manager of Fleet and Transit Services

CR2020-050

That Report PUR2020-005, **Request for Proposal 2020-10-CP Refurbishment of Landfill Compactor and Loader**, be received;

That Brandt Tractor Ltd. of Peterborough, Ontario, be selected for the award of their Option 2 submission for Request for Proposal 2020-10-OP Refurbishment of Landfill Compactor and Loader;

That the deficit in the project, 994200206 Loaders, of \$36,769.00 be funded by the Public Works Fleet Reserve (1.32070); and

That upon receipt of the required documents the Procurement Division be authorized to issue a purchase order.

Carried

9.1.4 PUR2020-006

Request for Quotation 2020-01-CP Supply and Delivery of One Low Floor Specialized Transit Bus

Marielle van Engelen, Buyer
Todd Bryant, Manager of Fleet and Transit Services

CR2020-051

That Report PUR2020-006, **Request for Quotation Supply and Delivery of One Low Floor Specialized Transit Bus**, be received;

That Crestline Coach Limited of Saskatoon, of Saskatchewan be selected for the award of Request for Quotation 2020-01-CP for the Supply and Delivery of One Low Floor Specialized Transit Bus for a total award amount of \$157,266.50, plus HST, and

That upon receipt of the required documents the Procurement Division be authorized to issue a purchase order.

Carried

9.1.5 WM2020-001

Waste Management By-law 2016-144 Updates

David Kerr, Manager Environmental Services

CR2020-052

That Report WM2020-001, **Waste Management By-law 2016-144 Updates**, be received; and

That the amended By-law attached as Appendix A to Report WM2020-001, be approved.

Carried

9.2 Correspondence

9.2.1 CC2020-02.9.2.1

Municipal Representative on the Trent Conservation Coalition Source Protection Committee - Selection of Candidates

Mark Majchrowski, Chief Administrative Officer, Kawartha Conservation, Kawartha-Haliburton Source Protection Authority

CR2020-053

That the February 7, 2020 correspondence from Mark Majchrowski, Chief Administrative Officer, Kawartha Conservation, Kawartha-Haliburton Source Protection Authority,

regarding Municipal Representation on the Trent Conservation Coalition Source Protection Committee, be received; and

That Township of Minden Hills Mayor Brent Devolin be endorsed as a Kawartha-Haliburton municipal representative on the Trent Conservation Coalition Source Protection Committee.

Carried

9.3 Items Extracted from Consent

9.1.1 PLAN2020-003

Rural Zoning By-law Consolidation and Update

Richard Holy, Manager of Planning

Janet Wong, Planner II

Bobby Gauthier, Senior Project Manager, WSP

CR2020-054

Moved By Deputy Mayor O'Reilly

Seconded By Councillor Veale

That Report PLAN2020-003, **Rural Zoning By-law Consolidation and Update**, be received.

Carried

9.1.2 PUR2020-004

Request for Quotation 2020-02-CQ Supply and Delivery of Two (2) Single Axle and Four (4) Tandem Axle Trucks

Marielle van Engelen, Buyer

Todd Bryant, Manager of Fleet and Transit Services

CR2020-055

Moved By Councillor Dunn

Seconded By Deputy Mayor O'Reilly

That Report PUR2020-004, **Request for Quotation 2020-02-CQ Supply and Delivery of Two (2) Single Axle and Four (4) Tandem Axle Trucks**, be received;

That Winslow-Gerolamy Motors Limited, of Peterborough, Ontario be awarded Quotation 2020-02-CQ Supply and Delivery of Two (2) Single Axle and Four (4) Tandem Axle Trucks, for the total amount of \$1,667,066.00 (not including HST) including all requested optional equipment;

That the deficit in the project, 994200210 Single Axle Trucks, of \$36,408 be funded by the Public Works Fleet Reserve (1.32070); and

That subject to receipt of the required documents, The Financial Services Division be authorized to issue a purchase order.

A Recorded Vote was requested by Councillor Elmslie.

Recorded	For	Against	Absent
Mayor Letham	X		
Deputy Mayor O'Reilly	X		
Councillor Ashmore		X	
Councillor Dunn	X		
Councillor Elmslie		X	
Councillor Richardson	X		
Councillor Seymour-Fagan			X

Councillor Veale	X		
Councillor Yeo			X
Results	5	2	2
			Carried

CR2020-056

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That staff be directed to present a cost-benefit analysis report to Council prior to the next budget cycle detailing the impacts of standardization and specifications for fleet acquisitions.

Carried

10. Petitions

11. Other or New Business

12. By-Laws

The mover requested the consent of Council to read the by-laws by number only.

CR2020-057

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That the By-Laws shown in Section 12.1 of the Agenda, namely: Items 12.1.1 to and including 12.1.7 be read a first, second and third time, passed, numbered, signed and the corporate seal attached.

Carried

12.1 By-Laws by Consent

12.1.1 By-law 2020-016

A By-law to Amend By-law 2013-043, Being A By-Law to Regulate the Fortification of Land and to Prohibit Excessive Fortification of Land and to Prohibit the Application of Excessive Protective Elements to Land within the City of Kawartha Lakes

12.1.2 By-law 2020-017

A By-law to Amend By-law 2014-026, being a By-law to Require the Owners of Yards within Kawartha Lakes to Clean and Clear Them

12.1.3 By-law 2020-018

A By-law to Amend By-law 2016-210, Being a By-law To Licence, Regulate and Govern Transient Trader Businesses in Kawartha Lakes

12.1.4 By-law 2020-019

A By-law to Amend By-law 2016-144, Being a By-law for Collection and Management of Waste and Recyclables within the City of Kawartha Lakes

12.1.5 By-law 2020-020

A By-law to Appoint a Licensing Enforcement Officer as a Municipal Law Enforcement Officer for the City of Kawartha Lakes for the Purpose of Enforcing Licensing By-laws (J. Aguanno)

12.1.6 By-law 2020-021

A By-law to Appoint A Deputy Clerk for the City of Kawartha Lakes (S. O'Connell)

12.1.7 By-law 2020-022

By-law to Amend By-law 2019-031, Being A By-law to Authorize the Civil Marriage Solemnization Service in the City of Kawartha Lakes

12.2 By-Laws Extracted from Consent

13. Notice of Motion

14. Closed Session

14.1 Adoption of Closed Session Agenda

CR2020-058

Moved By Deputy Mayor O'Reilly

Seconded By Councillor Richardson

That the Closed Session agenda be adopted, as amended.

Carried

14.2 Disclosure of Pecuniary Interest in Closed Session Items

There were no declarations of pecuniary interest disclosed.

The meeting recessed at 2:31 p.m. and reconvened at 2:40 p.m.

14.3 Move Into Closed Session

CR2020-059

Moved By Councillor Veale

Seconded By Councillor Elmslie

That Council convene into closed session at 2:41 p.m. pursuant to Section 239(2) of the Municipal Act, S.O. 2001 S.25, in order to consider matters identified in Section 14.3 of the Regular Council Meeting Agenda of Tuesday, February 18, 2020, namely Items 14.3.1 to and including 14.3.7.

Carried

15. Matters from Closed Session

Item 14.3.1

Closed Session Minutes of the Regular Council Meeting of January 28, 2020 were approved.

Item 14.3.7

The CAO provided a verbal report regarding a Personnel Matter.

Item 14.3.2

Confidential Report CAO2020-002, Shared Services Review – Updates, was received.

Item 14.3.3

The City Solicitor provided an update pertaining to litigation commenced by Joan Abernethy against the City, being Divisional Court File DC-19-1154, and provided advice pertaining to same.

Item 14.3.4

The City Solicitor provided information pertaining to litigation commenced by McKenzie Drywall Inc. and Laurin & Company, a.k.a. Laurin Group, against the City of Kawartha Lakes and its wholly-owned corporation, being Superior Court File 19-106, and obtained instruction pertaining to the same.

Item 14.3.5

The City Solicitor provided information pertaining to litigation commenced by Mapleridge Mechanical Contracting Inc. against the City, being Superior Court File 19-142 and obtained instruction pertaining to the same.

Item 14.3.6

The City Solicitor provided information pertaining to litigation commenced by Flight and Murray respecting public water access adjacent to 782 Frank Hill Road, which litigation was commenced against the City of Kawartha Lakes, being Divisional Court File 2603-19, and obtained instruction pertaining to the same.

16. Confirming By-Law

16.1 CC2020-02.16.1

A By-Law to Confirm the Proceedings of a Regular Meeting of Council, Tuesday, February 18, 2020

CR2020-068

Moved By Councillor Ashmore

Seconded By Deputy Mayor O'Reilly

That a by-law to confirm the proceedings of a Regular Council Meeting held Tuesday, February 18, 2020 be read a first, second and third time, passed, numbered, signed and the corporate seal attached.

Carried

17. Adjournment

CR2020-069

Moved By Councillor Veale

Seconded By Councillor Richardson

That the Council Meeting adjourn at 3:54 p.m.

Carried

Read and adopted this 24 day of March, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

The Corporation of the City of Kawartha Lakes

Minutes

Committee of the Whole Meeting

**COW2020-03
Tuesday, March 10, 2020
Open Session Commencing at 1:00 p.m.
Council Chambers
City Hall
26 Francis Street, Lindsay, Ontario K9V 5R8**

**Members:
Mayor Andy Letham
Deputy Mayor Patrick O'Reilly
Councillor Ron Ashmore
Councillor Pat Dunn
Councillor Doug Elmslie
Councillor Tracy Richardson
Councillor Kathleen Seymour-Fagan
Councillor Andrew Veale
Councillor Emmett Yeo**

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1. Call to Order

Mayor Letham called the Meeting to order at 1:00 p.m. Deputy Mayor P. O'Reilly and Councillors R. Ashmore, P. Dunn, D. Elmslie, T. Richardson, K. Seymour-Fagan, A. Veale and E. Yeo were in attendance.

CAO R. Taylor, City Clerk C. Ritchie, Deputy Clerk S. O'Connell and Directors C. Marshall, B. Robinson, C. Shanks, J. Stover, R. Sutherland, Chief of Fire Services M. Pankhurst and City Solicitor R. Carlson were also in attendance.

2. Adoption of Agenda

CW2020-033

Moved By Councillor Elmslie

Seconded By Councillor Seymour-Fagan

That the Agenda for the Open Session of the Committee of the Whole of Tuesday, March 10, 2020, be adopted as circulated.

Carried

3. Disclosure of Pecuniary Interest

There were no declarations of pecuniary interest disclosed.

4. Deputations

4.1 COW2020-03.4.1

Relief from By-law 2018-039, By-law to Regulate Water and Wastewater Services, for 13 Sturgeon Rd. N., Omemee

Frank Arnold

Anke Arnold

Frank and Anke Arnold asked Council to review the flat rate charge for sanitary sewer service and how it is applied to multi-unit properties. Ms. Arnold noted concern that their multi-unit property incurs a flat rate charge for each of the four units and requested that By-law 2018-039, being a By-law to Regulate Water and Wastewater Services, be reviewed.

CW2020-034

Moved By Councillor Dunn

Seconded By Councillor Yeo

That the deputation of Frank Arnold and Anke Arnold, **regarding relief from By-law 2018-039, being a By-law to Regulate Water and Wastewater Services, for 13 Sturgeon Rd. N., Omemee**, be received.

Carried

CW2020-035

Moved By Councillor Elmslie

Seconded By Councillor Ashmore

That staff be directed to review the application of the flat rate charge versus the metered charge for sanitary sewer service, and how those fees are applied to single family dwellings and multi-unit properties, under By-law 2018-039, being a By-law to Regulate Water and Wastewater Services in the City of Kawartha Lakes;

That staff report back to the Committee of the Whole by the end of Q2, 2020 with the outcome of that review; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

4.2 COW2020-03.4.2

Sewer Rate Relief Request

Peter Howarth

Mr. Peter Howarth advised that he received a high water bill due to an outside faucet that had been left on. Mr. Howarth requested a credit of \$200.00 as relief from the sanitary sewer charges that he incurred because the additional water drained from his property and did not enter the sanitary sewer system.

CW2020-036

Moved By Councillor Veale

Seconded By Councillor Richardson

That the deputation of Peter Howarth, **regarding sewer rate relief request**, be received.

Carried

CW2020-037

Moved By Councillor Dunn

Seconded By Councillor Elmslie

That staff apply a one time sewer rate relief credit of \$100.00 the water account held by Peter Howarth; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

4.3 COW2020-03.4.3

Assistance to Resolve an Issue on Title to 1899 Pigeon Lake Road

James R. Webster

Larry Phillips

James R. Webster and Larry Phillips advised that Mr. Phillips owns two parcels of land that have unintentionally merged. Mr. Webster requested that the City consider temporarily transferring a road widening strip of land to Mr. Phillips so they could correct this ownership issue. Mr. Phillips would convey the road widening strip of land back to the City once the title issue was resolved.

CW2020-038

Moved By Councillor Elmslie

Seconded By Deputy Mayor O'Reilly

That the deputation of James R. Webster and Larry Phillips, **regarding assistance to resolve an issue on title to 1899 Pigeon Lake Road**, be received.

Carried

CW2020-039

Moved By Councillor Yeo

Seconded By Councillor Dunn

That the request from James R. Webster and Larry Phillips, for assistance to resolve an issue on title to 1899 Pigeon Lake Road, be referred to staff for review and report back at the April 7, 2020 Committee of the Whole Meeting; and

That this recommendation be brought forwarded to Council for consideration at the next Regular Council

Carried

5. Presentations

5.1 COW2020-03.5.1

Transition of the Blue Box to Full Producer Responsibility

Dave Gordon, Senior Advisor, Waste Diversion, Association of Municipalities of Ontario (AMO)

Dave Gordon, Senior Advisor, Waste Diversion, Association of Municipality of Ontario (AMO) provided an overview on the transition of the blue box program to full producer responsibility. Mr. Gordon outlined the proposed timeline and summarized the elements that will be involved in the transition process.

CW2020-040

Moved By Councillor Elmslie

Seconded By Councillor Yeo

That the presentation by Dave Gordon, Senior Advisor, Waste Division, Association of Municipalities of Ontario, **regarding the transition of the blue box program to full producer responsibility**, be received and referred to staff for a report back in Q2 of 2020.

Carried

5.2 COW2020-03.5.2

Community Paramedicine Pilot Project - Update

Sara Johnston, Deputy Chief, Quality Assurance

Sara Johnston, Deputy Chief, Quality Assurance, and Julie Milne, Community Paramedic, provided an overview of the Community Paramedicine Pilot Project which ends on April 1, 2020. The overview included a summary of the services that are provided to patients and how those services are delivered.

CW2020-041

Moved By Councillor Dunn

Seconded By Councillor Richardson

That the presentation by Sara Johnston, Deputy Chief, Quality Assurance, and Julie Milne, Community Paramedic, **regarding the Community Paramedicine Pilot Project**, be received.

Carried

CW2020-042

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That staff report back at the March 24, 2020 Regular Council Meeting to outline any funding sources that are available to extend the Community Paramedicine Pilot Project for a further three month time period; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

5.3 COW2020-03.5.3

Strategic Plan 2016-2019 Final Report Video Presentation

Brenda Stonehouse, Strategy and Innovation Specialist

Brenda Stonehouse, Strategy and Innovation Specialist, provided an overview and presented a video highlighting the achievements made through the Strategic Plan 2016-2019.

CW2020-043

Moved By Deputy Mayor O'Reilly

Seconded By Councillor Richardson

That the presentation by Brenda Stonehouse, Strategy and Innovation Specialist, **regarding the Strategic Plan 2016-2019 final report video presentation**, be received.

Carried

5.3.1 CAO2020-003

Strategic Plan 2016-2019 Final Progress Report

Brenda Stonehouse, Strategy and Innovation Specialist

CW2020-044

Moved By Councillor Richardson

Seconded By Councillor Elmslie

That Report CAO2020-003, **2016-2019 Strategic Plan Final Progress Report**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

The meeting recessed at 2:24 p.m. and reconvened at 2:36 p.m..

5.4 COW2020-03.5.4

2019 Municipal Accessibility Master Plan Progress Report

Barbara Condie, Accessibility Officer

Barbara Condie, Accessibility Officer, provided an overview of the Accessibility Compliance Report that was submitted to the Province of Ontario in 2019. Ms. Condie confirmed that the City continues to meet the requirements that are listed under the Accessibility for Ontarians with Disabilities Act (the "AODA"). Ms. Condie also provided an overview of the activities that were completed by the Kawartha Lakes Accessibility Advisory Committee during 2019.

CW2020-045

Moved By Councillor Elmslie

Seconded By Councillor Veale

That the presentation by Barbara Condie, Accessibility Officer, **regarding 2019 Municipal Accessibility Master Plan Progress Report**, be received.

Carried

5.4.1 CLK2020-003

2019 Municipal Accessibility Master Plan Progress Report

Barbara Condie, Accessibility Officer

CW2020-046

Moved By Councillor Seymour-Fagan

Seconded By Deputy Mayor O'Reilly

That Report CLK2020-003, **2019 Municipal Accessibility Master Plan Progress Report**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6. Consent Matters

6.1 Reports

6.1.1 CLK2020-004

Kawartha Lakes Accessibility Advisory Committee (AAC) 2019 Report on Accomplishments and 2020 Proposed Workplan

Barbara Condie, Accessibility Officer
Council Representative - Councillor Elmslie

CW2020-047

Moved By Councillor Elmslie

Seconded By Councillor Veale

That Report CLK2020-004, **Kawartha Lakes AAC 2019 Annual Activities Report and Proposed 2020 Work Plan**, be received;

That the Kawartha Lakes AAC 2020 Work Plan be approved; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting on March 24, 2020.

Carried

6.1.2 CEM2020-002

Kawartha Lakes Cemetery Board Annual Report and 2020 Work Plan

Cathy Sleep, Cemetery Administrator
Council Representative - Councillor Yeo

CW2020-048

Moved By Councillor Yeo

Seconded By Councillor Dunn

That Report CEM2020-002, **Kawartha Lakes Cemetery Board Annual Report and 2020 Work Plan**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.3 PRC2020-001

Kawartha Lakes Parks Advisory Committee Annual Report and 2020 Work Plan

LeAnn Donnelly, Executive Assistant, Community Services
Council Representatives - Mayor Letham, Councillor Seymour-Fagan and Councillor Richardson

CW2020-049

Moved By Councillor Seymour-Fagan

Seconded By Councillor Richardson

That Report PRC 2020-001, **Parks Advisory Committee Annual Report and 2020 Work Plan**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.4 PRC2020-004

Fenelon Falls Museum Board Annual Report and 2020 Work Plan

LeAnn Donnelly, Executive Assistant, Community Services

Council Representative - Councillor Elmslie

CW2020-050

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That Report PRC 2020-004, **Fenelon Falls Museum Board Annual Report and 2020 Work Plan**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.5 PLAN2020-008

Kawartha Lakes Environmental Advisory Committee (CKLEAC) 2020 Work Plan

Richard Holy, Manager of Planning

Council Representative - Councillor Richardson

CW2020-051

Moved By Councillor Richardson

Seconded By Deputy Mayor O'Reilly

That Report PLAN2020-008, **Environmental Advisory Committee (CKLEAC) 2020 Workplan**, be received;

That the 2020 proposed Environmental Advisory Committee Work Plan as outlined in Appendix B to Report PLAN2020-008 be approved; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.6 ED2020-006

Municipal Heritage Committee 2020 Work Plan

Emily Turner, Economic Development Officer – Heritage Planning
Council Representative - Councillor Ashmore

CW2020-052

Moved By Councillor Ashmore

Seconded By Councillor Yeo

That Report ED2020-006, **Municipal Heritage Committee Work Plan**, be received;

That the 2020 Municipal Heritage Committee Work Plan as outlined in Appendix B be approved; and

That this recommendation be brought forward to Council for its consideration at the next Regular Council Meeting.

Carried

6.1.7 ED2020-010

Downtown Revitalization Committee 2020 Work Plan

Carlie Arbour, Economic Development Officer - Community
Council Representative - Mayor Letham

CW2020-053

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That Report ED2020-010, **Downtown Revitalization Committee Annual Report and 2020 Workplan**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.8 ED2020-013

Agricultural Development Advisory Committee 2020 Work Plan

Kelly Maloney, Economic Development Officer - Agriculture
Council Representative - Councillor Veale

CW2020-054

Moved By Councillor Veale

Seconded By Councillor Yeo

That Report **ED2020-013, Agricultural Development Advisory Committee 2020 Work Plan**, be received;

That the Agricultural Development Advisory Committee 2020 Work Plan as outlined in Appendix B to Report ED2020-013 be approved; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.9 WM2020-004

Fenelon Landfill Public Review Committee 2019 Work Summary and 2020 Work Plan

Nikki Payne, Waste Technician II
Council Representative - Councillor Elmslie

CW2020-055

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That Report WM2020-004, **Fenelon Landfill Public Review Committee 2019 Work Summary and 2020 Work Plan**, be received;

That the 2020 Fenelon Landfill Public Review Committee Work Plan, as outlined in Appendix "A" to Report WM2020-004, be approved; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.10 WM2020-005

Lindsay Ops Landfill Public Review Committee 2019 Work Summary and 2020 Work Plan

Kerri Snoddy, Regulatory Compliance Officer
Council Representative - Councillor Dunn

CW2020-056

Moved By Councillor Dunn

Seconded By Councillor Elmslie

That Report WM2020-005, **Lindsay Ops Landfill Public Review Committee 2019 Work Summary and 2020 Work Plan**, be received;

That the 2020 Lindsay Ops Public Review Committee Work Plan attached to this report as Appendix A be approved by Council; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.11 WM2020-006

Waste Management Advisory Committee 2019 Work Summary and 2020 Work Plan

David Kerr, Manager Environmental Services
Council Representatives - Councillor Ashmore, Councillor Veale, Councillor Yeo

CW2020-057

Moved By Councillor Yeo

Seconded By Councillor Veale

That Report WM2020-006, **Waste Management Advisory Committee 2019 Work Summary and 2020 Work Plan**, be received;

That 2020 Waste Management Advisory Committee Work Plan attached to this report as Appendix A be approved by Council; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.12 ENG2020-006

Kawartha Lakes Airport Advisory Board Annual Report and 2020 Work Plan

Lisa Peimann, Executive Assistant, Engineering and Corporate Assets
Council Representative - Councillor Dunn

CW2020-058

Moved By Councillor Dunn

Seconded By Councillor Elmslie

That Report ENG2020-006, **Kawartha Lakes Airport Advisory Committee Annual Report and 2020 Work Plan**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.13 RS2020-001

Proposed Surplus Declaration, Closure and Sale of Shoreline Road Allowance adjacent to 8 Black River Road, Dalton

Bonnie Evans, Law Clerk – Realty Services

CW2020--059

Moved By Councillor Yeo

Seconded By Councillor Dunn

That Report RS2020-001, **Proposed Surplus Declaration, Closure and Sale of the Shoreline Road Allowance adjacent to 8 Black River Road, Dalton**, be received;

That the subject property, being the shoreline road allowance adjacent to 8 Black River Road, Dalton and legally described as Part of the Shoreline Road Allowance, Part of Lot 31, Concession 13, in the Geographic Township of Dalton, City of Kawartha Lakes, be declared surplus to municipal needs;

That the closure of the subject shoreline road allowance and sale to the adjoining landowner be supported, in principle, in accordance with the provisions of By-Law 2018-020, as amended, and the Municipal Act, 2001, and subject to the parties entering into a conditional Agreement of Purchase and Sale;

That staff be directed to commence the process to stop up and close the said portion of road allowance;

That a by-law (with any amendments deemed necessary) to close the road and authorize its disposition shall be passed if appropriate;

That the Mayor and Clerk be authorized to sign all documents to facilitate the road closing and conveyance of the lands; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.14 RS2020-002

Land Disposition Procedure

Robyn Carlson, City Solicitor

CW2020-060

Moved By Councillor Dunn

Seconded By Councillor Yeo

That Report RS2020-002, **Land Disposition Procedure**, be received;

That By-law 2018-020 be amended to require that, for all properties that are for sale subject to appraisal, a report containing the appraisal be presented to Council prior to final disposition of the property;

That an amending by-law be put before Council; and

That these recommendations be forwarded to the agenda for the next Council meeting for adoption.

Carried

6.1.15 RS2020-003

180 Kent Street Lease - Innovation Cluster

Robyn Carlson, City Solicitor

CW2020-061

Moved By Councillor Elmslie

Seconded By Councillor Veale

That Report RS2020-003, **180 Kent Street Lease – Innovation Cluster**, be received;

That the Mayor and Clerk be authorized to execute the Lease Agreement attached as Appendix A on behalf of the Corporation of the City of Kawartha Lakes, being a Lease Agreement with the Innovation Cluster, Peterborough and the Kawarthas; and

That these recommendations be forwarded to the agenda for the next Council meeting for adoption.

Carried

6.1.16 LGL2020-005

**Rescind Council Policy C169-CAO-041 Being a Protocol to Address
Dormant Outstanding Council Resolutions for the Land Management
Department**

Robyn Carlson, City Solicitor

CW2020-062

Moved By Councillor Seymour-Fagan

Seconded By Councillor Richardson

That Report RS2020-005, **Rescind Council Policy C169-CAO-041**, be received;

That Council rescind the Council Policy C169-CAO-041: Protocol to Address Dormant Outstanding Council Resolutions for the Land Management Department; and

That these recommendations be forwarded to the agenda for the next Council meeting for adoption.

Carried

6.1.17 LGL2020-006

**Rescind Council Policy 102-CAO-019 Being the Protocol for the Collection
and Write-off for Provincial Offences Act Fines**

Robyn Carlson, City Solicitor

CW2020-063

Moved By Deputy Mayor O'Reilly

Seconded By Councillor Richardson

That Report RS2020-006, **Rescind Council Policy 102-CAO-019**, be received;

That Council rescind the Council Policy 102-CAO-019: Collection and Write-off for Provincial Offences Act Fines; and

That these recommendations be forwarded to the agenda for the next Council meeting for adoption.

Carried

6.1.18 CORP2020-002

Special Rate Area Tax Levy Review

Linda J. Liotti, Manager, Revenue and Taxation

CW2020-064

Moved By Councillor Yeo

Seconded By Deputy Mayor O'Reilly

That Report CORP2020-002, **Special Rate Area (SRA) Tax Levy Review**, be received.

Carried

CW2020-065

Moved By Councillor Yeo

Seconded By Councillor Seymour-Fagan

That street lights be moved from the Special Rate Area Tax Levy to the General Rate Tax Levy;

That the Special Rate Area Tax Levy for street lights be phased into the General Rate Tax Levy over the next four year assessment period; and

That these recommendations be forwarded to Council for consideration at the next Regular Council meeting.

Carried

6.1.19 CORP2020-003

2019 Q4 Capital Close

Nicole Owens, Junior Accountant

CR2020-066

Moved By Councillor Elmslie

Seconded By Councillor Richardson

That Report CORP2020-003, **2019 Q4 Capital Close**, be received;

That the capital projects identified in Attachment A to Report CORP2020-003 be approved to be closed due to completion;

That the balances in the table below as per Attachment A be transferred to or from the corresponding reserves;

Capital Projects Reserve	\$1,155,055.61
Police Reserves	\$59,242.53

That the following projects be granted an extension to June 30, 2020:

- 928171901 – P&R Software M/Y 2017-19
- 932170201 – Bethany Fire Hall Replacement M/Y 2017-19
- 932172201 - Coboconk Fire Hall Upgrades
- 953180100 – B&P Facilities

That the following projects be granted an extension to December 31, 2020:

- 928151500 – ERP System M/Y 2015-19
- 997130801 – Eldon Landfill
- 953170501 – 68 Lindsay St M/Y 2017-19
- 998170300 – Water Distribution & WW Collection
- 983170800 – WWW Road Restoration
- 983160600 – Urban/Rural Reconstruction
- 997166101 – Pump Chamber Construction
- 998160201 – Water Operating Monitoring System
- 998160501 – Pinewood Production Well
- 998160801 – Fenelon Falls Water main Upgrades
- 998161101 – Peel/York Water main Design
- 998161501 – Wastewater Operating Monitoring System
- 983170100 – Bridges
- 983170300 – Urban/Rural Reconstruction
- 998170100 – Water main Replacement
- 932180100 – Fire Facilities
- 932180300 – Fire Equipment
- 950180100 – Parkland Siteworks
- 950180200 – Parkland Facilities
- 983180100 - Bridges

- 983180300 – Urban/Rural Reconstruction
- 983180700 – Road Lifecycle Extension
- 983181100 – Traffic Signal Program
- 983181200 – Parking Lots
- 998180300 – Water Distribution & WW Collection
- 998180400 – Water Treatment Program
- 998180500 – Wastewater Treatment
- 950190300 – Recreation Facilities
- 950190400 – P&R Equipment
- 950190500 – Cemetery Siteworks
- 953190100 – B&P Facilities

That project 950180306 – Bike Repair/Tire Pump Station be reclassified as a multi-year project as funding was secured through the 2020 Special Project Budget;

That project 953180119 – Old Gaole Wall be reclassified as a multi-year project with a closing date of June 30, 2021;

That project 953200501- City Hall Systems M/Y 2020-22 be closed and \$400,000 be transferred to 953180102 – City Hall Systems M/Y 2018-21; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.20 ED2020-008

Listing Properties on the Heritage Register

Emily Turner, Economic Development Officer - Heritage Planning

CW2020-067

Moved By Councillor Ashmore

Seconded By Deputy Mayor O'Reilly

That Report ED2020-008, **Listing Properties on the Heritage Register**, be received;

That the proposed listing of non-designated properties listed in Appendix A, with the exception of 91 Hartley Road, Eldon Township, be approved; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.21 HS2020-002

Employment Service System Transformation Update

Rod Sutherland, Director of Human Services

CW2020-068

Moved By Councillor Elmslie

Seconded By Councillor Seymour-Fagan

That Report HS2020-002, **Employment Service System Transformation Update**, be received for information; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.22 HH2020-002

Canada Ontario Housing Benefit

Hope Lee, Manager of Housing

CW2020-069

Moved By Councillor Elmslie

Seconded By Deputy Mayor O'Reilly

That Report HH2020-002, **Canada-Ontario Housing Benefit**, be received for information purposes; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.23 SOC2020-001

Community Drug Strategy

Jamie Clysdale, Program Supervisor

CW2020-070

Moved By Councillor Richardson

Seconded By Councillor Seymour-Fagan

That Report SOC2020-001, **Community Drug Strategy**, be received;

That the formation of a community-based Advisory Group to support the Haliburton, Kawartha Lakes, Northumberland Drug Strategy, facilitated by City staff, be endorsed; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.24 FIRE2020-001

Emergency Management Program

Mark Pankhurst, Fire Chief

CW2020-071

Moved By Councillor Veale

Seconded By Councillor Elmslie

That Report FIRE2020-001, **Emergency Management Program**, be received;

That, in accordance with the **Emergency Management and Civil Protection Act, R.S.O. 1990, Chapter E.9**, the by-law to repeal and replace By-law 2004-157, as outlined in Appendix A to the report, be enacted to adopt the City of Kawartha Lakes Emergency Management Program and Emergency Response Plan; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.25 ENG2020-003

Update of Roads 5 year Plan

Mike Farquhar, Supervisor of Technical Services

CW2020-072

Moved By Councillor Elmslie

Seconded By Councillor Seymour-Fagan

That Report ENG2020-003, **Update of the Roads 5 Year Plan**, be received;
and,

That this recommendation be forwarded to the agenda for the next Council meeting for adoption.

Carried

6.1.26 WM2020-002

Review of Tire Collection at City Landfills

David Kerr, Manager Environmental Services

CW2020-073

Moved By Councillor Elmslie

Seconded By Councillor Yeo

That Report WM2020-002, **Review of tire collection at City landfills**, be received;

That Staff communicates and educates customers to use producer operated collection sites for tire recycling;

That Kawartha Lakes stops accepting tires for recycling at the City's landfill sites as of July 1, 2020; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.27 WWW2020-002

Septage Disposal Rate Review

Robert MacPherson, Water and Wastewater Technician

CW2020-074

Moved By Councillor Yeo

Seconded By Councillor Dunn

That Report WWW2020-002, **Septage Disposal Rate Review**, be received;

That Staff be directed to prepare the necessary amendments to **Schedule B** of By-law 2018-039 "**A By-law to Regulate Water and Wastewater Services in Kawartha Lakes**", attached as Appendix A to Report WWW2020-002;

That staff review rates in five (5) years and report to Council if any adjustments are recommended; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.1.28 WWW2020-003

Water and Wastewater Services Costing Review

Robert MacPherson, Water and Wastewater Technician

CW2020-075

Moved By Councillor Elmslie

Seconded By Deputy Mayor O'Reilly

That Report WWW2020-003, **Water and Wastewater Services Costing Review**, be received; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.2 Correspondence

6.2.1 COW2020-03.6.2.1

Off Road Vehicles on Boundary Roads

Elana Arthurs, Clerk, Township of Cavan Monaghan

CW2020-076

Moved By Councillor Yeo

Seconded By Councillor Richardson

That the January 24, 2020 correspondence from the Township of Cavan Monaghan, regarding **off-road vehicles on boundary roads**, be received and referred to staff for a report back at the May 12, 2020 Committee of the Whole meeting; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.2.2 COW2020-03.6.2.2

Bill 156, Security from Trespass and Protecting Food Safety Act

Barry Baxter, President, Kawartha Lake Haliburton Federation of Agriculture

CW2020-077

Moved By Councillor Richardson

Seconded By Councillor Dunn

That the correspondence from Barry Baxter, President, Kawartha Lakes Haliburton Federation of Agriculture, **regarding Bill 156, Security from Trespass and Protecting Food Safety Act**, be received;

That Council supports the new proposed legislation, Bill 156: Security from Trespass and Protecting Food Safety Act;

That this resolution be forwarded to the Honourable Ernie Hardeman, Minister of Agriculture, Food and Rural Affairs; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.2.3 COW2020-03.6.2.3

Petition to Amend By-law 2018-196, being an Amendment to City of Kawartha Lakes By-law 2012-173, A By-law to Regulate Parking

Ann Davidson, President, Country Club Heights Association

Brian Brethour, Resident of Country Club Heights

CW2020-078

Moved By Councillor Seymour-Fagan

Seconded By Councillor Veale

That the February 13, 2020 correspondence from Ann Davidson and Brian Brethour, of Country Club Heights Association, **regarding a petition to amend by-law 2018-196**, be received and referred to staff for report back at the April 7, 2020 Committee of the Whole meeting; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

6.2.4 COW2020-03.6.2.4

Memorandum Regarding Increased Fees and Regulation Adjustments at Centennial Park

Councillor Yeo

CW2020-079

Moved By Councillor Yeo

Seconded By Deputy Mayor O'Reilly

That the memorandum from Councillor Yeo, regarding **Increased Fees and Regulation Adjustments at Centennial Park**, be received;

That staff generate a report for Council outlining the rationale behind the increased fees/regulation adjustments and bring forward options to phase in, or restructure, new fees for park users;

That staff deliver the report to Council at the April, 2020 Council Meeting; and

That these recommendations be brought forward to the next Regular Council meeting for consideration.

Carried

6.3 Items Extracted from Consent

7. Closed Session

8. Matters from Closed Session

9. Adjournment

CW2020-080

Moved By Councillor Yeo

Seconded By Deputy Mayor O'Reilly

That the Committee of the Whole Meeting adjourn at 4:23 p.m.

Carried

Andy Letham, Mayor

Cathie Ritchie, City Clerk

The Corporation of the City of Kawartha Lakes
Minutes
Planning Advisory Committee Meeting

PC2020-02
Wednesday, March 11, 2020
1:00 P.M.
Council Chambers
City Hall
26 Francis Street, Lindsay, Ontario K9V 5R8

Members:
Mayor Andy Letham
Deputy Mayor Patrick O'Reilly
Councillor Kathleen Seymour-Fagan
Councillor Andrew Veale
Mike Barkwell
Tammy Smith
Jason Willock

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1. Call to Order and Adoption of Agenda

Chairperson Deputy Mayor O'Reilly called the meeting to order at 1:00 p.m. Mayor A. Letham, Councillors K. Seymour-Fagan, and M. Barkwell, and T. Smith, were in attendance.

Deputy Clerk and Recording Secretary J. Watts, Director of Development Services C. Marshall, Supervisor of Development Planning S. Rea, and Planners II A. Kalnina and M. LaHay were also in attendance.

Absent: Councillor A. Veale, and J. Willock

The Chair opened the meeting and introduced Planning Advisory Committee and the members of staff present, and welcomed the visiting third year Ecosystem Management Technology Program students from Fleming College taking an Urban and Regional Planning course.

PAC-006

Moved By Mayor Letham

Seconded By Councillor Seymour-Fagan

That the agenda for the Wednesday, March 11, 2020 Planning Advisory Committee Meeting be adopted as circulated.

Carried

2. Declarations of Pecuniary Interest

There were no declarations of pecuniary interest disclosed.

3. Public Meeting

3.1 PLAN2020-007

Anna Kalnina, Planner II

Official Plan and Zoning By-law Amendments to facilitate a residential severance of an existing dwelling (2152 City Road 36)

The Chair requested staff to advise on the manner of giving notice for the proposed Official Plan and Zoning By-law Amendments. He also asked staff to briefly describe the proposal and summarize the correspondence, if any, received to date.

Ms. Kalnina confirmed that the required notice was given in accordance with the Planning Act and circulated to each owner of land within 500 metres, and a sign

was posted on the subject property. She summarized the application, explaining that it proposes to facilitate a severance of an existing dwelling from the existing recreational commercial operation. The proposed residential lot would be approximately 1.8 hectares and the retained lands would be approximately 46.7 hectares. The existing recreational commercial operation is not intended to be affected by the severance. The application is consistent with the 2017 Provincial Policy Statement, conforms to the 2019 Growth Plan. Ms. Kalnina summarized the comments received to date, as detailed in her report, noting that subsequent to the writing of the report additional comments were received from members of the public asking about operations of the park, and if this severance would facilitate further expansion of the park. Staff are recommending that the application be referred back to staff for further review and processing until such time that all comments have been received from all circulated agencies and City departments (including the Agriculture Development Officer), and that any comments and concerns have been addressed. She responded to questions from Committee members.

The Chair inquired if the applicant wished to speak to the application.

Beverly Saunders of EcoVue Consulting, spoke as the applicant on behalf of the owner. She noted the severed residence is outside the floodplain of the Dunsford Creek. They also have provided an agricultural impact assessment, and are awaiting the comments, noting that there is no existing agricultural uses currently. She concluded that there was no plan to expand the park, and that this application was to remove the residence, and allow for provisions to allow for the expansion of the home on the severed lot.

The Chair inquired if anyone wished to speak to the application.

No other persons spoke to the application.

3.2 PLAN2020-010

Mark LaHay, Planner II

An application to amend the City of Kawartha Lakes Official Plan and Township of Emily Zoning By-law 1996-30 (88 Centreline Road)

The Chair requested staff to advise on the manner of giving notice for the proposed Official Plan and Zoning By-law Amendments. He also asked staff to briefly describe the proposal and summarize the correspondence, if any, received to date.

Mr. LaHay confirmed that the required notice was given in accordance with the Planning Act and circulated to each owner of land within 500 metres, and a sign was posted on the subject property. He summarized the application, explaining that it proposes to redesignate approximately 1.2 ha. (3 ac.) of the northern portion of the subject land from "Rural" to "Rural" with a "Special Policy Area" to permit the existing second detached dwelling (addressed as 94 Centreline Road) to be severed, and to rezone this portion of the subject land from Agricultural (A1) to an Agricultural (A1-*) Exception Zone with appropriate zone provisions for a rural residential use and to rezone the balance of the approximately 6.7 ha. (16.6 ac.) of the subject land proposed to be retained from Agricultural (A1) to an Agricultural (A1-*) Exception Zone with appropriate uses and zone provisions to recognize the existing accessory buildings and detached dwelling addressed as 88 Centreline Road. The application is consistent with the 2017 Provincial Policy Statement, conforms to the 2019 Growth Plan and generally conforms to the Kawartha Lakes Official Plan. Mr. LaHay summarized the comments received to date, as detailed in his report, noting that subsequent to the writing of the report additional comments were received from property owners on Evergreen Street with questions on access and right of way. Comments were also received from the City's Agricultural Development Officer noting that they were not supportive of the application as it may remove some lands from agricultural uses, however Mr. LaHay noted that no agricultural uses are currently present on the property. With respect to all the comments made and received, staff are altering the recommendation on the report, and are recommending that the application be referred to Council for approval. Director Marshall and Mr. LaHay responded to questions from Committee members.

The Chair inquired if the applicant wished to speak to the application.

Tom deBoer of TD consulting spoke as the applicant on behalf of the owner. He expressed his concern with the various delays of this application, including the dates of when the external agencies received the report for their review. He stated that a deferral would be unwarranted, and supported the altered recommendation. He responded to questions from Committee members.

The Chair inquired if anyone wished to speak to the application.

Scott MacEachern, of 120 Centreline Road, expressed concerns about access along the property to Evergreen Street, and the gate that had been installed, noting the previous historical uses of the right of way.

David Scott, of 24 Evergreen Street, also expressed access concerns about the right of way access, and the gate that had been constructed. He also asked questions about the significant woodlands and wetlands on the property and if they would be protected.

Glen Ortiz, of 20 Charlotte Crescent, noted the previous agricultural uses on the property about 5-7 years ago. He noted that he didn't want to see any change of previous uses.

David Prince, of 2 Evergreen Street, noted concerns about the drainage off the subject property to his property and other on Evergreen Street. He also noted concerns about the removal of trees on the property.

No other persons spoke to the application.

3.3 PLAN2020-011

Mark LaHay, Planner II

An application to amend the Township of Manvers Zoning By-law 87-06 (281 Pigeon Creek Road)

The Chair requested staff to advise on the manner of giving notice for the proposed Zoning By-law Amendment. He also asked staff to briefly describe the proposal and summarize the correspondence, if any, received to date.

Mr. LaHay confirmed that the required notice was given in accordance with the Planning Act and circulated to each owner of land within 500 metres in the rural area and to each owner of land within 120 metres in the urban area, and a sign was posted on the subject property. He summarized the application, explaining that it proposes to rezone the subject land from the Open Space (O1) Zone to the Open Space Exception (O1-**) Zone. The effect of the zoning amendment is to add a single detached dwelling as an additional permitted use to be reconstructed on an existing foundation and to implement appropriate development standards. The rezoning application is the result of a building enforcement issue, whereby an "Order to Comply" has been issued. The application is consistent with the 2017 Provincial Policy Statement, appears to conform to the 2019 Growth Plan and the Kawartha Lakes Official Plan. Mr. LaHay summarized the comments received to date, as detailed in his report, noting that subsequent to the writing of the report additional comments were received from Kawartha Conservation who noted that the applicants have obtained a permit, and have no objection to the application. In consideration of these comments, and subject to no further comments raised today, staff are

recommending that the application be forwarded to Council for approval. He responded to questions from Committee members.

The Chair inquired if the applicant wished to speak to the application.

Mr. Prentice made himself available for any questions from Committee members.

The Chair inquired if anyone wished to speak to the application.

No other persons spoke to the application.

The Public Meeting concluded at 1:51 p.m.

4. Business Arising from Public Meeting

4.1 Item 3.1

PAC2020-007

Moved By Mayor Letham

Seconded By Councillor Seymour-Fagan

That Report PLAN2020-007, **respecting Part Lot 5, Concession 4, geographic Township of Verulam, Parkbridge Lifestyle Communities Inc. – Applications D01-2020-001 and D06-2020-003**, be received; and

That Report PLAN2020-007 respecting Applications D01-2020-001 and D06-2020-003 be referred back to staff to address any issues raised through the public consultation process and for further review and processing until such time that all comments have been received from all circulated agencies and City departments, and that any comments and concerns have been addressed.

Carried
c05

4.2 Item 3.2

PAC2020-008

Moved By M. Barkwell

Seconded By T. Smith

That Report PLAN2020-010, respecting Part Lots 11 and 12, Concession 7, geographic Township of Emily, Applications D01-2019-006 and D06-2019-037, be received;

That a By-law to implement an Official Plan Amendment respecting application D01-2019-006, be prepared by staff, and be referred to Council for approval and adoption;

That a Zoning By-law Amendment respecting application D06-2019-037, be prepared by staff, and be referred to Council for approval and adoption; and

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of these applications.

Carried

4.3 Item 3.3

PAC2020-009

Moved By Mayor Letham

Seconded By M. Barkwell

That Report PLAN2020-011, respecting Part Lot 5, Concession 13, geographic Township of Manvers, Application D06-2020-001, be received;

That a Zoning By-law Amendment respecting application D06-2020-001, be prepared by staff, and be referred to Council for approval and adoption; and

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of this application.

Carried

5. Deputations

6. Correspondence

7. City of Kawartha Lakes Reports

7.1 PLAN2020-006

Ian Walker, Planning Officer – Large Developments

Official Plan and Zoning By-law Amendments to permit a hotel and ancillary uses (140 Angeline Street South)

Ms. Rea noted that she was presenting today on behalf of Mr. Walker. She confirmed that a Public Meeting on this matter was held on November 6, 2019 in accordance with the Planning Act. She summarized the application, explaining that it proposes to change the land use designation from the 'Residential'

designation to the 'General Commercial' designation and to change the zone category from the 'Residential One (R1) Zone' to the 'General Commercial Special Thirteen (GC-S13) Zone', to permit a range of commercial uses appropriate for the site, including a five storey, up to 80 unit hotel with ancillary uses such as a restaurant, and site-specific development standards relating to height and setbacks. The application is consistent with the 2017 Provincial Policy Statement, conforms to the 2019 Growth Plan. Ms. Rea summarized the comments received to date, as detailed in Mr. Walker's report Staff are recommending that the application be referred to Council for approval.

PAC2020-010

Moved By Mayor Letham

Seconded By Councillor Seymour-Fagan

That Report PLAN2020-006, **Part of Lot 18, Concession 5, Former Town of Lindsay, DDB Investment Group Limited – Applications D01-2019-003 and D06-2019-029**, be received;

That a By-law to implement the proposed Official Plan Amendment, substantially in the form attached as Appendix C to Report PLAN2020-006, be referred to Council for adoption;

That the zoning by-law amendment, substantially in the form attached as Appendix D to Report PLAN2020-006, be referred to Council for approval and adoption; and

That the Mayor and Clerk be authorized to execute any documents required by the approval of these applications.

Carried

8. Adjournment

PAC2020-011

Moved By M. Barkwell

Seconded By T. Smith

That the Planning Advisory Committee Meeting adjourn at 1:57 p.m.

Carried

The Corporation of the City of Kawartha Lakes

Council Report

Report Number ENG2020-005

Meeting Date: March 24, 2020

Title: **Water and Sanitary Servicing to #68 and #70 Russell Street West, Lindsay**

Description: Water and Sanitary Servicing to #68 and #70 Russell Street West, Lindsay

Ward Number: Ward 7

Author and Title: Juan Rojas, Director of Engineering & Corporate Assets

Recommendation(s):

That Report ENG2020- Water and Sanitary Servicing to #68 and #70 Russell Street West, Lindsay, be received;

That an exemption to Section 7.01 (j) of By-Law 2018-039, being a By-Law To Regulate Water and Wastewater Services in the City of Kawartha Lakes, for vacant property at #70 Russell Street West, Lindsay, be approved by Council and fixed rates fees applied from October 2019 be refunded to the Owner; and

That if the Owner applies for a Municipal Service Connection for a single residential water and sanitary sewer service within a 10 year period from the date of removal of the services, and prior to December 31, 2029, the City will replace the single set of residential water and sanitary service laterals to property line of #68 and/or #70 Russell Street West, Lindsay, to serve one residential unit/lot, at the City's expense; and

That Frontage Charges shall be deemed to have been paid for #68 and #70 Russell Street West, Lindsay; and

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of this report.

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

At the Council Meeting of March 26, 2019, Council adopted the following resolution:

CR2019-244

That Report PUR2019-009, 2019-31-CQ Peel St and Russell St Reconstruction, be received;

That Coco Paving be awarded 2019-31-CQ Peel St and Russell St Reconstruction, for the quoted price of \$5,740,907.61;

That CIMA+ be awarded Contract Administration and Inspection Services on Peel St and Russell St Reconstruction, for the quoted price of \$289,771.70;

That subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreements to award the contract; and

That the Procurement Division be authorized to issue a Purchase Order.
Carried

During the Russell Street West reconstruction project, it was determined that although the construction contract included the replacement of the existing water and sanitary service laterals to #68 and #70 Russell Street West, the services would not be replaced as the properties are vacant (see Russell Street West reconstruction design in Appendix A). The 2 pre-existing houses at #68 and #70 were demolished in 2014-2015, and at that time, water and sanitary service laterals were permitted to remain in place to the property line (see Appendix B Location Plan).

Following the road reconstruction project, the property owner of #68 and #70 Russell Street West approached the City. The owner was concerned that the value of the properties had been impacted and that he would be responsible for unnecessary costs to replace the water and sanitary service laterals and the costs would significantly increase following the road improvements (i.e. increased road restoration costs). The owner was also receiving a utility bill from the City for both properties and was concerned for the continued fee, as the services no longer exist to the property line. It was determined after investigation that #68 had mistakenly been captured through the mandatory connection process and has been receiving a bill since January 1, 2018 when the fixed water and sewer rates were imposed on properties subject to the Mandatory Connection By-law. This was an error as the property is vacant and has since been corrected, with the current account for #68 being deactivated and all fees paid since January 1, 2018 will be refunded to the property owner. In addition, the original utility billing account had been deactivated (in 2004) prior to Section 7.01 (j) requirements being imposed in By-law 2018-039 (originally 2011-260) as it relates to

demolished buildings, therefore there has been no fees paid for this property since 2004.

This report addresses a recommended water and sanitary servicing strategy for #68 and #70 Russell Street West and associated fees.

Rationale:

The City does not extend new water and sanitary service laterals to vacant lands where there is no scheduled development or development application and services will be left dormant for an extended period of time. There is risk of damage and deterioration of the service laterals, and could result in groundwater infiltration into the systems or undetected leaks from water services.

As per the City's By-Law 2018-039 To Regulate Water and Wastewater Services in the City of Kawartha Lakes (see Appendix C), Section 7.01 Demolition of a Building, (j) states that "*The owner shall be responsible for the payment of the fixed rate charge specified in Schedule "A" to this By-Law.*" Since the demolition of the 2 residential units, the owner has continued to pay the fixed rate charge for #70 Russell St. W. The fixed rate charge was not applied to #68 Russell Street West following the demolition, due to an administrative error, however the City re-activated the utility account in 2018 and applied the fixed rate billing.

The City recommends that since service laterals have been removed from the main to the property line, the properties at #68 and #70 Russell Street West shall be exempt from further utility billing fees for vacant property and fixed rates fees applied since October 2019, the date of service removal, be refunded to the Owner.

The City also recommends that if the Owner apply for a Municipal Service Connection to support construction, within a 10 year period from the date of removal of the services, and prior to December 31, 2029, the City will replace the single set of residential service laterals (one 19mm diameter water service and one 100mm diameter sanitary service) to property line, at the City's expense. The City realized cost savings through the reconstruction contract by not installing the service laterals. Frontage Charges shall be deemed to have been paid for the properties as residential units pre-existed on the lots. This information shall be recorded on the tax roll for future reference.

In the event that the proposed development type changes during that time period (i.e. multi residential, commercial, etc.), the Owner shall be responsible for the full costs associated with the water and sanitary service connections.

After December 31, 2029, any application for municipal water and/or sanitary service received for either #68 or #70 Russell Street West will be processed as per the standard requirements in effect at that time. During construction, staff were in contact with the owner and the owner was supportive of the resolution.

Other Alternatives Considered:

The City could proceed to re-install the water and sanitary service laterals to #68 and #70 Russell Street West through the 2020 workplan, and the owner would continue to apply the fixed rate billing as per the requirements of By-Law 2018-039, Section 7.01. As noted earlier, there is risk to the municipal servicing infrastructure if the Owner does not plan to re-develop the lots at this time and service laterals are left dormant indefinitely. There is also risk of a future lot design conflict if the location of the service laterals limit the siting a house and entrance location.

If the owner chooses to pursue an alternative development proposal, the service lateral sizes or number of services may not meet the servicing requirements of the development and will have to be removed and capped at the main.

Financial/Operation Impacts:

The City realized a cost savings through the Russell Street West Reconstruction project. The project was completed under budget and excess funds were returned to the Engineering Capital Budget for future projects. If the owner chooses to reconstruct one residential unit at properties at #68 and/or #70 Russell Street West before December 31, 2029, the City will install the residential water and sanitary service laterals through a current Capital Project.

Relationship of Recommendation(s) To The 2020-2023 Strategic Plan:

This project relates to Goal 1 by maintaining the City's existing infrastructure:

- Goal 1 – A Vibrant and Growing Economy

It also aligns with the Strategic Enablers of "Efficient Infrastructure & Asset Management" and "Responsible Fiscal Resource Management".

Servicing Implications:

There is adequate water and sanitary sewer servicing capacity for the residential development as permitted by the current zoning, at #68 and #70 Russell Street West.

Consultations:

Bryan Robinson, Director of Public Works
Amber Hayter, Supervisor Water and Wastewater Operations

Attachments:

Appendix A – Russell Street Reconstruction Design



Russell St. W.
Drawings.pdf

Appendix B – Location Plan



**Appendix A General
Location Plan 70 Ru:**

Appendix C – By-Law 2018-039



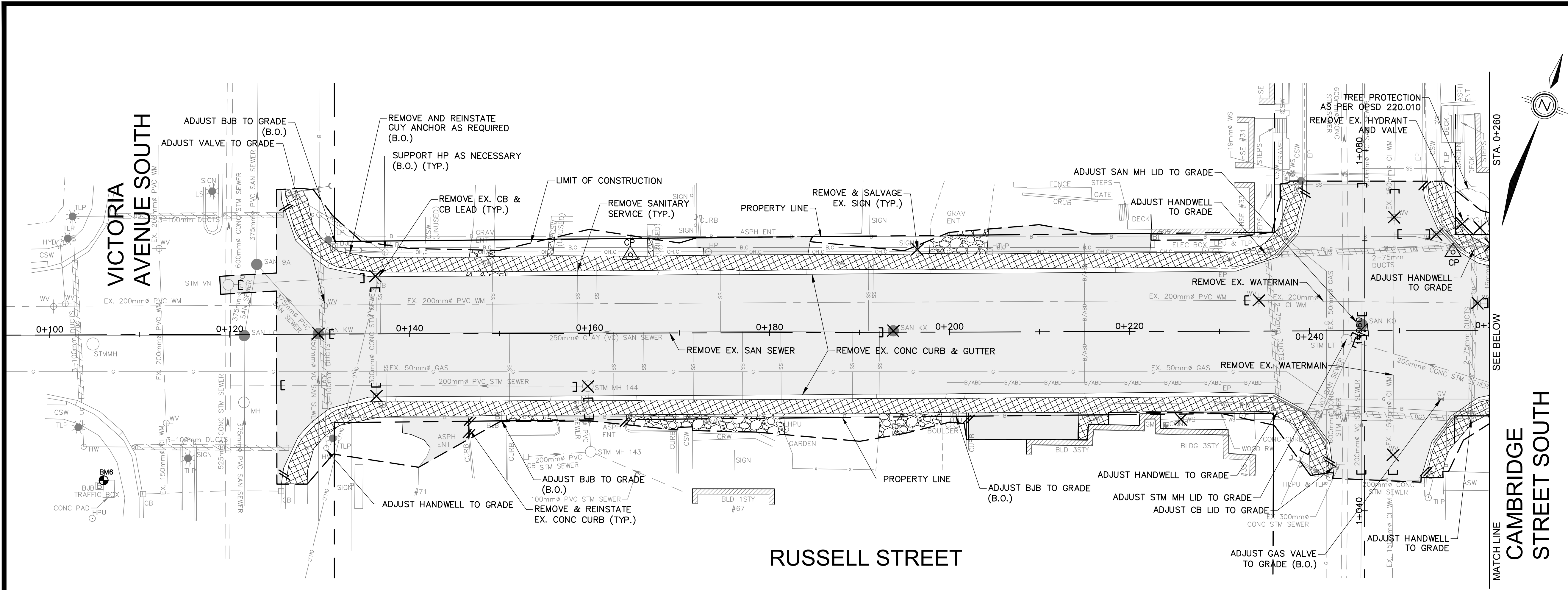
2018-039
Consolidated Bylaw

Department Head E-Mail: jrojas@kawarthalakes.ca

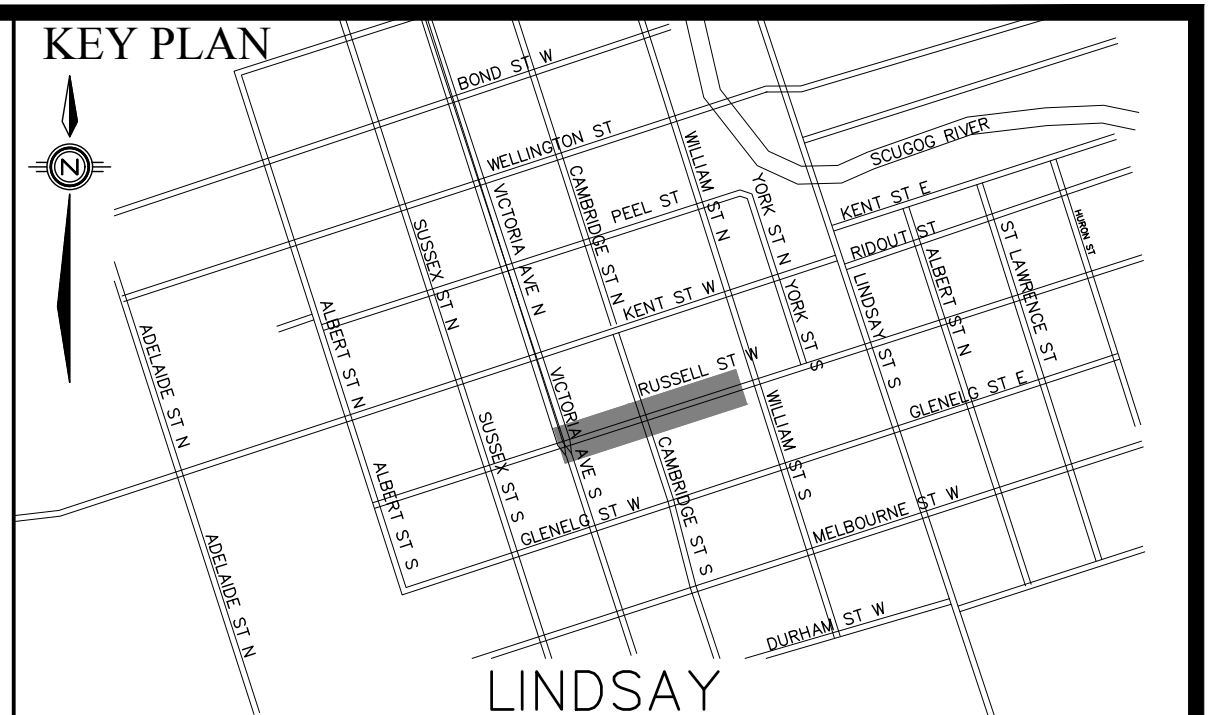
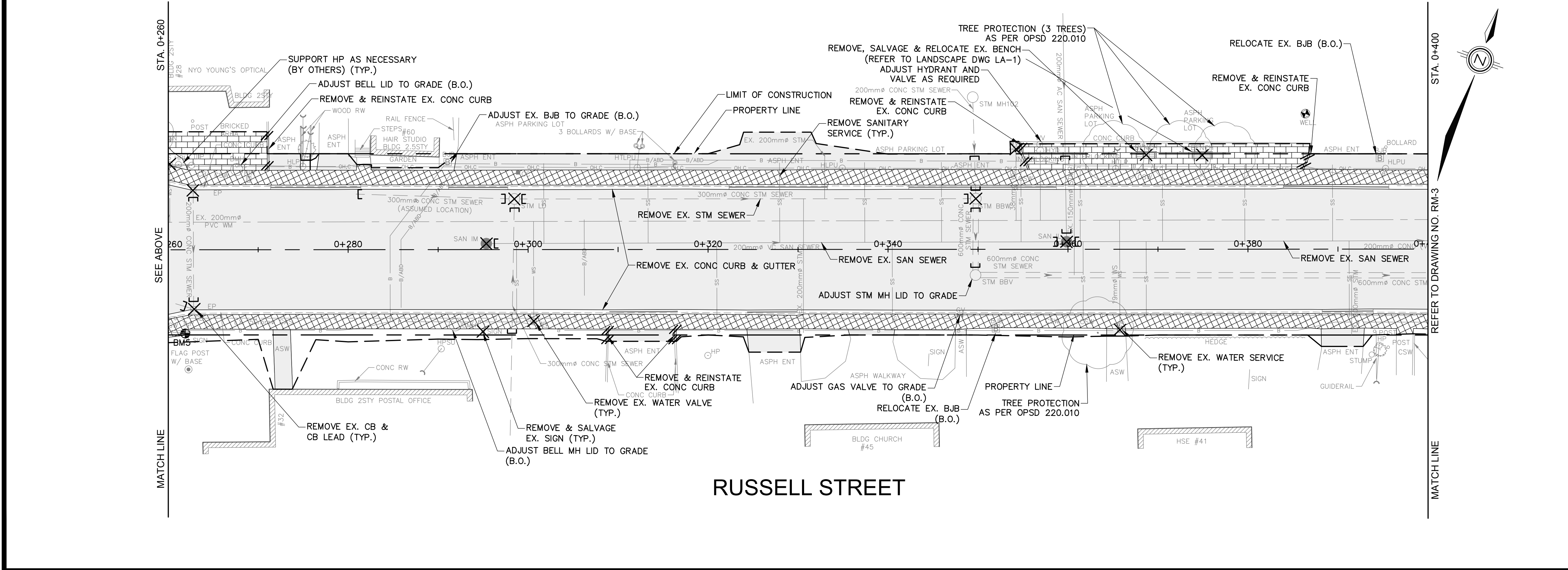
Department Head: Juan Rojas, Director of Engineering & Corporate Assets

Department File:

PLOT SCALE: 1:1 DATE PLOTTED: 2019-02-22



- NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR TRAFFIC POLE AND LIGHTING REMOVALS.
 2. EXACT LOCATION OF ALL SANITARY LATERALS AND WATER SERVICES TO BE CONFIRMED DURING CONSTRUCTION BY THE CONTRACTOR.
(NOT ALL SERVICES WERE FOUND OR ARE SHOWN ON PLANS)



LEGEND – REMOVALS

- PULVERIZE/REMOVE ASPHALT
- REMOVE CONCRETE
- REMOVE AND SALVAGE PAVING STONES
- REMOVE GRAVEL
- REMOVE EXISTING STRUCTURES
- START/END OF CONCRETE CURB & GUTTER/FENCE REMOVAL
- REMOVE PIPE

CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING FOR STAKE OUT. THE CKL AND CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

REVIEWED BY	BENCHMARK (S)
P. Eng () C.E.T./C.Tech () OTHER ()	BM5 ELEV. 259.722
PUBLIC WORKS/ENGINEERING DEPARTMENT	TOP OF NORTH WEST BOLT SECURING TRAFFIC LIGHT POLE TO BASE ON SOUTH EAST CORNER OF RUSSELL STREET AND CAMBRIDGE STREET, 4m NORTH OF FLAG POLE.
DATE:	

No.	REVISION	DATE	BY	APPROVED
1	ISSUED FOR 90% REVIEW	DEC 21/18	A.Y.	P.T.
2	ISSUED FOR TENDER	FEB 21/19	A.Y.	P.T.

KAWARTHA LAKES

PUBLIC WORKS DEPARTMENT
AND
ENGINEERING SERVICES

12 PEEL STREET
LINDSAY, ONTARIO
K9V 5R8
(705) 324-9411

ENGINEER'S STAMP

CONSULTANT

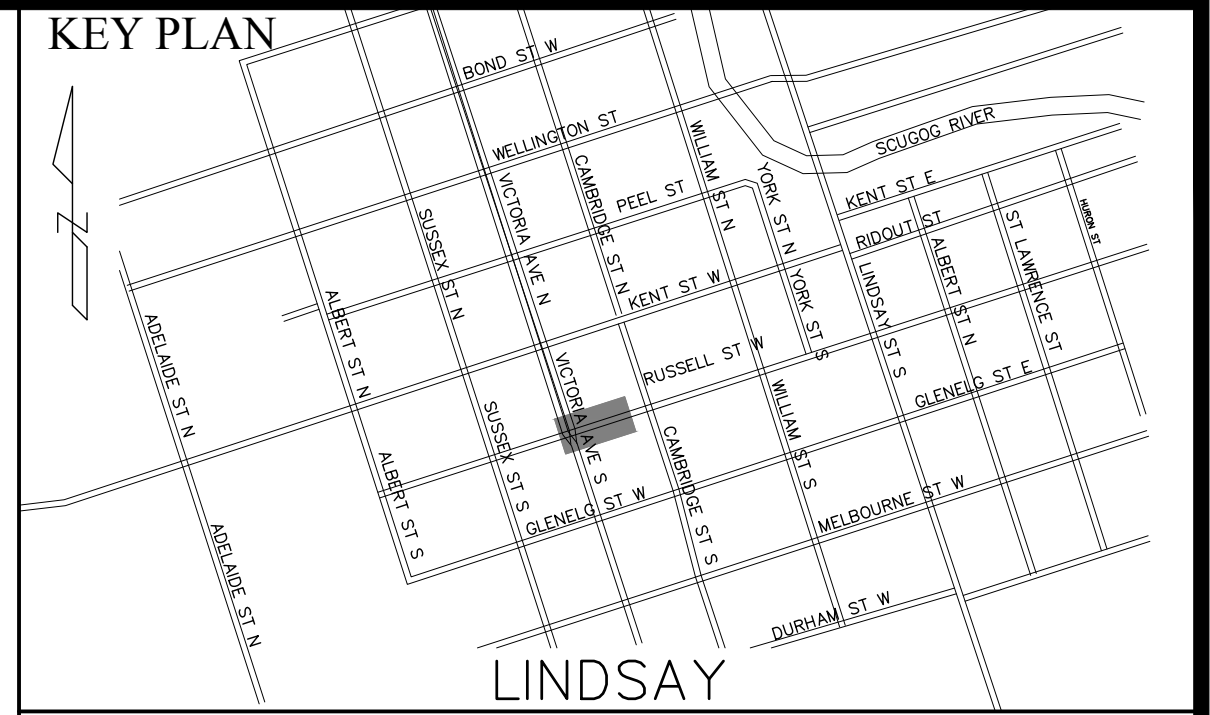
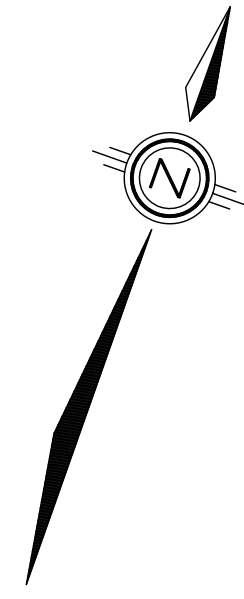
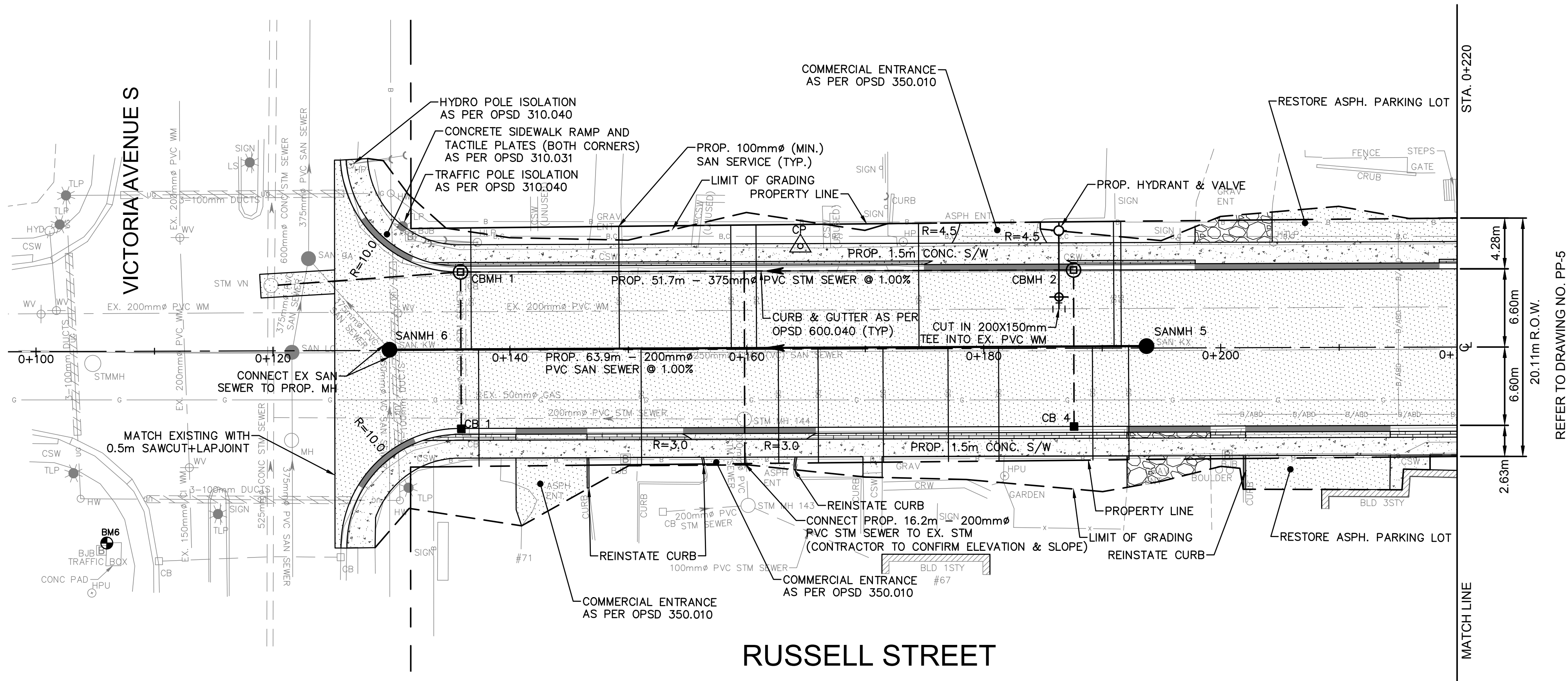
CIMA+

7: 888-888-4882
55 King Street East, Scarborough, ON L1C 1T4 CANADA

PEEL STREET AND RUSSELL STREET RECONSTRUCTION

**RUSSELL STREET REMOVALS
STA. 0+120 TO STA. 0+400**

DESIGNED BY: A. YANG	SCALES	PROJECT No: C14-0214
CHECKED BY: P. MERRETT	HORIZONTAL: 1:250	DRAWING: RM-2
DRAWN BY: A. YANG	VERTICAL:	SHEET No: 4 OF 49
DATE: FEB. 2019	CONTRACT NO. 2019-31-CQ	



- NOTES:
- EX. SAN. SERVICE LATERALS SHALL BE CONFIRMED WHETHER THEY ARE LIVE OR DEAD BY THE CONTRACTOR, PRIOR TO RE CONNECTING TO THE PROP. SAN. SEWER.
 - NOT ALL SAN. AND WATER SERVICES WERE LOCATED AND ARE THEREFORE NOT ALL SHOWN. THE CONTRACTOR SHALL LOCATE ALL SERVICES IN THE FIELD AND MAKE THE NECESSARY REPLACEMENTS AND CONNECTIONS, AS THEY ARE ENCOUNTERED DURING EXCAVATION. SERVICE SIZE (DIAMETER) SHALL BE CONFIRMED IN THE FIELD AND SHALL BE ALTERED AS NECESSARY TO MEET MINIMUM STANDARD AND/OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.


CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXIST'G U/G & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING FOR STAKE OUT. THE CKL AND CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.

REVIEWED BY		BENCHMARK (S)	
P. Eng () C.E.T./C.Tech () OTHER ()		BM5 ELEV. 259.722	
PUBLIC WORKS/ENGINEERING DEPARTMENT		TOP OF NORTH WEST BOLT SECURING	
DATE: _____		TRAFFIC LIGHT POLE TO BASE ON	
		SOUTH EAST CORNER OF RUSSELL	
		STREET AND CAMBRIDGE STREET, 4m	
		NORTH OF FLAG POLE.	

No.	REVISION	DATE	BY	APPROVED
1	ISSUED FOR 90% REVIEW	DEC 21/18	A.Y.	P.T.
2	ISSUED FOR TENDER	FEB 21/19	A.Y.	P.T.



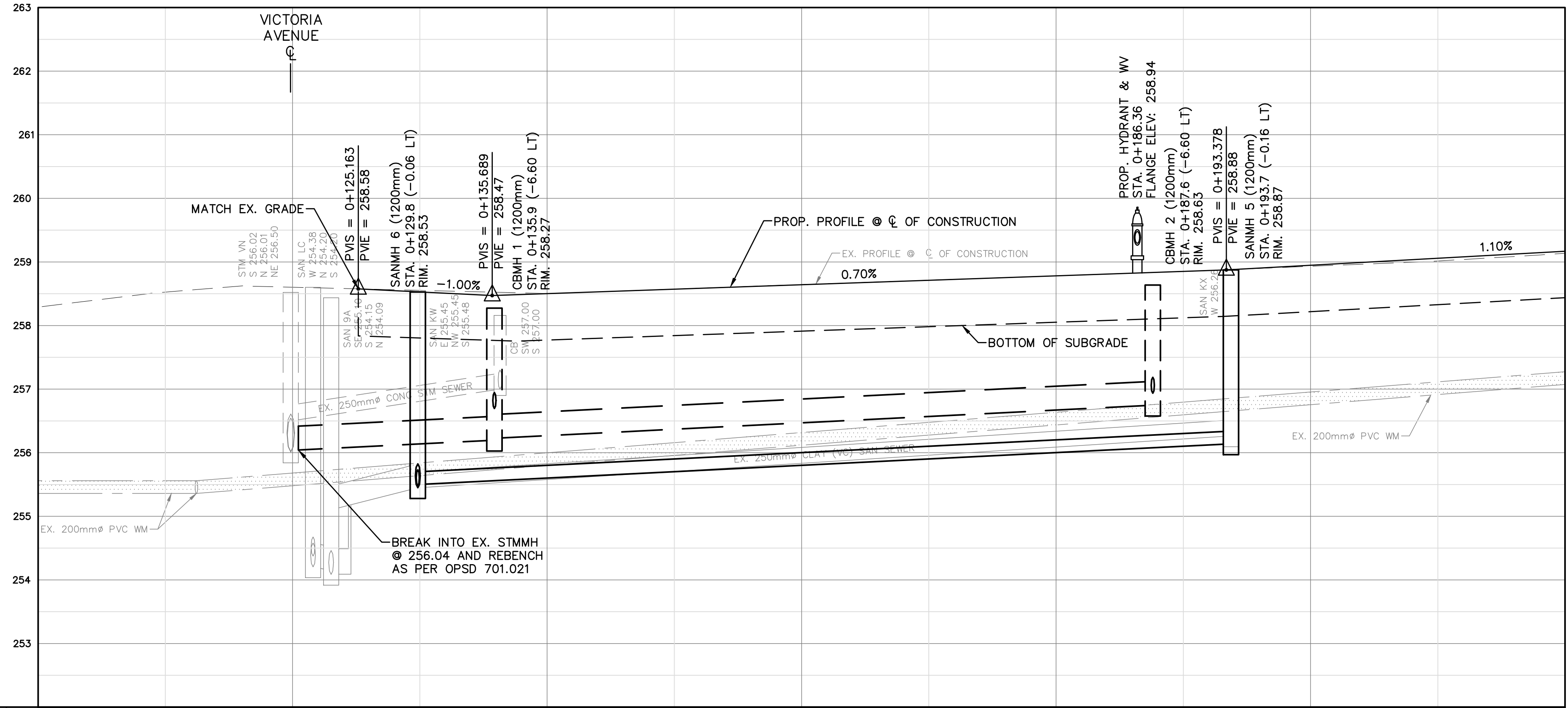
**PUBLIC WORKS DEPARTMENT
AND
ENGINEERING SERVICES**
12 PEEL STREET
LINDSAY, ONTARIO
K9V 5R8
(705) 324-9411

ENGINEER'S STAMP	CONSULTANT
 58 King Street East, Toronto, ON, L1C 1M4 CANADA T: 905-607-4064	

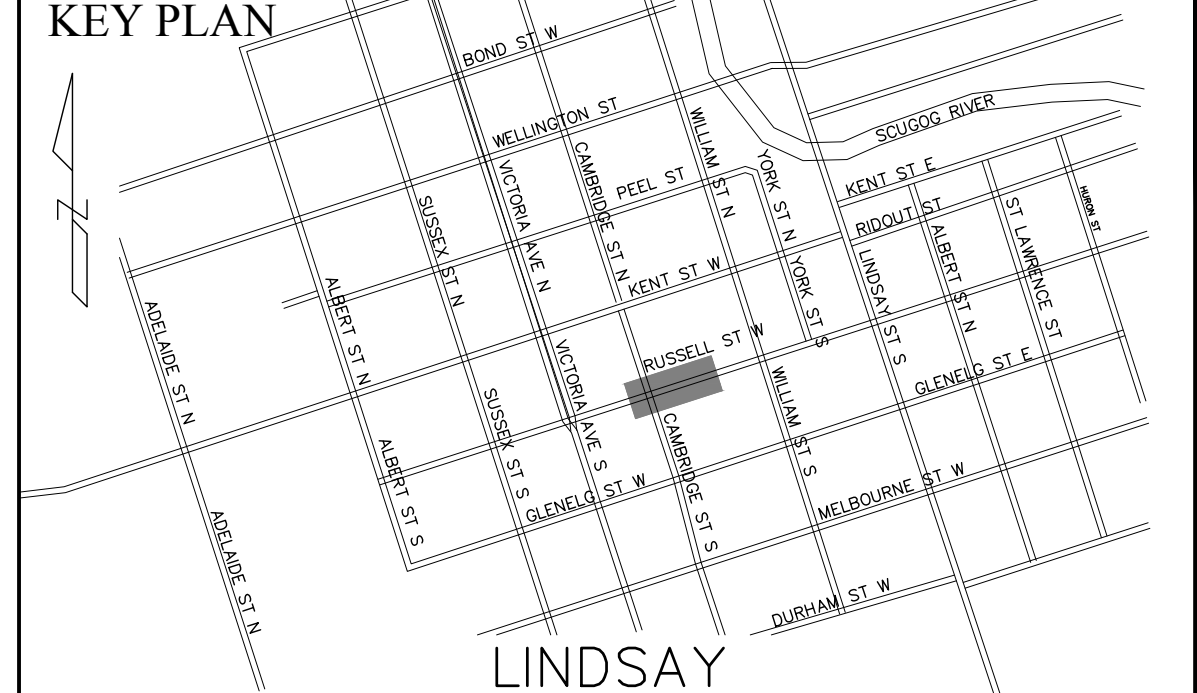
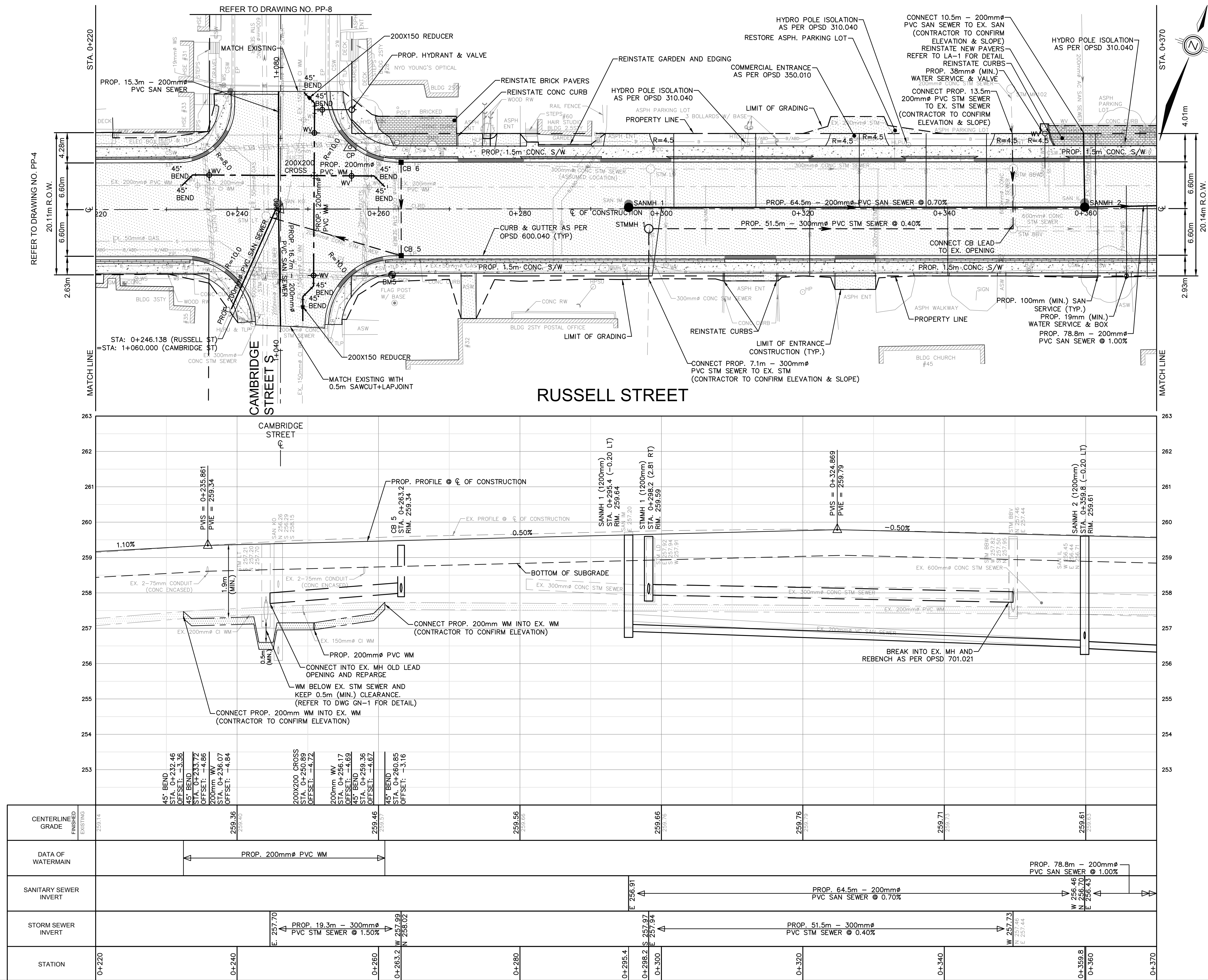
PEEL STREET AND RUSSELL STREET RECONSTRUCTION

RUSSELL STREET STA. 0+120 TO STA. 0+220

DESIGNED BY: A. YANG	SCALES HORIZONTAL: 1:250 VERTICAL: 1:50	PROJECT No: C14-0214
CHECKED BY: P. MERRETT		DRAWING: PP-4
DRAWN BY: A. YANG		SHEET No: 9 OF 49
DATE: FEB. 2019	CONTRACT NO. 2019-31-CQ	



CENTERLINE GRADE	FINISHED	258.29	258.60	258.50	258.64	258.78	258.95	259.17	
	EXISTING								
DATA OF WATERMAIN									
SANITARY SEWER INVERT			NW 255.45 E 255.50 S 255.48		PROP. 63.9m - 200mmØ PVC SAN SEWER @ 1.00%				
STORM SEWER INVERT		N 256.01 E 256.04 S 256.02	PROP. 15.4m - 375mmØ PVC STM SEWER @ 1.00%	SW 256.20 E 256.70 S 256.23	PROP. 51.7m - 375mmØ PVC STM SEWER @ 1.00%				
STATION		0+120	0+129.8	0+135.9	0+140	0+160	0+180	0+200	0+220

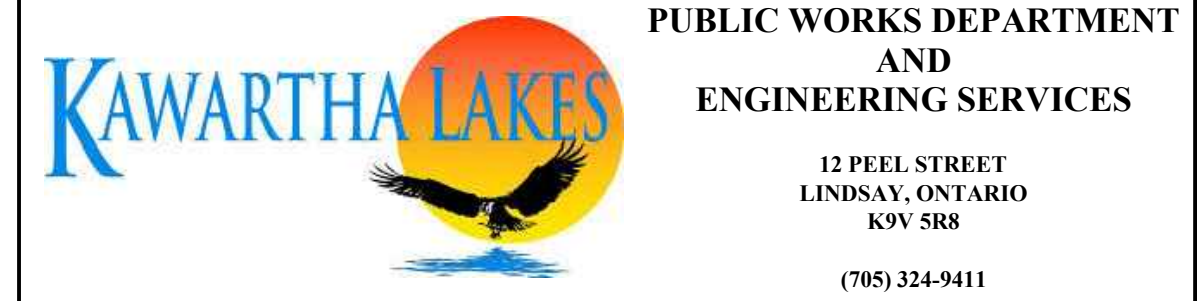


- NOTES:**
- EX. SAN. SERVICE LATERALS SHALL BE CONFIRMED WHETHER THEY ARE LIVE OR DEAD BY THE CONTRACTOR, PRIOR TO RE CONNECTING TO THE PROP. SAN. SEWER.
 - NOT ALL SAN. AND WATER SERVICES WERE LOCATED AND ARE THEREFORE NOT ALL SHOWN. THE CONTRACTOR SHALL LOCATE ALL SERVICES IN THE FIELD AND MAKE THE NECESSARY REPLACEMENTS AND CONNECTIONS, AS THEY ARE ENCOUNTERED DURING EXCAVATION. SERVICE SIZE (DIAMETER) SHALL BE CONFIRMED IN THE FIELD AND SHALL BE ALTERED AS NECESSARY TO MEET MINIMUM STANDARD AND/OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.

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REVIEWED BY P. Eng () C.E.Tech () OTHER ()	BENCHMARK (S) BM5 ELEV. 259.722 TOP OF NORTH WEST BOLT SECURING TRAFFIC LIGHT POLE TO BASE ON SOUTH EAST CORNER OF RUSSELL STREET AND CAMBRIDGE STREET, 4m NORTH OF FLAG POLE.
PUBLIC WORKS/ENGINEERING DEPARTMENT	
DATE: _____	

No.	REVISION	DATE	BY	APPROVED
1	ISSUED FOR 50% REVIEW	OCT 05/18	P.M.	P.T.
2	ISSUED FOR 90% REVIEW	DEC 21/18	A.Y.	P.T.
3	ISSUED FOR TENDER	FEB 21/19	A.Y.	P.T.



ENGINEER'S STAMP	CONSULTANT
	CIMA+ 88 King Street East, Brampton, ON, L6Y 1M4 CANADA T: 905-887-4864

PEEL STREET AND RUSSELL STREET RECONSTRUCTION

RUSSELL STREET STA. 0+220 TO STA. 0+370

DESIGNED BY: A. YANG	SCALES HORIZONTAL: 1:250 VERTICAL: 1:50	PROJECT No: C14-0214
CHECKED BY: P. MERRETT		DRAWING: PP-5
DRAWN BY: A. YANG		SHEET No: 10 OF 49
DATE: FEB. 2019	CONTRACT NO. 2019-31-CQ	



THIS MAP MAY NOT BE USED FOR COMMERCIAL OR LEGAL PURPOSES

APPENDIX "B" _____
to _____
REPORT FALC 2222

The Corporation of the City of Kawartha Lakes

Office Consolidation of By-Law 2018-039

Consolidated on February 3, 2020

Passed by Council on March 6, 2018

Amendments:

1) By-law 2019-008	January 15, 2019	Section 24.00
2) By-law 2019-047	March 26, 2019	Schedule A
3) By-law 2019-172	December 10, 2019	Section 23.05
4) By-law 2020-012	January 28, 2020	Schedule A

Note: This consolidation is prepared for convenience only. For accurate reference the original by-laws should be reviewed.

The Corporation of the City of Kawartha Lakes

By-Law 2018-039

A By-law to Regulate Water and Wastewater Services in the City of Kawartha Lakes

Recitals

1. The Municipal Act, 2001, S.O. 2001, c.25 allows municipalities to pass By-laws governing public utilities and permitting the setting of fees and charges related to the supply of water and wastewater services to the public.
2. The Municipal Act, 2001, S.O. 2001, c.25, sections 79 and 80, allow a municipality to have reasonable access to buildings and land supplied with water to maintain the system.
3. The Municipal Act, 2001, S.O. 2001, c.25, section 83 allows for a municipality to require security be given for payment of the proper fees and charges for the supply of the public utility or for extending the public utility to the land.
4. It is deemed prudent to enact rules and regulations to provide for the management and general maintenance of municipal water and wastewater works and fixing the rates and charges to be paid by owners and occupiers. Also due diligent to ensure an acceptable level of service meeting or exceeding Ontario Provincial Standards, Ministry of the Environment and Climate Change Guidelines and special Conditions and Requirements of the City of Kawartha Lakes.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2018-039

Section 1.00: Definitions and Interpretation

1.01 Definitions: In this by-law,

“Agent” means a person authorized to act on another’s behalf;

“Applicant” means the owner of the premises for which water or sewage works are being sought or the authorized agent of the owner;

“Automated Meter Reading Program” means the programs or projects as may be adopted by the City, for the supply and installation of water meters and a radio communications network capable for reading, transmitting and collecting water meter readings throughout the City and includes all related equipment, software and hardware;

“Backflow Prevention Device” means a device or system that prevents backflow or back-siphonage into the waterworks and is designed to prevent contamination of the waterworks or water supply;

“Building” means a building or structure as defined in the Building Code Act;

“Building Code Act” means the Building Code Act, 1992, S.O. 1992, C. 23, as amended and includes the regulations thereunder;

“Building Permit” means a permit issued under the Ontario Building Code Act;

“By-Law” means this By-law, as may be amended from time to time. The Recitals to, and the Schedules attached to this By-Law are considered integral parts of it;

“Chief Building Official” (CBO) means the Chief Building Official, appointed pursuant to the Building Code Act;

“City”, “City of Kawartha Lakes” or “Kawartha Lakes” means The Corporation of the City of Kawartha Lakes and includes its entire geographic area;

“City Clerk” means the person appointed by Council to carry out the duties of the clerk described in section 228 of the Municipal Act, 2001;

“Connection Charge” means the charge payable when required as a condition of a severance or when a property is connected to a water and/or sanitary sewer service, to finance the installation and connection of a water or sanitary sewer service from the watermain or sewer main to the property line;

“Consolidated Fees By-Law” means By-Law 2017-203 “A By-law to Amend By-law 2016-206, the Consolidated Fees By-law in the City of Kawartha Lakes”, as amended;

“Contractor” means a person, partnership, or corporation who contracts to undertake the execution of work commissioned by the owner or the City to install or maintain mains, service mains, services, hydrants and other appurtenances. When work is undertaken on City owned property the contractor must be approved by the City;

“Council” or “City Council” means the municipal council for the City;

“Cross Connection” means any actual or potential connection between the waterworks and any source of pollution, contamination, or other material or substance that could change the quality of the water in the waterworks. This includes any bypass, jumper connection, removable section of pipe, swivel or changeover device, and any other temporary or permanent connecting arrangement through which backflow can occur. Individual protection would be installed on fixtures or appliances that have the potential of contributing to a cross connection;

“CSA-B64 Series Standards” means the Canadian Standards Association standard for Backflow Preventers and Vacuum Breakers, as amended;

“Delinquent Account” means an account for service issued by the City which remains unpaid after the due date;

“Director of Public Works” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Director of Engineering and Corporate Assets” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Dwelling Unit” means a unit that is operated as a housekeeping unit, used or intended to be used by one or more persons and usually containing cooking, eating, living, sleeping and sanitary facilities;

“Fire Code” means the Ontario Regulation 213/07 made under Part IV of the Fire Protection and Prevention Act, 1997, S.O. 1997, c.4;

“Flat Rate” is the fee charged when there is no meter available to measure consumption for billing purposes and based upon average consumptive usage of 178 m³ annually.

“Frontage” is defined as:

- (a) Where the property is zoned agriculture, the length shall be the frontage of the residential usage portion only;
- (b) Where the property is not zoned for agricultural use, the length shall be the frontage along which the main runs;
- (c) Where a property is serviced on more than one side, the length shall be calculated for the side from which the property is being serviced;

“Frontage Charge” means the charge payable, based upon the frontage of the property, when required a condition of a severance or when a property is connected to a water and/or sanitary sewer service that hasn’t already been levied, to finance the maintenance, replacement and rehabilitation of existing underground infrastructure. Frontage charges are not the same as Development Charges imposed by City by-law, as applicable;

“Guidelines” means and is not limited to the Public Works/Engineering Services Subdivision/Site Plan Development Guidelines and Technical Standards for the City of Kawartha Lakes, and/or Design Guidelines for Drinking Water Systems 2008 by the Ministry of the Environment, and/or Design Guidelines for Sewage Works 2008 by the Ministry of the Environment, as applicable and amended;

“Irrigation Systems” means equipment, which includes sprinkler heads, piping and other components used primarily to apply water to vegetation;

“Inspection” includes:

- (a) An audit;
- (b) Physical, visual or other examination;
- (c) Survey;
- (d) Test; and
- (e) Inquiry;

“Licensed Operator” means for the purposes of this By-Law a person in good standing with the Ontario Water Wastewater Certification Office (OWWCO) and maintains a minimum Class I in Water Treatment, Water Distribution, Water Distribution and Supply, Wastewater Treatment and/or Wastewater Collection. The license held must be applicable to the system for which one is performing the work in.

“Manager of Environmental Services” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Manager of Revenue and Taxation” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Meter” means the device, which is the property of the City of Kawartha Lakes which measures and records the quantity of water passing through it and is read, serviced, maintained, and supplied by the City;

“Meter Chamber” means a device for the protection of a meter;

“Metered Water Systems” shall include City-owned systems where water is supplied to the customer using a measurement on a consumption meter;

“Municipal Act, 2001” means the Municipal Act, 2001 S.O. 2001, c.25, as amended;

“Municipal Property” means any lands/property owned by the City and/or easements, rights-of-way and/or road allowances in favour of the City;

“Municipal Law Enforcement Officer” means a peace officer appointed by Council pursuant to section 15 of the Police Services Act, R.S.O. 1990, c. P. 15, for the purpose of enforcing municipal By-laws;

“Occupier” means a person residing on or in a property; a person entitled to the possession of the property if there is no other person residing on or in the property; and a tenant or leaseholder; and, where that person is a corporation, shall include the officers, directors and shareholders of that corporation. An occupier includes an occupant;

“Other Charges” means those charges related to repairs, installations, services rendered, or other expenses, exclusive of charges included in water rates, frontage charges and sewage service rates, payable by the consumer as provided for in this By-Law or as directed by City Council;

“Owner” means a person that has any right, title, estate, or interest in a property, other than that of only an occupant and, where that person is a corporation, shall include the officers, directors and shareholders of that corporation, and shall include any person with authority or power over or control of that property on behalf of an owner. An owner includes a developer;

“Person” means a natural person, an association, a partnership or a corporation and the heirs, executors, administrators or other legal representatives of a person to whom the context can apply according to law;

“Premises” means any house, tenement, building, lot, or part of a lot, or both, in, through, or past which service pipes run;

“Private Hydrants” are situated within the limits of the property owned or occupied by the owner or occupier of the water, and/or installed at such locations to serve as exclusive fire protection for said buildings at such a site complex, i.e., institutions, condominiums, community centers, schools, etc.;

“Private Water Service Pipe” means the pipe, fittings and appurtenances which convey water from the water service connection at property line to a water meter, or to the point where the pipe and fittings connected to the water service connection enters a building or structure if there is no water meter;

“Private Sanitary Sewer Service Pipe” means the pipe, fittings, and appurtenances which convey wastewater from a building or structure to the property line.

“Property” includes but is not limited to both public and private lands, a house, building, structure, lot or any part of a house, building, structure or

lot within the City, and is adjacent to water and/or sewage works and may be entitled to a service connection;

“Qualified Person” means a person whom meets the following requirements: is registered with the City’s Cross Connection Control Program; holds a valid and current Certificate of Achievement in Cross Connection Control endorsed by the Ontario Water Works Association (OWWA); is in possession of a current calibration certificate as required for the testing equipment to be employed; maintains commercial general liability insurance; and is authorized to perform the inspection and testing requirements of the program;

“Remote Readout Unit” means any device that is used to record or transmit, or both, the water consumption reading of a water meter and may be installed at a separate location from the water meter but does not include the water meter register;

“Sanitary Sewer” means the pipe, valves and fitting attached thereto, which transport and collect wastewater from abutting properties and general area;

“Sanitary Sewer Service Pipe” means the pipe and fittings that convey wastewater from the inside of an exterior wall of a structure to a connection on a main;

“Service Box” means the structure that houses the shut off valve;

“Service Connection” means water and/or sanitary sewer service connection;

“Sewage Works” means the works for the collection, transmission, treatment and disposal of sewage or any part of such works, but does not include plumbing to which the Building Code Act applies;

“Shut-off Valve” means the valve on or at water service connection owned and used by the City to shut off or turn on the water supply from the waterworks to a property. May also be referred to as curb stop;

“Special Meter Reading” means a reading taken by a person authorized by the City to read a meter for billing purposes at a time other than the normal billing cycle reading;

“Sprinkler System” means a dedicated water service installed to a building complex required by the Ontario Building Code or the Ontario Fire Code for the exclusive purpose of fire suppression of said structure;

“Streetline” means the boundary of private property which adjoins municipal property;

“Substantially Demolished” means the demolition of more than 50% of the exterior walls of the first story above grade of a building or structure, whether or not it is subsequently replaced;

“Supervisor, Overall Responsible Operator” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Supervisor, Water and Wastewater Operations” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Tenant” means a person that pays consideration to use or occupy land, a building or other property owned by another;

“Temporary Water Service” means:

- (a) A pipe installed from a public waterworks by the City, for a City project, and for a specified temporary period of time; and
- (b) A pipe installed with the permission of the Director for construction purposes;

“Treasurer” means the person within the administration of the City, which fulfills the function of the Treasurer as required by the Municipal Act, 2001, S.O. 2001, C.25;

“Valve” means a device for controlling the flow of water through a pipe. A valve on a service connection is also referred to as a stopcock, curb stop or shut-off valve;

“Water” means potable water supplied by the City;

“Water Account” means a record of water consumption and all fees and charges related thereto at and for a property;

“Watermain” means the pipe, valves and fittings attached thereto which transport and distribute water to abutting properties and/or general area;

“Water Service Pipes” means the pipe fittings that convey potable water from a connection a main or private main to the meter location, or, for a fire service, to the inside of the exterior wall of a structure;

“Water Works System” includes but is not limited to buildings, structures, plants, equipment, appurtenances, devices, conduits, intakes, outlets, underground pipelines and installations, and other works designed for the treatment, transmission, distribution and storage of water and includes lands appropriated for that purpose;

“Zone or Area Protection” is provided within a building or area of a building where a cross connection could occur due to installed equipment or work being performed.

1.02 Interpretation Rules:

- (a) The Schedules attached to this by-law form part of the by-law, and are enforceable as such.

- (b) The words “include” and “including” are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.
- 1.03 **Statutes:** References to laws in this by-law are meant to refer to the statutes, as amended from time to time, that are applicable within the Province of Ontario.
- 1.04 **Severability:** If a court or tribunal of competent jurisdiction declares any portion of this by-law to be illegal or unenforceable, that portion of this by-law shall be considered to be severed from the balance of the by-law, which shall continue to operate in full force and effect.

Section 2.00: Administration

- 2.01 The Director of Public Works shall oversee:
 - (a) The operation and maintenance of the City’s water and wastewater systems.
- 2.02 The Director of Engineering and Corporate Assets shall oversee:
 - (a) Development and implementation of standards and specifications governing the design and construction of the City’s drinking water and wastewater systems; and
 - (b) The service application, review and installation process
- 2.03 Should emergency conditions arise that imperil the municipal water supply or its distribution, the Director of Public Works has the authority to:
 - (a) Take all remedial measures as deemed necessary to protect public health, which may include limiting or stopping the supply of water in any area and restricting the use of water for any specific purpose;
 - (b) Expend money and employ workers as needed to restore the City’s drinking water system; and
 - (c) Report to Council as soon as practical after such measures are taken.
- 2.04 The Treasurer shall be responsible for:
 - (a) Arranging for the installation and repair of fixed water meter reading equipment;
 - (b) Administering water meter reading;
 - (c) Establishing water and wastewater rates;
 - (d) Accounting;
 - (e) Billing;
 - (f) Collecting fees and charges;
 - (g) Issuance of water certificates in conjunction with a final reading of the City meter and a final bill to the owner of the property when a written request has been received and the charge established in the Tariff of Fees By-Law has been paid; and
 - (h) Limiting or stopping the supply of water when there has been default of payment in accordance with the City’s Water and Wastewater Billing and Collection Policy, or this By-law, as amended from time to time.

Section 3.00: Use and Receipt of Water

- 3.01 No person shall use, cause or permit water to be used other than in connection with the property to which it is supplied without prior written permission of the City, other than by authorized Kawartha Lakes Fire Services personnel acting in the course of their duties or other City personnel acting in the course of their duties.
- 3.02 No person shall sell water or otherwise similarly dispose of water without the prior written permission of the City, other than by authorized Kawartha Lakes Fire Service personnel or other City personnel acting in the course of their duties.
- 3.03 No person shall obtain water without paying the applicable charges, fees or rates for that water, except with the prior written approval of the City other than authorized Kawartha Lakes Fire Services personnel or other authorized City personnel acting in the course of their duties.
- 3.04 The City does not guarantee any pre-determined water pressure or flow, or guarantee the water supplied to be free of colour, turbidity, taste or odour at all times.

Section 4.00: Installation and Maintenance of the Distribution and Collection Systems

- 4.01 Any and all work having to do with the supply of water and collection of wastewater, with the laying, repairing, renewing or the taking up of a watermain, sanitary sewer or service pipes on municipal property shall only be carried out where authorized by the officers, agents or servants of the City.
- 4.02 Any persons before proceeding with, or authorizing any construction, that will occur under, across or along any watermain, sanitary sewer or other water or sewage works forming any part of the City's system(s), shall seek approval from the City by providing in writing of their intention to proceed with the same. If, in the opinion of the City, it becomes necessary to support or relocate any watermain, sanitary sewer or other water or sewage works, the cost of such work shall be at the sole expense of the applicant. The City has the authority to supervise and/or direct such works, which shall be at the sole expense of the applicant.
- 4.03 No person, except those authorized by the City, shall:
 - (a) Tap-off, interfere or make any connection with a watermain and/or sanitary sewer;
 - (b) Turn off, turn on or interfere in any manner with any watermain valve;
 - (c) Turn off, turn on or interfere in any manner with any service pipe; or
 - (d) Extend any watermain and/or sanitary sewer belonging to or that in the opinion of the City forms part of the City's waterworks and sewage works.
- 4.04 The City shall undertake only the following works on private property:

- (a) Such works as are necessary in connection with City owned meters, or other components of the waterworks system; and
 - (b) Inspection, disinfection, and testing of the installation or repair of private water services, as required by the City.
- 4.05 Where, on an emergency basis, the City assists the owner, at the owner's request, in the repair of a private service on that owner's property, all work performed by the City to assist the owner in that regard shall be performed at the owner's risk and cost. The owner shall have no claim whatsoever against the City for reason of that work.

Section 5.00: Water and Sanitary Sewer Connections and Applications

5.01 New or Changed Connections:

- (a) No person, including the owner or occupier, shall erect or cause to be erected any building, except an ancillary building, on lands serviced by the water and/or sewage works unless the building to be erected is connected to the water and/or sewage works.
- (b) No person, including the owner or occupier, shall connect to the City's water and/or sewage works or make changes or alterations to an existing connection to the City's water and/or sewage works without the written approval of the Director of Engineering and Corporate Assets and in compliance with this By-Law.

5.02 Application for Connection:

- (a) All persons who requires or requests water to be supplied to a property or collection of wastewater or a change or alteration to the existing water or sanitary sewer connection in relation to a property shall submit a Municipal Service Connections Application to the City to determine if services are available to the subject property.
- (b) The Municipal Services Connection Application shall be accompanied by any and all plans as may be required by the City to determine if the application is in accordance with applicable Guidelines and the standards, specifications and requirements of this By-Law. The owner shall be responsible for the completeness and accuracy of the information furnished on the Municipal Services Connection Application and in the plans at the time of making the application.
- (c) No connections shall be made until confirmation has been received from the Engineering and Corporate Assets department, including but not limited to all fees paid.

5.03 Installation of Water and Sanitary Sewer Service Connection(s):

- (a) All work and materials shall conform to the current Guidelines.
- (b) All water and/or sanitary sewer connections within municipal property shall be constructed by an Service Connection Contractor approved by the City.
- (c) The City retains the right to inspect and/or supervise any and/or all work performed on private property that relates to the installation of a

connection to a City service pipe, not under the jurisdiction of the Building Code Act. This may require the hiring of a Licensed Operator. If in the opinion of the City, the installation is not completed in accordance with all applicable laws, including, but not limited to, the Building Code Act, and/or the standards and specifications of this By-law, it shall be made to conform, at the owner's expense.

- (d) In the event that a person connects to the City's water and/or sanitary sewage works, and/or installs a water and/or sanitary sewer service connection in a manner other than provided for in this By-Law, the Director of Engineering and Corporate Assets has the authority to order, at the owner's expense:
 - i. Re-excavation of the connection for the purpose of inspection and testing and subsequent reinstallation of the works in compliance with this By-Law; or
 - ii. Disconnection of the service connection, which shall not be reinstalled and/or reconnected without the prior written permission of the appropriate Director and must be within full compliance with the requirements of this By-Law.
- (e) A separate and independent water and sanitary sewer service and water meter shall be required for:
 - i. Each single family dwelling;
 - ii. Each unit of a semi-detached building;
 - iii. Each dwelling unit of a linear row housing building or tenement;
 - iv. Apartment buildings;
 - v. Commercial buildings;
 - vi. Condominium apartment buildings; and
 - vii. Industrial buildings.
- (f) Any exemptions to section 5.03 (e) shall be at the discretion of the Director of Engineering and Corporate Assets and all approvals for exemptions shall be in writing.
- (g) Each and every water service connection shall be equipped with a shut-off valve that shall be located on municipal property or a location authorized in writing by the Director of Engineering and Corporate Assets, such valve(s) shall be the property of the City.
- (h) Each and every water and sanitary sewer service connection shall be installed and connected to the City's watermain and/or sanitary sewer along the frontage of the property unless otherwise authorized in writing by the Director of Engineering and Corporate Assets.
- (i) A separate connection service meter installed for irrigation and/or fire sprinkler systems is not permitted.
- (j) Shut-off valves for all water services, irrigation and/or fire sprinkler systems shall be fully accessible to the City. If shut-off valves are not accessible, the City will undertake relocation work to ensure the valves are accessible. All costs associated with relocation shall be at the owner's expense.

Section 6.00: Private Water and Sanitary Sewer Service Pipes and Private Fire Service Mains

6.01 Installation and Inspection:

- (a) All private water and sanitary sewer service pipes and private fire service mains and their appurtenances shall be installed by the owner, at the owner's expense, in accordance with all applicable law including, but not limited to, the Building Code Act, Guidelines and this By-law.
- (b) All private water service pipes and private fire service mains 100 mm in diameter and larger shall be tested and commissioned in accordance with City Guidelines and AWWA standards by a Licensed Operator to the satisfaction of the City.
- (c) No owner shall install a private water or sanitary sewer service pipe or private fire service, or permit a private water service pipe, sanitary sewer service or private fire service main to be installed on that owner's property except where:
 - i. The watermain/sanitary sewer to which the connection is to be made is fully completed, tested and accepted by the City for operation;
 - ii. Water/sanitary sewer service connections have been installed to the satisfaction of the City; and
 - iii. The private fire service connections are installed to the satisfaction of the City.
- (d) In the event that a person installs or permits a private water/sanitary sewer service pipe or private fire service main to be installed in a manner contrary to this By-Law , the Chief Building Official has the authority to order the excavation of the installation and/or direct any other action as may be deemed necessary for the purpose of inspection and testing by the City, at the owner's expense.
- (e) If the City determines, after an inspection and testing, that a private water/sanitary sewer service pipe or private fire service main has not been installed in accordance with subsection 6.01 (a) of this By-Law, the Director of Engineering and Corporate Assets, Director of Public Works and/or Chief Building Official has the authority to direct the owner to perform the necessary work to ensure full compliance. All works shall be at the expense of the owner and shall be completed within a specified time period.
- (f) Where an owner fails to or refuses to perform the remedial work as directed under subsection 6.01 (e), the Director of Engineering and Corporate Assets, Director of Public Works and/or Chief Building Official has the authority to:
 - i. Issue an order to the owner to perform the necessary work, in addition to any requirements as determined by the Chief Building Official, to bring the private water and sanitary sewer service pipe and/or private fire service main, into full compliance with the applicable regulations, Guidelines and this By-Law; and
 - ii. Issue an order to disconnect the private service pipes and/or private fire service main from the water or sewage works.
- (g) Upon a disconnection by the Director of Engineering and Corporate Assets, Director of Public Works and/or Chief Building Official under subsection 6.01 (f) ii., the owner shall not reinstall a private water and/or sanitary sewer service pipe or private fire service main or both except:
 - i. Upon the prior written approval of the appropriate Director;
 - ii. Upon the payment of all applicable fees and charges in respect to the disconnection; and

- iii. When work is in complete compliance with applicable Guidelines and this By-Law.

6.02 Maintenance and Use:

- (a) The owner or occupier of a property shall keep all private water/sanitary sewer service pipes and private fire service mains on that property, including but not limited to fittings, valves, meter chambers and supports thereof, in good working order and repair at all times.
- (b) The owner or occupier of a property shall repair any and all leaks, defects or malfunctions in, of, or on the private water/sanitary sewer service pipes or private fire service mains on that property, including leaks, defects or malfunctions related to valves, fittings or corroded piping, as soon as possible once they are made aware of any such leaks or defects or malfunctions, in accordance with all applicable City By-Laws and provincial legislation.
- (c) In the event that an owner or occupier fails to keep all private water/sanitary sewer service pipes and private fire service mains on that property, including but not limited to fittings, valves, meter chambers and supports thereof, in good working order and repair at all times or refuses to repair any and all leaks, defects or malfunctions in, of, or on the private water/sanitary sewer service pipes or private fire service mains on that property, including leaks, defects or malfunctions related to valves, fittings or corroded piping, the Director of Public Works is authorized to issue an order to the owner or occupier to do so.
- (d) The owner or occupier shall comply with an order issued under subsection 6.02 (c) no later than forty-eight (48) hours after issuance.
- (e) If an order is issued under subsection 6.02 (a), 6.02 (b) or 6.02 (c), the owner or occupier shall pay the amount specified in the City's Consolidated Fees By-law with respect to any water not registered by the meter or for any water loss, for each day an order of the Director under subsection 6.02 (d) is out of compliance.
- (f) Notwithstanding subsection 6.02 (e), where the owner or occupier can provide, to the satisfaction of the Director of Public Works, an accurate record of actual water loss as a result of the leak, defect or malfunction, the amount payable may be adjusted to be equal to the amount so recorded, to the satisfaction of the Director of Public Works.

6.03 Investigation/Disputes:

- (a) Where an owner or occupier disputes the City's determination of the location of a leak or defect in a service connection, the owner or occupier may apply in writing to the Director of Public Works to request the City to conduct an inspection of the service connection and to perform whatever excavation may be necessary.
- (b) The owner or occupier shall set out, in the application, the basis upon which the owner or occupier disagrees with the City's determination of the location of a leak or defect in a service connection.
- (c) If the Director of Public Works, determines that an inspection by excavation is necessary to determine the location or cause of the leak

- or defect, the owner or occupier requesting the inspection shall pay to the City the deposit specified in the City's Consolidated Fees By-Law, prior to the commencement of the excavation.
- (d) The deposit shall be in the form of either cash or a certified cheque, or applied to the owner or occupier's utility account, as may be determined by the Director of Public Works.
 - (e) If, upon an inspection under subsection 6.03 (a):
 - i. A leak or defect is found by the City on the City's portion of the service connection, the City shall refund the deposit to the owner or occupier;
 - ii. No leak or defect is found by the City on the City's portion of the service connection, the Director of Public Works has the authority to determine the actual cost of the excavation, restoration and any other services or work performed by the City in relation to the inspection. Payment of those costs shall be the responsibility of the owner or occupier;
 - iii. Should the actual cost of the work be greater than the deposit received under 6.03 (d), the owner or occupier shall immediately remit to the City the difference;
 - iv. In the event the actual cost of the work is less than the amount of the deposit received under subsection 6.03 (d), the Director of Public Works shall authorize the refund of the difference to the owner or occupier. If the deposit was applied to the owner/occupier's utility account, a credit will be applied to the account.

Section 7.00: Demolitions

7.01 Demolition of a Building:

- (a) An application to disconnect services must be made on the approved form prior to a demolition permit being issued.
- (b) An owner who has received a permit to demolish a property shall notify the City in writing at least seven (7) days in advance of the date on which the water supply to the property is to be terminated, and shall make an appointment with, and provide access to the City to accommodate a final water meter reading, the removal of the water meter and the remote readout unit from the property, turn-off of the water supply at the shut-off valve and to allow for inspection of the plugged sanitary sewer service.
- (c) The owner or an agent of the owner shall be present at the property when the final water meter reading is taken, the water meter is removed, the water supply is turned off and the inspection of the plugged sanitary sewer service is complete.
- (d) The City may require that the services be disconnected and capped at the property line or at the watermain and/or sanitary sewer main, at the expense of the owner.
- (e) The owner shall pay the amounts specified in the Consolidated Fees By-Law, for the turn off of the water supply to the property and shall pay all City costs related to the disconnection of the water service connection from the water and sewage works in accordance with section 5.00 of this By-Law.

- (f) In the event an owner fails to provide access to a property prior to demolition of a building on the property, in accordance with subsection 7.01 (b), the owner shall pay to the City an amount equal to the cost of a new water meter and remote readout unit of the same type and size that was unable to be recovered by the Treasurer from the property in accordance with the amounts specified in the Consolidated Fees By-Law.
- (g) In addition to the amounts payable under subsection 7.01 (f), the owner shall also pay for the amount of water consumption from the last water meter reading date to the date of the disconnection of the water service connection from the waterworks, estimated by the Treasurer in accordance with subsection 10.03 (h).
- (h) Notwithstanding subsections 7.01 (e) and 7.01 (f), if the Treasurer determines that it is not necessary to recover a water meter from a property to be demolished, the Treasurer shall notify the owner in writing.
- (i) Upon receipt of a notice from the Director of Public Works following the inspection required under subsection 7.01 (b), and provided that the water meter has been removed or determined unrecoverable per subsection 7.01 (h), the owner may proceed with the demolition.
- (j) The owner shall be responsible for the payment of the fixed rate charge specified in Schedule "A" to this By-Law.

Section 8.00: Construction Water

8.01 Construction Water for Building:

- (a) For all newly constructed buildings where a Building Permit is issued and municipal water services are available, a construction water charge as per the Consolidated Fees By-law will be charged at the time of Building Permit issuance.
- (b) The water shall be used solely for the construction of the building for which the building permit is issued, which includes normal concrete and masonry work and other minor uses on the subject property and shall not be utilized for compaction or lawn watering purposes.
- (c) The City is authorized to terminate the supply of water to a property where a person has been authorized for construction water use and is found to be using construction water for compaction, lawn watering, use in a model home or where construction water is used to service more than one separately assessed parcel of land or other purpose deemed to be unacceptable by the City.
- (d) The owner shall pay all costs for the installation of any temporary or permanent water service connection of any size and all costs for the disconnection of any temporary water service connection.
- (e) The commencement date shall be the date the construction water is connected by the City and is valid for a three-month period from that date.
- (f) Should construction water be turned on by someone other than the City, the owner will be charged for the construction water from the date of the building permit to the date of the installation and commencement of use of the water meter.

- (g) Once the water meter is installed, the owner shall be charged the current water rates for all water consumption registered on the water meter in place of the construction water rate specified in Schedule “A” of this By-Law.

8.02 Extension of Construction Water Use:

- (a) The owner of a property who is utilizing construction water, who has not installed a properly working water meter within the initial three-month period set out in subsection 8.01, may apply to the Treasurer for an extension of the permit beyond that initial three-month period.
- (b) The extension period set out in subsection 8.02 (a) shall be for no less than three additional months.
- (c) Where the extension of construction water use is applied for and the consumption is not metered, a payment for the supply of water for the full term of the applied-for extension, calculated in accordance with the amounts specified in the Consolidated Fees By-Law, shall be made by the building permit holder at the time the request for the extension is submitted.
- (d) Once the water meter is installed, the owner shall be charged the current water rates for all water consumption registered on the water meter in place of the construction water rate specified in Schedule “A” of this By-Law
- (e) The owner shall be entitled to apply for additional extension periods but must comply with the requirements of subsection 8.01 (a) and (b) with respect to each request for an extension.
- (f) The Treasurer shall shut off the supply of water to a property where an owner who is authorized for the use of construction water under subsections 8.01 (a) and 8.01 (b) has not installed a properly functioning meter and has not requested and/or received an extension for the use of construction water for the property beyond the end of the initial three-month term or any approved extension term.

8.04 Backflow Prevention – Construction Water:

- (a) A backflow prevention device shall be installed in accordance with the current CSA-B64 Series Standards on each and every temporary water service connection to private water service pipes.
- (b) The owner shall pay all costs associated with the supply, installation, replacement or repair, and testing of the backflow prevention device(s).
- (c) If the backflow prevention device is either missing or damaged, the Director of Public Works is authorized to immediately order the shut-off of the water supply to the property until such time that the backflow prevention device is either replaced or repaired.

8.05 Fire Hydrant Used for Construction Water:

- (a) If authorization in writing is granted by the City for the temporary use of a fire hydrant for the supply of construction water, a temporary hydrant meter, valve and backflow prevention device shall be installed on the hydrant.

- (b) The City shall supply, install and seal the temporary hydrant meter, valve and backflow prevention device.
- (c) The owner and/or contractor shall pay the temporary hydrant meter fee as established in the Consolidated Fees By-Law prior to the installation of the temporary hydrant meter. This fee includes supply and install of the temporary hydrant meter, valve and backflow prevention device.
- (d) The owner and/or contractor shall pay for all water supplied from the fire hydrant as per Schedule "A" of this By-Law.
- (e) The owner and/or contractor shall protect the temporary hydrant meter, backflow prevention device and fire hydrant from freezing or any other damage, at all times, to the satisfaction of the City.
- (f) If any loss or damage occurs to the temporary hydrant meter, backflow prevention device, valve or fire hydrant the owner shall immediately notify the City and shall pay all costs associated with the replacement or repair of the temporary hydrant meter, backflow prevention device or fire hydrant.

Section 9.00: Meter By-pass

- 9.01 No pipe connection shall be made to a water service pipe other than after the outlet side of the water meter, except where a by-pass around the meter has been approved in writing by the City.
- 9.02 An approved water meter by-pass shall be equipped with a shut-off valve that upon notification of its installation by the owner shall be sealed in the closed position by the City.
- 9.03 A properly installed by-pass, including sealed valve around the water meter shall be provided at the expense of the owner or occupier of the premises on which the water meter is located when required by the City.
- 9.04 No person shall break the City's seal on a by-pass valve, without the expressed authorization of the City.
- 9.05 If the owner or occupier fails or refuses to supply the by-pass pipe or valve(s) to the satisfaction of the City, the Director of Public Works has the authority to order the owner or occupier:
 - (a) To supply and install a new or replacement water meter by-pass pipe or valve(s);
 - (b) To remove any defective pipe or valve(s) and install new pipe or valve(s); and
 - (c) To repair and maintain the water meter by-pass pipe or valve(s), to the satisfaction of the City, at the owner or occupier's expense
- 9.06 An owner or occupier shall comply with a Director's order made under subsection 9.05 within seven (7) calendar days from issuance of the order.
- 9.07 If an owner or occupier fails to comply with a Director's order made under subsection 9.05 within the time required, the Director may undertake the work, at the owner's or occupier's expense, in accordance with Section 27.00 of this By-Law.

- 9.08 **Water Meter Chamber:** Where a meter chamber is required as determined by the City, the meter chamber shall be provided with a readily accessible remote reader in accordance with the City's current Guidelines.

Section 10.00: All Water Metered

10.01 Provision for Water Meter:

- (a) An owner of a property shall ensure that provision is made in the piping system of all existing, new and renovated buildings for the installation of a water meter of the same diameter as the private water service pipe in accordance with the City Guidelines.
- (b) A water meter shall be located at the point at which water service pipes enter the building unless directed by the City in writing, that another location may be used.
- (c) If a water meter cannot be located as stated in 10.01 (b) and determined by the City, it shall be equipped with a remote reader. The location of the remote reader shall be determined at the sole discretion of the City.
- (d) Additional, private meters or water meters required by this By-Law may only be installed by the owner at the discretion of the City.

- 10.02 **Notification by Owner:** Upon receipt of an approval from the Chief Building Official (CBO) for the installation of new plumbing or for all new or replacement private water service pipe installations, where a water meter is required to be installed under this By-Law, the owner shall immediately notify the Treasurer when the property is ready for the installation of the water meter.

10.03 Water to be Metered:

- (a) All water supplied by the City and consumed on the property shall pass through a meter owned by the City, save and except as stipulated in Section 3.00 and Section 8.00 of this By-Law, for use on the property unless the water in question is authorized by this By-Law to be used for fire protection, and shall be charged for at such rates as attached as Schedule "A", amended from time to time by Council.
- (b) Water meters shall be installed at a time determined by the City and shall be installed, maintained, repaired and disconnected by only employees or agents of the City.
- (c) Every water meter installed on a property shall be inspected and sealed by the City at or about the time of installation.
- (d) For water services not measured by a water meter, the Treasurer shall send a letter to the owner or occupier identifying a timeframe when a water meter will be installed.
- (e) If the property owner or occupier fails to contact the City to confirm the appointment, or to set an alternate date or time within ten (10) business days of the date of the letter, as referenced in subsection 10.03 (b), the Treasurer shall send a further letter by registered mail advising of the water meter installation date.
- (f) If the owner or occupier fails to respond to the letter referenced in subsection 10.03 (d), the Treasurer shall issue a final notice by

registered mail stating that if the owner or occupier does not make suitable arrangements within five (5) business days for the installation of a water meter on the property, water services may be terminated with all costs for shut-off and turn-on to be added to the account in accordance with the Consolidated Fees By-Law. The Treasurer has the authority to issue an order under subsection 10.06 (b).

- (g) Water service discontinued as a result of action under subsection 10.03 (e) shall remain turned off until such time as a water meter has been installed and the provisions of this By-Law are complied with in full.
- (h) The water meter shall be prima facie evidence of the quantity of water supplied by the City.
- (i) In the event that a meter is found to not be registering, or is not registering correctly, the Treasurer has the authority to charge for consumption at the average rate for the previous year or, at a reasonable rate to be determined by the Treasurer.

10.04 Supply and Payment for Water Meters:

- (a) The City shall be the sole supplier of all water meters registering consumption of water supplied and billed by the City.
- (b) Strainers and connection fittings including water meter flanges to be attached to the water meter shall be provided by the City when required.
- (c) The City shall retain ownership of all water meters, strainers and connection fittings including the water meter flanges supplied by the City.
- (d) The owner or occupier shall pay the amounts specified in the Consolidated Fees By-Law for the water meter supplied by the City in accordance with subsection 10.04, at the time of Municipal Service Connections Application and/or Building Permit issuance, except where:
 - i. The property is a property to which the City supplies water meters as part of the automated meter reading program and replacement program; and
 - ii. The program exempts such fees and charges.
- (e) No water and sanitary sewer service connection shall be approved by the City until all amounts required to be paid under subsection 10.04 (d) have been received.

10.05 Supply of Water – New Installation:

- (a) No person shall turn on the water supply to a property other than authorized Kawartha Lakes Fire Services personnel or other authorized City personnel acting in the course of their duties or as an authorized agent or contractor of the City expressly acting within the scope of their work or services, until the City has inspected and sealed the water meter installed at the property.
- (b) In the event that water supply to a property has been turned on prior to the City's inspection and sealing of the water meter at the property, the City shall immediately, without notice, terminate the supply of water to the property.

10.06 Refusal to Install:

- (a) Under a universal metering program or automated meter reading program, no owner or occupier shall refuse or obstruct the City in the installation of:
 - i. A water meter and related items; and
 - ii. Automated meter reading equipment.
- (b) In the event that the owner or occupier refuses to allow the City to install a water meter and/or any related items and equipment as required, the Director of Public Works or Treasurer may issue an order to the owner to do so.
- (c) The owner or occupier shall comply with an order issued under subsection 10.06 (b) no later than seven (7) days after issuance.
- (d) If an owner or occupier fails to comply with an order under subsection 10.06 (b), the City may undertake the work at the owner's expense in accordance with subsection 27.04 (a).

10.07 Remote Readout Unit and Remote Readout Unit Wire:

- (a) For each water meter at a property, the City may provide each metered property with a remote readout unit(s) and a wire for each remote readout unit.
- (b) The City shall be the sole supplier of remote readout units and wires to each property.
- (c) Ownership of the remote readout unit(s) and wires shall remain with the City.
- (d) The owner or occupier of a property shall protect the remote readout unit and wire from damage.
- (e) The City shall inspect and connect the new wire or remote readout unit installation, and the owner of the property shall provide access to the City to do so.
- (f) If the wire or the metallic electrical conduit required becomes damaged, the City shall provide and install new wire and conduit at the owner's or occupier's sole expense, as per the Consolidated Fees By-Law.
- (g) If the remote readout unit becomes damaged, the owner or occupier of the property shall pay the full cost to the City for the City to supply and install a new remote readout unit, and any protective device, as specified in the Consolidated Fees By-Law.
- (h) An owner or occupier of the property shall ensure that the remote readout unit is easily accessible to the City, in a location approved by the City, at all times, and at no time shall access to it be obstructed or denied.

10.08 Bulk Water:

- (a) Water obtained from a City owned bulk water fill station shall be metered and bulk water consumption fees as per Schedule "A" to this By-Law shall be paid.
- (b) There shall be no mixing of pesticides or other chemicals deemed to be harmful to bulk potable water by the City on City owned property where there is a bulk water fill station.

- (c) It is the responsibility of the person obtaining water from the bulk water fill station to supply their own connections, hoses, containers, etc. that have been strictly used for potable water.

Section 11.00: Care and Operation of Meter

11.01 Owner's or Occupier's Responsibility:

- (a) The owner or occupier of the premises on which a water meter is to be located shall be responsible for:
- i. Paying the fee for the supply and installation of the water meter and remote reader in accordance with the Consolidated Fees By-Law;
 - ii. Protecting the water meter and remote reader from damage including freezing or destruction;
 - iii. Providing at all time easy access to the water meter and remote reader to the City for the purposes of meter reading, checking, repairing, installation and removal in accordance with subsection 12.02 of this By-Law;
 - iv. Paying the cost to repair or replace a damaged or stolen water meter or remote reader; and
 - v. Paying the cost to change the size of a water meter due to change in water use.
- (b) An owner or occupier shall be responsible for any and all water loss or water discharge that occurs and may be a result of, but not limited to: freezing, hot water, damage from any cause in a private water service pipe, private water system or private fire service main on that owner's property.
- (c) Thawing of frozen water service pipes shall be the owner's or occupier's responsibility.
- (d) Charges as a result of replacement of a damaged meter shall be added to a subsequent water/wastewater utility bill.
- (e) An owner or occupier shall immediately notify the City of any breakage, stoppage or irregularity of performance issues related to the water meter.
- (f) If a water meter is lost or damaged, the owner or occupier shall immediately notify the City. The City will undertake any repair or removal of a damaged water meter or the installation of a new water meter of a similar size and type or both, all at the expense of the owner or occupier.
- (g) The City shall not be responsible for any damage to buildings or property in the course of, the installation, maintenance, repair or disconnection of any water meter, provided that the employees or agents of the City in the course of such installation, maintenance, repair or disconnection of any water meter, provided that the employees or agents of the City in the course of such installation, maintenance, repair or disconnection have taken reasonable care.
- (h) In the case of a property subject to meter installation or replacement under a universal metering program or automated meter reading program, the City may install the water meter, conduit and wire for the remote readout unit and automated meter reading equipment.

- 11.02 **Relocation of Water Meter:** No person shall change or permit to be changed, the location of a water meter at a property following installation to the satisfaction of the City, without the prior written consent of the City.

Section 12.00: Water Meter Inspection

12.01 Water Meter Interference:

- (a) No person, except a person authorized by the City shall open, or in any way alter or tamper with any water meter or seal, or undertake any action(s) that interfere with the proper registration of the quantity of water that passes through a water meter or ought to pass through a water meter.
- (b) No person shall connect or permit to be connected any pipe or other object to a private water service pipe upstream of a water meter or the by-pass pipe and valves.
- (c) If the City determines that a seal on a by-pass valve or a water meter has been tampered with or is broken, the City may chain or lock the by-pass valve in the closed position and may reseal the water meter at the owner's expense.
- (d) The seals placed upon the meters and by-pass valves shall only be broken by the City in the course of maintaining and operating the meter and the by-pass valves.
- (e) In the event that the seals are discovered to be broken, the City may cause an investigation to be made.

12.02 Access:

- (a) Every owner and occupier shall, at reasonable times and on reasonable notice, permit the City to have free, clear and unobstructed access to a property and to the location where a water meter is to be installed in or on a property or to permit the City to test, read, repair, maintain, alter, disconnect, remove, replace or install a water meter or seal a water meter that has been installed.
- (b) Notwithstanding the generality of subsection 12.02 (a), the location of a water meter shall be made accessible without the use of a portable ladder or the necessity of climbing over or removal of an obstacle.
- (c) When requested by the City, an owner or occupier, shall permanently remove any insulating or other material from, on or around a water meter to provide the City with full, unobstructed access to the water meter.
- (d) Any replacement of the material referenced in subsection 12.02 (c) shall be undertaken by the owner or occupier at the owner's or occupier's sole expense in accordance with applicable Guidelines for water meters and all applicable law, including but not limited to the Occupational Health and Safety Act.
- (e) As part of an inspection, the City shall at all times be permitted to take photographs, including digital images, of any water meter, private meter, by-pass pipe and valves, inlet and outlet valves, backflow prevention device, private water system, private water service pipe, private fire service main or water meter chamber.

- 12.03 Any owner or occupier who fails to report to the City that a meter has been installed, shall be back-charged to the date the occupancy permit was issued, for water consumption and wastewater use (where applicable) and include a fixed rate charged on a prorated basis, to be estimated at the discretion of the Treasurer.

Section 13.00: Meter Reading

- 13.01 Every owner and occupier shall, at reasonable times and on reasonable notice, permit the City to have free, clear and unobstructed access to that person's property and to the location where a water meter is installed on that property to permit the City to read the water meter which has been installed.

Section 14.00: Meter Testing On Request of Owners/Occupiers

- 14.01 Any meter shall be removed and tested upon the written request of the owner or occupier to determine if the water meter is over-registering the amount of water consumed at the property.
- 14.02 If the water meter is found to register correctly, slowly or not to exceed three percent (3%) in favour of the City of the actual flow, the person requesting meter removal and testing shall pay the expense of removing and testing the meter.
- 14.03 The minimum charge for testing a meter shall be in accordance with the Consolidated Fees By-Law. If said meter test shows the meter to be registering incorrectly, no charge for testing shall be levied in accordance with the Consolidated Fees By-Law.
- 14.04 Charges incurred under subsection 14.03 shall be added, if required, to the subsequent water/wastewater utility bill.
- 14.05 If a meter, when tested, is found to register in excess of three percent (3%) of the actual flow in favour of the City, a refund shall be made to the owner or occupier in an amount equal to such excess percentage on the invoice for the one (only) quarterly period immediately prior to the testing of said meter.
- 14.06 The City may, at its sole discretion, make periodical inspections or tests of meters on the distribution system and reserves the right to substitute other meters for existing meters, owned by the City.

Section 15.00: Water for Fire Extinction

- 15.01 Where a fire line is provided, no water shall be taken from it except for fire protection purposes and for testing and maintenance as required by the Fire Code.
- 15.02 Fire lines that are not supplied by a separate service shall be connected before the meter to ensure water consumed for fire purposes is not read by the meter. Any new installations will require a separate service for a fire line.

- 15.03 All equipment used for a fire protection system shall be provided with suitable valves and approved by the City. A building permit shall be obtained for any installation.
- 15.04 Stand pipes for fire protection shall be installed in accordance with the Building Code Act, with an appropriate Building Permit obtained.
- 15.05 The City may require a compound meter be installed at a property. The meter is to be purchased for the City, and shall be installed and maintained by the City.
- 15.06 All systems shall be approved and installed in accordance with the Building Code Act, with a building permit obtained.
- 15.07 The City may require the installation of a Backflow Prevention Device on a fire service line depending on site specific conditions in order to protect the drinking water system. Location of a Backflow Prevention Device will be dependent on potential risk of the property. A building permit shall be obtained for any installations.

Section 16.00: Fire Hydrants

- 16.01 All fire hydrants shall be used for the purpose of providing water for the suppression of fires and the maintenance of the municipal water system.
- 16.02 No person other than, authorized City personnel and Kawartha Lake Fire Services personnel, shall use fire hydrants owned and maintained by the City.
- 16.03 The design, location, installation, repair and maintenance of all fire hydrants within the City's jurisdiction shall be undertaken in accordance with current Guidelines.
- 16.04 The City shall have the authority, through the development process, to secure adequate municipal fire hydrants in accordance with the above-noted Guidelines.
- 16.05 No person or persons shall without lawful authority open or close any fire hydrant or valve, or obstruct the free access to any fire hydrant (i.e ensure a minimum of one meter clearance around the hydrant), curb stop chamber, pipe or valve by placing upon it any building material, rubbish, snow or other obstruction.
- 16.06 The City, at its sole discretion, has the authority to remove any obstruction, to operate fire hydrants or valves, or to repair water lines, and shall not be liable for damages that may result from the replacement or repair.
- 16.07 Private fire hydrants shall be maintained accessible at all times and in good operating condition by and at the expense of the owner.

- 16.08 Water from privately owned hydrants shall not be used for purposes other than fire-fighting and maintenance of water quality unless the purpose is specifically approved by the Director of Public Works .
- 16.09 Private hydrants shall be tested and maintained on an annual basis by a Licensed Operator, at the owner's expense and in accordance with the Fire Code. Annual inspection/testing reports must be submitted to the City.
- 16.10 Where a fire flow test from a municipal fire hydrant is required by a property owner or occupier (i.e., for insurance requirements), and the property owner or occupier has hired a company to perform flow testing, the City shall be on-site during testing to operate fire hydrants and associated valves. A request must be made to the City seven (7) days prior to testing. The fee for this service is as noted in the Consolidated Fees By-Law.

Section 17.00: Water System Cross Connection Control and Backflow Prevention

17.01 Installation:

- (a) No owner or occupier shall connect, cause to be connected or allow to remain connected, any piping fixture, fitting, container or appliance, in a manner which under any circumstances, may allow water, wastewater or any harmful liquid, gas, vapour or other substance to enter the waterworks system.
- (b) Where, in the opinion of the City, there is a risk of contamination at a property, the owner or occupier of the property, upon issuance of an order from the Director of Public Works, shall install a backflow prevention device(s) approved by the City for the purpose of achieving premise isolation, regardless of any other protective device that may be installed on the private water system.
- (c) An owner or occupier of any Industrial, Commercial or Institutional buildings, which are deemed to present a moderate to severe hazard (as per Ontario Building Code, O. Reg. 332/12) and are connected to the City's waterworks shall be required to install in the building(s), a backflow prevention device as approved by the City to achieve premise isolation, at the owner or occupier's expense.
- (d) All backflow prevention devices required for premise isolation shall be selected, installed, replaced, maintained and tested by the owner in accordance with this By-Law, the Building Code Act, City policies and current CSA-B64 Series Standards.
- (e) Steam boilers or water heaters shall be fitted with a suitable check valve, in accordance with the Building Code Act, to prevent accident from collapse or damage, should the pressure in the watermain fail. The City shall not be liable for damages, which may result from pressure failure, no matter the cause of such failure.
- (f) The City, at its discretion may also require the owner or occupier to install zone or area protection as required by current CSA Standard B64 series within a plumbing system.
- (g) Owners or occupiers shall design, construct, install and maintain a premise isolation system for each water service connection and private

fire service main so that the system is in compliance with all applicable law, including this By-Law, the Building Code Act, City policies and current CSA-B64 Series Standards.

- (h) Any owner, occupier or other person required to install a backflow prevention device shall obtain a building permit for each backflow prevention device to be installed.
- (i) Every owner or occupier required to install a backflow prevention device shall determine the proper device in accordance with CSA-B64 Series Standards and this By-Law, including any temporary backflow prevention device
- (j) Notwithstanding subsection 17.01 (i), where an owner or occupier is required to install a backflow prevention device under this By-Law, the City may direct the owner or occupier to install a specific type of backflow prevention device where the City determines that such specified device is necessary to prevent contamination of the waterworks.
- (k) Every owner or occupier required to install a backflow prevention device shall install the device downstream of the water meter and prior to any tapping, or where circumstances require, in an alternate location authorized by the City.
- (l) Every owner or occupier required to install a backflow prevention device shall ensure that it is in proper working order at all times and that all piping between the water meter and the backflow prevention device is clearly labeled "no connection permitted".
- (m) A backflow prevention device, approved by the City, may be installed with a detector assembly, in lieu of a detector check valve on new systems, with the written approval of the City.
- (n) A water service installed on a premise for fire protection purposes shall be equipped with an approved double check valve or backflow preventer, approved by the City, and shall be maintained in good working order at all times.

17.02 Inspection:

- (a) The owner or occupier shall ensure that all backflow prevention devices (BPDs) are inspected and tested in accordance with all policies, guidelines, by-laws and/or standards, including but not limited to the City's Cross Connection Control Program Policy and Directives.
- (b) If an owner or occupier fails to have a BPD tested, in accordance with subsections 17.02 (a), the City may notify the owner or occupier that the BPD shall be tested within ninety-six hours of the owner or occupier receiving that notice.
- (c) If an owner or occupier fails to have a BPD tested within ninety-six (96) hours when requested by the City, the City may shut off the water service until the BPD has been tested and approved pursuant to subsections 17.02 (a) of this Section.
- (d) If a condition is found to exist due to negligence, such as failure to have BPD inspected or tested or failure to maintain the backflow prevention device in good working condition, which in the opinion of the City is contrary to the aforesaid, the Director of Public Works may:
 - i. Shut off the service or services; or

- ii. Issue an order to the owner or occupier to correct the fault at his or her sole expense within forty-eight (48) hours of receiving the order.
- (e) If the Director of Public Works determines that a contravention of subsection 17.01 (a) may exist at a property, the Director may immediately carry out an inspection and may issue an order or orders to the owner or occupier of the property or any other person who may be required to remedy the contravention.
- (f) Should the owner or occupier fail to comply with such order, the Director of Public Works shall proceed to administer penalties to the owner or occupier pursuant to subsection 25.01 of this By-Law. In the event that it is determined that this condition existed prior to this By-Law coming into effect, the owner or occupier shall remedy it as stated above.
- (g) If a test of a backflow prevention device reveals that the device is not in proper working condition, or is not in conformance with the Guidelines, the owner or occupier shall repair or replace the device within forty eight (48) hours of the performance of the test.

17.03 Access:

- (a) The City shall be allowed access, upon reasonable notice, to any premises that are connected to the waterworks system for the purpose of performing an inspection to locate possible cross connections.
- (b) Where access is not provided, a written notice by the City shall be issued allowing fourteen (14) days to provide access. If access is not provided within this time frame, the City may, at its sole discretion, discontinue the supply of water to the premises until such time as access is provided for such access to occur.
- (c) Every backflow prevention device shall be installed in a location that is readily accessible as determined by the City, for operational, renewal, servicing, and maintenance and inspection purposes.
- (d) The location of the backflow prevention device shall be accessible without the use of a portable ladder or the necessity of climbing over or removal of an obstacle.
- (e) The City may, at reasonable times or in the case of an emergency, at any time, enter a property for the purpose of inspecting or testing a private water service pipe, private water system, a private fire service main, a backflow prevention device.
- (f) Owners and occupiers shall remove any insulating or other material on or adjacent to the private water service pipe, private water system, private fire service main, backflow prevention device so that full access to that pipe, system or devices are available for the testing and inspection purposes.
- (g) All of the removal and any subsequent replacement carried out under subsection 17.03 (f) shall be performed by the owner or occupier at that owner or occupier's expense in accordance with all applicable law including but not limited to Occupational Health and Safety Act and its Regulations.
- (h) No person shall obstruct or permit or cause the obstruction of the access to a private water service pipe, private water system, or backflow prevention device, either permanently or temporarily.

17.04 Surveys:

- (a) The City may require the owner or occupier of an existing industrial, commercial, institutional building, structure or property or any other property, that has the potential to contaminate the waterworks system, to submit a cross connection survey, to the City, at the owner or occupier's expense. The survey shall be completed in accordance with City policies and directives.
- (b) If a cross connection survey is required, the owner or occupier shall submit it to the City by the date specified in the City's notification to the owner or occupier of its requirement.
- (c) Where the City has not specified a date by which the cross connection survey must be submitted in the notification to the owner or occupier of the requirement for a survey, the survey shall be submitted to the City within thirty (30) days of the survey being complete.
- (d) Owners or occupiers required to submit a cross connection survey to the City shall update those surveys and submit those updated surveys to the City at a frequency of not less than once every five (5) years from the date of the previous cross connection survey, unless otherwise required by the City for that premise based on the level of hazard determined by the survey, or within thirty (30) days of any increase in the level of hazard as defined under CSA – B64 Series Standards.
- (e) The survey shall be prepared and signed by a Qualified Person.

17.05 Removal:

- (a) No person shall remove or cause or permit to be removed a backflow prevention device after it has been installed unless that removal is:
 - i. Necessary to facilitate the repair of the device and that device is immediately replaced by a temporary device, until the time that the original device is satisfactorily repaired or replaced and tested; or
 - ii. For the purpose of immediately replacing the device with another device that meets or exceeds the requirements of this section; or
 - iii. Warranted due to alterations to the private water system which completely remove the risk of contamination for which the backflow prevention device was required, in which case:
- (b) The owner or occupier shall submit to the City a survey prepared and signed by a Qualified Person attesting to the fact that the device or devices are no longer required; and
- (c) The device shall not be removed until the City approves of the removal, which approval shall be made if the altered system no longer requires the device or devices in accordance with the standard and specifications and the CSA – B64 Series Standards; and
- (d) The cost of obtaining the necessary documentation under this subsection shall be the responsibility of the owner or occupier, or as otherwise authorized by the City.

Section 18.00: Right to Refuse Water Service

18.01 Delinquent Account:

- (a) No application shall be accepted by the City for the supply of water for any premises in respect of which water and/or wastewater rates, rents, or the price of service extension are owed to the City, until the account is paid.
- (b) The City has the right to turn off water supply and/or withhold from any person with a delinquent account with the City, regardless of the reason, until the amount owing is paid, whether such person resides on the premises where the water was used for which there are arrears, or on any other premises where water was supplied.
- (c) The City shall not be held liable for any damages that occur directly or indirectly as a result of a shut-off or turn-on of the water supply. It is the property owner and/or occupier's responsibility to ensure the internal plumbing and appliances are properly maintained at all times, and in the case of cold weather, that lines are drained to prevent damage due to freezing and thawing.

18.02 Water Shut-off Initiated by the City:

- (a) Except in cases of emergency, no person shall turn on or shut off or permit the turn-on or shut-off of the water supply to a property at the shut-off valve without the authorization of the City.
- (b) If the water supply to a property has been shut off by the City, no person shall turn-on or use the water supply or permit the water supply to be turned on or used without the prior written approval of the City.
- (c) The City may shut off the supply of water to a property if:
 - i. The charges, fees or rates imposed by this By-Law or any other By-Law or City By-Law providing for charges, fees or rates in relation to the treatment and supply of water or collection and treatment of wastewater are overdue; or
 - ii. A fine imposed under this By-Law remains unpaid after the time required for payment of the fine has expired; or
 - iii. The owner or occupier has failed to comply with an order of a Director or Treasurer made under this By-Law within the time required for same; or
 - iv. A leak or other fault is found on the private water service pipe or water service connection and is creating or is likely to create an emergency situation, including but not limited to injury to persons or damage to adjacent properties including those of the City, and the City may keep the supply of water to a property shut off until the time that the leak or fault is completely repaired; or
 - v. The City determines that an immediate threat of contamination to any part of the waterworks exists that may endanger public health or safety, for the purposes of preventing, limiting or containing any such threat of contamination; or
 - vi. An emergency or potential emergency exists and an owner or occupier has not provided to the City immediate free, clear and unobstructed access to the property, premises, private water

service pipe, private water system, water meter and any backflow prevention device in accordance with this By-Law, until the time that free, clear and unobstructed access to the property, premises, private water service pipe, private water system, water meter and any backflow prevention device is provided to the City.

- (d) In the event that water has been shut off for any reason provided in this By-Law or applicable laws, the City shall not be required to restore the supply of water to a property until all outstanding fines, charges, fees and rates in arrears in relation to the treatment and supply of water and collection and treatment of wastewater have been paid in full, or arrangements satisfactory to the Treasurer are made to pay all outstanding fines, charges, fees and rates in arrears, and all orders of the Director or Treasurer have been complied with.
- (e) With respect to any shut off or subsequent turn on of the water supply to a property under subsection 18.02 (c) or 18.02 (d), the owner or occupier shall pay to the City the amount specified in the Consolidated Fees By-Law, for water shut off or subsequent turn on.
- (f) The City shall, prior to the shut off of a water supply, provide reasonable notice of the shut-off to the owners and occupiers of the land or property by personal service or prepaid mail or by posting the notice on the land or property in a conspicuous place, except in those situations as identified under subsection 18.02 (c).
- (g) The City shall not be liable for damage or loss caused by the stoppage, interruption or reduction of the amount of water supplied to the land or property of any person as a result of an emergency or a breakdown, repair or extension of the waterworks if, in the circumstances, reasonable notice of the City's intention to stop, interrupt or reduce the supply of water is given or with no notice in the event of emergency shut-offs.

Section 19.00: Right to Suspend Supply

- 19.01 During normal maintenance and emergency conditions, the City shall provide as continuous and uninterrupted service as is practical.
- 19.02 Where shutting off portions of the system is deemed necessary by the City, warning of the shut off shall be given where it is practical or possible to reasonably do so. Where necessary, in the opinion of the City, the water may be shut off and kept off for as long as necessary, the City, its servants or agents shall not be held liable for any damage resulting there from, whether or not notice of the shut off was given.
- 19.03 The Director of Public Works has the authority to suspend the use of City owned bulk water fill stations during maintenance and/or emergency conditions.

Section 20.00: Responsibility of Owners and Occupiers

- 20.01 Where a new service has been installed or where the water has been turned off to an existing service, a request to activate the service must be received by the City a minimum of five (5) business days in advance of

- when the service is required and the request must be made by the property owner or occupier.
- 20.02 Every owner or occupier taking water shall, at their sole expense, keep their service pipe, private hydrant, other appurtenance and all plumbing fixtures connected within his premises, in good condition and sufficiently protected from frost, hot water, blows, and injuries from any or all other cause.
- 20.03 The City shall not be held responsible for any damage arising from the owner's or occupier's failure to comply with 20.02.
- 20.04 The owner or occupier's responsibility shall extend from the service box, at or near the street line limit, into the building.
- 20.05 If a condition is found to exist in subsection 20.02 of this by-law which, in the opinion of the City, results in the loss of water or may be jeopardizing the potability of the water supply, the City may either:
- (a) give notice to the owner or occupier to correct the fault, at the owner's or occupier's sole expense within a specified period, or
 - (b) shut off the water service or services until such time that corrective action, satisfactory to the City, has been taken by the owner or occupier at the owner's or occupier's sole expense.
- 20.06 When any property left vacant, unattended or without heat, where the water supply has not been shut off at the shut off valve by the City, and the property suffers damage to it and its contents from a leaking or burst water pipe, neither the owner nor occupier shall have a claim against the City.
- 20.07 When any property is left vacant, unattended or without heat, it is the owner's or occupier's responsibility to shut off the water supply from within the property and to properly drain the piping/private water service therein. Furthermore, it is the responsibility of the owner or occupier to contact the City to make the necessary arrangements to stop the supply of water to the property.
- 20.08 If the condition is found to exist after the owner or occupier has been notified, the City may, at its sole discretion, enter upon the lands where the service pipes are located, and by its officers, servants or agents effect repair at the owner's or occupier's sole expense.
- 20.09 If the said costs and charges are not paid on demand the City may collect them in the same manner as the water and wastewater rates.
- 20.10 The shut off valve installed upstream of the meter shall not be used by the owner or occupier.
- 20.11 Any person authorized by the City for the purpose of inspection, examination or effecting repairs of meters, fixtures and pipes of every kind used in connection with the supply of water to, or the use of water on such premises shall be allowed, at all reasonable times, and upon reasonable

notice given and request made, access to all parts of any premises to which water is supplied, for the said purposes.

Section 21.00: Shut-off and Turn-on by Request

21.01 No person shall turn on or shut off the supply of water to a property at the shut-off valve without the prior written authorization of the City.

21.02 Water Shut Off:

- (a) An owner or occupier of a property shall notify the City no less than five (5) business days in advance of the date and time which the owner or occupier requires the City to temporarily or permanently shut off the water supply to a property at the shut-off valve.
- (b) The owner's or occupier's notification shall be in writing if the owner or occupier requires the water supply to the property to be shut off permanently.
- (c) In the event that the property is occupied by tenants, the owner shall also provide the tenants with notice of the water shut off at the same time as the owner notifies the City under subsection 21.02 (a) and 21.02 (b).
- (d) The owner or the occupier's representative shall attend at the property at the time of the appointment to ensure that the City has access to the property, the water meter and the shut off valve.
- (e) In the case of an emergency, as determined by the City, the advance notice requirements in subsection 21.02 do not apply, however; the owner or occupier shall provide the notice as soon as possible in the circumstances.

21.03 Water Turn On:

- (a) An owner or occupier of a property shall notify the City at least five (5) business days in advance of the date on which a supply of water to a property is to be turned on.
- (b) The owner or occupier shall make an appointment with the City so that the City may attend at the property and turn on the water supply.
- (c) The owner or occupier or the owner's representative shall attend at the property at the time of the appointment to ensure the City has access to the property, water meter and the shut off valve.
- (d) Except in the case of an emergency or maintenance being performed on the waterworks by the City, the owner or occupier shall be present at the property when the water is either shut off or turned on by the City.
- (e) The owner or occupier shall have no claim whatsoever against the City by reason of any shut-off's that produce plumbing leaks when water is turned on. It is the property owner's responsibility to ensure the internal plumbing and appliances are properly drained to prevent damage due to freezing and thawing.

Section 22.00: Water Conservation Measures

22.01 At the City's discretion, no owner or occupier shall be allowed to use in any manner whatsoever, the water supplied by the City upon streets,

lawns, gardens, yards, or grounds of any description, except during those hours set by resolution, policy, or By-Law by the City.

- 22.02 The Director of Public Works shall give reasonable notice, in the circumstances, to the public of the implementation of water conservation measures, the date on which it is to take effect and the conditions of the water conservation measure.
- 22.03 Where the Director of Public Works has declared, lifted or downgraded water conservation measures in accordance with this By-Law, he or she shall cause notification to be made to the affected property owners by advertisement in various media outlets, including but not limited to local newspapers, other media, posting on the City's website, etc.
- 22.04 The City has the authority to implement water conservation measures when one or more of the following signs are observed and/or continue:
- (a) Well water levels are starting to drop below seasonal levels;
 - (b) Pump running times are longer than normal;
 - (c) Dry weather is predicted; and/or
 - (d) Water demand is higher than normal.
- 22.05 Where the Director of Public Works has declared that Phase One measures shall be implemented the following conditions apply:
- (a) A property with an odd-numbered municipal address shall water lawns, sports fields, grassy areas, trees, shrubs, gardens, flowers or other vegetation at that property on a day which is identified on the calendar with an odd number;
 - (b) A property with an even-numbered municipal address shall water lawns, sports fields, grassy areas, trees, shrubs, gardens, flowers or other vegetation at that property on a day which is identified on the calendar with an even number;
 - (c) Water of lawns, sports fields, grassy areas, trees, shrubs, gardens, flowers or other vegetation shall only be watered between the hours of:
 - i. Six o'clock (6:00 a.m.) in the morning and nine o'clock (9:00 a.m.) in the morning, or
 - ii. Seven o'clock (7:00 p.m.) in the evening and ten o'clock (10:00 p.m.) in the evening.
- 22.06 Where the Director of Public Works has declared that Phase Two measures shall be implemented the following conditions apply:
- (a) No persons shall water any lawns, sports fields, grassy areas, golf courses, trees, shrubs, gardens, flowers or other vegetation of any property;
 - (b) No washing of motor vehicles;
 - (c) No filling or topping up of any swimming pools, wading pools, hot tubs, garden ponds, and fountains and other outdoor water features; and
 - (d) No use of outdoor misting systems.

22.07 Notwithstanding subsection 22.05 and 22.06, the Director of Public Works may exempt the following from compliance of Phase One and Phase Two measures:

- (a) Municipal property (as governed by section 22.09)
- (b) The watering of flower beds, gardens, trees or shrubs on any property by hand;
- (c) Commercial facilities that rely on water for their operations (including but not limited to such uses as car washes, commercial garden centres and/or tree and plant nurseries);
- (d) Tee-off areas and putting greens on golf courses, newly sodded or seeded lawns, and newly planted trees, that have been in situ for thirty (30) days or less; and
- (e) The topping of swimming pools to maintain pumping/filtration capability and to comply with health and safety requirements.

22.08 In the event of any emergency, industrial and commercial operations may be required to cut back or to temporarily cease operations during the period required to address the emergency, if in the sole discretion of the City it is advisable to do so in order to ensure public safety in accordance with other applicable City By-Laws.

22.09 Municipal Property:

- (a) Where either Phase One or Phase Two measures have been implemented, the flower beds and shrubs on municipal property must be watered (by any method) at reduced levels, as determined by the Director of Public Works.
- (b) Where either Phase One or Phase Two measures have been implemented, sports fields on municipal property may be watered, on a case-by-case basis, as directed by the Director of Public Works.

Section 23:00: Fees, Charges, and Billing, and Responsibility for Payment

23.01 Frontage and Connection Charges:

- (a) Frontage charges shall be applied to all properties, including properties that are exempt from taxation, where a property fronts on a watermain and/or sanitary sewer main.
- (b) Frontage charges are calculated based upon the rates adopted by Council included in the Consolidated Fees By-Law.
- (c) Connection charges shall be paid as noted in the Consolidated Fees By-Law, prior to connection works commencing.

23.02 Costs of Disconnection of Service Connection:

- (a) In the event that an owner requests a disconnection of a service connection, the City shall determine:
 - i. The cost of providing that disconnection under the amounts specified in the Consolidated Fees By-Law, for that type of service disconnection, as may be established by the City from time to time; and

- (b) The property owner is responsible for all costs for the disconnection as required by the City including but not limited surface restoration, actual disconnection from main.

23.03 Temporary Hydrant Water Meter Fees:

- (a) If a person applies for a metered construction water service connection, either temporary or permanent, water shall be metered from the date water is first supplied to the property.
- (b) Water consumption registered on the water meter shall be billed in accordance with current City water rates.
- (c) No monthly construction water rate shall apply provided the water meter remains installed, undamaged, sealed and functioning properly.
- (d) Payment for all construction water shall be due immediately following use.
- (e) The City shall shut off the supply of water to the property if the fees and charges for the construction water are not paid in full when due.
- (f) The City shall not be obligated to turn the water on until the time that the construction water charges have been paid in full.

23.04 Shut-off and Turn-on by Request Fees: The owner or occupier shall pay to the City, for any shut off or turn on of the water supply to a property, the amount specified in the Consolidated Fees By-Law.

23.05 Water and Wastewater Service Charges:

- (a) A special meter reading charge as identified in the Consolidated Fees By-Law shall be charged to an individual service account when a reading is required for billing purposes at a time other than during the normal billing cycle.
- (b) A new account fee charge shall be charged to an individual service account at the time that the new account is commenced as per the Consolidated Fees By-Law.
- (c) A duplicate bill fee shall be charged as identified in the Consolidated Fees By-Law when a request has been made to provide the account holder with an additional copy of the bill.
- (d) Where an account holder has submitted a post-dated cheque for payment, and has requested the cheque be returned, a fee will be charged for the retrieval and return of the payment as identified in the Consolidated Fees By-Law.
- (e) Where an account holder has erroneously made an electronic payment to an account which is no longer in their name, the first transfer to the correct account will be done upon request at no charge, but when there are subsequent errors of the same nature made a fee will be charged for transferring the payment as identified in the Consolidated Fees By-Law.
- (f) An administration fee will be charged to accounts when the outstanding balance on the water/wastewater account is transferred to the municipal property tax account for the subject property for collection purposes.
- (g) Where a statement of activity on an account has been requested, a fee shall be charged as identified in the Consolidated Fees By-Law.

- (h) Where an invoice or notice is sent by registered mail a fee shall be charged and added to the service account as identified in the Consolidated Fees By-Law.
- (i) Where a duplicate receipt is requested for a service account, a fee will be charged for each year requested, as identified in the Consolidated Fees By-Law.
- (j) Where a payment has been returned to the City by a financial institution for any reason other than account holder deceased, a returned payment fee will be charged, as identified in the Consolidated Fees By-Law.
- (k) Where a notice is hand delivered to a property in a collection effort, a fee shall be charged and added to the service account as identified in the Consolidated Fees By-Law.
- (l) Where a utility certificate is requested to provide the financial status of an account, a fee will be charged for the certificate as outlined in the Consolidated Fees By-Law.
- (m) Where a final notice is required in respect of collection of delinquent accounts, a fee will be charged to the service account, as outlined in the Consolidated Fees By-Law.
- (n) Only one water meter per water service shall be supplied for billing purposes.
- (o) Where a service has been disconnected for failure to pay an outstanding amount or a provision of this By-law has not been complied with, a fee shall be charged, as identified in the Consolidated Fees By-Law.
- (p) Where a service has been disconnected as identified in 23.05 (o) and is to be reconnected a fee will be charged as set out in the Consolidated Fees By-Law.
- (q) The owner or occupier of each separately assessed parcel of land that is connected to a watermain and in which a water meter has been installed shall pay a consumption rate as set forth in Schedule "A" of this By-law. This charge shall commence upon the installation of the meter by the City at the property.
- (r) The owner or occupier of each separately assessed parcel of land that has been issued a water meter by the City shall pay a fixed rate charge for water as set forth in Schedule "A" of this By-Law, commencing upon installation of the meter by the City at the property.
- (s) The owner or occupier of each separately assessed parcel of land that fronts a watermain and is subject to the requirements of By-Law 2014-255 "Mandatory Connection By-Law" shall pay a Mandatory Connect Fee – Water as set forth in Schedule "A" of this By-Law, commencing January 1, 2020.

2019-172 Effective December 10, 2019

- (t) The owner or occupier of each separately assessed parcel of land that is connected to the sanitary sewer system shall pay a sewer consumption rate based upon water consumption shown through the water meter as set out in Schedule "A" of this By-Law.
- (u) The owner or occupier of each separately assessed parcel of land that has been issued a water meter by the City and will be connecting to the sanitary sewer system shall pay a fixed rate charge for sewer

usage as set forth in Schedule “A” of this By-Law, commencing upon issuance of the meter by the City.

- (v) The owner or occupier of each separately assessed parcel of land that fronts a sanitary sewer main and is subject to the requirements of By-Law 2014-255 “Mandatory Connection By-Law” shall pay a Mandatory Connect Fee – Sewer as set forth in Schedule “A” of this By-Law, commencing January 1, 2020.

2019-172 Effective December 10, 2019

- (w) The owner or occupier of each separately assessed parcel of land that is connected to a watermain where a water meter has not been installed shall pay a calculated water flat rate as set out in Schedule “A” of this By-Law.
- (x) The owner or occupier of each separately assessed parcel of land that is connected to the sewer system, and where the water consumption is not measured through a water meter, shall pay a calculated sewer flat rate for sewer charges as set out in Schedule “A” of this By-Law.
- (y) The owner or occupier of each separately assessed parcel of land who receives sewage service but not receive water supply service from the City, shall pay a calculated sewer flat rate as set forth in Schedule “A” to this By-Law.
- (z) The rates set out in Schedule “A” of this By-Law are effective upon passage of this By-law and may be amended from time to time.
- (aa) Where customers are invoiced for more than one flat rate charge per unit, these charges are based upon historical calculations undertaken prior to amalgamation, and will continue until repealed.

23.06 Billing and Payment Requirements:

- (a) The City’s Revenue and Taxation Division shall invoice residents on a quarterly basis, or at an alternate frequency as approved by Council, except where otherwise indicated in this By-Law.
- (b) Where necessary, quarterly invoices may be based upon estimates until the next reading may be obtained from the property.
- (c) In the case of payments received by mail, the date the payment is received shall be taken as the date of payment.
- (d) In the event the Treasurer determines that:
 - i. A meter is defective;
 - ii. A meter is not registering the correct amount of water used;
 - iii. The water meter reading has been incorrectly recorded;
 - iv. The person authorized to do so has been unable to obtain a water meter reading;
 - v. No water meter reading has been remitted to the City by the occupant or owner when requested to do so;
 - vi. A meter is unsealed or has an unsealed by-pass valve;
 - vii. A meter has not been installed; or
 - viii. The City implements an estimated reading program.

The Treasurer shall be entitled to estimate the water consumption at a property based on either the average consumption as shown by subsequent readings from a properly functioning meter accurately registering the water consumed at the property, or based on historical average consumption for the same or similar premises or use as

shown by an accurately registering meter at such premises during a similar time period and invoice the owner or occupier accordingly for both water and wastewater use.

- (e) Under special circumstances where it is, in the opinion of the Director of Public Works, expedient to allow or direct an owner or occupier to run water continuously, the Director may authorize such usage and in such cases the City shall adjust the water invoice to conform to the owner or occupier's normal pattern of water usage. This does not include water usage under the Freeze Prevention Program.
- (f) The City has the right to estimate consumption based upon use and water service size during provision of unmetered temporary water service.
- (g) Partial payments on sewer and water accounts that are in arrears shall be applied in each instance to the arrears longest outstanding.
- (h) Notwithstanding any water that may be lost or not consumed at a property as a result of a break, malfunction or leak in a private water system, the owner or occupier shall be liable for the payment of all water fees in relation to any such water.
- (i) In the event that a property has more than one owner or occupier, each owner or occupier shall be jointly and severally liable for payment of the utility account.
- (j) Where a deposit of a tenant has been received by the City, it shall be considered a guarantee that the tenant will observe and obey the rules and regulations of this By-Law and will pay any amounts due to the City.
- (k) Where a tenant has been responsible for the payment of water and wastewater rates, upon vacating the premises, immediate notification shall be given by the owner to the City. Upon receipt of such notice, the meter will be read and the tenant deposit, where applicable, less the amount of the water and/or wastewater account, shall be returned by the City by mail to the tenant.
- (l) Where an amount remains owing on a tenant's account after the application of the deposit, and the final invoice remains unpaid for a period exceeding thirty (30) days, the property owner will be advised of the balance owing, and a request for payment will be made.
- (m) If the balance on a tenant's account remains outstanding for over sixty (60) days, the amount will be transferred to the property taxes for the property where the water and/or wastewater services were provided and collected in the same manner as taxes.
- (n) An administration fee will be added to the water and/or wastewater account prior to an outstanding amount being transferred to the municipal property taxes for the subject property, for collection as identified in the Consolidated Fees By-Law.
- (o) All water and wastewater rates and other charges shall be a lien and charge upon the land of the owner, whether consumed by the owner of the land, or a tenant of the land.

23.07 Late Payment Charges: All fees and charges, including water and wastewater service rates, which are in arrears, levied under this section and which are added to the water accounts, shall be subject to a late payment charge, as identified in the Consolidated Fees By-Law.

Section 24.00: High Water Bill Adjustment and Mandatory Service Connection Appeals Committee

2019-008 Effective January 15, 2019

24.01 High Water Bill Adjustment and Mandatory Service Connection

Appeals Committee: A High Water Bill Adjustment and Mandatory Service Connection Appeals Committee is established to hear and rule on appeals pertaining to high water bill adjustments and the requirement for mandatory service connections (required by Section 2.01, 2.02 and 2.03 of By-law 2014-255, as amended).

2019-008 Effective January 15, 2019

24.02 Authority: The High Water Bill Adjustment and Mandatory Service Connection Appeals Committee may recommend to Council approval of high water bill adjustments or exemptions from mandatory service connections without prejudice or precedent to any other similar matter.

2019-008 Effective January 15, 2019

24.03 Composition and Appointment: The High Water Bill Adjustment and Mandatory Service Connection Appeals Committee shall be comprised of three members of Council appointed by Council.

2019-008 Effective January 15, 2019

24.04 Term: The Term of the Appointment of the High Water Bill Adjustment and Mandatory service Connection Appeals Committee shall be the same as the term of Council.

2019-008 Effective January 15, 2019

24.05 Administration: The High Water Bill Adjustment and Mandatory Service Connection Appeals Committee shall ensure that a member of City staff is assigned the role of secretary to the Committee with duties and obligations required in accordance with the Municipal Act.

2019-008 Effective January 15, 2019

24.06 Governance: The High Water Bill Adjustment and Mandatory Service Connection Appeals Committee shall be governed by the City's Procedural Water and Wastewater By-Law as amended from time to time by Council. With respect to Mandatory Service Connection appeals, appeals/exemptions to requirements of Section 2.01, 2.02 and 2.03 of By-law 2014-255 "A By-Law to Require Owners of Buildings to Connect Such Buildings to Drinking Water Systems and/or Wastewater Collection Systems in the City of Kawartha Lakes" (as amended), shall be considered by the Committee.

2019-008 Effective January 15, 2019

Section 25.00: General Provisions

25.01 Access:

- (a) No person shall deny access to the City to a property for any purpose as provided for in this By-Law.
- (b) No person shall deny access to the City to a property where that person has been given reasonable notice by the City, as the case may be, of the intent to exercise a power of entry in accordance with the Municipal Act, 2001.
- (c) The City may, in accordance with the requirements of this By-Law, enter upon a property to which water is supplied and wastewater collected by the City:
 - i. To inspect, repair, alter or disconnect the service pipes or wire, machinery, equipment and other works used to supply water and collect wastewater;
 - ii. To read, inspect, install, repair, replace, maintain or alter a water meter;
 - iii. To inspect a backflow prevention device;
 - iv. To determine whether water has been, or is being, unlawfully used; or
 - v. To shut off or reduce the supply of water.
- (d) If an owner or occupier discontinues the use of water at a property or the City lawfully decides to cease supplying water to land or property, the City may enter on the land or property:
 - vi. To shut off the supply of water;
 - vii. To remove any property of the City from the property; or
 - viii. To determine whether water has been, or is being unlawfully used.
- (e) The powers of entry of the City are subject to section 435 to 439, inclusive, of the Municipal Act, 2001.

25.02 Inspection:

- (a) Notwithstanding any other provision in this By-Law, an employee, officer or agent of the municipality may enter on a property at any reasonable time for the purpose of carrying out an inspection to determine compliance with this By-Law or an order or direction issued in accordance with this By-Law.
- (b) For the purposes of any inspection, the City may:
 - i. Require the production for inspection of documents or things relevant to the inspection;
 - ii. Inspect and remove documents or things relevant to the inspection for the purpose of making copies or extracts;
 - iii. Require information from any person concerning a matter related to the inspection; and
 - iv. Alone or in conjunction with a person possessing special or expert knowledge, make examinations or take tests, samples or photographs necessary for the purposes of the inspection.

- (c) No person shall fail or refuse to comply with a request by the City to produce for inspection any document or thing or information relevant to the inspection carried out by the City in accordance with Section 25.02.

25.03 The City may enter upon lands for the purposes of an inspection and the other activities set out in subsection 25.02 (a) or (b) under an order issued under section 438 of the Municipal Act, 2001.

- (a) Where a provincial court judge or justice of the peace has issued an order authorizing the City to enter on a property for the purpose of carrying out an inspection for the purposes and to exercise the powers set out in this section, no person, when requested to do so by the respective Director, shall neglect or refuse to produce or deliver any information or documents or things required by this By-Law.

25.04 Obstruction:

- (a) No person shall represent or cause to be represented that he or she is an owner or occupier of a property if he or she is not.
- (b) No person shall prevent, hinder, obstruct or interfere, or attempt to prevent, hinder, obstruct or interfere, in any manner, the Director(s) or Treasurer or their respective designate or any City personnel, agents or contractors in the exercise of an activity, power or performance of a duty under this By-Law or the administration or enforcement of this By-Law.
- (c) The activities of the Director(s) or Treasurer or their respective designate or any City personnel, agents or contractors referred to in subsection 25.04 (b) may include, without limitation, the following:
 - i. Entering in or upon, at any reasonable time without a warrant, any land, property or premises, except premises being used as a dwelling house in which case reasonable notice shall be provided under this By-Law and the Municipal Act, 2001; or
 - ii. Making such tests or taking such samples as the City deems necessary; or
 - iii. Inspecting or observing any plant, machinery, equipment, work activity or documents; or
 - iv. Reading, repairing, maintaining, altering, disconnecting, removing, replacing, installing or sealing a water meter, remote readout unit, backflow prevention device or any related item or any or all of the foregoing.

25.05 Protection from Damage:

- (a) No person shall uncover, make any connection with, or opening into, break, alter, remove, damage, destroy, deface or tamper or cause or permit the breaking, removal, damaging, destroying, defacing or tampering with:
 - i. Any part of the water and/or sewage works; or any seal placed thereon, or attached thereto, or
 - ii. Any permanent or temporary device installed in or on the water and/or sewage works for the purposes of flow measuring, sampling, testing, contamination prevention or other purpose

that the City may deem necessary for the administration of this By-Law or the operation or maintenance of the water and/or sewage works.

25.06 Damage to the Waterworks: any owner or person receiving water from the waterworks shall be responsible for ensuring that any action taken by that owner or person conforms at all times to the provisions of this By-Law and that owner or person shall be liable for any damage or expense arising out of their failure to properly protect the waterworks or to properly protect water from contamination or any other damage including the cost of investigation, disinfection, repairing or replacing any part of any waterworks damaged or water contaminated thereby.

25.07 Damage to the Sewage Works: any owner or person conveying wastewater to the sewage works shall be responsible for ensuring that any action taken by that owner or person conforms at all times to the provisions of this By-Law and By-law 2016-006 “Establish Management and Use of Sewer Works”, as amended, and that owner or person shall be liable for any damage or expense arising out of their failure to properly protect the sewage works.

25.08 Unauthorized Entry to Water and Sewage Works: Unless specifically authorized by the Director, no person shall enter into any chamber, structure, building or property associated with the water and/or sewage works.

25.09 Offences:

- (a) Every person who contravenes any provision of this By-Law, and every director or officer of a corporation, who knowingly concurs in a contravention by the corporation of any provision of this By-Law is guilty of an offence.
- (b) Any fine imposed under Section 26.00 shall be payable in addition to any fees and charges payable under this By-Law.
- (c) Every person who:
 - i. Willfully hinders or interrupts, or causes or procures to hinder or interrupt the City, or any of its officers, agents or servants, in the exercise of any of the powers conferred by this By-Law; or
 - ii. Willfully or negligently lets off or discharges water so that it runs waste or useless out of the waterworks system; or
 - iii. Every person found operating or tampering with a shut-off valve in any way may be prosecuted as provided for by this By-Law.
 - iv. Without lawful authority willfully opens or closes any hydrant, or obstructs the free access to any hydrant, shutoff valve, chamber, pipe, or hydrant chamber, by placing on it any building material rubbish, or other obstruction; or
 - v. Throws or deposits any injurious, or offensive matter into the water or waterworks, or upon ice, if the water is frozen, or in any way fouls the water or commits any willful damage or injury to the waterworks, pipes or water, or encourages the same to be done; or

- vi. Willfully alters any meter placed upon any service pipe or connection therewith, within or upon any building or other place, so as to lessen or alter the amount of water registered; or
- vii. Lays, or causes to be laid, any pipe or main to communicate with any pipe or main of the waterworks, or in any ways obtains or uses the water without the consent of the City; or
- viii. Being a tenant, occupier or inmate of any house, building or other place supplied with water from the waterworks; improperly wastes the water or without the consent of the City, lends, sells or disposes of the water, gives away, or permits it to be taken or carried away, used or applied to the use or benefit of another, or to any use and benefit other than his own or increases the supply of the water agreed for;

Is guilty of an offense, under this By-Law.

- (d) Every owner or occupier who willfully or knowingly impairs or alters a meter, or knowingly causes the same to be altered or impaired, so that the meter indicates less than the amount of water through it, shall be liable to pay the City double the value of the water indicated as having passed through the meter and in cases of non-payment of such expenses and charges, the water supply may be shut off by the City and not turned on again until all such expenses and charges are paid in full to the City and this, without prejudice, to the right of the City to bring action against such person to recover such expenses and charges in any court having competent jurisdiction.
- (e) This By-Law may be enforced by Municipal Law Enforcement Officer, the Treasurer, the Director of Public Works and the Director Engineering and Corporate Assets.

Section 26.00: Enforcement, Offence and Penalties

- 26.01 **Enforcement:** This by-law may be enforced by every municipal law enforcement officer and police officer or any person appointed by Council.
- 26.02 **Offence and Penalty:** It is an offence for a person to contravene any provision of this by-law, and every person who contravenes this by-law is guilty of an offence and, on conviction, is liable to a fine in accordance with the provisions of the Provincial Offences Act, R.S.O. 1990, Chapter P.33, as amended and to any other applicable penalty.
- 26.03 **Offences:** Any person who contravenes any provision of this by-law is guilty of an offence, and upon conviction, is liable to a maximum fine of not more than \$100,000.00, as provided for by Section 429 of the Municipal Act, 2001, S.O.2001, c.25 as amended.
- 26.04 **Corporation:** A director or officer of a corporation who knowingly concurs in the violation or contravention by the corporation of any provision of this by-law is guilty of an offence and upon conviction, is liable to a maximum fine of not more than \$100,000.00, as provided for by Section 429 of the Municipal Act, 2001, S.O.2001, c.25, as amended.

26.05 Multiple Offences: The conviction of a person for the contravention or breach of any provision of this by-law shall not operate as a bar to the prosecution against the same person for any subsequent or continued breach or contravention of any provision of this by-law. Each day that the offence continues shall be deemed a separate and distinct offence.

Section 27.00: General Enforcement Powers

27.01 Restraining Order: If this By-Law is contravened, in addition to any other remedy or penalty imposed by this By-Law, the contravention may be restrained by application by the City under the provisions of section 440 of the Municipal Act, 2001.

27.02 Order to Discontinue Activity:

- (a) Under the provisions of section 444 of the Municipal Act, 2001, the Director(s) or Treasurer may order any person who has contravened this By-Law or who has caused or permitted the contravention of this By-Law or the owner or occupier of the property on which the contravention occurred to discontinue the contravening activity.
- (b) Any person who contravenes an order under subsection 27.03 (a) is guilty of an offence.

27.03 Work Order:

- (a) Under the provisions of section 445 of the Municipal Act, 2001, the Director(s) or Treasurer may order any person who has contravened this By-Law or who has caused or permitted the contravention of this By-Law or the owner or occupier of the property on which the contravention occurred to do work to correct the contravention.
- (b) Any person who contravenes an order under subsection 27.03 (a) is guilty of an offence.

27.04 Remedial Action:

- (a) In accordance with section 446 of the Municipal Act, 2001, where any matter or thing is required to be done under this By-Law, in default of it being done by the person directed or required to do so, that matter or thing may be done by the City which shall be at that person's expense and the City may recover the costs incurred for doing such matter or thing from the person directed or required to do it by adding the costs to the tax roll and collecting them in the same manner as municipal property taxes.
- (b) For the purposes of subsection 27.04 (a), the Director(s) or Treasurer may enter upon the subject property at any reasonable time.

27.05 Document Retention: The owner shall retain any document to be produced for inspection or approval or retained under this By-Law by an owner of a property for a period of seven (7) years.

27.06 Notice:

- (a) Where an order is issued by the Director(s) or Treasurer, the person to whom the order is made shall be deemed to have received the order on the date it is posted in a conspicuous place at the subject property or delivered in person or three days after being posted by first class prepaid mail to the person at the last known address provided to the Director(s) or Treasurer, or where no address for the person has been provided, by first class prepaid mail to the address for the person identified on the tax rolls.
- (b) The manner of delivery, set out in subsection 27.06 (a), shall be in the discretion of the Director(s).

Section 28.00: Contact Information

28.01 For administering or enforcing the requirements under this By-Law or any other applicable By-Law or By-Law of the City, the City may require an owner of a property provided with a service connection or equipped with a water meter, or an owner of a property where a water meter is to be installed, to provide them with:

- (a) That owner's full name, mailing address and telephone number;
- (b) The full name, mailing address and telephone number of any occupants of the property; and
- (c) The full name, mailing address and telephone number of a person authorized by the owner to provide the City with access to the water meter or the location where a water meter is to be installed.

28.02 Every owner shall provide the Treasurer with a current contact name and telephone number within twenty-eight (28) days of a change in ownership or occupancy of a property.

Section 28.00: Administration and Effective Date

28.01 **Administration of the By-law:** The Director of Public Works, Director of Engineering and Corporate Assets and Treasurer is responsible for the administration of this by-law.

28.02 The Treasurer's authority in relation to this By-law is delegated to the Manager of Revenue and Taxation.

28.03 The Director of Public Works' authority in relation to this By-law is delegated to the Manager of Environmental Services and/or the Supervisor of Water and Wastewater Operations.

28.04 **Effective Date:** This By-law shall come into force on the date it is finally passed.

By-law read a first, second and third time, and finally passed, this 6th day of March, 2018.

Andy Letham, Mayor



Schedule A - 2020
Water and Wastewater

Cathie Ritchie, City Clerk

Schedule “B” – Rates/Fees for Septage Disposal as per “A By-Law to Govern Septage Disposal at City of Kawartha Lakes Sewage Works

Standard Septage Waste

	2015	2016	2017	2018	2019
Rate per 1000 gal	\$49.76	\$55.03	\$60.85	\$67.29	\$74.41
Rate per m ³	\$10.94	\$12.09	\$13.37	\$14.79	\$16.35

Holding Tank Waste

	2015	2016	2017	2018	2019
Rate per 1000 gal	\$20.66	\$28.47	\$39.21	\$54.02	\$74.41
Rate per m ³	\$4.54	\$6.26	\$8.62	\$11.87	\$16.35

Abattoir Waste

	2015	2016	2017	2018	2019
Rate per 1000 gal	\$20.66	\$28.47	\$39.21	\$54.02	\$74.41
Rate per m ³	\$4.54	\$6.26	\$8.62	\$11.87	\$16.35

Leachate

	2015	2016	2017	2018	2019
Rate per 1000 gal	\$6.31	\$6.46	\$6.62	\$6.79	\$6.96
Rate per m ³	\$1.39	\$1.42	\$1.46	\$1.49	\$1.53

- **Registration Fee of \$50.00 for all owners/haulers.**
- **Administration Fee for Septage Hauled from Outside Municipal Boundaries – Flat rate of \$7.00 per tonne.**
- **Environmental Compliance Charge – Flat rate of \$100 per load for Abattoir Waste.**

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PUR2020-010

Meeting Date: March 24, 2020

Title: 2020-07-OQ Gravel Resurfacing – Supply and Place Granular Material

Ward Number: All

Author and Title: Linda Lee, Buyer
Mike Farquhar, Supervisor, Technical Services

Recommendation(s):

That Report PUR2020-010, 2020-07-CQ Gravel Resurfacing – Supply and Place Granular Material, be received;

That Robert E. Young Construction Ltd. be selected for award of 2020-07-OQ Gravel Resurfacing – Supply and Place Granular Material for the total quoted amount of \$1,762,233.45 plus HST;

That subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreements to award the contract; and

That the Procurement Division be authorized to issue a Purchase Order.

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

In the 2020 capital budget, programs RD2006 Gravel Resurfacing and RD2014 Gravel Road Rehabilitation were approved. This tender is for the supply and deliver of Granular A material for roads identified within these programs. Once the product is delivered the application of the material on these road segments are done by Public Works staff.

Request for Quotation 2020-07-CQ Gravel Resurfacing – Supply and Place Granular Material was released and advertised in accordance with the Purchasing Policy.

The RFQ closed on February 13, 2020 and was opened in public by Mayor, Andy Letham and Linda Lee, Buyer. Quotations were received from the following:

Company	Quoted Price
Robert E. Young Construction Ltd.	\$ 1,762,233.45
Dufferin Aggregates	\$ 1,887,563.54

Rationale:

Staff recommends that Robert E. Young Construction Limited be selected for the award of Quotation 2020-07-CQ Gravel Resurfacing – Supply and Place Granular Material for the quoted price of \$1,762,233.45 plus HST.

References were checked and found to be favorable.

Other Alternatives Considered:

No other alternative is being considered as the competitive procurement process was followed and the lowest compliant bit was being recommended.

Financial/Operation Impacts:

Funds for 2020-07-CQ were approved in the 2019-2020 Capital Budget as indicated in the table below:

Capital Project Number	Project Budget	Other Committed Funds	Capital Project balance	Purchase Amount (excl. HST)	Contingency -10%	HST Payable	Total Amount	Project Balance
983200600	\$1,526,100	\$40	\$1,526,061	\$1,184,486	\$118,449	\$22,933	\$1,325,867	\$200,194
983181400	\$4,122,250	\$3,216,142	\$906,108	\$577,747	\$57,775	\$11,186	\$646,707	\$259,401
Total	\$5,648,350	\$3,216,181	\$2,432,169	\$1,762,233	\$176,223	\$34,118	\$1,972,574	\$459,595

*Other committed funds include site survey, inspections, current projects underway, internal staff time and wages.

Upon completion of the work, and remaining surplus or deficit will be dealt with through the capital close report presented to Council by the Treasury Department in accordance with the Capital Close Policy.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

This project relates to Goal 1 by maintaining the City's existing infrastructure:

- Goal 1 – A Vibrant and Growing Economy

Consultations:

Junior Accountant

Department Head E-Mail: jrojas@kawarthlakes.ca

Department Head: Juan Rojas, Director of Engineering and Corporate Assets

Department File: 2020-07-CQ

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PUR2020-011

Meeting Date: March 24, 2020

Title: Installation of Equipment for Fenelon Falls Water Treatment Plant

Description: Installation of the UV Disinfection System and Pumps for Fenelon Falls Water Treatment Plant

Ward Number: Ward 3

Author and Title: Linda Lee, Buyer
Nafiur Rahman, Engineering and Assets

Recommendation(s):

That Report PUR2020-011, **Installation of UV Disinfection System and Pumps for the Fenelon Falls Water Treatment Plant**, be received;

That Council authorizes the expenditure of \$419,244.84 not including HST for the installation of the UV Disinfection System & Pumps at the Fenelon Falls Water Treatment Plant;

That the Procurement Division be authorized to issue a purchase order.

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

The current disinfection process at the Fenelon Falls Water Treatment Plant (WTP) often exceeds the Ministry of the Environment, Conservation and Parks (MECP) compliance limit of disinfection by-products (specially Trihalomethanes (THM)). In order to be in compliance with MECP, a multi-barrier disinfection process with utilizing Ultra Violet (UV) and Chloramination has been designed and also approved by MECP. Along with the disinfection process upgrades, the existing low-lift pumps will also be replaced as they reached their service life.

At the Council Meeting of January 28, 2020, Council authorized the single source purchase to OCWA for the UV Disinfection System and Pumps for the Fenelon Falls WTP upgrades. OCWA has received three (3) quotes for the installation of equipment previously authorized for purchase along with other associated upgrades.

As OCWA is the operating authority for the Fenelon Falls WTP and maintains the overall responsibility for operations within the plant, they are required to be on site to oversee this project.

Rationale:

Staff recommend that Council authorize the expenditure of \$419,244.84 not including HST for the installation of the UV Disinfection System & Pumps at the Fenelon Falls Water Treatment Plant.

Other Alternatives Considered:

No other alternatives are being considered as OCWA holds the contract for operations at the Fenelon Falls WTP and has obtained 3 quotes in accordance with the City's Purchasing Policy.

Financial/Operation Impacts:

Capital Project Number	Project Budget	Other Committed Funds	Capital Project Balance	Purchase Amount (including HST payable)	Contingency 10%	Total Amount	Project Balance	Project Balance
998190104	\$1,443,000	\$754,761	\$688,239	\$411,994	\$41,199	\$7,977	\$461,170	\$227,069

*Other committed funds include internal staff time / wages and previously awarded contracts.

Any remaining surplus or deficit will be dealt with through the capital close report presented to Council by the Treasury Department in accordance with the Capital Close Policy.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

This project relates to Goal 3 by ensuring water treatment plant operations continue to operate effectively and efficiently.

Goal 3 – A Healthy Environment

Consultations:

Junior Accountant

Department Head E-Mail: jrojas@kawarthalakes.ca

Department Head: Juan Rojas

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PUR2020-008

Meeting Date: March 24, 2020

Title: Request to increase the value of the purchase order for the Complete Design, Construction Documents and Contract Administration for the HVAC System Replacement at City Hall from the preexisting approved budget.

Description: Award an increase in funds to the existing purchase order, from previously approved budget, on the original Single Source to +VG Architects for the Design, Construction documents and contract administration for the HVAC system replacement at City Hall, based upon the design development drawings previously obtained.

Ward Number: All

Author and Title: Krystina Cunnington, Buyer
Jocelyn Gill, Supervisor Capital Project Delivery

Recommendation(s):

That Report PUR2020-008, Request to increase the existing purchase order amount for the Design, Development of HVAC Systems at City Hall, be received;

That Council authorize value of single source procurement for consulting services from +VG Architects for the Design, Development of HVAC System at City Hall from \$77,750.00 to \$313,250.00; a total increase of \$235,500.00.

That upon approval, the Financial Services Division be authorized to amend the purchase order for the revised amount proposed.

Department Head: _____

Financial/Legal/HR/Other: _____

Chief Administrative Officer: _____

Background:

A capital project 953180102 has been approved as a multi-year project for the HVAC system replacement at 26 Francis Street known as City Hall. The project commenced in 2018 and has been approved as a multi-year through until 2022.

The project initiated in 2019 with a Single Source award to +VG Architects to complete an Upgrade Assessment and Feasibility Study of the existing HVAC, Lighting and Fire and Life Safety Systems in the facility. This was award to +VG Architects through our Request for Services Roster document.

In 2019 +VG Architects was attained with a single source through the Request for Services Roster for the complete Detailed Design for the entire HVAC project, but only Working Drawings and Construction Administration for the replacement of the cooling tower at City Hall to have expired equipment replaced to avoid high risk of failure. This Phase 1 work was based upon the need to have the expiring equipment replaced prior to failure, in the appropriate season. The original single source was approved for the amount of \$70,250.00 and a change order for the amount of \$7,500.00 for disbursements was included, for a total of \$77,750.00 including all fees and disbursements. This work was not able to proceed as only two quotes were received for the Request for Quotations, requiring council approval. Based on Council Meeting dates, it was not feasible to complete the work prior to winter weather.

In order to proceed with the project, additional services from +VG Architects are required for Phase 2 & 3. This work is in conjunction with the pre-existing work that was completed, but this component does not include time sensitive execution to the degree the previous award was based upon.

The City Hall Systems as a whole is past useful life, already experiencing high rate of major repair and at risk of significant system failure. It is important to proceed to complete the Design, Contract Documents and Construction Administration for the remaining components of the project. It is beneficial for the City to award to +VG Architects as they have already been awarded and completed contract documents for the first phase of the work. Numerous hours have been spent on site by the Prime Consultants and Sub Consultants, they have completed digital drawings and engineering work has been completed for design. Obtaining a new Prime Consultant for the remainder of the work would not prove to be cost effective as a result of this. In addition to this, it is mandatory that components of the work be completed during certain seasons throughout the year. If a new Prime Consultant was obtained, it would push the project behind as a formal quotation process would be required. We would be adding months through the procurement process, and then pushing the project back one full heating and one full cooling season. This poses concern as the

existing equipment is well passed its life expectancy and many regular repairs are being made to the equipment to keep it functioning.

In order to proceed with this critical work, it is necessary to increase the existing single source purchase order by \$235,500.00 to complete the remaining phases which is within the pre-approved budget. This will bring the existing single source to a total value of \$313,250.00 which includes all fees and disbursements.

It is important to note, that this increase is still within the previously approved funding allotment for the project and requires no new dollars.

Rationale:

Staff recommend that Council approve the increase to the existing single source to +VG Architects by the amount of \$235,500.00 for the Design, Contract Documents & Contract Administration for the HVAC Systems at City Hall from the preapproved project budget.

Other Alternatives Considered:

No other alternatives are being considered as the City's Purchasing Policy allows for a single source when there is not alternative or substitute good exists that meets the specific of unique technical components.

Financial/Operation Impacts:

Project Number	Project Budget	Other Committed Funds *see below	Project Balance	Purchase Amount (excl. HST)	10% Contingency	HST Payable	Total Amount	Project Balance
953180102	\$1,090,000	\$230,257	\$859,743	\$235,500	\$23,550	\$4,715	\$263,765	\$595,979

*Other committed funds include pervious work completed and site works.

Upon completion of the work, the remaining surplus or deficit will be dealt with through a capital close report presented to Council by the Treasury Department in accordance with the Capital Close Policy.

Relationship of Recommendation(s) To The 2020 - 2023 Strategic Plan:

The City of Kawartha Lakes 2020-2023 Strategic Plan identifies its strategic priorities as the following:

- A Vibrant and Growing Economy
- An Exceptional Quality of Life

- A Healthy Environment
- Good Government

The Proposed Request for increase to the purchase order amount for the Complete Design and Construction Documents and Contract Administration for the HVAC System Replacement at City Hall implements the City's vision as outlined in the City of Kawartha Lakes Strategic Plan by supporting the Healthy Environment and Good Government strategic priorities which contributes to the health and safety of City Staff as well as helps to keep our municipal asset (City Hall) well maintained.

Consultations:

Junior Accountant
Procurement

Attachments:

Appendix A – Single Source +VG Architects



Appendix B – Fee Proposal No220027-3P



Department Head E-Mail: cshanks@kawarthalakes.ca

Department Head: Craig Shanks, Director of Community Services



**City of Kawartha Lakes
Purchasing Department**
26 Francis St., P. O. Box 9000
Lindsay, Ontario K9V 5R8
Telephone: (705) 324-7930
Fax: (705) 324-7058
purchasing@kawarthalakes.ca

Single or Sole Source Approval Request Form

Failure to plan and allow sufficient time for a competitive procurement process does not constitute an unforeseeable situation for this Single or Sole Source Approval Request or urgency.

This form denotes a purchase in which the terms and conditions are negotiated and an award may be in the form of a purchase order and/or contract. An Electronic Procurement Request (EPR) must be processed with the SS Approval Request Form attached and any other information and forwarded to Purchasing through SharePoint.

X Single Source: There is more than one supplier or distributor in the market for a good or service but only one is able to meet the specific requirement.

☐ **Sole Source:** There is only one supplier capable of meeting requirements and specifications; there isn't any other supplier or distributor in the market.

Purchase Requested By:

Jim Marshall Building and Property June 3, 2019
Name, Department Date of Request

Company/Consultant Name: +VG Architects, The Ventin Group

Requirement: Design, Development Phase 1 of HVAC Systems at City Hall

Details of Requirement:

Capital Project: 953180102 City Hall HVAC, Lighting and Life Safety

We are proposing a single source for design and contract documents for the layout and installation of the HVAC system as well as the Lighting and Life Safety systems to reduce cost and time, to mitigate risk of failure and to support the installation of a new HVAC system throughout the building replacing the 30 plus year old system and to support the installation of the upgrades out dated and not code compliant Fire and Life Safety systems.

Risk include could include:

- Failure of HVAC equipment causing possible downtime of building
- Worst downtime of IT Main Server
- Failure or partial failure of the fire alarm system is a possibility too

Building and Properties is tasked with managing the design and contract documents with failures possible by allow VG Architects the original Architect or record on file for the building we can save time and cost. As we require completed design and construction documents by the middle of July to allow us to move forward with phase one replacement of the cooling tower late October 2019. This is also required for input into the multi year Capital plan by August/September 2019. These critical time frames have be discussed and agreed upon by CAO Taylor and Director Shanks.

Recent projects by VG Architects include the City Hall Council Chambers and Victoria Room Renovations. Previous projects included an assessment of the existing building, identifying recommendations for repair in priority sequence and costing to complete the work. This was tendered and awarded to VG Architects in 2014. In 2015, a project was undergone to complete Phase 1 Envelope work which included flat roof, slate roof, window restorations, and brick repairs. The consultant for the project was VG Architects who were awarded through another Request for Proposals process. Phase 2 was awarded in 2016 through Single Source to VG Architects and included work on the Skylights, Curtain walls, windows, tower and east side heritage stair. This work is still underway, with the expectation to be completed in Q1 2018.

VG Architects has not only been consultants for current projects on 26 Francis Street, City Hall. Obtained through competitive processes, but also for projects in previous years, dating as far back as 1986 when they designed the addition on the north end of the building. Throughout the course of the projects, they have become extremely familiar to the building itself, as well as protocols and requirements at the building.

By obtaining VG Architects to complete the Design, Contract Documents and Contract administration for the current 2019 project for City Hall HVAC. The City will save costs and time for the project, as VG already has existing working drawings of the buildings completed. They will not need to complete additional in depth examinations of the building. Both of these items will avoid duplication of work that one consultant has already completed.

It has been reviewed with Director Shanks, CAO Taylor and staff at Finance that similar capital projects at City Hall that are currently underway/planned shall be combined and treated as a single multi-year project. Finance has not ye completed that adjustment to the account, but it is in progress. The financials presented below are therefore showing as it has already been done.

Estimated Total Purchase Value (attach quote): \$ _____ \$ 70,250.00 _____ (not incl. HST)

Form of Commitment: ☒ Purchase Order: ☐ and/or Agreement:

Financial Information

Capital Project Number:	953180102
Account Number:	953180102.17040.90000
Budget:\$	1,525,911.41
Balance Available: \$	229,797.69
Taxes Payable and Amount:	9,132.50 + 70,250.00 = 79,382.50
Remaining Budget: \$	150,415.19

Purchase Frequency:

☒ One Time Requirement ☐ Multi-Year Requirement

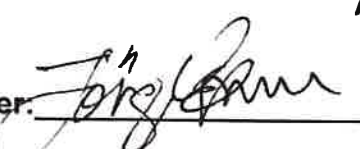
Contract Term or Expected Service Delivery: _____ Q4 2020 _____

Consultation with the City's Insurance Risk Management Coordinator has taken place to ensure no litigation is in progress.

☐ Yes ☒ No

☒ Indicate the justification to support this Single or Sole Source request to exempt this purchase from soliciting quotations or competitive bids. If other rationale exists, please attach further explanation.

Approval to the Request

Manager: 

Director: 

Fin. Serv. Supervisor: _____

CAO: _____

Note: Over \$100,000 requires Council Approval

<input checked="" type="checkbox"/> There is documented evidence that the extension or reinstatement of an existing contract for one additional term would prove most cost effective or beneficial.	<input type="checkbox"/> No alternative or substitute good exists that meets the specific or unique technical components or replacement parts for this purchase.
<input type="checkbox"/> Goods and services are in short supply due to market conditions.	<input type="checkbox"/> Specific standards are adopted by Council.
<input type="checkbox"/> Work is required at a location where a vendor has already been secured through a recent competitive procurement process, with established unit prices and it is considered to be beneficial and cost effective to extend the unit prices for the work to be completed.	<input type="checkbox"/> The subject matter of the requirement is of a confidential or privileged nature and to disclose through a competitive procurement process could compromise security, cause economic disruption or otherwise be contrary to public interest.
<input type="checkbox"/> The procurement is for construction materials where transportation costs and technical considerations impose geographic limits on the available supply base specifically in the case of sand, stone gravel, asphalt, compound and pre-mixed concrete for the use in the construction or repair of roads.	<input type="checkbox"/> To ensure compatibility with an existing product, equipment, facility or service required and the vendor has the skills related to an existing knowledge of the nature of the service. This recognizes exclusive rights such as licenses, copyright and patent rights, warranty or guarantees held or to maintain specialized products that must be maintained by the manufacturer or its representatives.
<input type="checkbox"/> Only one bid/proposal or none is received through the procurement process and it is impractical to reissue the requirements of the call.	<input type="checkbox"/> There is only one vendor that can provide the good or service by the specific date required.
<input checked="" type="checkbox"/> Other reason not provided for in this list and as indicated in the attached report.	Best cost, best time frame, best knowledge of the building, reduces risk factors



May 30th, 2019

Proposal No. 2019160P

Jim Marshall, Building Systems Technician
Building & Property Management
City of Kawartha Lakes
31 Mary Street East,
Lindsay, ON K9V 1V3

Dear Jim:

**RE: PROPOSAL FOR PRIME CONSULTING SERVICES FOR HVAC UPGRADES AT KAWARTHA
LAKES CITY HALL – PHASE I**

Further to your recent request, we are pleased to provide the following proposal for provision of Prime Consulting Services for the design and construction administration of HVAC Upgrades at Kawartha Lakes City Hall. We understand the upgrades will be based upon Option 2 as described in the recently completed HVAC Systems Study prepared by Integral Group.

Phase I of this project includes the schematic design and detailed design for the whole HVAC Retrofit but only the working drawings, tender and construction administration for the replacement of the closed circuit cooler (cooling tower) and the underground piping and conduit to the unit.

We look forward to continuing to provide services to the City in the on-going management and maintenance of your property portfolio. Please do not hesitate to contact the undersigned with any questions you may have.

Yours very truly,
+VG Architects

Chris Hall, BES, B.Arch, OAA, MRAIC
Partner

Attachment

Copy to: Peter Berton, +VG Architects

SECTION 4 OUTLINE OF SERVICES

1.0 DESIGN / CONTRACT DOCUMENT PHASE

- 1.1 Prepare ACAD drawings as required from hard copy drawings obtained from +VG's archives to establish 'backgrounds' for development of the mechanical system design.
- 1.2 Review site conditions and available documentation and reports.
- 1.3 Complete schematic and detailed design and coordination of ventilation, water source VRF heating and cooling systems (air conditioning) including closed circuit cooler and boiler replacement (new condensing boiler).
- 1.4 Schematic and detailed design for the design of new roof mounted ERV (Energy Recovery Ventilators) for fresh air/exhaust air with new humidifiers, VAV and CAV boxes.
- 1.5 Schematic and detailed Design of new IT Computer Room A/C units.
- 1.6 Schematic and detailed design of new pumps and hydronic piping as required to suit new design.
- 1.7 Schematic and detailed design of new refrigerant piping design and routing.
- 1.8 Schematic design and performance specifications for new building automation system (BAS).
- 1.9 Schematic and detailed design of reworking of condensate drainage for fan coil and water source VRF units.
- 1.10 Demolition drawings created from PDF's of existing HVAC systems with demolition notes for this phase of work.
- 1.11 Describe architectural and structural scope of work.
- 1.12 Prepare schematic design summary identifying design approach and project scope. Provide cost estimate.
- 1.13 Meet with City stakeholders to review project scope.
- 1.14 Working drawings, tender and construction administration of new closed circuit cooler.
- 1.15 Prepare electrical power design to coordinate with new mechanical equipment.
- 1.16 Prepare contract documents including drawings and specifications for tendering. Submit documents at 90% complete for client review and comments.
- 1.17 Meet with client at 90% stage.
- 1.18 Issue Closed-Circuit Cooler documents for tendering by Client.

2.0 TENDERING PHASE

- 2.1 Attend bidder site meeting during tendering period.
- 2.2 Review tender submissions and provide recommendations.

3.0 CONTRACT ADMINISTRATION & SITE REVIEW PHASE

(assume duration of 10 weeks)

- 3.1 Attend start-up meeting with contractor to ensure the contract requirements are fully understood and all site conditions are understood.
- 3.2 Conduct site visits to review the progress of the work and ensure it complies with the contract documents as follows:
 - Architectural – 2 visits
 - Mechanical – 2 visits
 - Electrical – 1 visit
 - Structural – 1 visit
- 3.3 Prepare and issue field review reports for each visit, including non-professional quality progress photographs of the work.
- 3.4 Attend two (2) site meetings and review the contractor's site meeting minutes.
- 3.5 Review shop drawings, samples and submissions to ensure conformity with the contract documents.

This is our confirmation that +VG Architects (Legal Name: The Ventin Group (Toronto) Ltd.) is licensed to practice architecture in the Province of Ontario.

ONTARIO ASSOCIATION OF ARCHITECTS



CERTIFICATE OF PRACTICE

is hereby granted

THE VENTIN GROUP (TORONTO) LTD., ARCHITECTS

to practise Architecture as a

CORPORATION

under the Architects Act, 1990

Given under the Corporate Seal of the Association

at Toronto this 13th day of May 1998



Michael Rockwell
Registrar

Certificate No. 3356

*This Certificate is the property of the Association
and must be surrendered when revoked.*

APPENDIX 2 INSURANCE COVERAGE

This is our confirmation that we have the necessary Commercial General Liability Insurance to satisfy the requirements of the RFP. An official policy certificate including Additional Insured is available upon request.



Certificate of Insurance issued on January 4, 2019

Named Insured:

The Ventin Group Ltd
The Ventin Group (Toronto) Ltd.
50 Dalhousie St.
Brantford, ON

Policy Details:

Intact Insurance

Property Policy #5011809951 Policy Term January 1, 2019- January 1, 2020

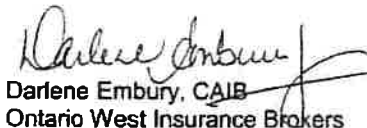
Auto Policy #711470539 Policy Term January 1, 2019- January 1, 2020

D & O Policy #PV-406829 Policy Term August 1, 2018 - August 1, 2019

Certificate issued to:

This is a confirmation of insurance for tender purposes. Once a contract has been established we will be pleased to issue a certificate of insurance at that time.

Additional Insureds are listed for liability only and only as a result of the insureds operations. Note that in the Province of Ontario the additional insured does NOT extend to automobile policies.


Darlene Embury, CAIB
Ontario West Insurance Brokers

67 Robinson St.
Simcoe, ON N3Y 1W5
www.ontariowest.ca
Phone: (519) 426-4606 Toll Free: (888) 426-4606 Fax: (519) 426-7204

LeAnn Donnelly

From: Jim Marshall
Sent: Thursday, June 06, 2019 10:37 AM
To: LeAnn Donnelly
Cc: Jörg Petersen
Subject: RE: SS Request
Attachments: 0664_001.pdf

Hi LeAnn

Jörg gave me a list of projects (see attached) that were to be combined to create a single multiyear project which has not happened yet. The figures in this list as per Jörg came from Leanne Mitchell. Jörg told me to only include the following projects 953180102 HVAC (370,000.00 Budget), 953180109 Council Chambers & Victoria Rm (497,911.41 Budget), 953190102 HVAC (620,000.00 Budget), and 953180103 Council Chambers & Victoria Rm (38,000.00). This equals Budget total of \$ 1,525,911.41. As per attached sheet total spend to date 1,296,113.72.

Total available:

Total budget	1,525,911.41
Total Spend to date	1,296,113.72
Total available	229,797.69

Please note that 953180107 Basement Interiors and 953180108 Flooring are not include as they are not to be part of the projects to be combined.

I hope this helps

Thanks for all your help

Jim Marshall

Building Systems Technician
Building & Property, City of Kawartha Lakes
T: 705-324-9411 ext. 2328 www.kawarthalakes.ca
C: 705-879-2552



Please note:

All Building and Property email invoices must be sent to ap@kawarthalakes.ca as of June 1st, 2019. Mailed invoices are to be sent to PO Box 9000, Lindsay, Ontario K9V-5R8

From: LeAnn Donnelly
Sent: Thursday, June 06, 2019 10:02 AM
To: Jim Marshall
Subject: SS Request

Hi Jim,

I hope you are enjoying the sunshine!

I am having trouble understanding where you got your figures from for the attached SS. 953180102 had \$370,000 budgeted. As I understand it \$620,000 from 953190102 will be rolled into that which makes a total of \$990,000 (although that hasn't actually been done yet). Where are you getting the \$1,525,911.41 from? And how are you determining what was available?

We should really be providing how we came up with our figures to the SS request (reports, print screens, or whatever we used). If we don't purchasing may not approve it and then it will take more time to get things processed. If you need any help figuring out what to attach let me know, I am happy to help.

Thanks,

LeAnn Donnelly
Executive Assistant
Community Services, City of Kawartha Lakes
705-324-9411 ext. 1300
www.kawarthalakes.ca



Project Number City Hall	Budget	Spent to date	Budget Balance
953180102 HVAC	370,000.00	368,659.60	1,340.40
953180107 Basement Interiors	20,000.00	995.71	19,004.29
953180108 Flooring	40,000.00	-	40,000.00
953180109 Council Chambers & Victoria Rm	497,911.41	925,977.85	(428,066.44)
953190102 HVAC	620,000.00	1,476.27	618,523.73
953180103 Council Chambers & Victoria Rm	38,000.00	-	38,000.00
953190103	1,585,911.41	1,297,109.43	288,801.98

1296,113.72

February 6, 2020

Proposal No. 220027-3P

Jocelyn Gill, Supervisor, Capital Projects Delivery,
Building & Property Management,
City of Kawartha Lakes
31 Mary Street East,
Lindsay, ON K9V 1V3

Dear Jocelyn:

RE: Proposal for Prime Consulting Services for HVAC System Replacement in Three (3) Construction Phases at Kawartha Lakes City Hall

Further to your recent request, we are pleased to provide the following proposal for provision of Prime Consulting Services for the design and construction administration of HVAC System Replacement at Kawartha Lakes City Hall. We understand the replacement will be based upon HVAC system design development drawings; November 2019 prepared by Integral Group.

We look forward to continuing to provide services to the City in the on-going management and maintenance of your property portfolio. Please do not hesitate to contact the undersigned with any questions you may have.

Yours very truly,
+VG Architects



Chris Hall, BES, B.Arch, OAA, MRAIC,
Partner

Attachment

Copy to: Jim Marshall, City of Kawartha Lakes

SECTION I BACKGROUND

The historic Kawartha Lakes City Hall was renovated, selectively restored and added to in 1986 based upon a design prepared by our firm known at the time as C.A.Ventin Architect Limited. The building has been occupied since that time as the home of the municipal offices.

In general, the existing HVAC system has been problematic with ongoing complaints from staff leading to costly service calls and repairs as the HVAC systems are now at the end of the expected service life and replacement parts are becoming very difficult to obtain. Furthermore, the City of Kawartha Lakes (CoKL) would like to move towards a low carbon solution in keeping with Corporate Energy Management and Sustainability Plan objectives.

SECTION 2 UNDERSTANDING & PROJECT SCOPE

A portion of the design services related to the HVAC System replacement has already been completed including Design Development Drawings for the complete system and tender documents for the exterior infrastructure portion of the scope. The replacement cooling tower was sized by Integral Group and ordered and purchased by CoKL in the fall of 2019 and is stored for installation as part of this project.

The project consists of the design of the architectural aspects of affected areas of the building, working drawings for HVAC systems and associated architectural and structural scope, tender of HVAC Systems in 2020 and construction administration for the HVAC work over three phases (2020, 2021, 2022). Based upon information provided in a Class C Cost Estimate prepared by A.W. Hooker & Associates, January 16, 2020, we estimate that the construction cost for the HVAC system replacement project delivered over three fiscal years is \$3,850,000 including a 10% Construction Contingency and excluding HST.

We will coordinate all disciplines and act as prime contact for the CoKL.

Based upon recent discussions, we understand that the project will be completed in three distinct phases to ensure continued partial occupancy of the building during each phase of construction. The areas being renovated will be vacated but the balance of the building will remain occupied during construction. We also understand that existing millwork affected by the HVAC removals and new installations will be removed but not replaced and flooring will be patched as necessary but not replaced wholesale as part of this project.

SECTION 3 PROJECT TEAM

Based upon our discussions and understanding of the project scope, we have obtained proposals from the following sub-consultants:

Mechanical & Electrical Engineer: Integral Group
Structural Engineer: Tacoma Engineering

These sub-consultants will provide services in the development of the contract documents in addition to the architectural services provided by **+VG Architects**.

No other consultants have been included on the project team.

SECTION 4 OUTLINE OF SERVICES

1.0 DESIGN STAGE

- 1.1 Prepare architectural design drawings and complete selections for new ceilings and wall and ceiling finishes impacted by the work.
- 1.2 Design of structural scope of work for new rooftop mechanical equipment.
- 1.3 Meet with CoKL Project Manager and stakeholders to review design approach to associated architectural and structural scope.
- 1.4 Prepare project schedule based upon design approach.
- 1.5 Obtain CoKL approval to proceed with contract documents.

2.0 CONTRACT DOCUMENT STAGE

- 2.1 Prepare contract documents including drawings and specifications for tendering.
- 2.2 Develop phasing diagrams delineating work in each phase.
- 2.3 Combine and format previously prepared exterior works drawings within drawing package.
- 2.4 Submit documents at 50% and 90% complete for CoKL review and comments.
- 2.5 Prepare Class A Cost Estimate at 90% complete.
- 2.6 Meet with client at 50% & 90% stages.
- 2.7 Issue documents for tendering by CoKL.

3.0 TENDERING PHASE

(Assume Q3 2020)

- 3.1 Assist in pre-qualification of General Contractor and Mechanical sub-Consultants.
- 3.2 Attend bidder site meeting during tendering period.
- 3.3 Respond to bidders' questions and prepare addenda as required.
- 3.4 Review tender submissions and provide recommendations.

4.0 CONTRACT ADMINISTRATION & SITE REVIEW PHASE

(Assume Duration of 4-6 Months per Phase)

- 4.1 Attend start-up meeting with contractor to ensure the contract requirements are fully understood and all site conditions are understood.
- 4.2 Conduct site visits to review the progress of the work and ensure it complies with the contract documents as follows:
 - Architectural – 8 visits per phase (24 total visits)
 - Mechanical – 4 visits per phase (12 total visits)
 - Electrical – 2 visits per phase (6 total visits)
 - Structural – 2 visits per phase (6 total visits)
- 4.3 Prepare and issue field review reports for each visit, including non-professional quality progress photographs of the work.
- 4.4 Attend site meetings and review the contractor's site meeting minutes.
- 4.5 Review shop drawings, samples and submissions to ensure conformity with the contract documents.
- 4.6 Issue Supplemental Instructions, Proposed Changes and Change Orders when required.
- 4.7 Review contractor's applications for payment and issue Certificates of Payment.
- 4.8 Review for substantial completion and issue deficiency list.
- 4.9 Follow up and confirm outstanding work is completed and review close-out document.

SECTION 5

FEES

+VG Architects Fee

Design.....	\$ 7,500
Contract Documents Phase	\$ 35,000
Tendering Phase.....	\$ 6,500
Contract Administration and Site Review Phase	
Phase 1 (8 visits).....	\$ 19,500
Phase 2 (8 visits).....	\$ 19,500
Phase 3 (8 visits).....	\$ 19,500
Sub-Total +VG Architects Fee.....	\$107,500

Sub-Consultant Fees

Integral Group (Mechanical & Electrical)

Contract Documents Phase	\$ 61,000
Tender.....	\$ 4,000
Contract Administration & Site Reviews	
Phase 1 (4 Mech & 2 Elect visits)	\$ 10,000
Phase 2 (4 Mech & 2 Elect visits)	\$ 12,000
Phase 3 (4 Mech & 2 Elect visits)	\$ 13,500
Integral Fee Total.....	\$100,500

Tacoma (Structural Engineering)

Design/Contract Documents Phase	\$ 7,500
Contract Administration & Site Reviews	
Phase 1 (2 visits).....	\$ 2,500
Phase 2 (2 visits).....	\$ 2,500
Phase 3 (2 visits).....	\$ 2,500
Tacoma Fee Total	\$ 15,000

SUB-TOTAL SUB-CONSULTANT FEE **\$115,500**

TOTAL FEES **\$223,000**

SECTION 6

HOURLY RATES

Our hourly rates for the current year are as follows:

Principal/Partner.....	\$225.00
Project Architect/Manager	\$175.00
Senior Engineer	\$150.00
Lighting Engineer.....	\$130.00
CADD Technician	\$120.00
Clerical / Accounting staff.....	\$ 75.00-90.00

SECTION 7

DISBURSEMENTS

All out of pocket expenses including long distance telephone, printing, photocopying, facsimile transmissions, plotting, travel at 60¢ per km. etc., will be in addition to the above fees and will be billed to you at cost. We would recommend that CoKL assume an allowance of \$12,500 for disbursements.

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PUR2020-009

Meeting Date: March 24, 2020

Title: Transportation and Recycling of Mixed Construction and Demolition
Material at Lindsay Ops Landfill

Ward Number: All

Author and Title: Marielle van Engelen, Buyer
Nikki Payne, Waste Technician II

Recommendation(s):

That Report PUR2020-009, Transportation and Recycling of Mixed Construction and Demolition Material at Lindsay Ops Landfill, be received;

That Durham Disposal Services Ltd. be selected for the award of the transportation and recycling of mixed construction and demolition material at the Lindsay Ops Landfill, on an as required basis, at a total estimated cost of \$152,319 not including HST;

That subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreement to award the contract; and

That the Procurement Division be authorized to issue a purchase order.

Department Head: _____

Financial/Legal/HR/Other: _____

Chief Administrative Officer: _____

Background:

In 2017, Reclay Steward Edge Inc. completed a Construction and Demolition (C&D) Diversion Feasibility Study for the City of Kawartha Lakes. In this document, it states that Lindsay Ops has over 10,000 tonnes of mixed construction and demolition waste disposed in the landfill each year.

Staff received authorization from Council and implemented a pilot program for C&D Diversion in 2018 to assess program benefits, challenges and feasibility.

A competitive request for proposal process was undertaken in January of 2018 to secure a third-party contractor to transport and process construction and demolition (C&D) material from the Lindsay Ops and Fenelon Landfills. The City received no bids on the proposal. Since then, the City has been working to implement smaller scale programs to recycle C&D where possible.

In 2019, a clean wood waste recycling program at Lindsay Ops landfill and a drywall recycling program at Fenelon and Lindsay Ops Landfills, were secured through multiple requests for quotation. Although these programs were successful, there were challenges such as limited space for proper storage at both Lindsay Ops and Fenelon Landfills.

In 2019 Staff had sufficient data on the pilot program and reported to Council. At the Council Meeting of June 6, 2019, Council adopted the following resolution:

CR2019-405

That Report WM2019-008, Construction and Demolition Recycling Pilot Results and Recommendations, be received;

That Council approve an extension of the pilot to December 31, 2020 with an operating budget of \$155,000 in 2020; and

That Staff report back to Council on the success of the construction and demolition waste recycling pilot program by June 30, 2020 with future program recommendations and associated budget.

Carried

This report addresses that direction.

Rationale:

The department issued a request for quotation for a clean wood waste recycling program to run throughout 2020 which received no bids. Staff reached out to Durham Disposal Services Ltd. (who completed this work in 2019) to understand

why no bids were received and negotiated an alternative option that worked for both parties. That option is as follows:

- That the City provides their own roll off bins, for the collection of mixed construction and demolition material at the Lindsay Ops Landfill only and that Durham Disposal Services Ltd. provide transportation and the processing of the materials. Mixed construction demolition waste would include all wood, shingles, metal, drywall, rubble, etc. (all materials typically found in construction and demolition projects).

If we are able to capture 10% of that total through this diversion program, it could mean over 1,000 tonnes of material diverted, which would equate to large savings in deferred landfill space. At an estimated value of landfill space of \$150/tonne (based on Reclay's estimate) this savings would equate to \$150,000 per year in space savings.

Through allocating all of the C&D operating budget to Lindsay Ops, there is a greater chance of realizing cost and operational efficiencies in the program. The largest volume of C&D waste comes to Lindsay Ops and the Landfill is close to major transportation routes, is open more days of the week than other Kawartha Lakes sites, and has available equipment and bins on-site. If the data from this pilot project supports its continued operation, then the program may be expanded to Fenelon and other landfill sites at a subsequent date and or may be adjusted to maximize savings to the City.

Staff recommends that Durham Disposal Services Ltd, be selected for the award of transportation and recycling of mixed construction and demolition material at the Lindsay Ops Landfill, on an as required basis, at a total estimated cost of \$152,319 not including HST.

Other Alternatives Considered:

No other alternatives are being considered as the Solid Waste Division has already gone out for an informal quotation for a clean wood waste recycling program and received no bids.

Financial/Operation Impacts:

Funds for the Construction and Demolition pilot program have already been allocated in the 2020 Solid Waste operating budget. There is adequate budget within the 2020 operational budget to accommodate this contract.

The work is on as required basis and staff will monitor to ensure that costs stay within the allocated budget.

Relationship of Recommendation(s) To The 2020-2023 Strategic Plan:

Recycling of Mixed Construction and Demolition at Lindsay Ops landfill contributes to the following goal:

- A Healthy Environment
 - Execute the Integrated Waste Management Strategy which includes diversion of construction and demolition waste from the landfill to maximize landfill site life.

Consultations:

Manager of Environmental Services

Department Head E-Mail: brobinson@kawarthalakes.ca

Department Head: Bryan Robinson, Director of Public Works

Department File: 2020-33

The Corporation of the City of Kawartha Lakes

Council Report

Report Number CORP2020-004

Meeting Date: March 24, 2020

Title: 2019 Annual Report on Council Remuneration and Expenses

Description: It is required under the Municipal Act, 2001 that a report which includes all Council remuneration and expenses be presented and approved by Council

Ward Number: ALL

Author and Title: Leanne Mitchell, Supervisor of Cost Accounting

Recommendation(s):

That Report CORP2020-004, 2019 Annual Report on Council Remuneration and Expenses, be received for information purposes;

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

The Municipal Act, 2001, in subsection 284(1), requires that the Treasurer of each municipality provide, on or before March 31st, to the Council of the municipality, an itemized statement of remuneration and expenses, paid in the previous year, to each member of Council in respect to their services as a member of Council or as an officer of a local board, to which the members has been appointed by Council. The summary, in Attachment A, has been provided individually to the Mayor and Council prior to this meeting.

The report must also include remuneration and expenses paid in the previous year to persons other than Council, appointed by the municipality, to serve as a member of a local board.

A local board, as per the Municipal Act, means a municipal service board, public library board, police services board, planning board, or any other board, commission, committee, body or local authority established or exercising any power under any Act with respect to the affairs or purposes of one or more municipality, excluding a school board and a conservation authority. Given the above definition of local board the police services board remuneration and expenses has been provided in addition to council remuneration and expenses.

Rationale:

Councilor Expenses:

The mileage has increased in 2019 compared to 2018 due to the fact that Councilors no longer receive car allowance. In lieu, Council Members submit mileage based on actual travel. Conferences and Seminars have increased slightly in 2019 compared to 2018, more conferences were attended.

Police Board Expenses:

Police Board salaries have remained relatively the same compared to 2018. As of December 1, 2018, the Mayor and/or Councilor that serves on this Board was not paid a salary. Expenses have decreased from 2018 by approximately 23%. In 2018, there was an out of province conference that required airfare for three board members, that did not occur in 2019.

This report is presented in order to comply with the Municipal Act, 2001.

Other Alternatives Considered:

Not applicable. Information report only.

Financial/Operation Impacts:

Not applicable. Information report only.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

This 2019 Annual Report on Council Remuneration and Expenses does not directly impact or align with a specific Strategic Priority.

Consultations:

Treasurer
General Clerk, Treasury
Executive Assistant-Police Services

Attachments:

Attachment A – 2019 Council Remuneration and Expenses
Attachment B – 2019 Police Services Board Remuneration and Expenses



CORP2020-004
Attachment A & B.xl

Department Head E-Mail: jstover@kawarthalakes.ca

Department Head: Jennifer Stover, Director Corporate Services

CORP2020-004-Attachment A
2019 Annual Report on Council Remuneration and Expenses
January 1, 2019 to December 31, 2019

Elected Council

Council/Board Member	Council Salary	Re-imbursement of Expenses Incurred				TOTAL Salary plus Expenses
	Total Salary (Note 1)	Mileage (Note 2)	Conferences & Seminars (Note 3)	Other Eligible Expenses (Note 4)	Expenses Subtotal	
Ashmore, Ron	48,068.30	4,013.12	178.34	631.49	4,822.95	52,891.25
Dunn, Pat	48,068.30	351.21	2,099.94	-	2,451.15	50,519.45
Elmslie, Doug	50,875.30	3,945.68	-	84.54	4,030.22	54,905.52
Letham, Andrew	111,832.84	5,116.41	3,824.44	584.27	9,525.12	121,357.96
O'Reilly, Patrick	48,181.77	1,486.78	4,138.29	368.85	5,993.92	54,175.69
Richardson, Tracy	48,068.30	2,029.81	2,267.19	140.00	4,437.00	52,505.30
Seymour, Kathleen	48,068.30	3,908.76	4,052.37	-	7,961.13	56,029.43
Veale, Andrew	48,068.30	-	-	-	-	48,068.30
Yeo, Emmett	48,068.30	5,928.65	1,085.33	-	7,013.98	55,082.28
2019 COUNCIL TOTALS	499,299.71	26,780.42	17,645.90	1,809.15	46,235.47	545,535.18
2018 COUNCIL TOTALS	500,054.98	16,074.55	13,343.94	5,407.28	34,825.77	534,880.75

Note 1

Councilor salaries differ because some councillors received additional payments for their duties as Deputy-Mayor .

Note 2

Mileage has increased compared to 2018 due to the Council Members no longer receiving car allowance. In lieu, Council Members are submitting their mileage based on actual travel.

Note 3

Includes meals, accommodations, taxi fares, etc for all conferences and training attended by Councillors. Also includes expenses for town hall meetings. Policy 054 CAO 011-Town Hall Meetings & Policy 166 HR 031-Council Expenses

Note 4

Other Eligible Expenses. Excludes items that qualify as regular office expenses, such as office supplies, telephone, cell phone, internet useage by Councillors. Policy 090 ADM 004-Council Computer

This table was prepared using 2019 payroll data and accounts payable records covering expenses made directly to members of City Council, as well as expenses on behalf of members incurred from January 1 to December 31, 2019

CORP2020-004-Attachment B
2019 Annual Report on Council Remuneration and Expenses
Police Services Board
January 1, 2019 to December 31, 2019

Police Services Board

Council/Board Member	Wages Per Diem Subtotal	Re-imbursement of Expenses			TOTAL Per Diem plus Expenses
		Mileage	Conferences Seminars & Other Expenses (Note 2)	Expenses Subtotal	
Blackburn, David	6,400.00	847.25	4,963.50	5,810.75	12,210.75
Letham, Andrew*	-	-	-	-	0.00
English, Christina	4,000.00	-	-	-	4,000.00
Percival, Wanda	1,800.00	-	78.35	78.35	1,878.35
Polito, Sal	1,350.00	-	574.75	574.75	1,924.75
O'Reilly, Patrick*	-	-	-	-	0.00
Thomas, Donald	5,550.00	567.34	2,044.58	2,250.09	7,800.09
2019 POLICE SERVICES BOARD	19,100.00	1,414.59	7,661.18	8,713.94	27,813.94
2018 POLICE SERVICES BOARD	19,325.00	687.81	10,609.42	11,297.23	30,622.23

Note 2

Includes meals, accommodations, taxi fares, etc for all conferences and training attended by Board Members. Other expenses include; Public Relations Expenses. Excludes items that qualify as regular office expenses, such as office supplies, telephone, cell phone, internet usage.

* The Mayor and Councillor will no longer be receiving a wage for sitting on the Police Services Board as of December 1, 2018.

The Corporation of the City of Kawartha Lakes

Council Report

Report Number WWW2020-001

Meeting Date: March 24, 2020

Title: 2019 Annual Waterworks Summary Report

Description: Summary of Mandatory Schedule 22 and Section 11 Drinking Water Reports for Municipal Drinking Water Systems in the City of Kawartha Lakes

Ward Number: ALL

Author and Title: Julie Henry, Quality Management and Policy Coordinator

Recommendation(s):

That Report WWW2020-001, 2019 Annual Waterworks Summary Report, be received in accordance with reporting requirements of Ontario Regulation 170/03 Schedule 22 and Section 11 under the Safe Drinking Water Act, 2002 for the following municipal residential drinking water systems (DWS) owned by the City of Kawartha Lakes:

- Birch Point Estates DWS
- Bobcaygeon DWS
- Canadiana Shores DWS
- Fenelon Falls DWS
- Janetville DWS
- King's Bay DWS
- Kinmount DWS
- Lindsay DWS
- Manilla DWS (Woods of Manilla)
- Manorview DWS
- Mariposa Estates DWS
- Norland DWS
- Omemee DWS (Victoria Glen)

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

- Pinewood DWS
- Pleasant Point DWS Sonya DWS
- Sonya DWS
- Southview DWS
- Victoria Place DWS
- Western Trent DWS
- Woodfield DWS
- Woodville DWS.

Background:

At the Council Meeting of March 26, 2019 Council adopted the following resolution:

14.1.16 WWW2019-005

2018 Annual Waterworks Summary Report

Julie Henry, Quality Management and Policy Coordinator

CR2019-243

That Report WWW2019-005, **Annual Waterworks Summary Report**, be received; in accordance with reporting requirements of Ontario Regulation 170/03 Schedule 22 and Section 11 under the *Safe Drinking Water Act*, 2002 for the following municipal residential drinking water systems (DWS) owned by the City of Kawartha Lakes:

- Birch Point Estates DWS
- Bobcaygeon DWS
- Canadiana Shores DWS
- Fenelon Falls DWS
- Janetville DWS
- King's Bay DWS
- Kinmount DWS
- Lindsay DWS
- Manilla DWS (Woods of Manilla)
- Manorview DWS
- Mariposa Estates DWS
- Norland DWS
- Omemee DWS (Victoria Glen)
- Pinewood DWS
- Pleasant Point DWS
- Sonya DWS
- Southview DWS
- Victoria Place DWS
- Western Trent DWS
- Woodfield DWS
- Woodville DWS

Carried

This report addresses the requirements under the *Safe Drinking Water Act, 2002* (SDWA), Section 11 and Schedule 22 of Ontario Regulation 170/03 for the 2019

reporting year, which requires owners of Municipal Residential Drinking Water Systems to prepare an annual report that includes information regarding the various aspects of operations of the drinking water system(s) throughout the preceding calendar year.

Section 11 requires the annual report to contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system during the reporting period. Section 11 also requires the report to contain a summary of all reports made to the Ministry of Environment, Conservation and Parks (MECP) under section 16-4 of Schedule 16 of the regulation, for any other observation(s) (other than adverse results which are reported upon immediately), that could possibly indicate improper disinfection.

A description of all corrective actions taken during the reporting period, a summary of all test results required through the regulation covering the reporting period, as well as test results from previous periods of testing (if testing was not required within the current reporting period), are also included.

Operating authorities are required to make Section 11 reports available to the public free of charge. It is also required that reports for systems that serve more than 10,000 residents be published on the City of Kawartha Lakes website by February 28th of the year following the reporting period. Only the Lindsay DWS falls under this stipulation however, all drinking water system reports are made available to residents on the City website. Reports are also available upon request through the Water and Wastewater Division.

Schedule 22 reports must be made available to the system owner no later than March 31st of the year following the reporting period. The report must list the requirements of the *Safe Drinking Water Act*, the regulations, the system's approval and any order that the system failed to meet at any time during the reporting period. The report must also specify the duration of the failure and describe the measures that were taken to correct the failure.

The Schedule 22 report includes information that can be used for the purpose of enabling the owner to assess the capability of the drinking water system to meet existing and planned demands. This type of information includes a summary of quantities, flow rates of water supplied (including monthly averages), maximum daily flows and daily instantaneous peak flow rates. This information must be compared to the rated capacity and flow rates defined in the system's approval.

Rationale:

The Ministry of Environment, Conservation and Parks (MECP), conducts unannounced and announced inspections at the twenty-one (21) municipally-owned drinking water systems annually. The current reportable inspection cycle is from April 01, 2019 to March 31, 2020. Twenty (20) of the Water Treatment facilities are operated by Ontario Clean Water Agency (OCWA) while the Water and Wastewater Division operates the Lindsay Drinking Water System (treatment and distribution) and the other twenty (20) distribution systems owned by the City of Kawartha Lakes.

The Ministry's Municipal Residential Drinking Water Inspection Protocol contains up to fourteen (14) inspections modules and consists of up to one hundred and twenty (120) regulatory questions. These questions address a wide range of regulatory issues from administrative procedures to drinking water quality monitoring, record keeping and other related matters. Every three years the Ministry reviews their risk-rating methodology for inspections.

When assessing compliance there are several key areas addressed by the Ministry. These are:

- Capacity Assessment
- Treatment Processes
- Operations Manuals, Logbooks, Certification and Training
- Water Quality Monitoring, Reporting and Corrective Actions
- Treatment Process Monitoring

A Compliance Inspection Rating (CIR) of less than 100% is not necessarily an indication that drinking water was unsafe during the reporting period. Percentage can be lost from a range of items such as documentation or reporting.

The summary table below (Table 1.), provides a year over year comparison of facility compliance inspection ratings given following recent annual MECP inspections. At the time of this report, those facilities listed as "In Progress" have recently gone through their inspection and are awaiting their reports from the MECP. The results of the inspections for these facilities will be made available when inspection reports are complete.

It is important to note that all systems owned by the City of Kawartha Lakes provided safe drinking water to the public throughout the year. Of the twenty facilities that have received their inspections ratings for 2019-2020, eighteen received a rating of 100%. This clearly illustrates the dedication and hard work of City and OCWA staff and their commitment to providing safe and reliable drinking water to the residents of the City of Kawartha Lakes.

21 Drinking Water Systems	Compliance Rating (2018-2019)	Compliance Rating (2019 – 2020)	Status as of March 2020 (Complete/ In progress)
Birch Point Estates	100%	100%	Complete
Bobcaygeon	100%	100%	Complete
Canadiana Shores	100%	100%	Complete
Fenelon Falls	100%	---	In progress
Janetville	100%	100%	Complete
King's Bay	100%	100%	Complete
Kinmount	100%	100%	Complete
Lindsay	100%	100%	Complete
Manilla	100%	100%	Complete
Manorview	100%	100%	Complete
Mariposa Estates	100%	95.15%	Complete
Norland	100%	100%	Complete
Omeme	100%	100%	Complete
Pinewood	100%	100%	Complete
Pleasant Point	100%	100%	Complete
Sonya	100%	100%	Complete
Southview	100%	98.4%	Complete
Victoria Place	100%	100%	Complete
Western Trent/Palmina	100%	100%	Complete
Woodfield	100%	100%	Complete
Woodville	96.97%	100%	Complete

A summary of the non-compliances received during the 2019-2020 inspection period are included in each of the system reports attached to this report. All instances of non-compliance have been resolved to the satisfaction of the MECF.

Other Alternatives Considered:

Not applicable as this is an information report required by legislation.

Financial/Operation Impacts:

There are no financial implications associated with this report.

Relationship of Recommendation(s) To The 2020-2023 Strategic Plan:

The 2019 Annual Waterworks Summary Report shows a commitment from the Water and Wastewater Division to the Strategic Priority of “A Healthy Environment” by continuing to ensure municipal drinking water sources are protected and municipal drinking water continues to meet provincial standards.

Consultations:

Director of Public Works
Manager of Environmental Services
Supervisor, Water and Wastewater Operations

Attachments:

Appendix A – 2019 Drinking Water Reports



2019 Annual Report
Lindsay DWS.pdf



2019 Annual Report
Birch Point DWS.pdf



2019 Annual Report
Bobcaygeon DWS.pdf



2019 Annual Report
Canadiana Shores DW



2019 Annual Report
Fenelon Falls DWS.pdf



2019 Annual Report
Janetville DWS.pdf



2019 Annual Report
King's Bay DWS.pdf



2019 Annual Report
Kinmount DWS.pdf



2019 Annual Report
Manilla DWS.pdf



2019 Annual Report
Manorview DWS.pdf



2019 Annual Report
Mariposa Estates DWS



2019 Annual Report
Norland DWS.pdf



2019 Annual Report
Omemee DWS.pdf



2019 Annual Report
Pinewood DWS.pdf



2019 Annual Report
Pleasant Point DWS.pr



2019 Annual Report
Sonya DWS.pdf



2019 Annual Report
Southview DWS.pdf



2019 Annual Report
Victoria Place DWS.pdf



2019 Annual Report
Western Trent Palmini



2019 Annual Report
Woodfield DWS.pdf



2019 Annual Report
Woodville DWS.pdf

Department Head E-Mail: brobinson@kawarthalakes.ca

Department Head: Bryan Robinson, Director of Public Works

Birch Point Drinking Water System

Waterworks # 220012572
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online [at the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca). Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220012572

Drinking Water System Name: Birch Point DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health and Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	February 15, 2019	Unannounced – Detailed Drinking Water Inspection Final Inspection Rating of 100%
	1	December 4, 2019	Announced – Focused Drinking Water Inspection Rating of 100%
AWQI's	1	Jan. 15, 2019	Treated water sodium exceedance
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from three (3) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- A sodium hypochlorite feed system

- A cartridge filtration system for iron removal consisting of two treatment trains
- A treated water storage reservoirs
- Three centrifugal high lift pumps with variable frequency drives
- Four hydropneumatic tanks
- Raw water and treated water flow meters
- Stand-by power generator on site
- Remote distribution monitoring station (located in Highview Acres)

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
Jan. 15, 2019	144518	Treated water	Sodium	Result above threshold of 20 mg/L.	O. Reg. 169/03	Resample taken and tested. Notification provided to residents via water bill.

Non-Compliance(s)

There were no non-compliances identified during the reporting period.

Non-Compliance(s) Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

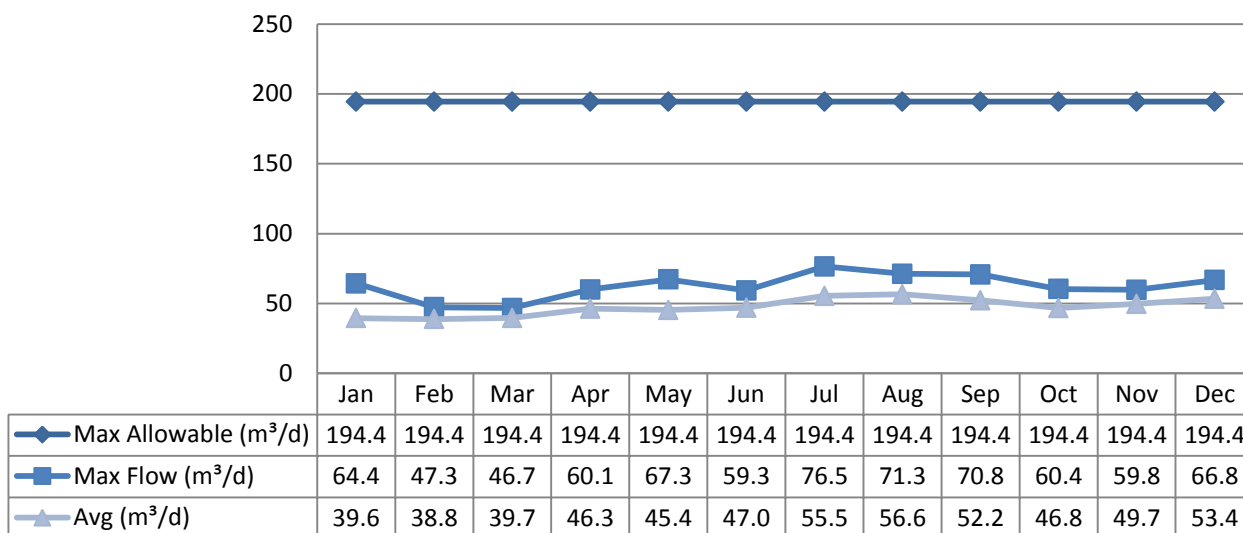
The Birch Point Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

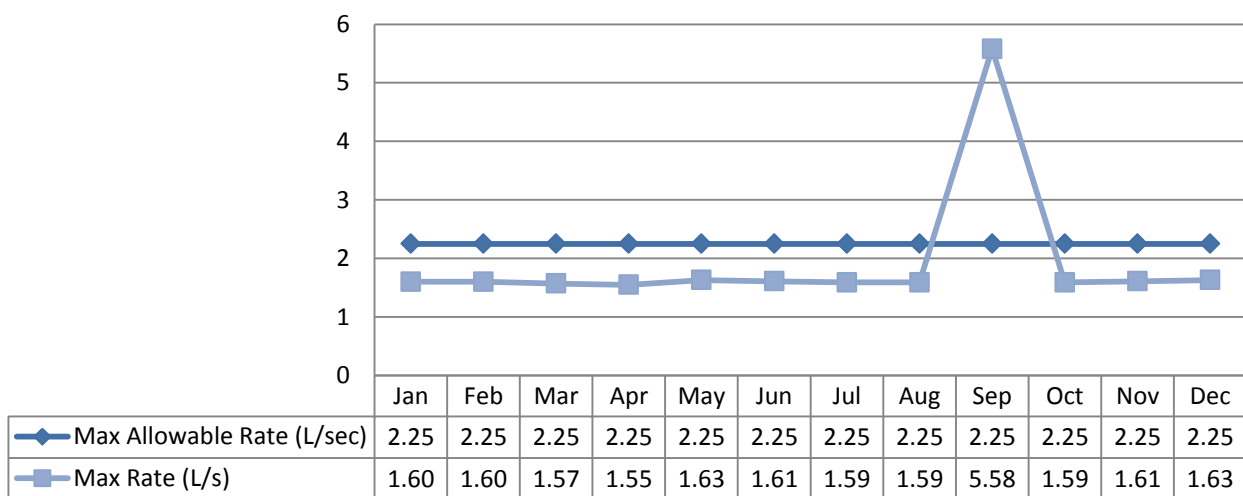
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #7147-9Y7HWV. The confirmation of the data that was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #3

Monthly Rated Flows (L/s)

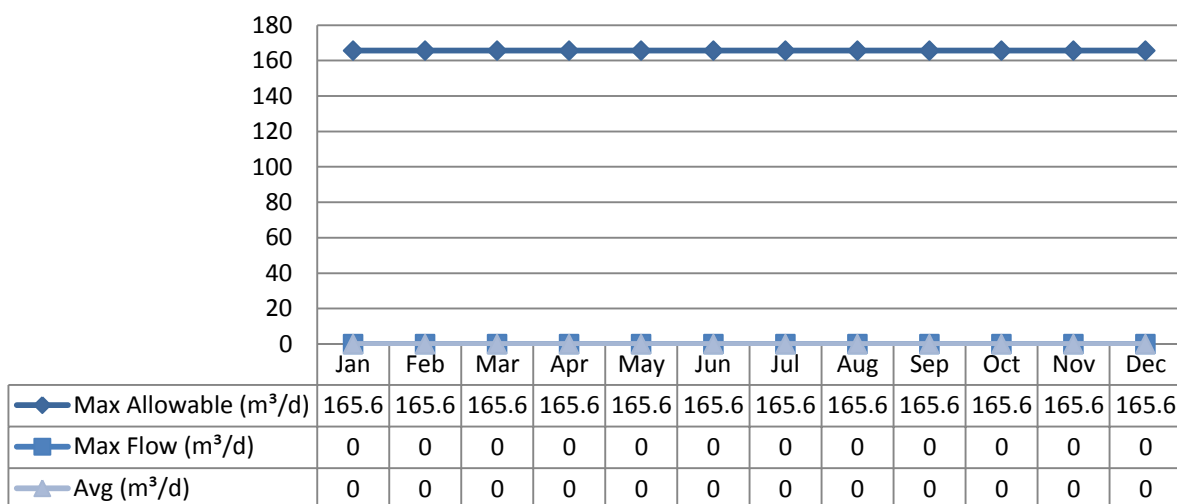
Max allowable rate – PTTW – Well #3



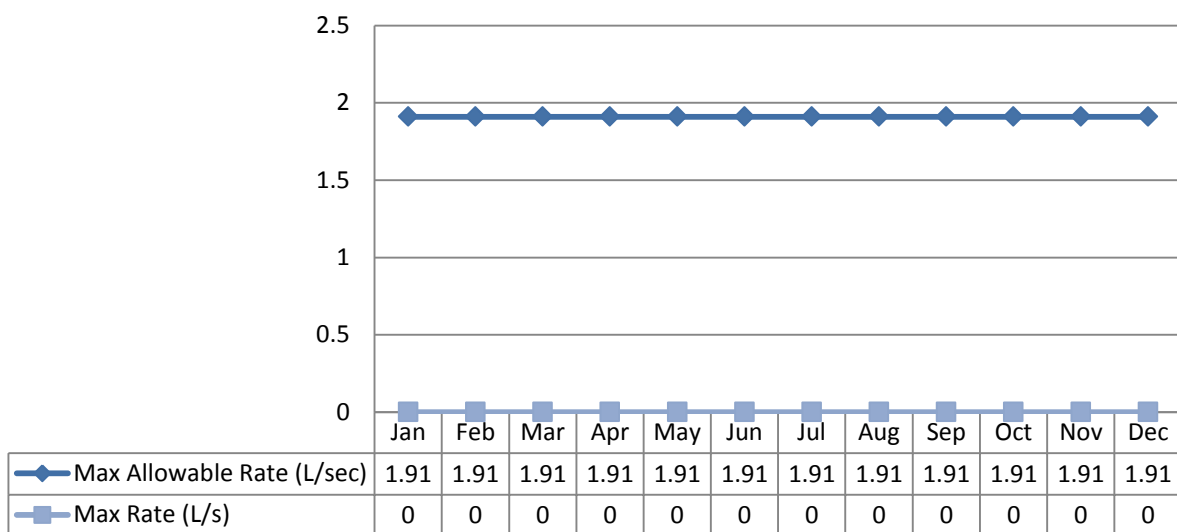
Note: The above table shows there was an exceedance in instantaneous peak flow rate (L/s). The significant spike in September was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #4

Monthly Rated Flows (L/s)

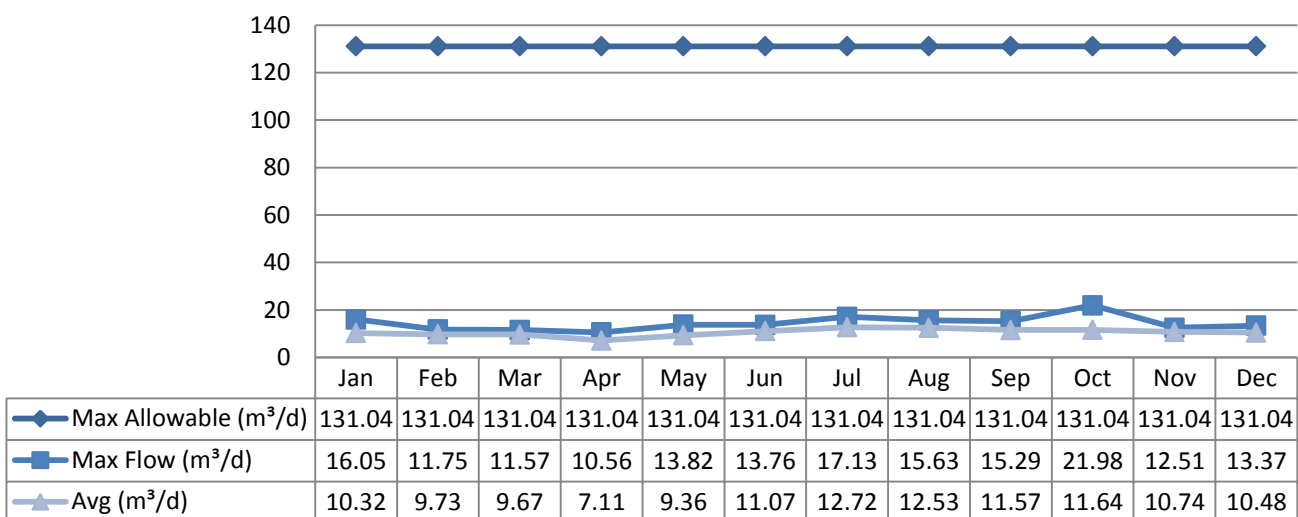
Max allowable rate – PTTW – Well #4



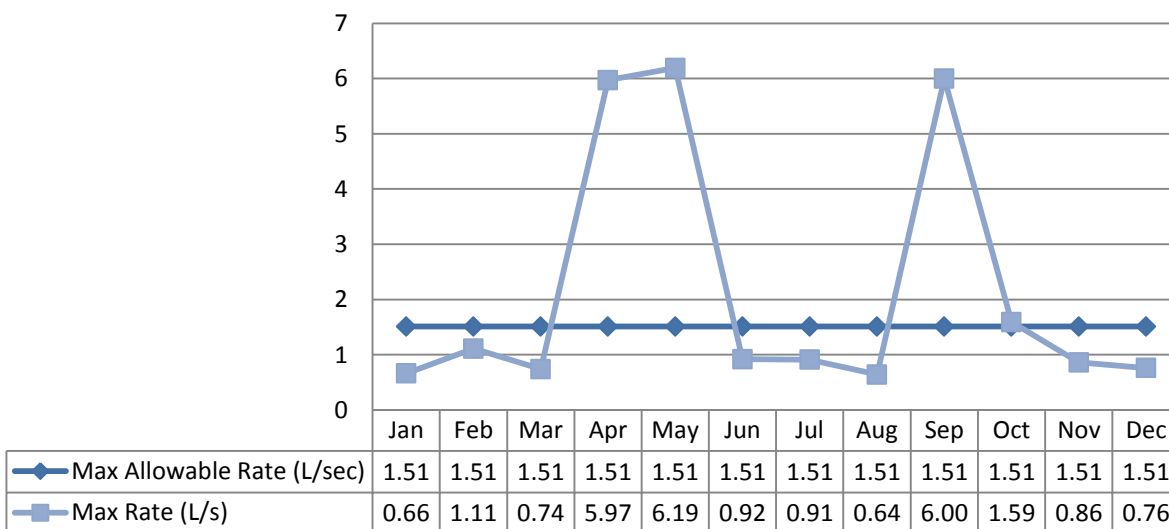
Note: Well 4 was not in production during the reporting period.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #5

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #5



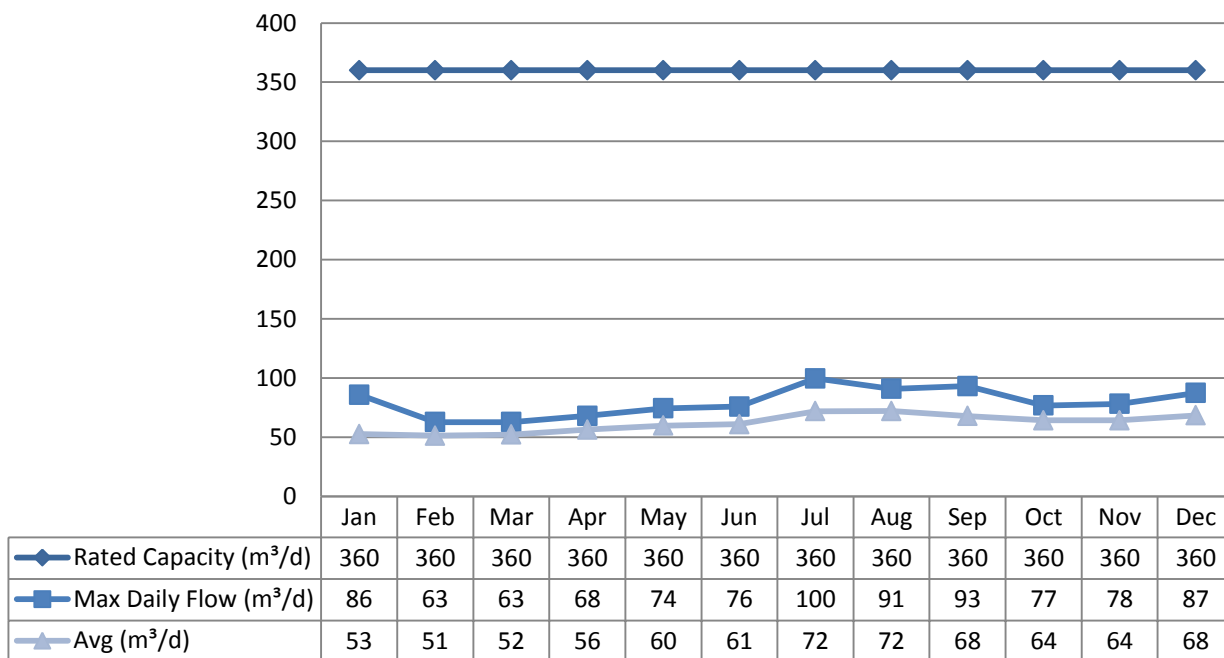
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s) this is due to well pump start-up. Additionally, in September the Flow Meter was scheduled for calibration.

Treated Water Flows

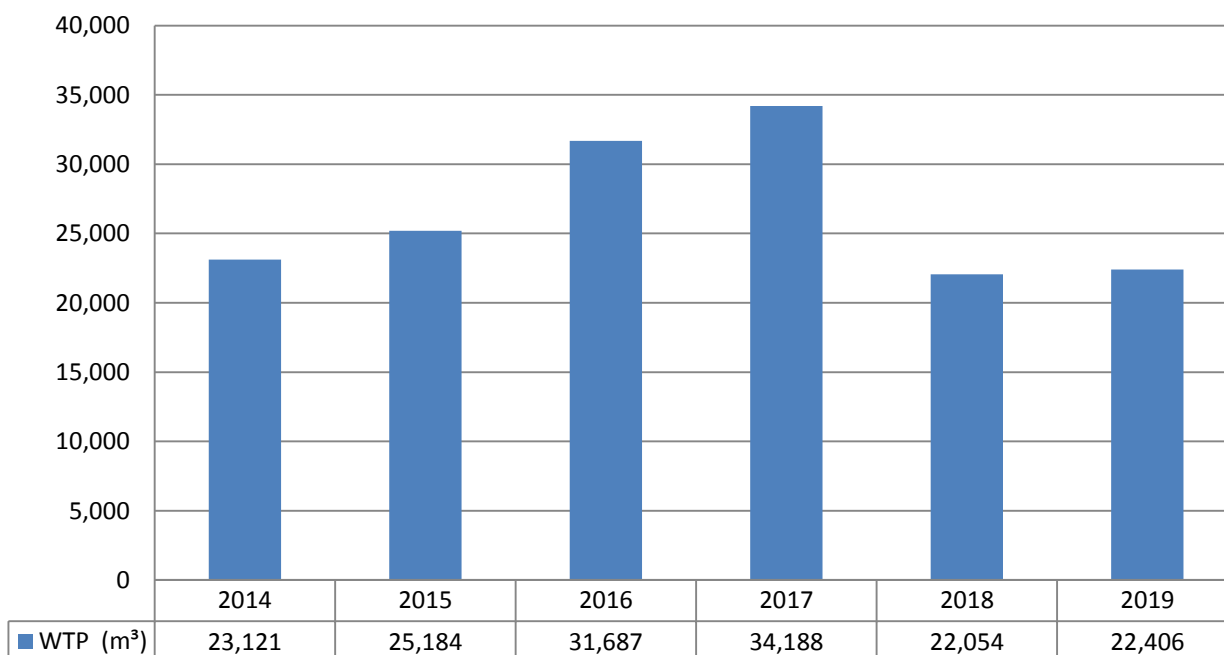
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Parameter	No. of Samples	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results	Range of HPC Results
Source		Min	Max	Min	Max	Min	Max
Raw Well 3	54	0	0	0	0		
Raw Well 4	0						
Raw Well 5	52	0	0	0	1		
Treated	52	0	0	0	0	0	1
Distribution	156	0	0	0	0	0	1

Note: Well 4 was not in production during the reporting period.

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 3 (NTU)	12	0.06	0.5
Turbidity Well 4 (NTU)	0	N/A	N/A
Turbidity Well 5 (NTU)	12	0.07	0.46
Chlorine	8760	0	3.22
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Well 4 was not in production during the reporting period.

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Method Detection Limit

Treated Water Parameters	Sample Date	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Antimony: Sb (ug/L) - TW	2017/01/09	0.11	6.0	No	No
Arsenic: As (ug/L) - TW	2017/01/09	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2017/01/09	223.0	1000.0	No	No
Boron: B (ug/L) - TW	2017/01/09	91.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2017/01/09	0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2017/01/09	0.52	50.0	No	No
Mercury: Hg (ug/L) - TW	2017/01/09	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2017/01/09	0.16	50.0	No	No
Uranium: U (ug/L) - TW	2017/01/09	0.948	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018/12/10	0.12	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	2.35	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	2.49	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	2.41	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	2.29	10.0	No	No
Sodium: Na (mg/L) - TW	2019/01/15	45.7	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	2	2	275	287	N/A	N/A
pH	2	2	7.25	7.26	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances MIN
Alachlor (ug/L) - TW	2017/01/09	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2017/01/09	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2017/01/09	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2017/01/09	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2017/01/09	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2017/01/09	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2017/01/09	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2017/01/09	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2017/01/09	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2017/01/09	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2017/01/09	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2017/01/09	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2017/01/09	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2017/01/09	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2017/01/09	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2017/01/09	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene	2017/01/09	<MDL 0.35	50.00	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances MIN
Chloride) (ug/L) - TW					
2,4-Dichlorophenol (ug/L) - TW	2017/01/09	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2017/01/09	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2017/01/09	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2017/01/09	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2017/01/09	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2017/01/09	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2017/01/09	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2017/01/09	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2017/01/09	<MDL 0.012	100.00	No	No
Metolachlor (ug/L) - TW	2017/01/09	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2017/01/09	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2017/01/09	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2017/01/09	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2017/01/09	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2017/01/09	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2017/01/09	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2017/01/09	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2017/01/09	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2017/01/09	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2017/01/09	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2017/01/09	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2017/01/09	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2017/01/09	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2017/01/09	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2017/01/09	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2017/01/09	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2017/01/09	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	21.25	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.


Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
699897	VFD Installation and Highlift Pump Upgrades
1422344	Well Producing 3 and 4 Below Grade Maintenance/Inspection by Contractor
1103062	SPack Replacement, Upgrade

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

Water Taking Data submitted successfully.


Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 7147-9Y7HWV
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 11:03 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

[Print Confirmation](#) [Return to Main Page](#)

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CITY OF KAWARTHA LAKES | 2020/02/10
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Bobcaygeon Drinking Water System

Waterworks # 210000318
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Operating Authorities:



OCWA



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 210000318

Drinking Water System Name: Bobcaygeon WTP

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	October 2, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	1	March 21, 2019	Turbidity analyzer value held for maintenance to prevent false SCADA readings and alarms. Analyzer output not returned to 'normal' status after maintenance completed. Alarms still active through analyzer during event.
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Bobcaygeon WTP sources its water from the Big Bob River.

Treatment

The treatment system consists of the following:

- Three lowlifts
- SternPAC feed system with metering pumps
- Two solids re-circulating reactivator type flocculator/clarifier units in parallel which includes flash mixing, flocculation and sedimentation chambers
- Two dual media (anthracite/sand) high rate gravity filters in parallel
- Continuous online turbidity analyzers
- Sodium hypochlorite feed system with metering pumps
- Continuous online chlorine analyzers
- Four clear wells
- Ammonium sulfate feed system with metering pumps
- Continuous online flow meters
- Three highlifts
- Water storage standpipe with a capacity of 4400 m³
- One surge equalization tank for the sludge from the settling tanks and the backwash wastewater from the filters
- Standby power generator

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
SternPAC	Coagulant	Kemira
Ammonium Sulphate	Chloramination	FloChem

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
March 21, 2019	145039	Filter Turbidity	Filter turbidity was not recorded at least once every 15 minutes while filters were in production	Turbidity analyzer value held for maintenance to prevent false SCADA readings and alarms. Analyzer output not returned to 'normal' status after maintenance completed. Alarms still active through analyzer during event.	O. Reg. 170/03 Schedule 6 Section 2	Analyzer values are now held on SCADA during maintenance. SCADA alerts operator that value has been held.

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

The Bobcaygeon Drinking Water System is operating near or over half the rated capacity.

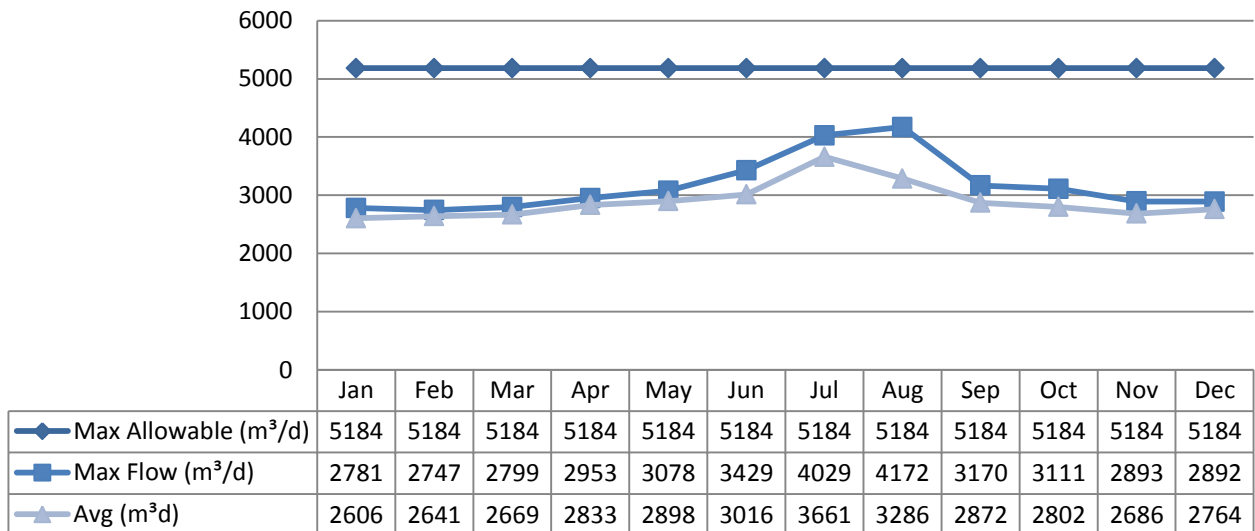
Issued: February 20, 2020

Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #7640-AQJHCV. The confirmation and a copy of the data that was submitted are attached in Appendix A.

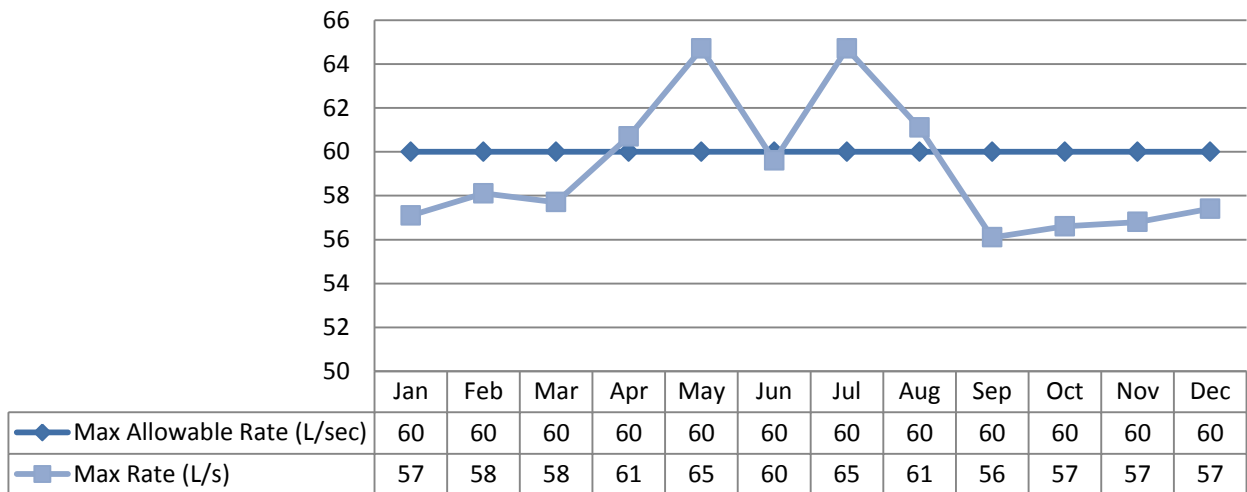
Total Monthly Flows (m³/d)

Max Allowable PTTW- Raw



Monthly Rated Flows (L/s)

Max allowable rate – PTTW- Raw



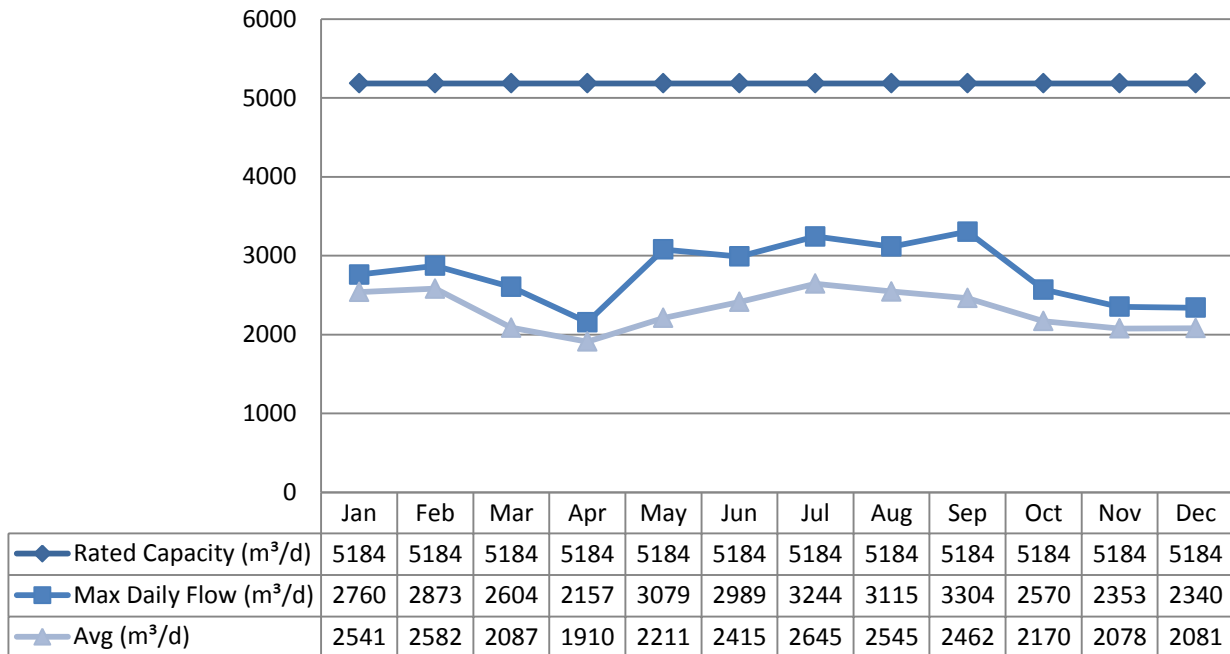
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s) which were short in duration. The scheduled Flow Meter calibration was in July.

Treated Water Flows

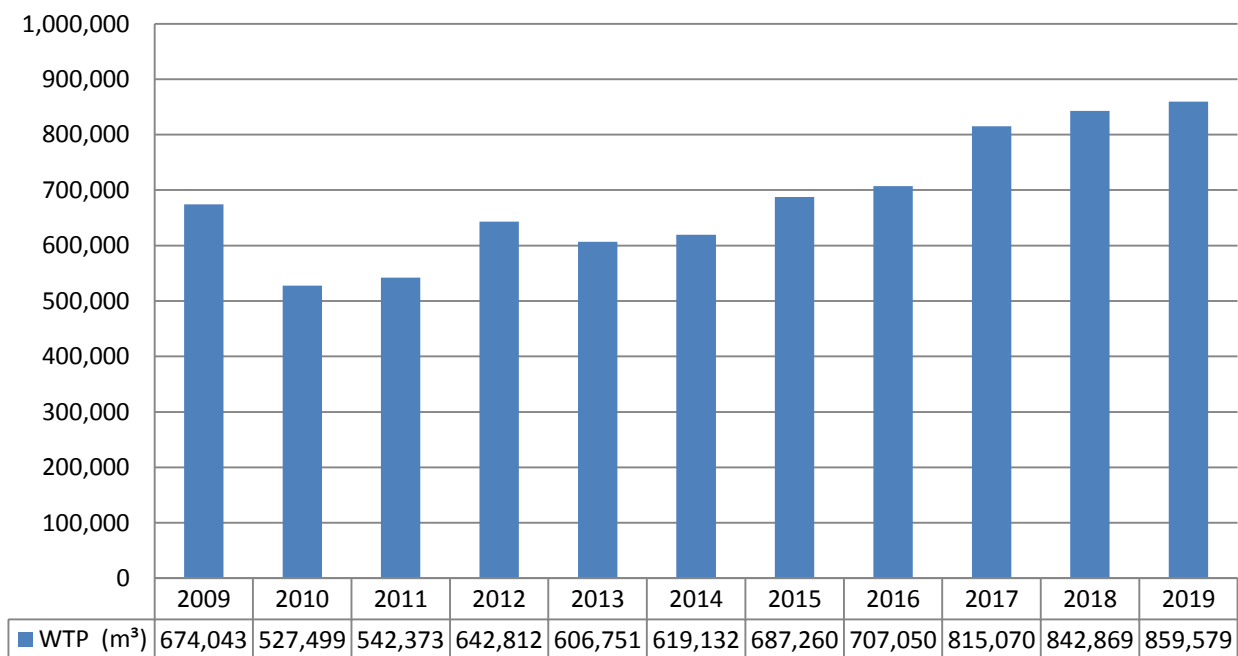
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity - MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples Collected	Range of E.coli Results	Range of E.coli Results	Range of Total Coliform Results	Range of Total Coliform Results	Range of HPC Results	Range of HPC Results
		Min	Max	Min	Max	Min	Max
Raw	53	0	20	7	2740		
Treated	52	0	0	0	0	0	2
Distribution	159	0	0	0	0	0	39

Operational Testing

Location	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Raw	59	0.49	1.71
Turbidity Filter 1	8760	0	2
Turbidity Filter 2	8760	0	1.99
Chlorine	8760	0	5.91
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MIN)	No. of Exceedances (MAX)
Treated Water					
Antimony: Sb (ug/L)	2019/01/08	0.03	6.0	No	No
Arsenic: As (ug/L)	2019/01/08	0.2	10.0	No	No
Barium: Ba (ug/L)	2019/01/08	21.9	1000.0	No	No
Boron: B (ug/L)	2019/01/08	13.0	5000.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MIN)	No. of Exceedances (MAX)
Cadmium: Cd (ug/L)	2019/01/08	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L)	2019/01/08	0.12	50.0	No	No
Mercury: Hg (ug/L)	2019/01/08	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L)	2019/01/08	<MDL 0.04	50.0	No	No
Uranium: U (ug/L)	2019/01/08	0.013	20.0	No	No
Additional Inorganics					
Fluoride (mg/L)	2018/01/08	<MDL 0.06	1.5	No	No
Nitrite (mg/L)	2019/01/08	0.006	1.0	No	No
Nitrite (mg/L)	2019/04/09	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/07/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L)	2019/01/08	0.316	10.0	No	No
Nitrate (mg/L)	2019/04/09	0.364	10.0	No	No
Nitrate (mg/L)	2019/07/08	0.105	10.0	No	No
Nitrate (mg/L)	2019/10/07	0.05	10.0	No	No
Sodium: Na (mg/L)	2018/01/08	8.54	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC	No. of Exceedances
Alkalinity (mg/L)	6	6	60	67	N/A	N/A
pH	6	6	7.25	8.21	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (1/2 MAC)
Treated Water					
Alachlor (ug/L)	2019/01/08	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L)	2019/01/08	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L)	2019/01/08	<MDL 0.05	20.0	No	No
Benzene (ug/L)	2019/01/08	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L)	2019/01/08	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L)	2019/01/08	<MDL 0.33	5.0	No	No
Carbaryl (ug/L)	2019/01/08	<MDL 0.05	90.0	No	No
Carbofuran (ug/L)	2019/01/08	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L)	2019/01/08	<MDL 0.16	2.0	No	No
Chlorpyrifos (ug/L)	2019/01/08	<MDL 0.02	90.0	No	No
Diazinon (ug/L)	2019/01/08	<MDL 0.02	20.0	No	No
Dicamba (ug/L)	2019/01/08	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L)	2019/01/08	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L)	2019/01/08	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L)	2019/01/08	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L)	2019/01/08	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L)	2019/01/08	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L)	2019/01/08	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)	2019/01/08	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L)	2019/01/08	<MDL 0.4	9.0	No	No
Dimethoate (ug/L)	2019/01/08	<MDL 0.03	20.0	No	No
Diquat (ug/L)	2019/01/08	<MDL 1.0	70.0	No	No
Diuron (ug/L)	2019/01/08	<MDL 0.03	150.0	No	No
Glyphosate (ug/L)	2019/01/08	<MDL 1.0	280.0	No	No
Malathion (ug/L)	2019/01/08	<MDL 0.02	190.0	No	No
Metolachlor (ug/L)	2019/01/08	<MDL 0.01	50.0	No	No
Metribuzin (ug/L)	2019/01/08	<MDL 0.02	80.0	No	No
Monochlorobenzene	2019/01/08	<MDL 0.3	80.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (1/2 MAC)
(Chlorobenzene) (ug/L)					
Paraquat (ug/L)	2019/01/08	<MDL 1.0	10.0	No	No
PCB (ug/L)	2019/01/08	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L)	2019/01/08	<MDL 0.15	60.0	No	No
Phorate (ug/L)	2019/01/08	<MDL 0.01	2.0	No	No
Picloram (ug/L)	2019/01/08	<MDL 1.0	190.0	No	No
Prometryne (ug/L)	2019/01/08	<MDL 0.03	1.0	No	No
Simazine (ug/L)	2019/01/08	<MDL 0.01	10.0	No	No
Terbufos (ug/L)	2019/01/08	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L)	2019/01/08	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L)	2019/01/08	<MDL 0.2	100.0	No	No
Triallate (ug/L)	2019/01/08	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L)	2019/01/08	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L)	2019/01/08	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)	2019/01/08	<MDL 0.12	100.0	No	No
Trifluralin (ug/L)	2019/01/08	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L)	2019/01/08	<MDL 0.17	1.0	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	52.0	100.0	No	Yes
HAA Total (ug/L) Annual Average - DW	2019	38.375	80.0*	No	No

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples

There was no additional sampling required.

Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1380662	Static Mixer, Gear Drive, Repair/Replace
1219986	Refurbish Backwash Actuator Valve V205
1301238	Filter 2 Waste Valve, Replace

Appendix A

WTRS Data and Submission Confirmation

Water Taking Data submitted successfully.
Confirmation:
<p>Thank you for submitting your water taking data online.</p> <p>Permit Number: 7640-AQJHCV Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES. Received on: Feb 5, 2020 1:25 PM</p> <p>This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.</p>

Canadiana Shores Drinking Water System

Waterworks # 220006491
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca.) Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220006491

Drinking Water System Name: Canadiana Shores DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	September 10, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	1	September 18, 2019	217 in Total Coliforms in Distribution
	1	September 25, 2019	6 Total Coliforms in Distribution
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from three (3) groundwater wells that are considered to be GUDI (Groundwater Under the Direct Influence of Surface Water).

Treatment

The treatment system consists of the following:

- sodium hypochlorite disinfection system

- two (2) package treatment units with backwash equipment and backwash waste storage/decant tank system
- two (2) cartridge filtration systems
- two (2) booster pumps and equalization tank system
- hydropneumatic tanks
- a high lift pumping system
- Stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
Sep. 18, 2019	148122	Distribution	Total Coliforms	217 Total Coliforms at sampling location 84 Hillside	O. Reg. 170/03	Disinfect sample tap, flush and resample at the adverse location, upstream & downstream of the location. Results received were clear.
Sep. 25, 2019	148224	Distribution	Total Coliforms	6 Total Coliforms at sampling location	O. Reg. 170/03	Disinfect sample tap, flush and resample at the adverse location, upstream & downstream of the location. Results received were clear.

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non compliances during identified in a Ministry Inspection during the reporting period.

Flows

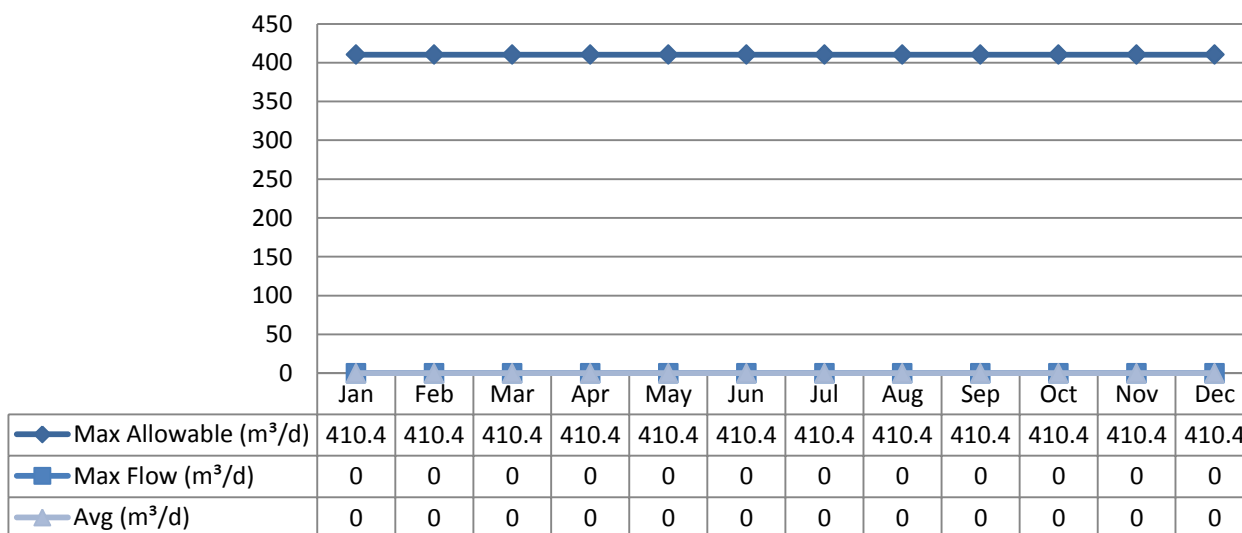
The Canadiana Shores Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #1452-AWDLEX. The confirmation and a copy of the data that was submitted are attached in Appendix A.

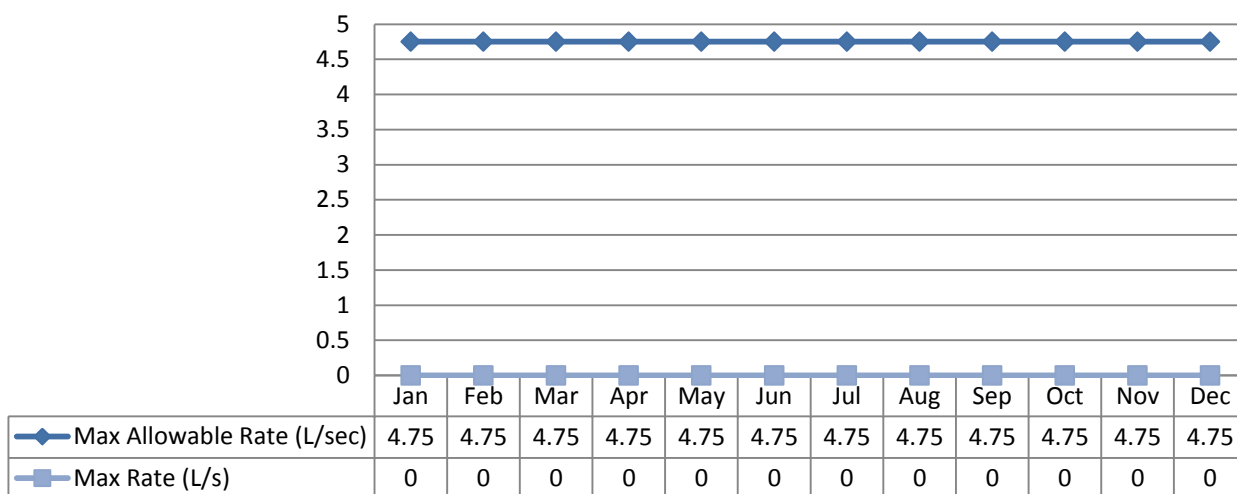
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1



Monthly Rated Flows (L/s)

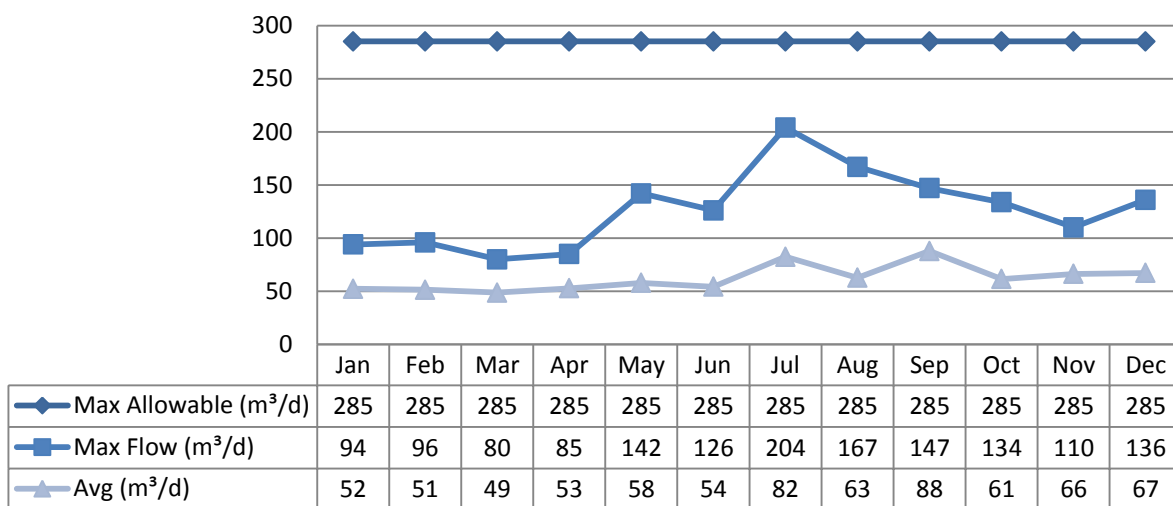
Max allowable rate – PTTW – Well #1



Note: Well 1 was not in production during the reporting period. Well 1 was decommissioned on December 18, 2019.

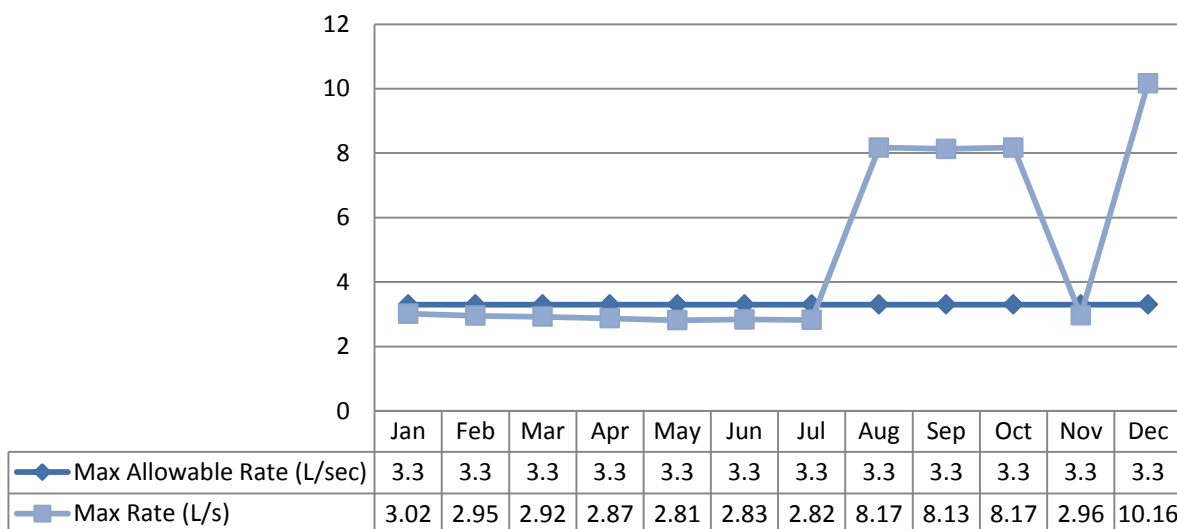
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2



Monthly Rated Flows (L/s)

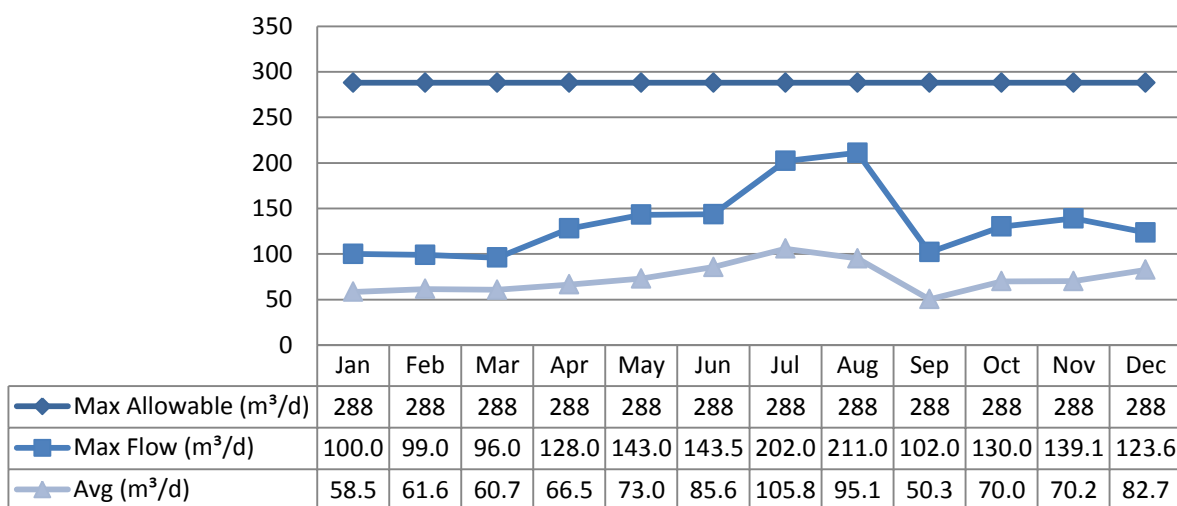
Max allowable rate – PTTW – Well #2



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in August, September, October and December were due to power transfer between utility and the onsite generator.

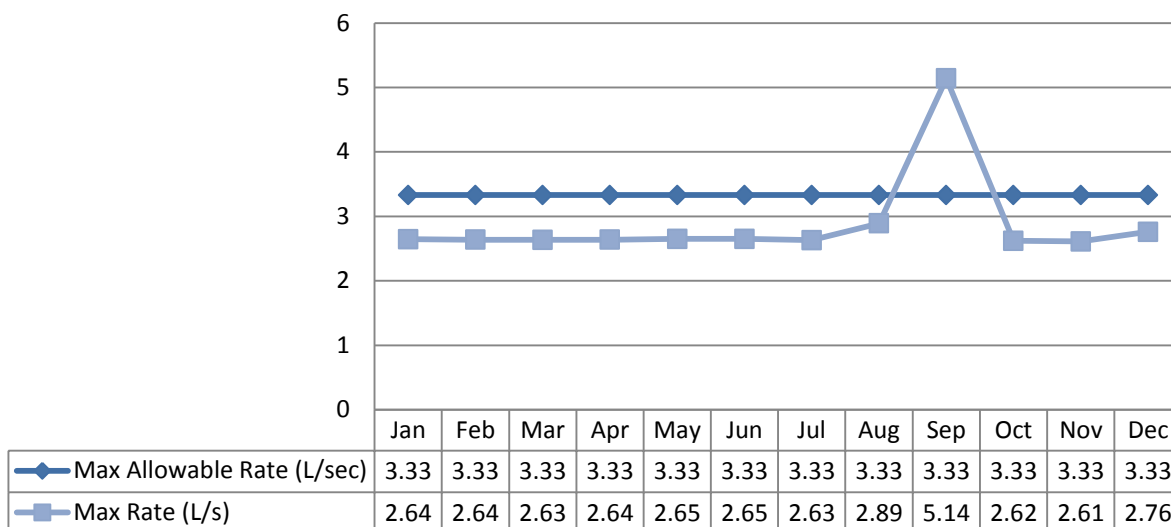
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #3



Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #3



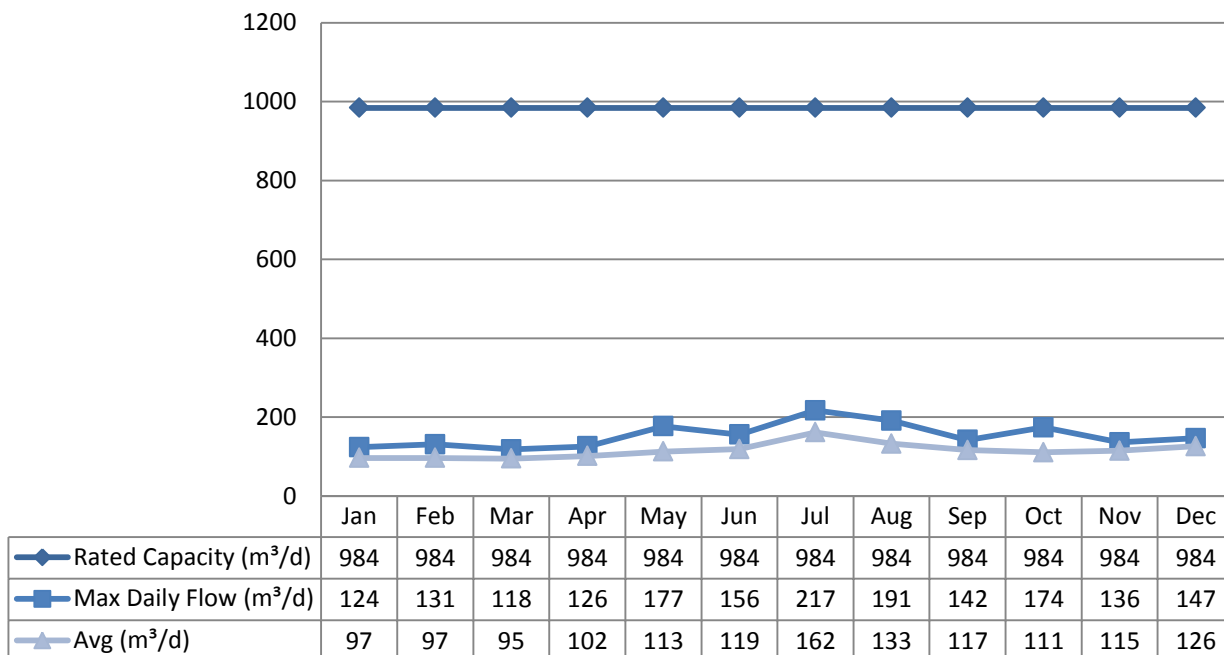
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in September was due to power transfer between utility and the onsite generator.

Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

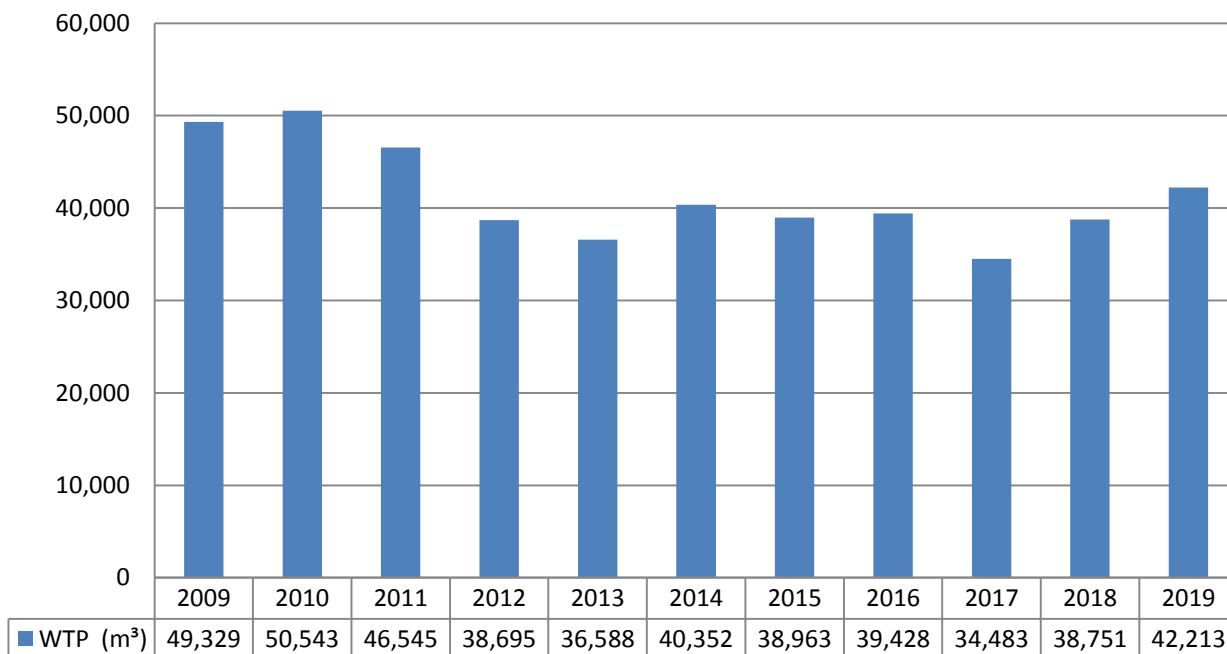
Monthly Rated Flows

Rated Capacity – MDWL



Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Parameter	No. of Samples Collected	Range of E. coli Results (MIN)	Range of E. coli Results (MAX)	Range of Coliform Results (MIN)	Range of Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	1	0	0	0	0		
Raw Well 2	55	0	0	0	0		
Raw Well 3	52	0	0	0	0		
Treated	52	0	0	0	0	0	4
Distribution	165	0	0	0	217	0	9

Note: Well 1 was not in production during this reporting period.

Operational Testing

Parameter	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Well 1 (NTU)	1	0	0
Turbidity Well 2 (NTU)	12	0.08	0.63
Turbidity Well 3 (NTU)	12	0.09	0.88
Turbidity – Filter Line 1 (NTU)	8760	0.00	2.03
Turbidity – Filter Line 2 (NTU)	8760	0.00	5.00
Chlorine	8760	0	3.27
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Well 1 was not in production during this reporting period.

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Parameters (Treated Water)	Sample Date (yyy/mm/dd)	Sample Result	MAC	Exceedance MAC	Exceedance ½ MAC
Antimony: Sb (ug/L) - TW	2019/01/07	0.04	6.0	No	No
Arsenic: As (ug/L) - TW	2019/01/07	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2019/01/07	104.0	1000.0	No	No
Boron: B (ug/L) - TW	2019/01/07	8.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2019/01/07	0.008	5.0	No	No
Chromium: Cr (ug/L) - TW	2019/01/07	0.15	50.0	No	No
Mercury: Hg (ug/L) - TW	2019/01/07	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2019/01/07	0.1	50.0	No	No
Uranium: U (ug/L) - TW	2019/01/07	3.85	20.0	No	No

Parameters (Treated Water)	Sample Date (yyy/mm/dd)	Sample Result	MAC	Exceedance MAC	Exceedance $\frac{1}{2}$ MAC
Fluoride (mg/L) - TW	2018/01/08	0.09	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	1.12	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	1.19	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.898	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.982	10.0	No	No
Sodium: Na (mg/L) - TW	2018/01/08	17.0	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians with patients on sodium restricted diets.

Schedule 15 Sampling

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	Number of Sampling Points	Number of Samples	Range of Results Minimum	Range of Results Maximum	MAC (ug/L)	Number of Exceedances
Alkalinity (mg/L)	2	4	268	274	N/A	N/A
pH	2	4	7.50	8.04	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances MAC	Number of Exceedances ½ MAC
Alachlor (ug/L) - TW	2019/01/07	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2019/01/07	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2019/01/07	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2019/01/07	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2019/01/07	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2019/01/07	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2019/01/07	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2019/01/07	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2019/01/07	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2019/01/07	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2019/01/07	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2019/01/07	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2019/01/07	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2019/01/07	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2019/01/07	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2019/01/07	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2019/01/07	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2019/01/07	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2019/01/07	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2019/01/07	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2019/01/07	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA) (ug/L)	2019/01/07	<MDL 0.12	100.00	No	No

Parameter Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances MAC	Number of Exceedances ½ MAC
Metolachlor (ug/L) - TW	2019/01/07	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2019/01/07	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2019/01/07	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2019/01/07	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2019/01/07	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2019/01/07	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2019/01/07	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2019/01/07	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2019/01/07	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2019/01/07	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2019/01/07	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2019/01/07	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2019/01/07	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2019/01/07	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	8.1	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03
 MDL = Method Detection Limit

Additional Legislated Samples


Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
July 26, 2016	Suspended Solids (Composite)	January 2019	2	mg/L
July 26, 2016	Suspended Solids (Composite)	February 2019	2	mg/L
July 26, 2016	Suspended Solids (Composite)	March 2019	2	mg/L
July 26, 2016	Suspended Solids (Composite)	April 2019	3	mg/L
July 26, 2016	Suspended Solids (Composite)	May 2019	3	mg/L
July 26, 2016	Suspended Solids (Composite)	June 2019	3	mg/L
July 26, 2016	Suspended Solids (Composite)	July 2019	4	mg/L
July 26, 2016	Suspended Solids (Composite)	August 2019	5	mg/L
July 26, 2016	Suspended Solids (Composite)	September 2019	3	mg/L
July 26, 2016	Suspended Solids (Composite)	October 2019	3	mg/L
July 26, 2016	Suspended Solids (Composite)	November 2019	3	mg/L
July 26, 2016	Suspended Solids (Composite)	December 2019	4	mg/L
July 26, 2016	Suspended Solids Annual Average Concentration	2019	3.083	mg/L


Major Maintenance Summary incurred to install, repair or replace required equipment.

WO #	Description
823950	Well #1 Replacement
1104059	Power Generation, Backup Power, Remove low temp alarm wire
1259326	Replacement Desiccant Cartridge

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
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Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 1452-AWDLEX
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 9:08 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Fenelon Falls Drinking Water System

Waterworks # 210000327
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st to December 31st 2019

Issued: February 13, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 210000327
Drinking Water System Name: Fenelon Falls DWS
Drinking Water System Owner: City of Kawartha Lakes
Drinking Water System Category: Large Municipal Residential
Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety	0		
Number of Incidents	0		
Drinking Water			
MECP Inspections (Ministry of Environment, Conservation and Parks)	1	February 5, 2020	Announced-Focused Drinking Water Inspection - Final Inspection – not complete at time of issuance.
AWQI's (Adverse Water Quality Issues)	4	Q4 2018 Q1 2019 Q2 2019 Q3 2019	THM Running Average exceeded last quarter of 2018 and first, second and third quarters of 2019.
	1	July 3, 2019	Filter 2 monthly filter effluent turbidity \leq 0.1 NTU performance criteria of 99% not met.
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Fenelon Falls Water Treatment Plant is supplied with surface water from Cameron Lake.

Treatment

The treatment system is a dual train conventional filtration package plant consisting of the following:

- Raw water is sourced from Cameron Lake through a wooden intake crib and then directed to the intake chamber and further to the low lift pumping station consisting of two low lift pumps
- Inlet line connected to sodium hypochlorite diffuser for seasonal zebra mussel control, if required
- Raw water flow meter and turbidity analyzer
- Coagulant injection system with inline static mixer
- Two inground flocculation tanks each equipped with three mechanical flocculators
- Dual train microfiltration system (Zeeweed) consisting of two compartments each containing two sets of six membrane modules.
- Continuously monitoring particle counters and turbidity analyzers on each filter line
- Waste backwash holding tank with discharge to sanitary sewer
- Chlorine injection system
- Single in-ground clearwell consisting of two interconnected baffled cells
- In-ground dual celled high lift wet well consisting of four highlift pumps
- Chlorine residual and pH analyzers prior to distribution connection
- Water tower
- SCADA computer control system
- Standby power generator

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Polyaluminium Chloride	Flocculation	FloChem

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
Q4 2018	144445	Treated Water	Trihalomethane	RAA of 142ug/L	O. Reg. 170/03	Process upgrades to UV and chloramination to be completed in 2020
Q1 2019	145125	Treated Water	Trihalomethane	RAA of 145ug/L	O. Reg. 170/03	Process upgrades to UV and chloramination to be completed in 2020
Q2 2019	146112	Treated Water	Trihalomethane	RAA of 141ug/L	O. Reg. 170/03	Process upgrades to UV and chloramination to be completed in 2020
Q3 2019	148443	Treated Water	Trihalomethane	RAA of 143ug/L	O. Reg. 170/03	Process upgrades to UV and chloramination to be completed in 2020
2019 07 19 (yyyymmdd)	146075	Filter 2 Effluent	Monthly filter effluent turbidity \leq 0.1 NTU performance criteria of 99% not met	89.3% for Filter 2 – filter replacement induced air, affected flow to meter	O. Reg. 170/03	Air removed and flow adjusted

RAA is the Running Annual Average of four consecutive quarterly sampling results. The RAA limit is 100ug/L.

Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
Part X of EPA	Water tower overflowed	07:17 – 10:30 on 2019 06 28	Adjusted level setpoints, replaced level transmitter	Complete

Issued: February 12, 2020

Non-Compliance Identified in a Ministry Inspection:

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

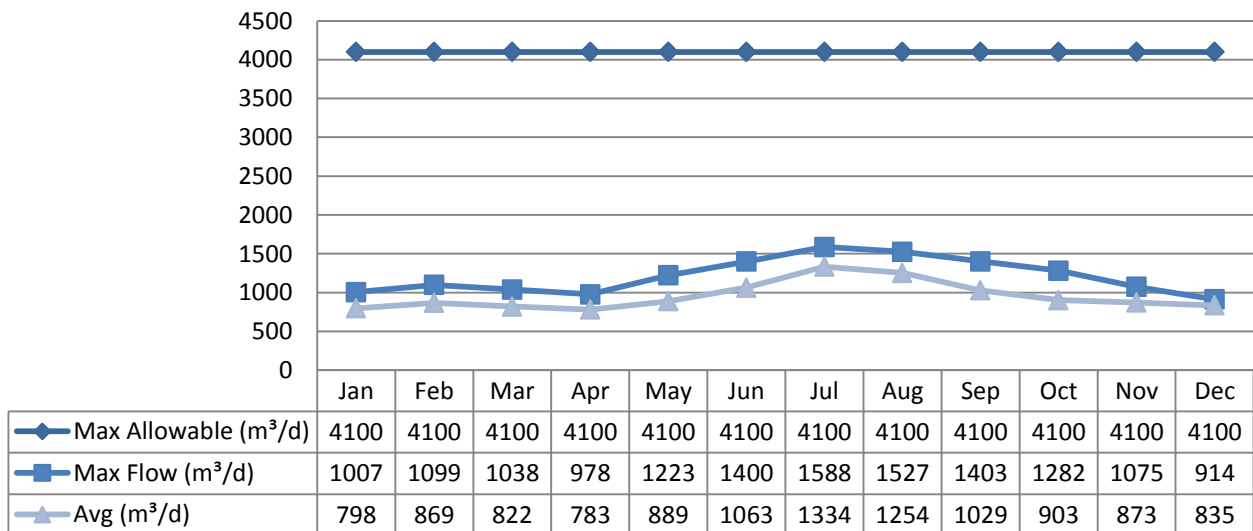
The Fenelon Falls Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

The Raw Water takings are regulated by the Permit to Take Water (PTTW). 2019 Raw Flow Data was submitted to the Ministry electronically under permit #6033-AQ5HFW. The confirmation for the data that was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

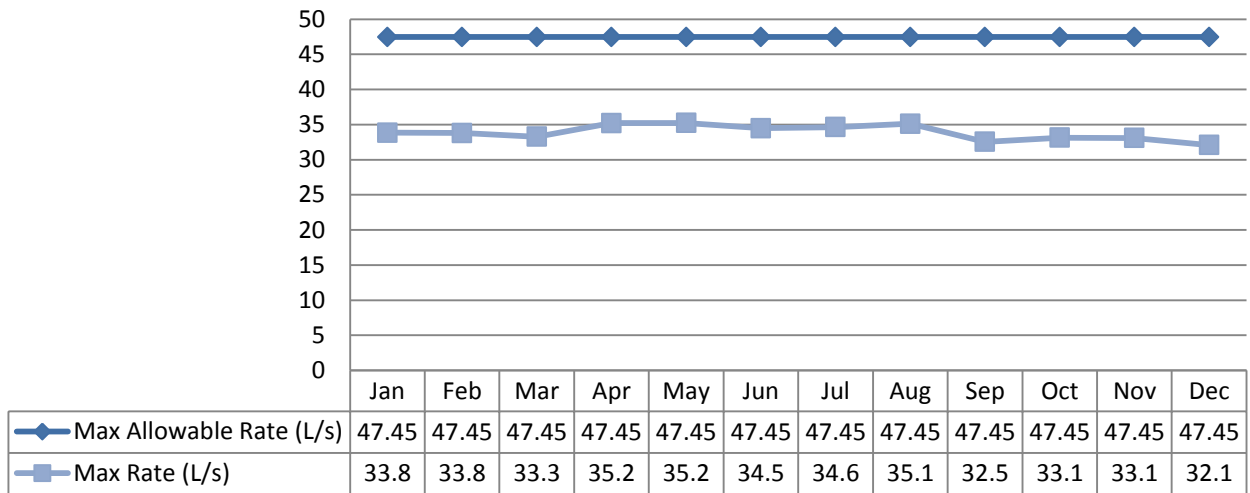
Max Allowable PTTW- Raw



Issued: February 12, 2020

Monthly Rated Flows (L/s)

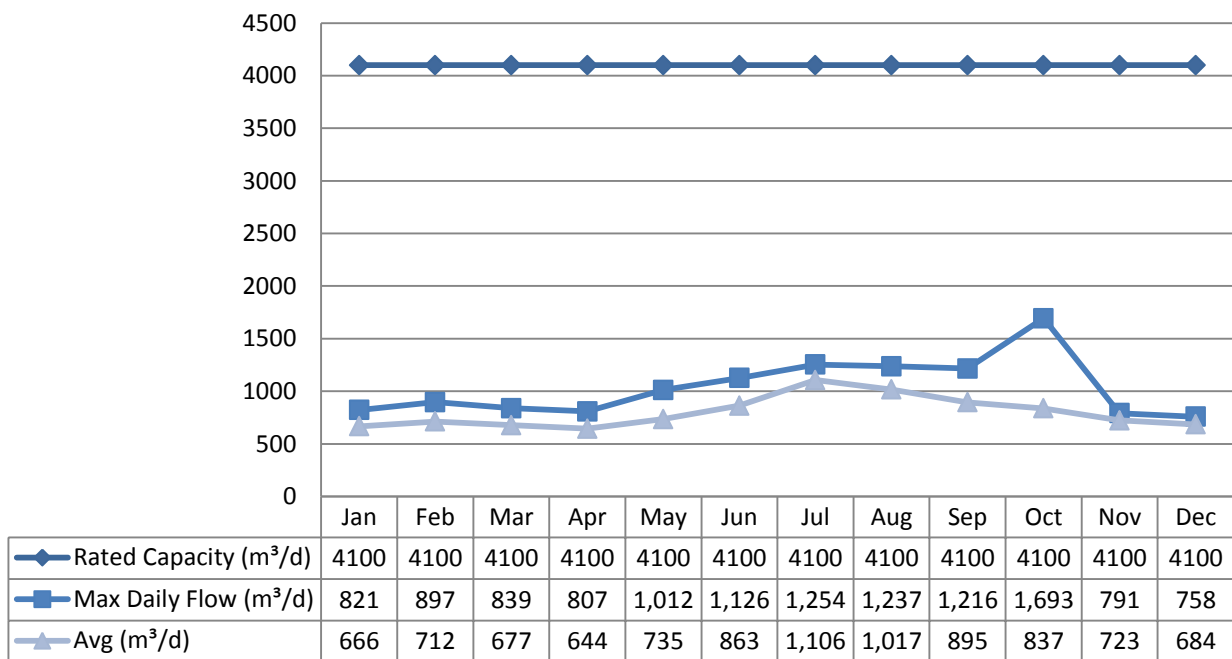
Max allowable rate – PTTW- Raw

Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

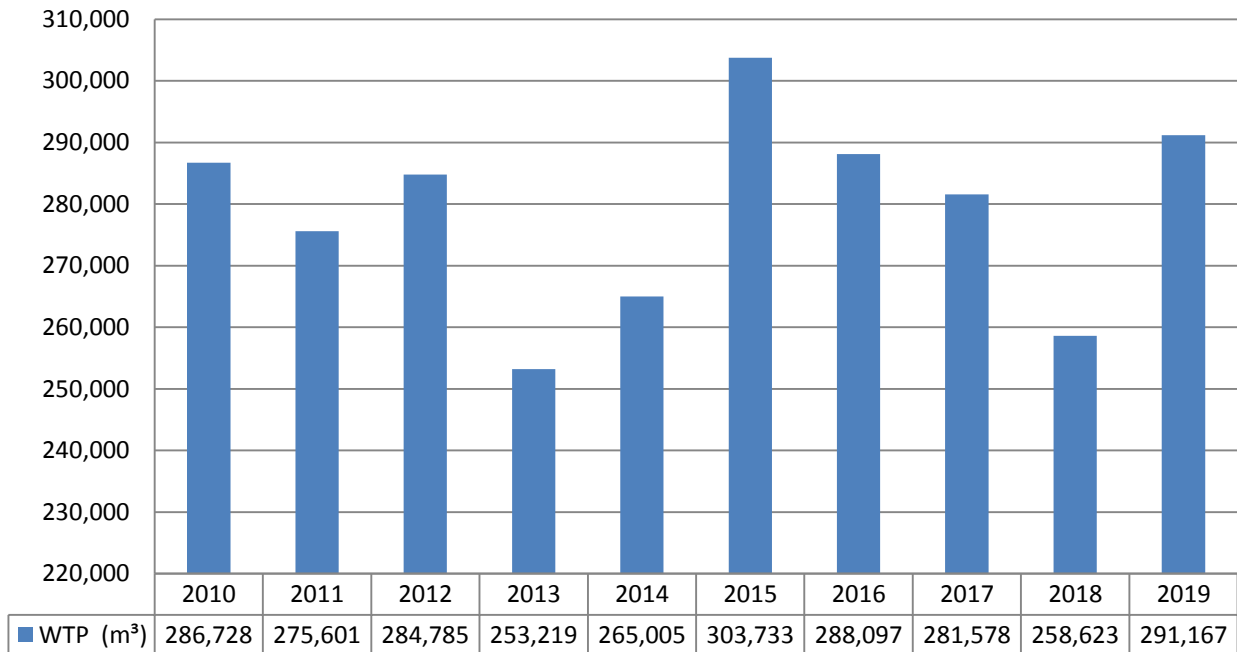
Monthly Rated Flows

Rated Capacity - MDWL



Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

	No. of Samples Collected	Range of E.coli Results	Range of E.coli Results	Range of Total Coliform Results	Range of Total Coliform Results	Range of HPC Results	Range of HPC Results
		Min	Max	Min	Max	Min	Max
Raw	53	0	16	4	151		
Treated	58	0	0	0	0	0	1
Distribution	159	0	0	0	0	0	85

Operational Testing

	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Filter 1 (NTU)	8760	0.00	0.56
Turbidity Filter 2 (NTU)	8760	0.00	0.87
Chlorine	8760	0.00	4.62
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03

Inorganic Parameters

These parameters are tested as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances 1/2 MAC
Antimony: Sb (ug/L) - TW	2019/01/07	0.06	6.0	No	No
Arsenic: As (ug/L) - TW	2019/01/07	< 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2019/01/07	20.5	1000.0	No	No
Boron: B (ug/L) - TW	2019/01/07	8.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2019/01/07	<0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2019/01/07	0.12	50.0	No	No
Mercury: Hg (ug/L) - TW	2019/01/07	<0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2019/01/07	0.05	50.0	No	No
Uranium: U (ug/L) - TW	2019/01/07	0.068	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018/01/15	<MDL 0.06	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances 1/2 MAC
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.073	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.135	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.033	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.026	10.0	No	No
Sodium: Na (mg/L) - TW	2018/01/15	7.28	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O. Reg. 170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	4	4	45	49	N/A	N/A
pH	4	4	8.12	8.36	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedance Yes or No (MAC)	Exceedance Yes or No (1/2 MAC)
Alachlor (ug/L) - TW	2019/01/07	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2019/01/07	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2019/01/07	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2019/01/07	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2019/01/07	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2019/01/07	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2019/01/07	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2019/01/07	<MDL 0.01	90.00	No	No

Issued: February 12, 2020

Carbon Tetrachloride (ug/L) - TW	2019/01/07	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2019/01/07	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2019/01/07	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2019/01/07	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2019/01/07	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2019/01/07	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2019/01/07	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2019/01/07	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2019/01/07	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2019/01/07	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2019/01/07	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2019/01/07	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2019/01/07	<MDL 0.02	190.00	No	No
Metolachlor (ug/L) - TW	2019/01/07	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2019/01/07	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2019/01/07	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2019/01/07	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2019/01/07	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2019/01/07	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2019/01/07	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2019/01/07	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2019/01/07	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2019/01/07	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2019/01/07	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2019/01/07	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.25	5.00	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2019/01/07	<MDL 0.12	100.00	No	No
Trifluralin (ug/L) - TW	2019/01/07	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2019/01/07	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	137	100.00	Yes	Yes
HAA Total (ug/L) Annual Average - DW	2019	103	80.00	Yes	Yes

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

MDL = Method Detection Limit

Additional Legislated Samples

Municipal Drinking Water Licence	Date Collected	Suspended Solids (mg/L)
Settling Tank Discharge Point	January	17.0
	February	21.0
	March	21.0
	April	23.0
	May	15.0
	June	19.0
	July	18.0
	August	21.0
	September	5.0
	October	53.0
	November	50.0
	December	77.0
	Annual Average	28.3

Note: The Suspended Solids annual average limit of 25 mg/L applies to effluent discharged into the natural environment. Effluent was not discharged into the natural environment in 2019 but to the sewer system.


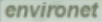

Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1101939	Replaced Actuator FV35061
1101951	Rebuilt Floc Mixer 4Motor
1102121	Order Spare Actuator
1102269	Highlift Pump Overhaul
1102287	Membrane Filter Replacement
1102296	Replacement Fixed Rail Fall Arrest

WO #	Description
1104769	Replace Raw pH Analyzer
1140312	Repair Floc Mixer M2
1177390	Filter Valve FV35652 Leaking Air
1259064	Actuator Fault
1299208	Repairs to DSC
1338025	Replace Actuator FV35602
1338029	Water Tower Overflow Issue with Level Transmitter (Replaced WO 1380642
1338745	Repair Valve FV35652
1341930	Replaced UPS 2 Water Tower Fault
1376296	Repaired Blower #3 Oil Leak
1380113	Filter 02 Water Hammer
1380642	Replace Tower Level Transmitter
1380788	Lowlift Pump 01 Fault Scheduled for Replacement as Part of Upgrades
1464968	Repaired Distribution Header in Clearwell
1498009	Replaced Outpost UPS
1498837	Repaired Valve FV88652 Leak
1499924	Order Treated CL2 Analyzer Parts
1500965	Water Hauler Tap Repaired
767882	Clear well inspected and cleaned

Appendix A

WTRS Data Submission Confirmation



Ministry of the Environment,
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 5830-AQFGZR
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 6, 2020 10:33 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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CITY2 KAWARTHA LAKES2 | 2020/02/06
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18



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King's Bay Drinking Water System

Waterworks # 260002954
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca.) Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 260002954

Drinking Water System Name: King's Bay DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	Nov. 14, 2019	Unannounced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	2	Aug. 14, 2019	24 Total Coliforms Distribution
		Aug. 14, 2019	8 Total Coliforms Distribution
Number of Non-Compliances	0		
Number of Boil Water Advisories	1	Aug. 14 to Aug. 16, 2019	Issued as a result of two adverse incidents on Aug. 14, 2019

System Process Description

Raw Source

The water supply for the DWS comes from three (3) groundwater wells that are considered to be non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- a sodium hypochlorite disinfection system
- reservoir
- high lift pumping station
- Stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
Aug. 14, 2019	147265	Distribution	Total Coliforms	24	O. Reg. 169/03	Flush, two sets of resamples and test.
Aug. 14, 2019	147266	Distribution	Total Coliforms	8	O. Reg. 169/03	Flush, two sets of resamples and test.

Non-Compliance

There were no non-compliances identified during this reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during this reporting period.

Flows

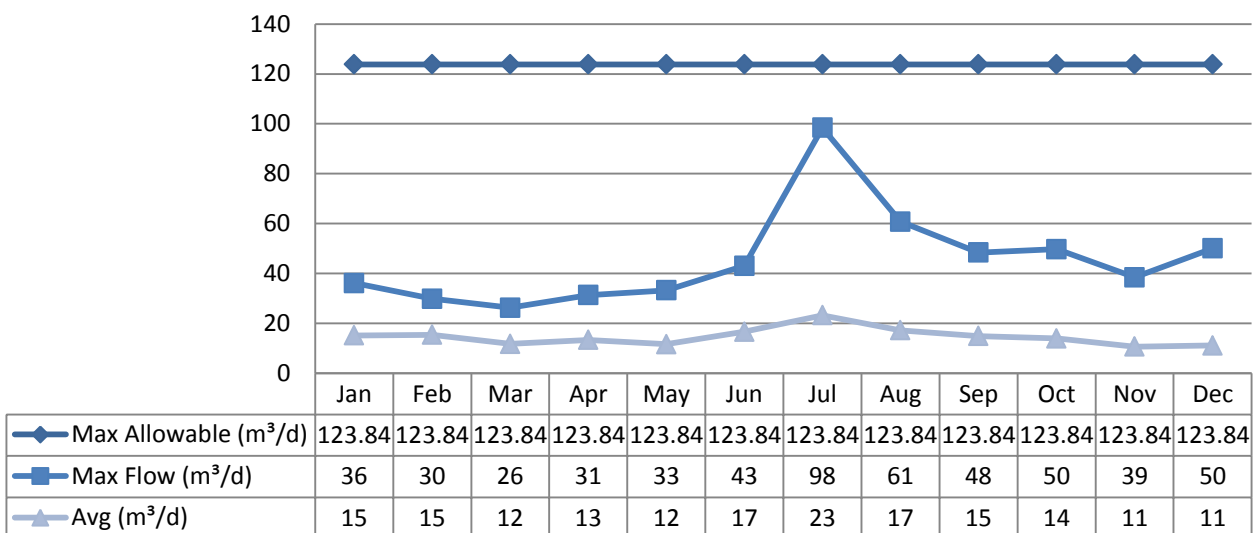
The King's Bay Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

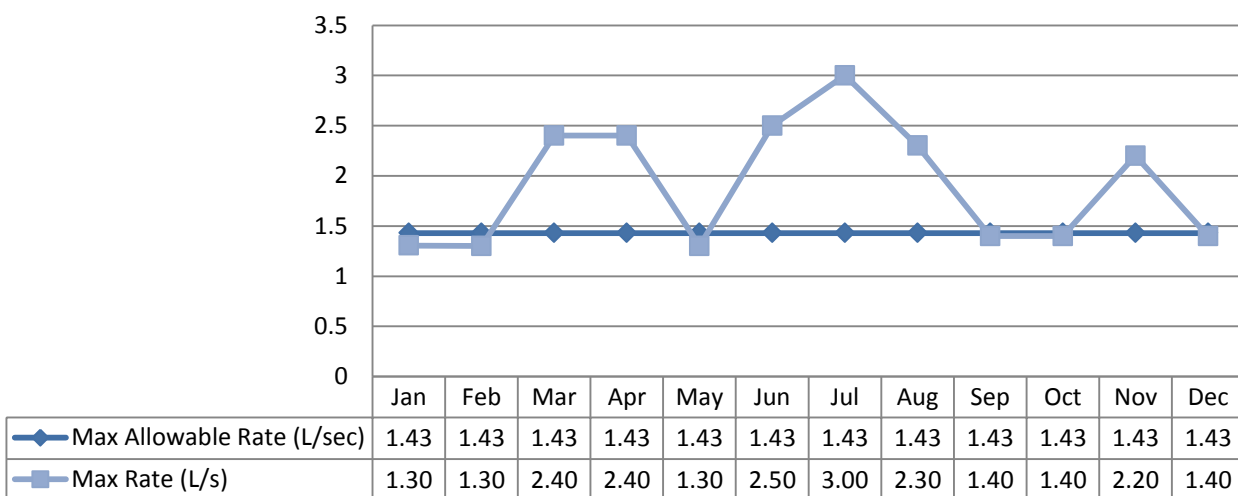
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permits #1087-AYSGRN. The confirmation that the data was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2

Monthly Rated Flows (L/s)

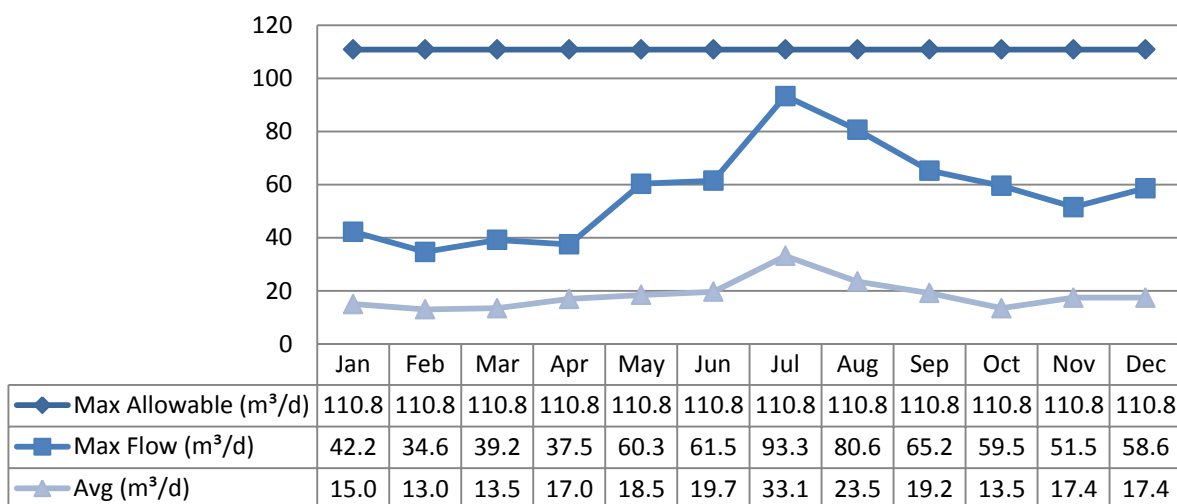
Max allowable rate – PTTW – Well #2



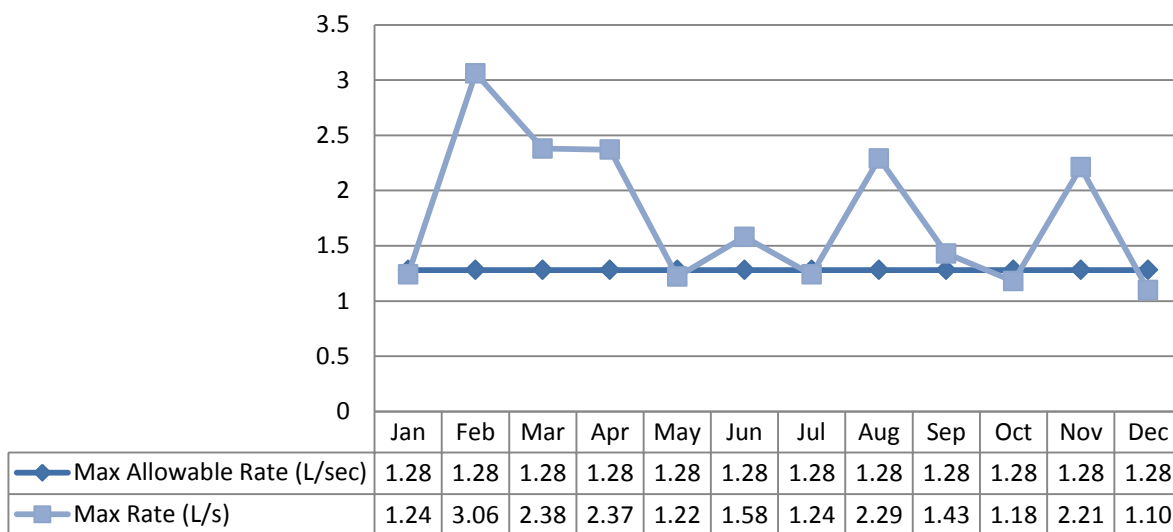
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The spikes are instantaneous and are due to pump start-up.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #3

Monthly Rated Flows (L/s)

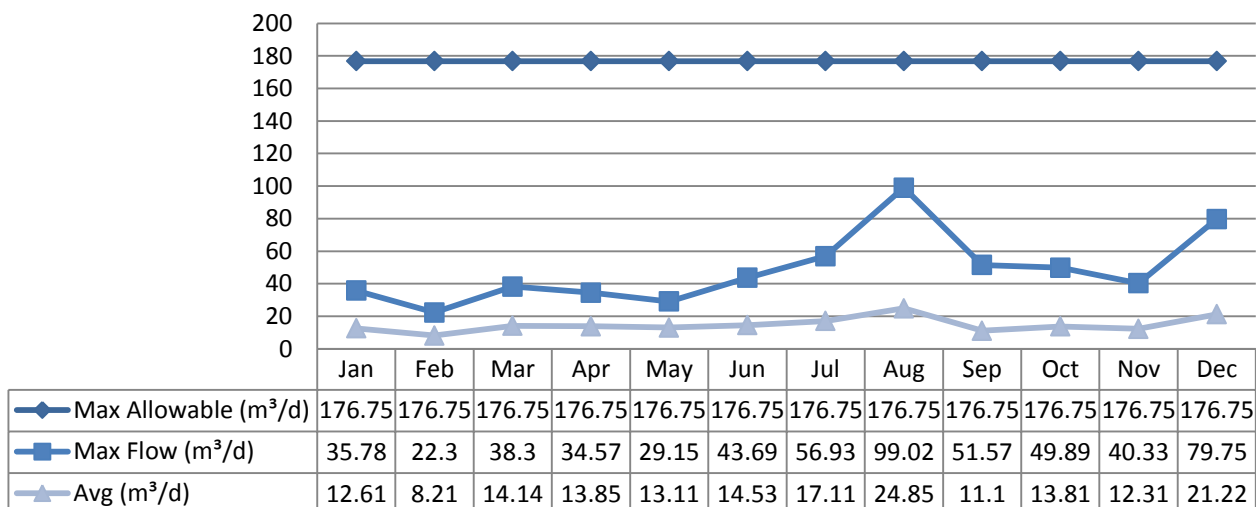
Max allowable rate – PTTW – Well #3



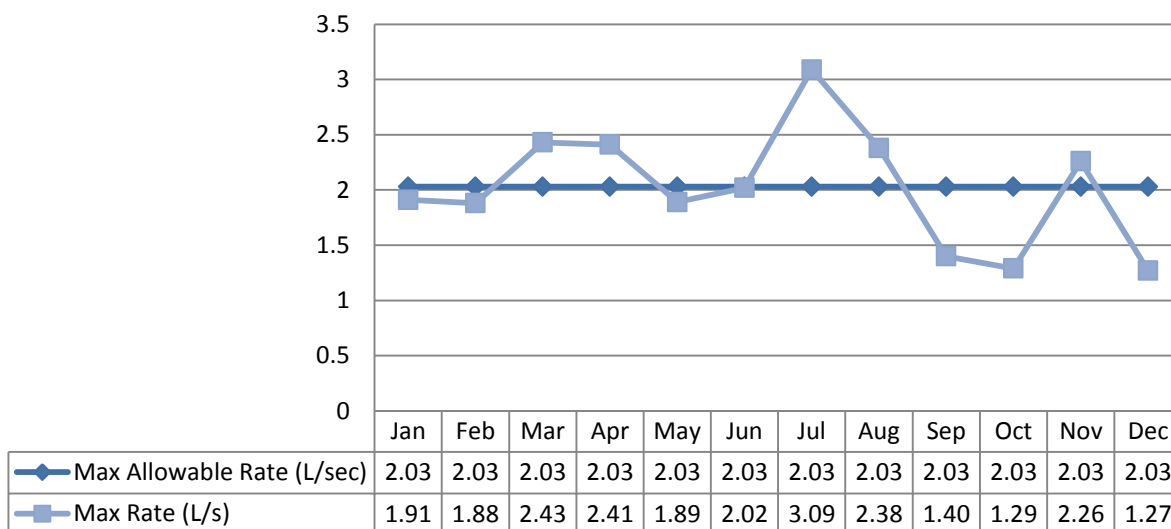
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The spikes are instantaneous and are due to pump start-up.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #4

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #4



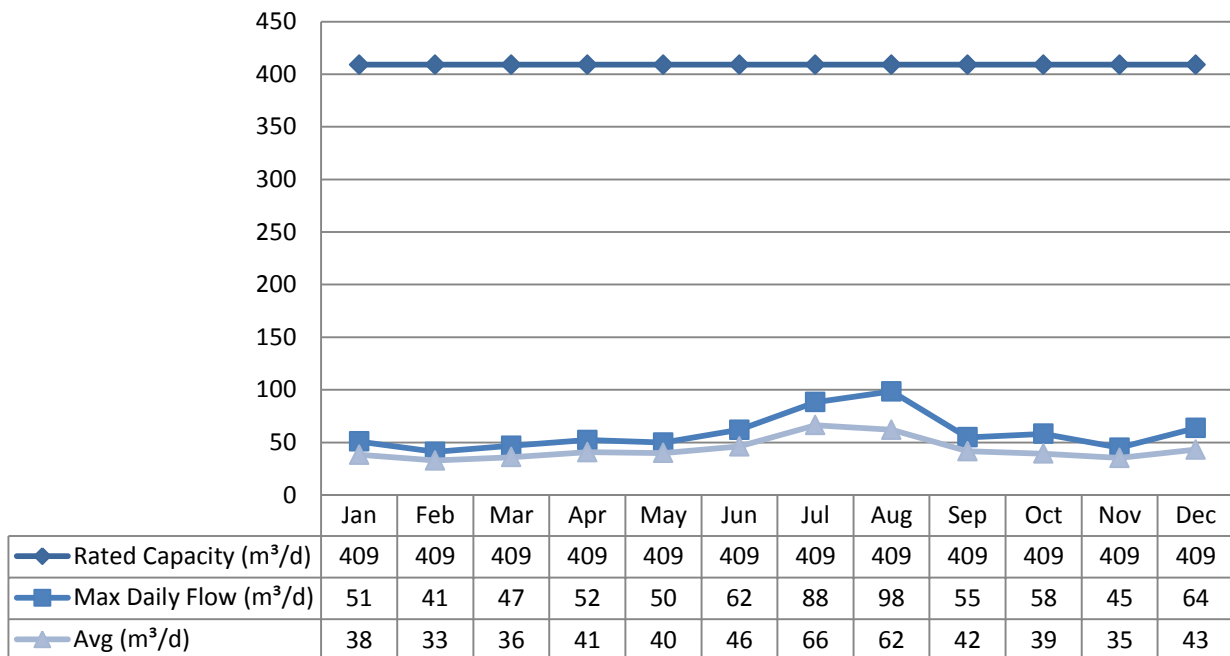
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The spikes are instantaneous and are due to pump start-up.

Treated Water Flows

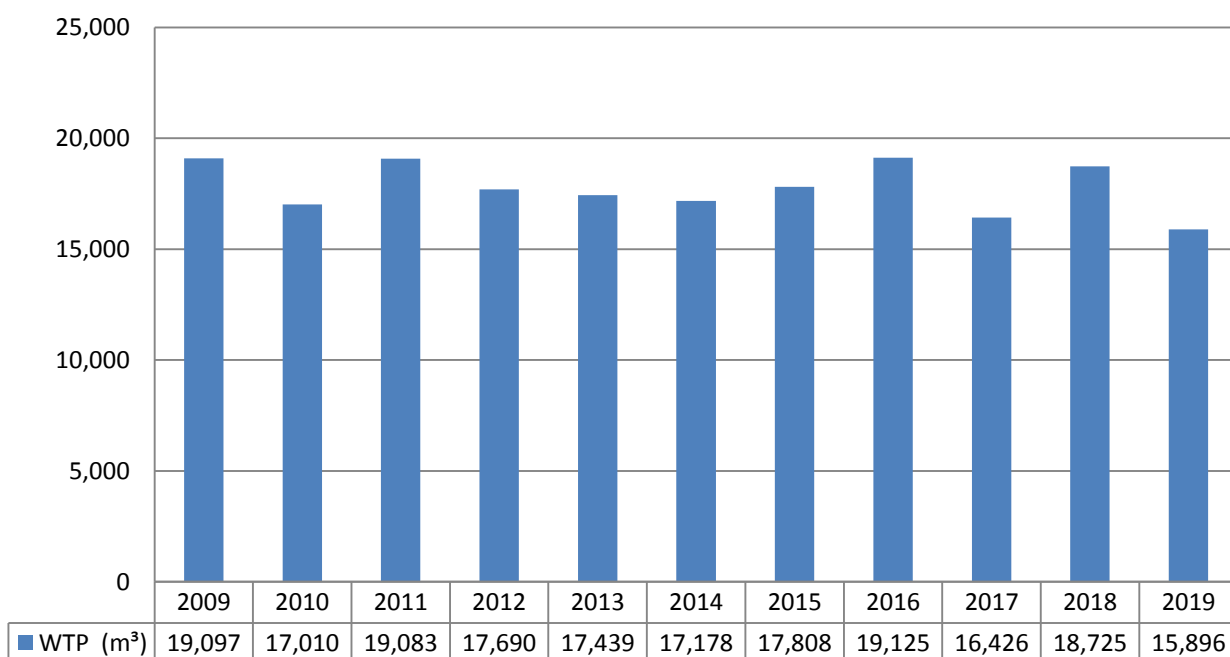
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 2	54	0	0	0	1		
Raw Well 3	54	0	0	0	3		
Raw Well 4	54	0	0	0	1		
Treated	52	0	0	0	0	0	2
Distribution	164	0	0	0	24	0	22

Operational Testing

Location	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Well 2 (NTU)	12	0.19	0.71
Turbidity Well 3 (NTU)	12	0.31	0.83
Turbidity Well 4 (NTU)	13	0.26	0.81
Turbidity - TW (NTU)	8760	0	1.99
Chlorine	8760	0.08	5
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate was tested monthly, while Nitrite was tested quarterly and the metals are tested every three years as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Antimony: Sb (ug/L) - TW	2019/01/07	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2019/01/07	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2019/01/07	74.6	1000.0	No	No
Boron: B (ug/L) - TW	2019/01/07	9.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2019/01/07	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2019/01/07	0.37	50.0	No	No
Mercury: Hg (ug/L) - TW	2019/01/07	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2019/01/07	0.1	50.0	No	No
Uranium: U (ug/L) - TW	2019/01/07	0.856	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2015/01/06	0.1	1.5	No	No
Nitrite (mg/L) - TW	2019/03/04	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/06/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/09/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/12/02	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/03/04	2.37	10.0	No	No
Nitrate (mg/L) - TW	2019/06/03	2.31	10.0	No	No
Nitrate (mg/L) - TW	2019/09/03	4.0	10.0	No	No
Nitrate (mg/L) - TW	2019/12/02	3.54	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/06	7.06	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Parameters Distribution System	No. of Sampling Points	No. of Samples	Range of Results	MAC (ug/L)	Exceedances (MIN)	Exceedances (MAX)
Alkalinity (mg/L)	2	2	287	296	N/A	N/A
pH	2	2	7.28	7.63	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Alachlor (ug/L) - TW	2019/01/07	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2019/01/07	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2019/01/07	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2019/01/07	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2019/01/07	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2019/01/07	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2019/01/07	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2019/01/07	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2019/01/07	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2019/01/07	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2019/01/07	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2019/01/07	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2019/01/07	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2019/01/07	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2019/01/07	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2019/01/07	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2019/01/07	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2019/01/07	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2019/01/07	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2019/01/07	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2019/01/07	<MDL 0.02	190.00	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2019/01/07	<MDL 0.12	100.00	No	No
Metolachlor (ug/L) - TW	2019/01/07	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2019/01/07	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2019/01/07	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2019/01/07	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2019/01/07	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2019/01/07	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2019/01/07	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2019/01/07	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2019/01/07	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2019/01/07	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2019/01/07	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2019/01/07	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2019/01/07	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2019/01/07	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	7.65	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples


Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
MDWL 141-119 (July 26, 2016)	Nitrate	Jan. 7, 2019	2.01	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Feb. 5, 2019	1.92	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Mar. 4, 2019	2.37	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Apr. 1, 2019	3.28	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	May 6, 2019	2.59	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Jun. 3, 2019	2.31	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Jul. 2, 2019	2.45	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Aug. 6, 2019	3.9	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Sep. 3, 2019	4	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Oct. 7, 2019	2.92	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Nov. 4, 2019	2.98	mg/L
MDWL 141-119 (July 26, 2016)	Nitrate	Dec. 2, 2019	3.54	mg/L



Major Maintenance Summary incurred to install, repair or replace required

Equipment was maintained in a fit state of repair as per legislation.

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

[WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTR](#)

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WTRS-WT-008

Water Taking Data submitted successfully.


Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 1087-AYSGRN
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 12:51 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Janetville Drinking Water System

Waterworks # 220006455
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O.Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca.) Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220006455

Drinking Water System Name: Janetville DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	Oct. 8, 2019	Unannounced - Detailed Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	1	Dec. 16, 2019 to Jan. 13, 2020	Missed weekly raw water samples from Well No. 5 due to repair of pitless adaptor and installation of new gasket.
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from three (3) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- a sodium hypochlorite disinfection system
- a sodium silicate metering system
- on-line continuous monitoring for chlorine and turbidity
- a reservoir/clearwell
- hydropneumatic tanks
- high lift pumping system
- stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Sodium Silicate	Iron sequestering	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents identified during the reporting period.

Non-Compliance

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. date(s))	Corrective Action	Status
O. Reg. 170/03	Weekly microbiological sampling of the raw source (Well No.5)	Dec. 16, 2019 to Jan. 13, 2020	Installation of new pitless adaptor casing and new gasket. Disinfection of well, flush, sample and test as per AWWA Standards. Well placed back into service on January 13 and resumed weekly sampling on January 13.	Complete

Non Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

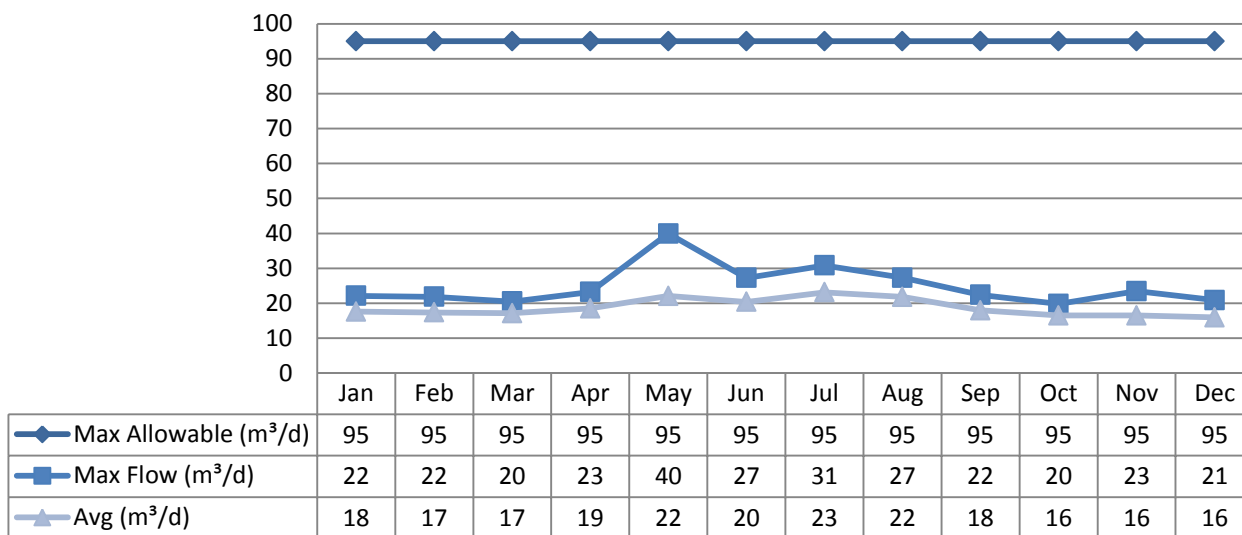
The Janetville Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #5583-AQFKVW. The confirmation of the data submitted is attached in Appendix A.

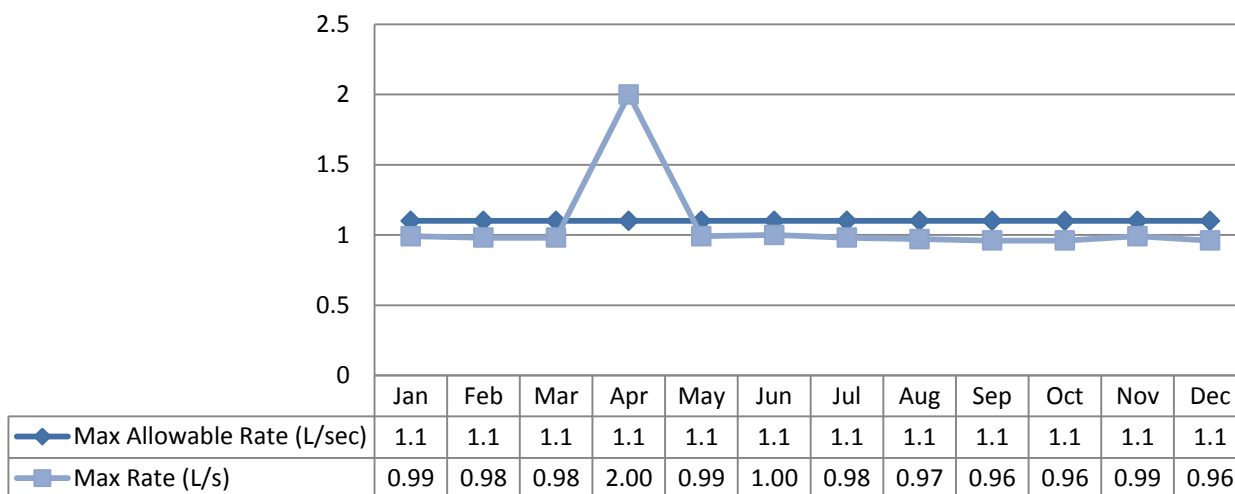
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #3



Monthly Rated Flows (L/s)

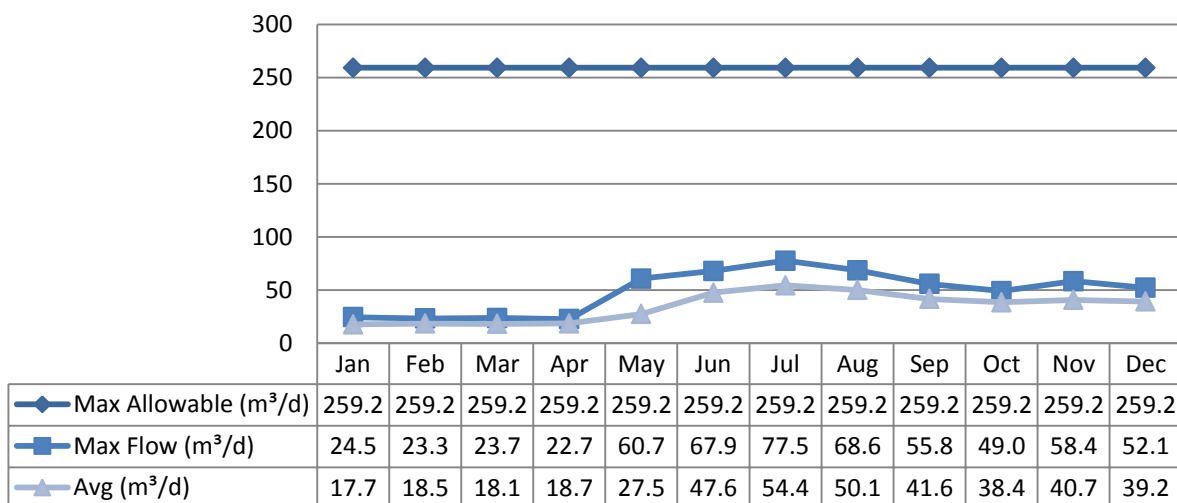
Max allowable rate – PTTW – Well #3



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in April was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

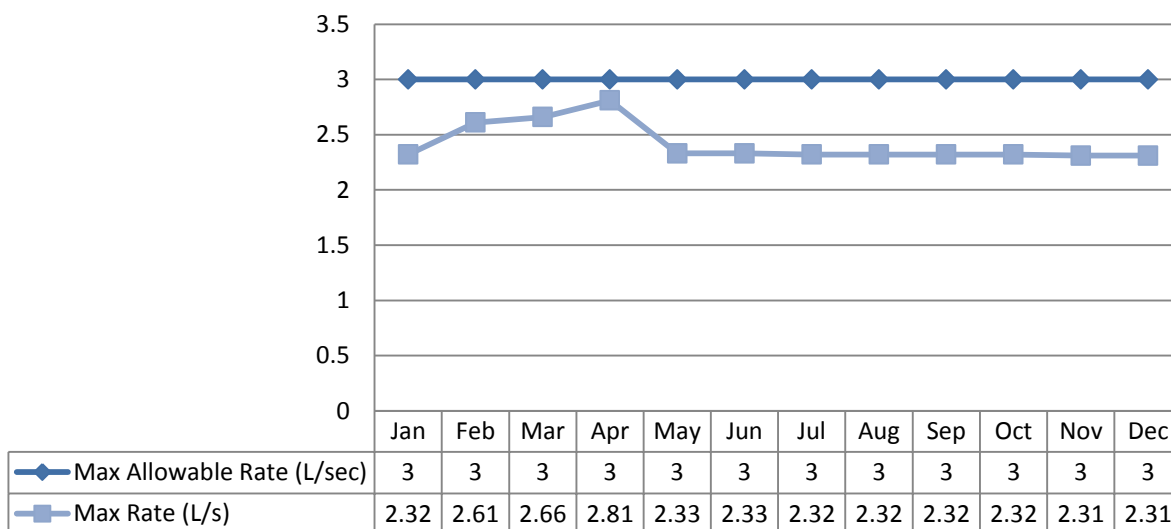
Max Allowable PTTW – Well #4



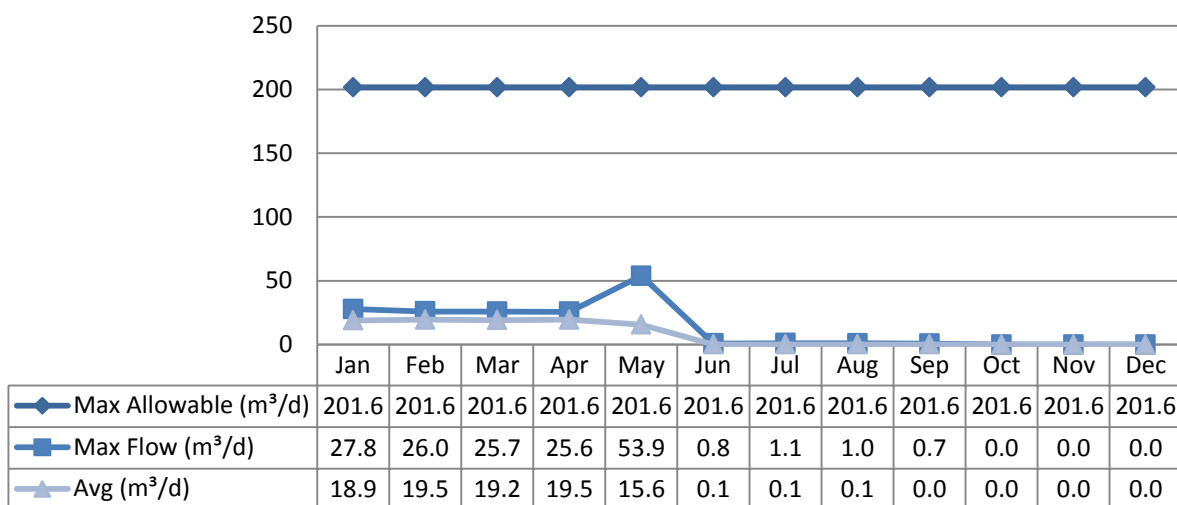
Issued: February 18, 2020

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #4

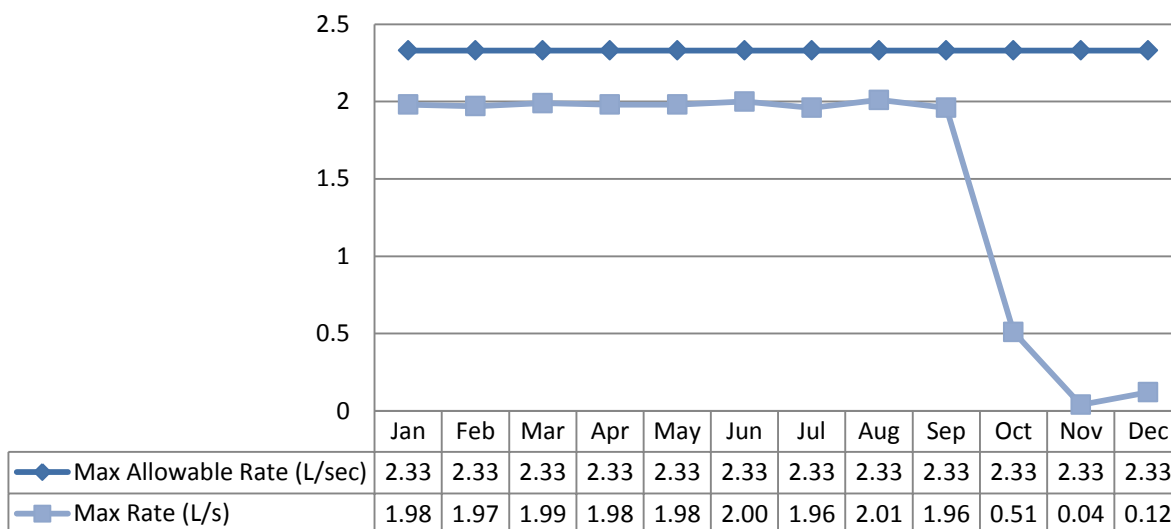
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #5



Monthly Rated Flows (L/s)

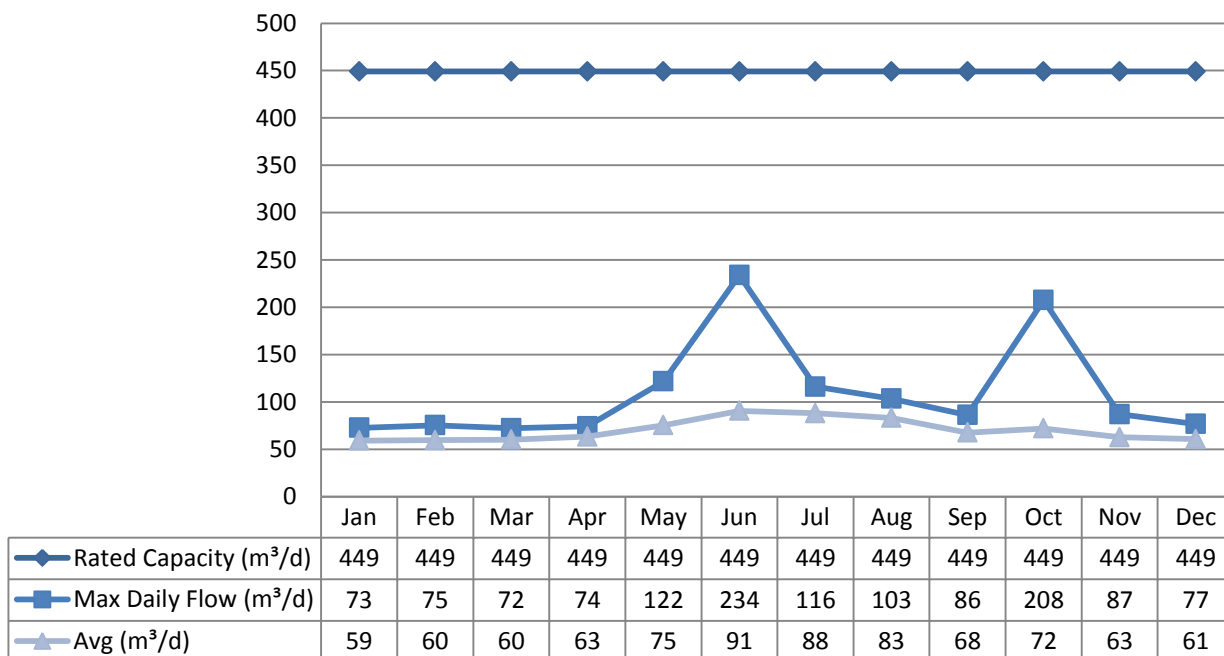
Max allowable rate – PTTW – Well #5

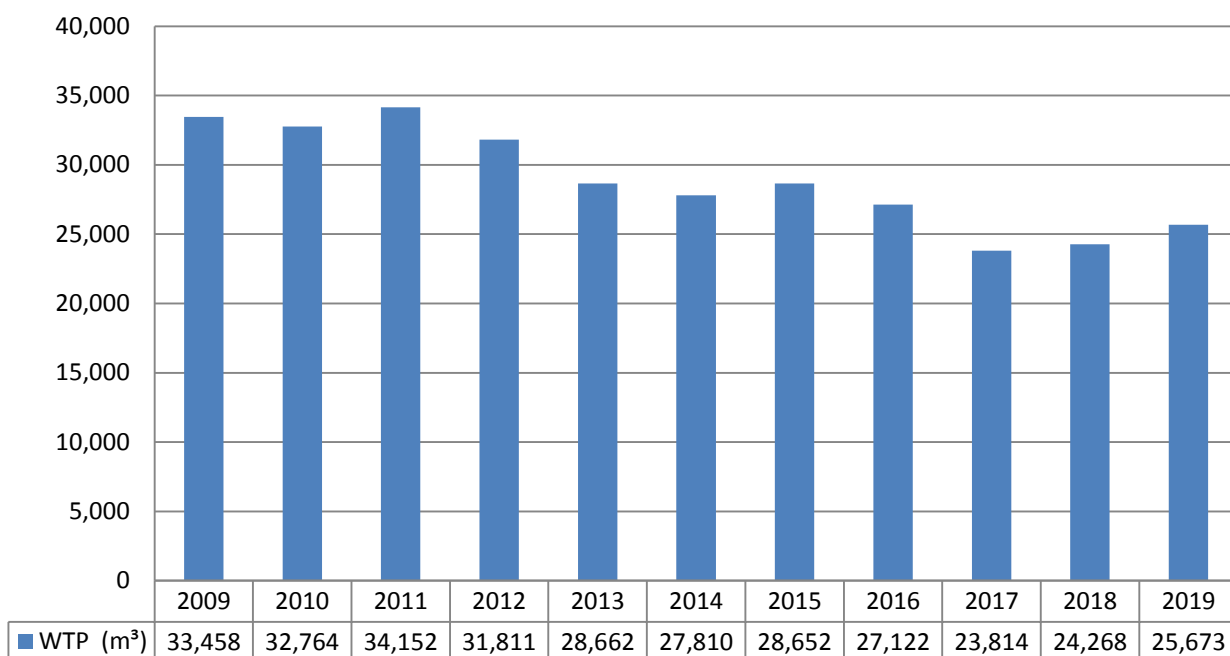
Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL



Annual Total Flow ComparisonTotal Annual m³**Regulatory Sample Results Summary**Microbiological Testing

Parameter	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 3	52	0	0	0	0		
Raw Well 4	52	0	0	0	0		
Raw Well 5	48	0	9	0	25		
Treated	52	0	0	0	0	0	44
Distribution	156	0	0	0	0	0	190

Operational Testing

Parameter	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Well 3 (NTU)	12	0.41	1.13
Turbidity Well 4 (NTU)	12	0.28	0.41
Turbidity Well 5 (NTU)	12	0.28	5.64
Turbidity – TW (NTU)	8760	0	2
Chlorine	8760	0	5
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (1/2 MAC)
Antimony: Sb (ug/L) – TW	2017/01/03	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2017/01/03	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2017/01/03	197.0	1000.0	No	No
Boron: B (ug/L) - TW	2017/01/03	10.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2017/01/03	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2017/01/03	0.61	50.0	No	No
Mercury: Hg (ug/L) - TW	2017/01/03	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2017/01/03	0.07	50.0	No	No
Uranium: U (ug/L) - TW	2017/01/03	0.029	20.0	No	No
Additional Organics					
Fluoride (mg/L) - TW	2018/01/02	0.13	1.5	No	No
Nitrite (mg/L) - TW	2019/01/14	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/14	0.016	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.029	10.0	No	No
Nitrate (mg/L) - TW	2019/07/03	0.011	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.012	10.0	No	No
Sodium: Na (mg/L) - TW	2018/01/02	18.5	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	Exceedances
Alkalinity (mg/L)	2	2	212	218	N/A	N/A
pH	2	2	7.87	8.34	N/A	N/A
Lead (ug/L)	N/A	N/A				

Organic Sampling

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Results	MAC	Exceedances (MIN)	Exceedances (1/2 MAC)
Alachlor (ug/L) - TW	2017/01/03	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2017/01/03	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2017/01/03	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2017/01/03	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2017/01/03	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2017/01/03	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2017/01/03	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2017/01/03	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2017/01/03	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2017/01/03	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2017/01/03	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2017/01/03	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2017/01/03	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2017/01/03	<MDL 0.36	5.00	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Results	MAC	Exceedance s (MIN)	Exceedances (1/2 MAC)
1,2-Dichloroethane (ug/L) - TW	2017/01/03	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2017/01/03	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2017/01/03	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2017/01/03	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2017/01/03	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2017/01/03	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2017/01/03	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2017/01/03	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2017/01/03	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2017/01/03	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2017/01/03	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2017/01/03	<MDL 0.12	100.00	No	No
Metolachlor (ug/L) - TW	2017/01/03	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2017/01/03	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2017/01/03	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2017/01/03	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2017/01/03	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2017/01/03	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2017/01/03	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2017/01/03	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2017/01/03	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2017/01/03	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2017/01/03	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2017/01/03	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2017/01/03	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2017/01/03	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2017/01/03	<MDL 0.44	5.00	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Results	MAC	Exceedance s (MIN)	Exceedances (1/2 MAC)
2,4,6-Trichlorophenol (ug/L) - TW	2017/01/03	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2017/01/03	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2017/01/03	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	27.25	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	10.85	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.


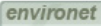
Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
288721	Highlift Pump Upgrade

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 5583-AQFKVW
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 12:25 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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CITY OF KAWARTHA LAKES | 2020/02/10
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Kinmount Drinking Water System

Waterworks # 260075231
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes
Reporting Period of January 1st to December 31st 2019

Issued: February 13, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03
Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 260075231

Drinking Water System Name: Kinmount DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	July 19, 2019	Unannounced-Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Kinmount Water Treatment Plant is supplied with surface water from the Burnt River.

Treatment

The treatment system is a dual train conventional filtration package plant consisting of the following:

- In-line static mixer
- Coagulant feed system with SternPac addition upstream of static mixer
- Two stage variable speed flocculators located in flocculation tanks
- Coagulant aid feed system with polymer added to flocculation tanks
- Two upflow clarifier units equipped with tube settlers

- Two dual media rapid gravity filters
- Sodium hypochlorite feed system for primary disinfection
- Dual celled chlorine contact tanks located beneath the plant
- Two highlift pump chambers housing four highlift pumps
- Sodium hypochlorite feed system for post chlorination
- Online analyzers to monitor both free treated chlorine and filter effluent turbidity
- Wastewater treatment system that consists of two backwash pumps and a settling tank that receives backwash wastewater and clarifier sludge
- SCADA computer control system
- Standby power generator

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Polyaluminium Chloride	Flocculation	FloChem
Polymer	Flocculation	Basf
Sodium hydroxide	pH adjustment	Not required in 2019

Summary of Non-Compliance**Adverse Water Quality Incidents:**

There were no adverse water quality incidents for this reporting period.

Non-Compliance:

There were no non-compliances identified for this reporting period.

Non-Compliance Identified in a Ministry Inspection:

There were no non-compliances identified for this reporting period.

Flows

The Kinmount Drinking Water System is operating on average under half the rated capacity.

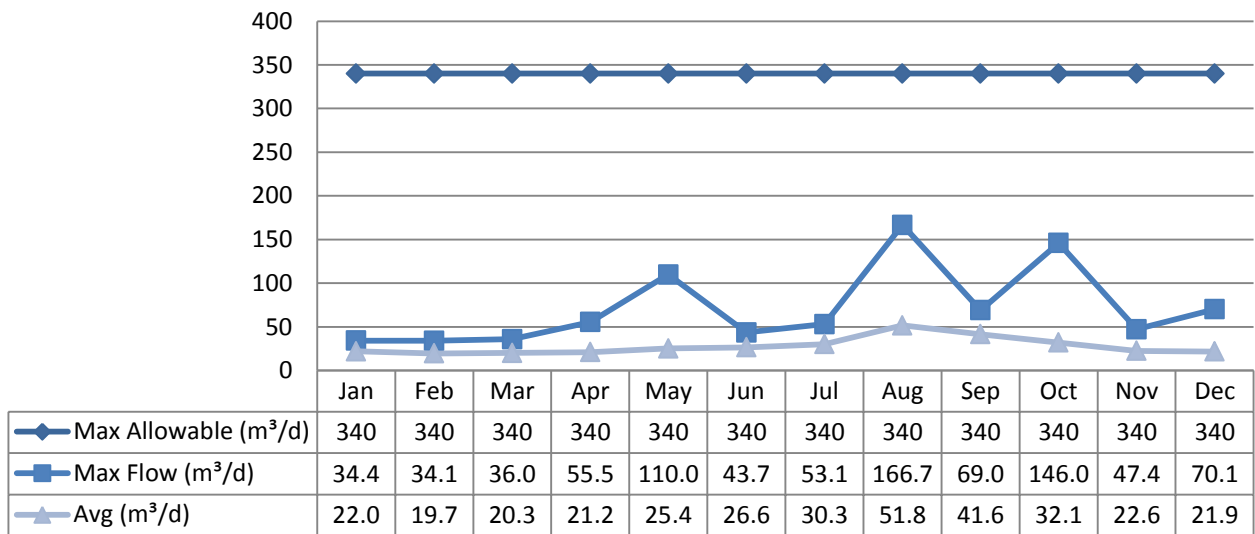
Raw Water Flows

The Raw Water takings are regulated by the Permit to Take Water (PTTW). 2019 Raw Flow Data was submitted to the Ministry electronically under permit #2447-AWDJEA. The confirmation for the data that was submitted is attached in Appendix A.

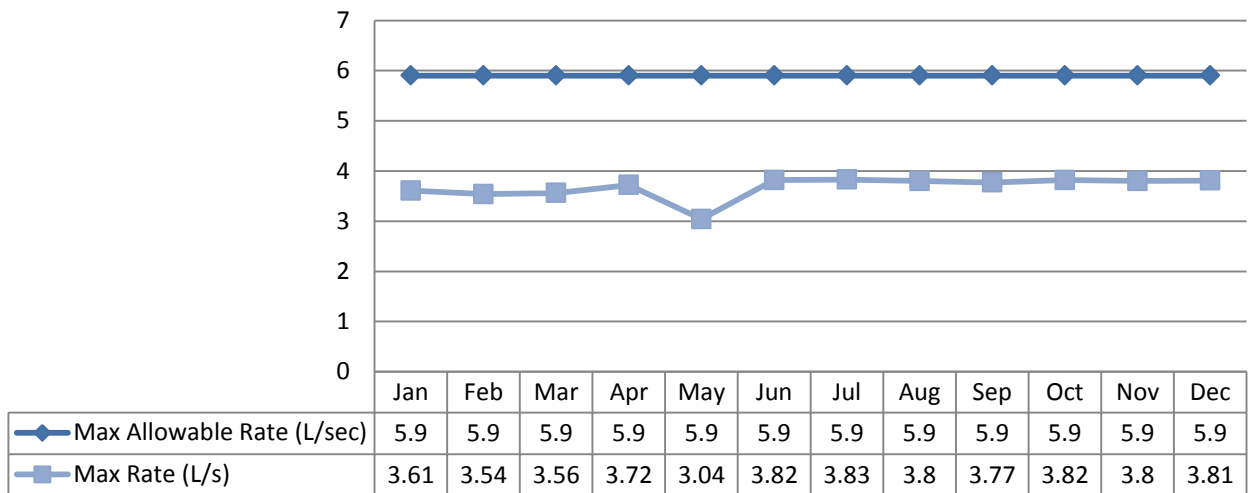
Issued: February 13, 2020

Total Monthly Flows (m³/d)

Max Allowable PTTW- Raw

Monthly Rated Flows (L/s)

Max allowable rate – PTTW- Raw

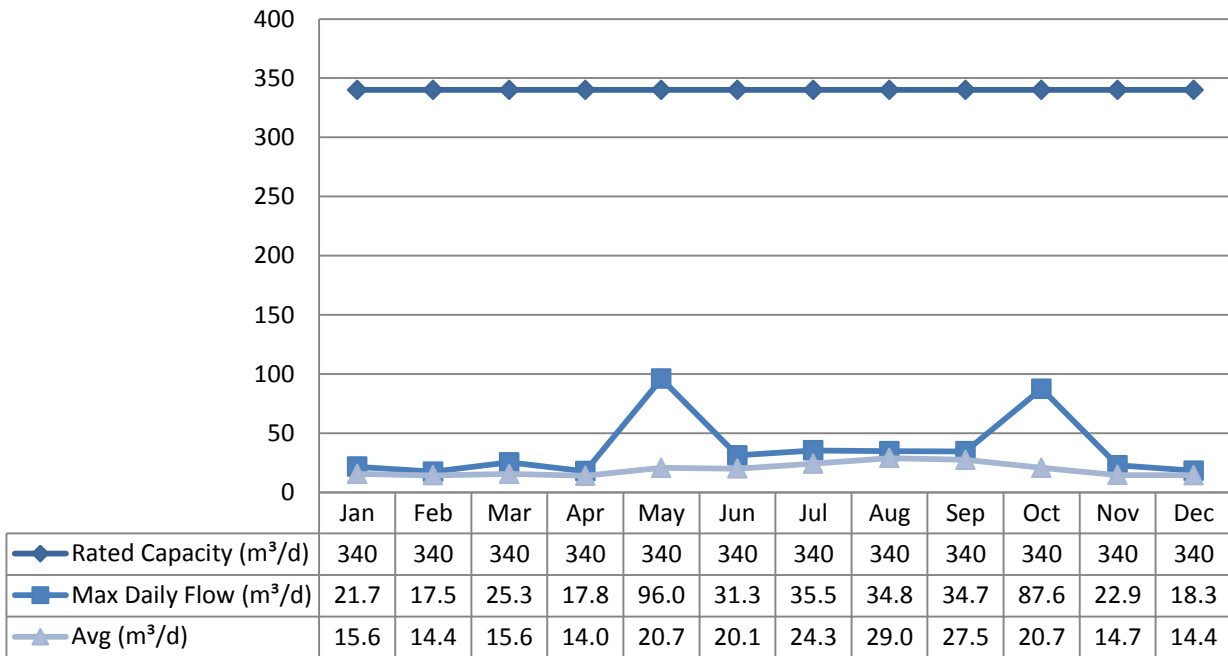


Treated Water Flows

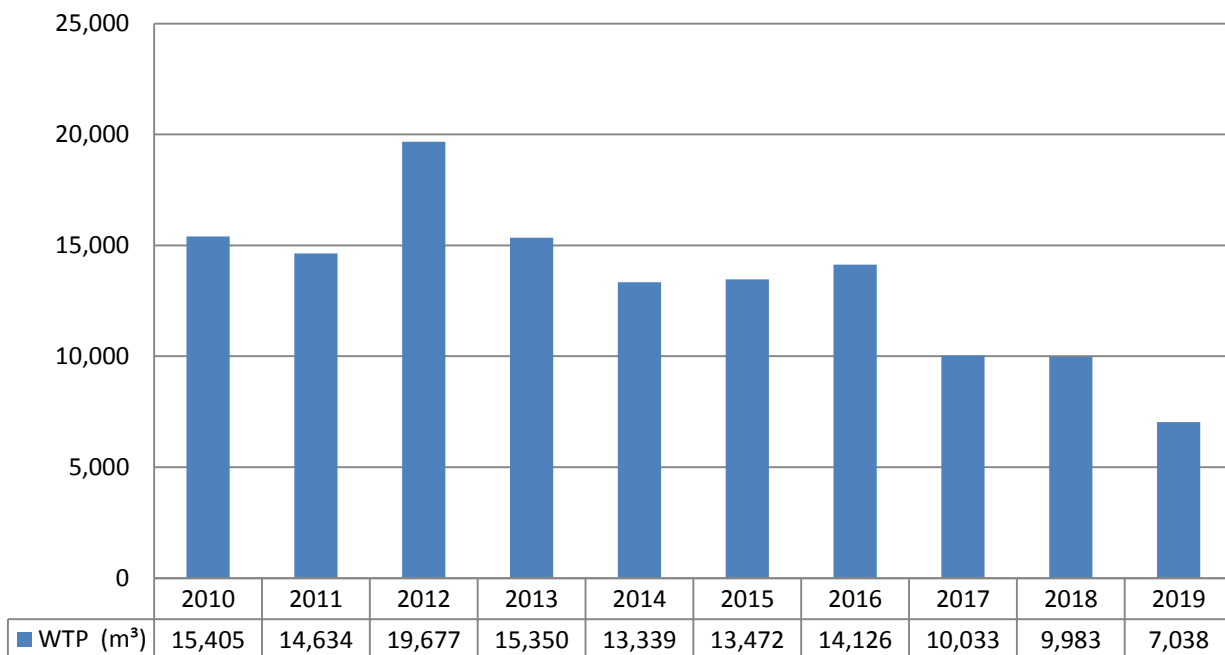
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity - MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform (MIN)	Range of Total Coliform (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw	27	1	25	19	400		
Distribution	52	0	0	0	0	0	2

Operational Testing

Parameters	No. of Samples	Range of Results (MIN)	Range of Results (MAX)
Turbidity Filter 1 (NTU)	8760	0.00	1.28
Turbidity Filter 2 (NTU)	8760	0.00	1.81
Chlorine	8760	0.00	4.93
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under 170/03. Sodium, Fluoride and the metals are required to be tested every 5 years while Nitrate and Nitrite are tested quarterly. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Parameter (Treated Water)	Date of Sampling	Sampling Result	MAC	No. of Exceedances MAC	No. of Exceedances 1/2 MAC
Antimony: Sb (ug/L) - TW	2015/01/15	0.05	6.0	No	No
Arsenic: As (ug/L) - TW	2015/01/15	< 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2015/01/15	17.3	1000.0	No	No
Boron: B (ug/L) - TW	2015/01/15	16.3	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2015/01/15	< 0.003	5.0	No	No

Parameter (Treated Water)	Date of Sampling	Sampling Result	MAC	No. of Exceedances MAC	No. of Exceedances 1/2 MAC
Chromium: Cr (ug/L) - TW	2015/01/15	0.38	50.0	No	No
Mercury: Hg (ug/L) - TW	2015/01/15	< 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2015/01/15	< 1.0	50.0	No	No
Uranium: U (ug/L) - TW	2015/01/15	0.018	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2015/01/15	< 0.06	1.5	No	No
Nitrite (mg/L) - TW	2019/01/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/12	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/09	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/08	0.090	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.157	10.0	No	No
Nitrate (mg/L) - TW	2019/07/12	0.066	10.0	No	No
Nitrate (mg/L) - TW	2019/10/09	0.025	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/10	9.01	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium-restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (Min)	Range of Results (Max)	MAC	No. of Exceedances
Alkalinity (mg/L)	2	2	29	32	N/A	N/A
pH	2	2	7.00	7.65	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested every 5 years as a requirement under O Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Alachlor (ug/L) - TW	2015/01/15	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2015/01/15	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2015/01/15	<MDL 0.02	20.00	No	No
Benzene (ug/L) - TW	2015/01/15	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2015/01/15	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2015/01/15	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2015/01/15	<MDL 0.01	90.00	No	No
Carbofuran (ug/L) - TW	2015/01/15	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2015/01/15	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2015/01/15	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2015/01/15	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2015/01/15	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2015/01/15	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2015/01/15	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2015/01/15	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2015/01/15	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) – TW	2015/01/15	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2015/01/15	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) – TW	2015/01/15	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2015/01/15	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2015/01/15	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2015/01/15	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2015/01/15	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2015/01/15	<MDL 1.0	280.00	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Malathion (ug/L) - TW	2015/01/15	<MDL 0.02	190.00	No	No
Metolachlor (ug/L) - TW	2015/01/15	<MDL 0.01	80.00	No	No
Metribuzin (ug/L) - TW	2015/01/15	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) – TW	2015/01/15	<MDL 0.3	10.00	No	No
Paraquat (ug/L) - TW	2015/01/15	<MDL 1.0	3.00	No	No
PCB (ug/L) - TW	2015/01/15	<MDL 0.04	60.00	No	No
Pentachlorophenol (ug/L) - TW	2015/01/15	<MDL 0.15	2.00	No	No
Phorate (ug/L) - TW	2015/01/15	<MDL 0.01	190.00	No	No
Picloram (ug/L) - TW	2015/01/15	<MDL 1.0	1.00	No	No
Prometryne (ug/L) - TW	2015/01/15	<MDL 0.03	10.00	No	No
Simazine (ug/L) - TW	2015/01/15	<MDL 0.01	1.00	No	No
Terbufos (ug/L) - TW	2015/01/15	<MDL 0.01	10.00	No	No
Tetrachloroethylene (ug/L) - TW	2015/01/15	<MDL 0.35	100.00	No	No
2,3,4,6- Tetrachlorophenol (ug/L) - TW	2015/01/15	<MDL 0.2	230.00	No	No
Triallate (ug/L) - TW	2015/01/15	<MDL 0.01	5.00	No	No
Trichloroethylene (ug/L) - TW	2015/01/15	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2015/01/15	<MDL 0.25	100.00	No	No
Trifluralin (ug/L) - TW	2015/01/15	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2015/01/15	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	69	100	No	Yes
HAA Total (ug/L) Annual Average - DW	2019	70	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples

Municipal Drinking Water Licence	Date Collected	Suspended Solids (mg/L)	Free Chlorine Residual (mg/L)
Settling Tank Discharge Point	January	12	0.05
	February	4	0.02
	March	<2	0.02
	April	2	0.02
	May	3	0.02
	June	2	0.02
	July	20	0.00
	August	2	0.04
	September	102	0.01
	October	8	0.04
	November	6	0.01
	December	2	0.01
	Annual Average	13.75	


Note: The Suspended Solids annual average limit is 25 mg/L.


Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1018275	Replacement of filter PLC panel.
1054598	Replacement of clear well cell 1 level meter.
1101310	Heater Repair
1102140	Replace Filter Turbidity Analyzer Controller and Sensors
1102315	Replacement Lowlift Pump 02
1102317	Replacement Coagulant Feed Pumps
1126734	Replacement Panel-View Touchscreen
1137351	Update to SPack32 Outpost
1138256	Dehumidifier Repair
1257605	Rebuild Kits for Air Relief Valve
1421078	SCADA Reprogramming to fix Filter 2 Backwash Issues

Appendix A

WTRS Data Submission Confirmation





Ministry of the Environment,
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 2447-AWDJEA
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 6, 2020 2:23 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Lindsay Drinking Water System

Waterworks #220000175

System Category – Large Municipal Residential

Annual Drinking Water Report

Reporting Period of January 01, 2019 to December 31, 2019

Report Issued: February 20, 2020

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual report requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system serves more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 220000175

Drinking Water System Name: Lindsay WTP

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	<u># of Events</u>	<u>Date</u>	<u>Details</u>
Drinking Water			
MECP Inspections	1	2019 11 22	Annual Announced Drinking Water Inspection – Final Inspection Rating of 100%
AWQI's	2	2019 01 09 2019 06 19	THM Running Annual Average of 100.75 ug/L Lindsay Street at Glenelg Street Tie-in 21TC.
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description Raw Source

The Lindsay Water Treatment Plant receives raw water from the Scugog River, which is a surface water source.

Treatment

The treatment system consists of the following:

- Two screened intake pipes
- Three low lift pumps
- CO₂ pH correction
- Coagulant and polymer addition
- Two ballasted floc/clarification units each with coagulation, flocculation, up-flow settling tank with inclined tube settlers and “micro-sand” recirculation pumps
- Five GAC/sand filters
- Chlorination
- Two clearwells, East & West Cells
- Four high lift pumps
- On-site wastewater equalization and sludge thickening
- Standby power
- SCADA system
- Thornhill Reservoir and pumping station
- Verulam elevated storage tank
- Oakwood Reservoir and pumping station

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Lavo
Sodium Hydroxide	pH Correction	PVS Benson
Aluminum Sulphate (Alum)	Coagulation	Chemtrade
Carbon Dioxide	pH Correction	Praxair
Polyaluminumchloride (PAC)	Coagulation	Kemira
Magna Floc Polymer	Coagulation	Northland Chemical

Summary of Non-Compliance**Adverse Water Quality Incidents**

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
2019 01 30	N/A	Lindsay Distribution	THM Running Annual Average	100.75	O. Reg. 170/03	N/A
2019 06 19	145748	Lindsay Distribution	Repair Tie-in	21 TC	O. Reg. 170/03	Flushed & Re-sampled

Non-Compliance:

Legislation Requirement(s) System Failed to Meet	Duration of the Failure (i.e. Date(s))	Corrective Action	Status
N/A	N/A	N/A	N/A

There were no non-compliances identified during this period.

Non-Compliance Identified in a Ministry Inspection:

Legislation Requirement(s) System Failed to Meet	Duration of the Failure (i.e. Date(s))	Corrective Action	Status
All Applicable	N/A	N/A	N/A

There were no non-compliances identified during this period.

Flows

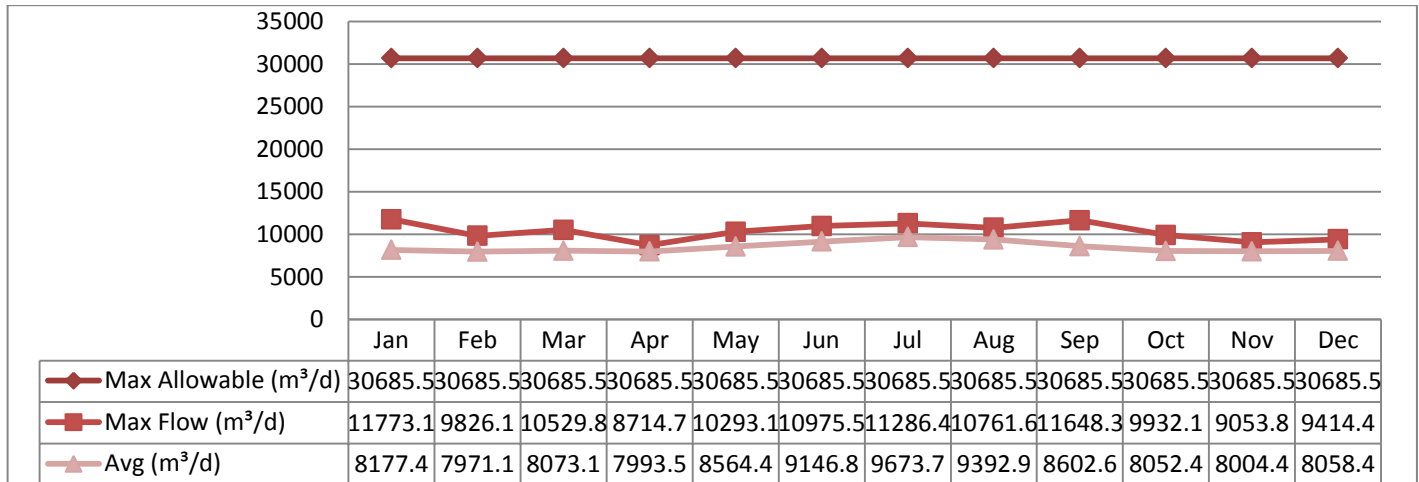
The Lindsay Drinking Water System maximum allowable water taking is 30,685.5 m³/day. On average the plant is operating at under half this capacity.

Raw Water Flows

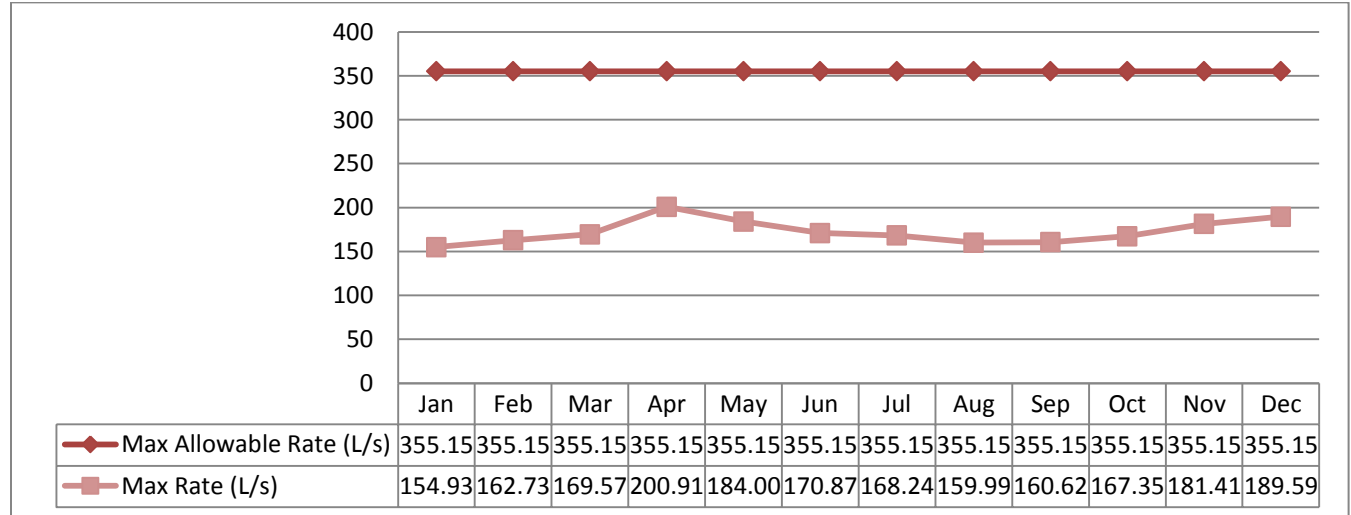
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #8160-B3MP6L. The confirmation and a copy of the data that was submitted are attached in Appendix B.

Total Monthly Flows (m³/d)

Max Allowable PTTW- Scugog River
Monthly Rated Flows (L/s)



Max allowable rate – PTTW- Scugog River

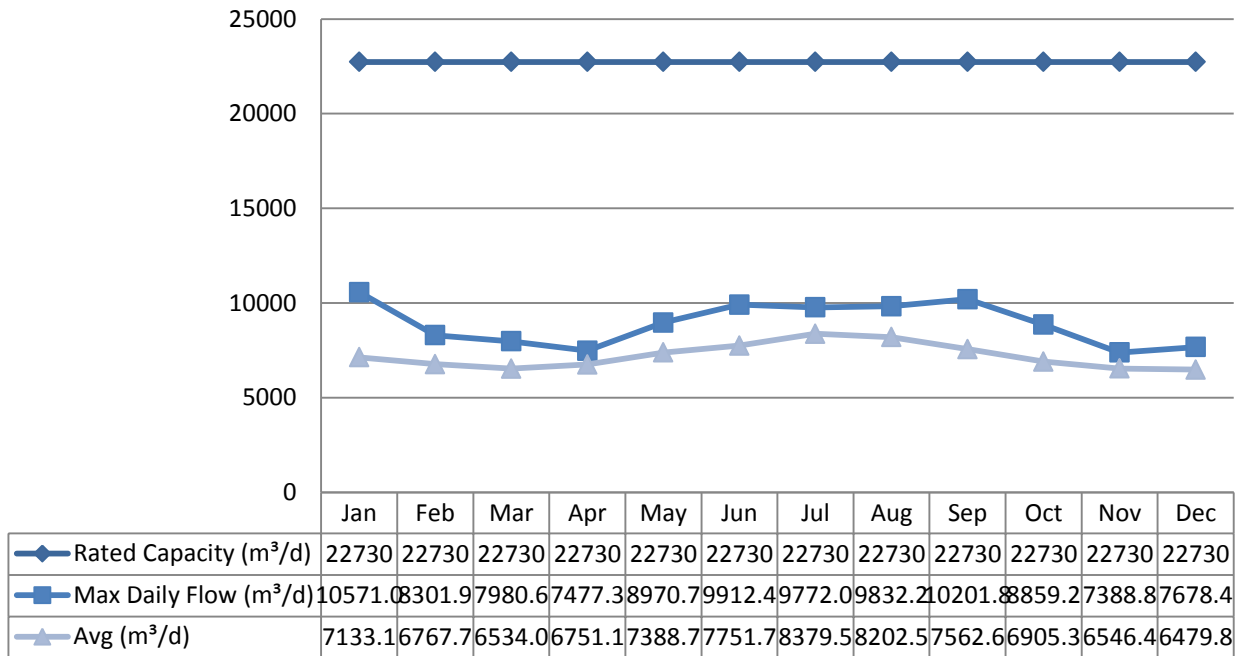


Treated Water Flows

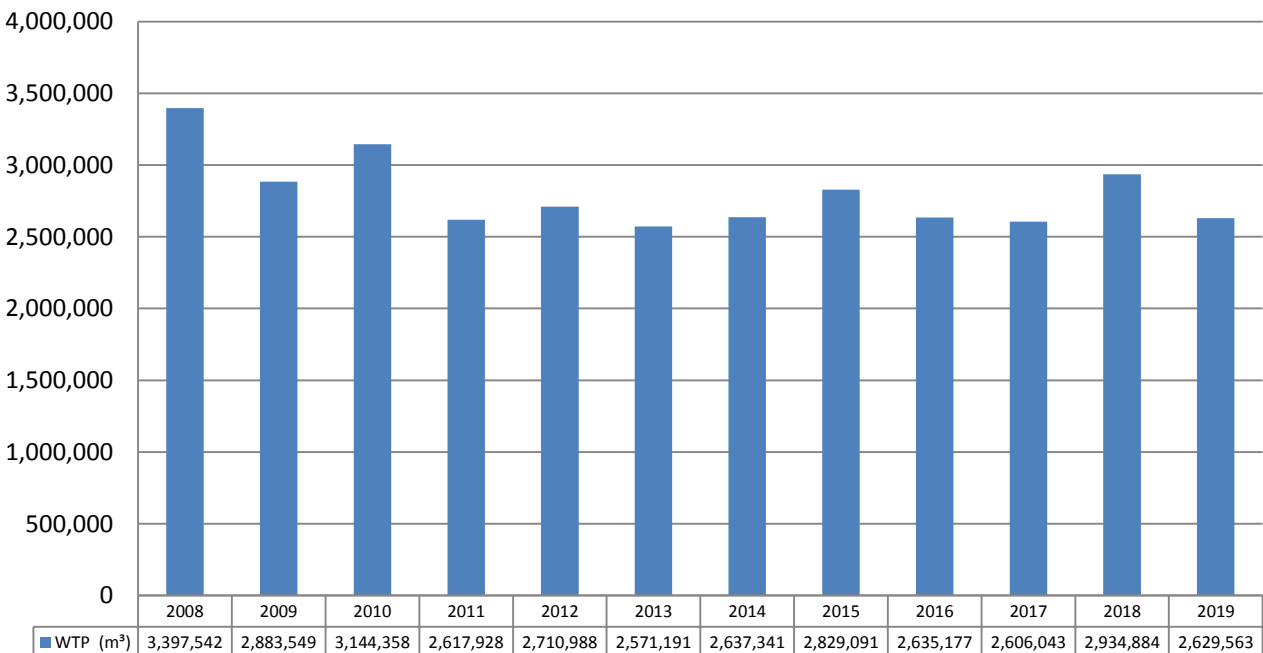
The Treated Water flow is regulated under the Municipal Drinking Water Licence.

Monthly Rated Flows

Rated Capacity - MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

The City of Kawartha Lakes adheres to operational and compliance limits however, during certain operational circumstances some results may be temporarily outside of limits. This includes but is not limited to: pump start-ups, power outages/generator tests, alarm verification, maintenance, etc. These are all normal occurrences and are listed within the report but are not indicative of a true exceedance.

Microbiological Testing

	No. of Samples Collected	Range of E.coli Results	Range of Total Coliform Results	Range of HPC Results
		Min / Max	Min / Max	Min / Max
Raw	52	3 / 1400	38 / 100000	
Treated	52	0 / 0	0 / 0	0 / 2
Distribution	655	0 / 0	0 / 0	0 / 2

Operational Testing

Parameter	No. of Collected Samples	Range of Results Minimum	Range of Results Maximum
Turbidity (NTU)	8760	0.00 NTU	2.04 NTU
Chlorine	8760	0.00 mg/L	5.00 mg/L
Fluoride (If the DWS provides fluoridation)	N/A		

The Minimum 0.00 mg/L was noted on our Monthly SCADA Reports on February 7, 2019 and May 16, 2019. All trending was reviewed and there were no 0.00mg/L chlorine residuals found.

On September 19, 2019 the minimum 0.00 mg/L was noted on our Monthly SCADA Report, this is due to annual calibration; the plant was shut off during this time.

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Additional Legislated Sampling

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
July 26, 2016	TSS	2019 01 08	2	mg/L
July 26, 2016	TSS	2019 02 04	4	mg/L
July 26, 2016	TSS	2019 03 04	3	mg/L
July 26, 2016	TSS	2019 04 01	6	mg/L
July 26, 2016	TSS	2019 05 06	33	mg/L
July 26, 2016	TSS	2019 06 03	3	mg/L
July 26, 2016	TSS	2019 07 02	7	mg/L
July 26, 2016	TSS	2019 08 07	11	mg/L
July 26, 2016	TSS	2019 09 09	5	mg/L
July 26, 2016	TSS	2019 10 07	22	mg/L
July 26, 2016	TSS	2019 11 04	2	mg/L
July 26, 2016	TSS	2019 12 03	<2	mg/L
Summary	TSS	2019	Min: <2 Max: 6 AVG: 8.90901 based on 12 numerical results	mg/L

Inorganic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every five years.

Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O. Reg. 170/03. In the event any of the parameters exceed half of the maximum allowable concentration, the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- BDL = Below the laboratory detection level

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedance Y/N MAC	Exceedance Y/N ½ MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2019 01 09	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2019 01 09	0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2019 01 09	29.3	1000.0	No	No
Boron: B (ug/L) - TW	2019 01 09	13	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2019 01 09	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2019 01 09	0.13	50.0	No	No
Mercury: Hg (ug/L) - TW	2019 01 09	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2019 01 09	0.06	50.0	No	No
Uranium: U (ug/L) - TW	2019 01 09	0.010	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018 12 07	0.06	1.5	No	No
Nitrite (mg/L) - TW	2019 01 09	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019 04 01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019 07 05	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019 10 08	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019 01 09	0.817	10.0	No	No
Nitrate (mg/L) - TW	2019 04 01	0.624	10.0	No	No
Nitrate (mg/L) - TW	2019 07 05	0.179	10.0	No	No
Nitrate (mg/L) - TW	2019 10 08	0.024	10.0	No	No
Sodium: Na (mg/L) - TW	2016 07 11	34.9	20*	No	No

***There is no "MAC" for Sodium.** The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians who may have patients on sodium-restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results MIN	Range of Results MAX	MAC (ug/L)	Number of Exceedances
Alkalinity (mg/L)	4	8	117	121	N/A	N/A
pH	4	8	7.14	7.39	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Alachlor (ug/L) - TW	2019 01 09	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2019 01 09	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2019 01 09	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2019 01 09	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2019 01 09	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2019 01 09	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2019 01 09	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2019 01 09	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2019 01 09	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2019 01 09	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2019 01 09	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2019 01 09	<MDL 0.20	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2019 01 09	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2019 01 09	<MDL 0.36	5.00	No	No

1,2-Dichloroethane (ug/L) - TW	2019 01 09	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2019 01 09	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2019 01 09	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2019 01 09	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2019 01 09	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2019 01 09	<MDL 0.40	9.00	No	No
Dimethoate (ug/L) - TW	2019 01 09	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2019 01 09	<MDL 1	70.00	No	No
Diuron (ug/L) - TW	2019 01 09	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2019 01 09	<MDL 1	280.00	No	No
Malathion (ug/L) - TW	2019 01 09	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2019 01 09	<MDL 0.00012	0.01	No	No
Metolachlor (ug/L) - TW	2019 01 09	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2019 01 09	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2019 01 09	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2019 01 09	<MDL 1	10.00	No	No
PCB (ug/L) - TW	2019 01 09	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2019 01 09	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2019 01 09	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2019 01 09	<MDL 1	190.00	No	No
Prometryne (ug/L) - TW	2019 01 09	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2019 01 09	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2019 01 09	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2019 01 09	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2019 01 09	<MDL 0.20	100.00	No	No
Triallate (ug/L) - TW	2019 01 09	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2019 01 09	<MDL 0.44	5.00	No	No

2,4,6-Trichlorophenol (ug/L) - TW	2019 01 09	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2019 01 09	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2019 01 09	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	84.5	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	79.96	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg.169/03

BDL = Below the laboratory detection level

Major Maintenance Summary

WO #	Description
21022	Replacement Equalization Level Controller
95968	Install Liquid Eductor Silica Sand to Actiflos
24731	Repair Booster Pump 3 at Thornhill Reservoir
26513	Replace Section of Lamellas Within Actiflo 2
23104	Replace Upper Blades Actiflo 2 Injection Mixer
28029	Replace Hach Raw pH Temp With Prominent pH Temp Meter
26958	Install VFD on Equalization Pump 1

Appendix A

WTRS Data and Submission Confirmation

Water Taking Reporting System

<https://www.lrcsde.lrc.gov.on.ca/wtrs/external/permits/permitS...>



Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 8160-B3MP6L

Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.

Received on: Jan 7, 2020 10:15 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

[Return to Main Page](#)

CITY OF KAWARTHA LAKES | 2020/01/07

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Woods of Manilla Drinking Water System

Waterworks # 210002218
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st to December 31st, 2019

Issued: February 20, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 210002218

Drinking Water System Name: Woods of Manilla WTP

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	1	August 16 2019	Employee scraped wrist on rusted metal frame and needed a tetanus shot.
Drinking Water			
MECP Inspections	1	July 18, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Woods of Manilla Drinking Supply System consists of two production wells. The Woods of Manilla I Water Treatment Plant is supplied with raw groundwater from one well (Well 1) and the Woods of Manilla II Water Treatment Plant is supplied from a separate groundwater well (Well 2).

Treatment

The treatment system consists of the following:

Woods of Manilla I

- One groundwater production well considered to be non-GUDI with a pump
- Sodium hypochlorite feed system with one metering pump
- Clearwell
- Two flow meters: raw and treated
- Chlorine analyzer
- Turbidity analyzer
- Two highlifts

Note: Woods of Manilla I was offline during the reporting year.

Woods of Manilla II

- One groundwater production well considered to be non-GUDI with a pump
- Sodium hypochlorite feed system with two metering pumps
- Clearwell
- Two flow meters: raw and treated
- Chlorine analyzer
- Turbidity analyzers
- Two submersible highlifts
- Standby generator

Treatment Chemicals used during the reporting year:

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents during the reporting period.

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry inspection during the reporting period.

Flows

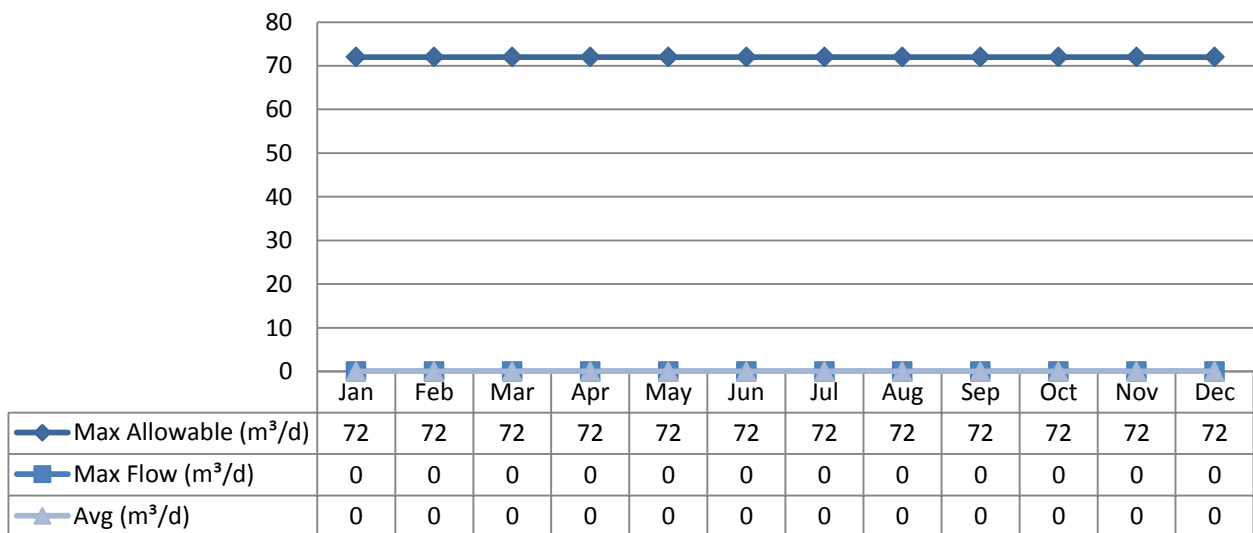
The Woods of Manilla Drinking Water System is operating under half the rated capacity.

Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #2300-AQHK4Y. The confirmation and a copy of the data that was submitted are attached in Appendix A.

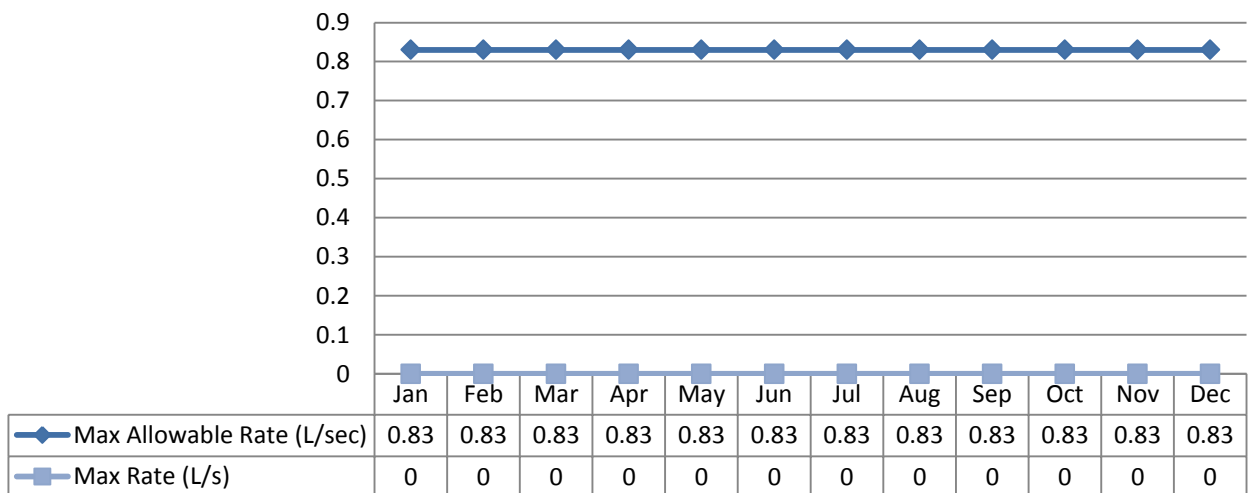
Total Monthly Flows (m³/d)

Max Allowable PTTW- Well #1

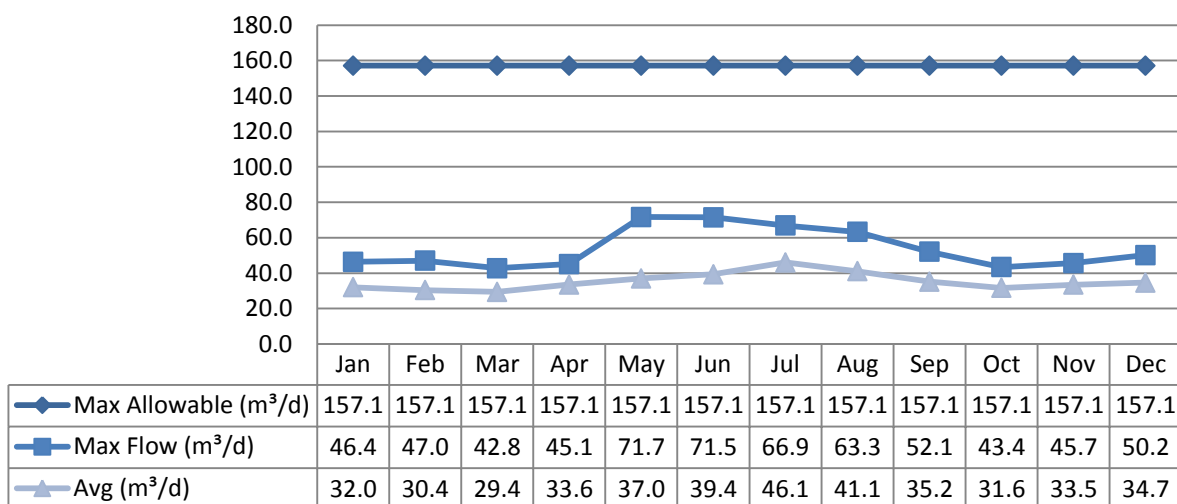
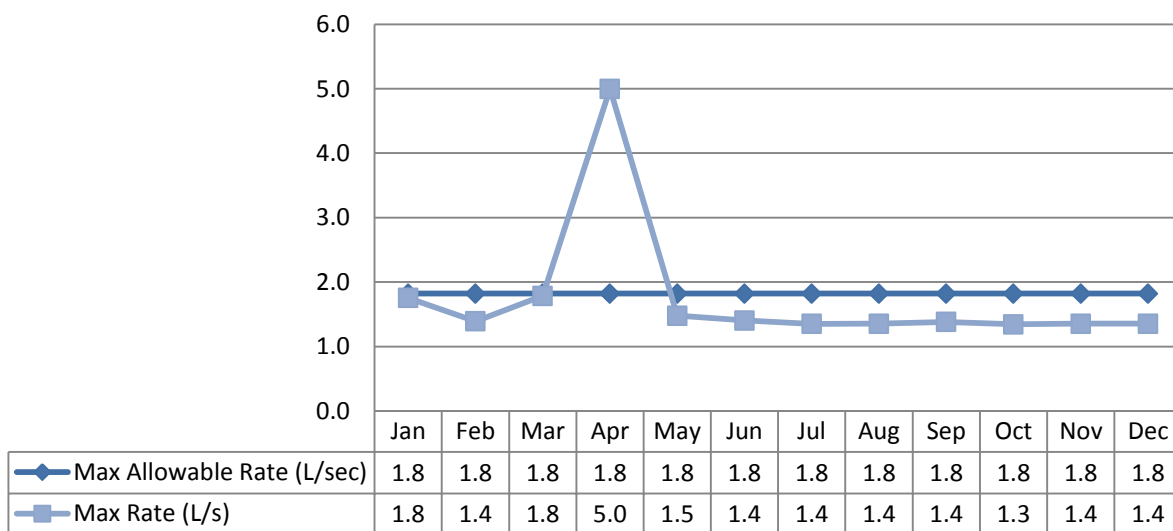


Monthly Rated Flows (L/s)

Max allowable rate – PTTW- Well #1



Note: Woods of Manilla I was offline during the reporting year.

Total Monthly Flows (m³/d)**Max Allowable PTTW- Well #2****Monthly Rated Flows (L/s)****Max allowable rate – PTTW- Well #2**

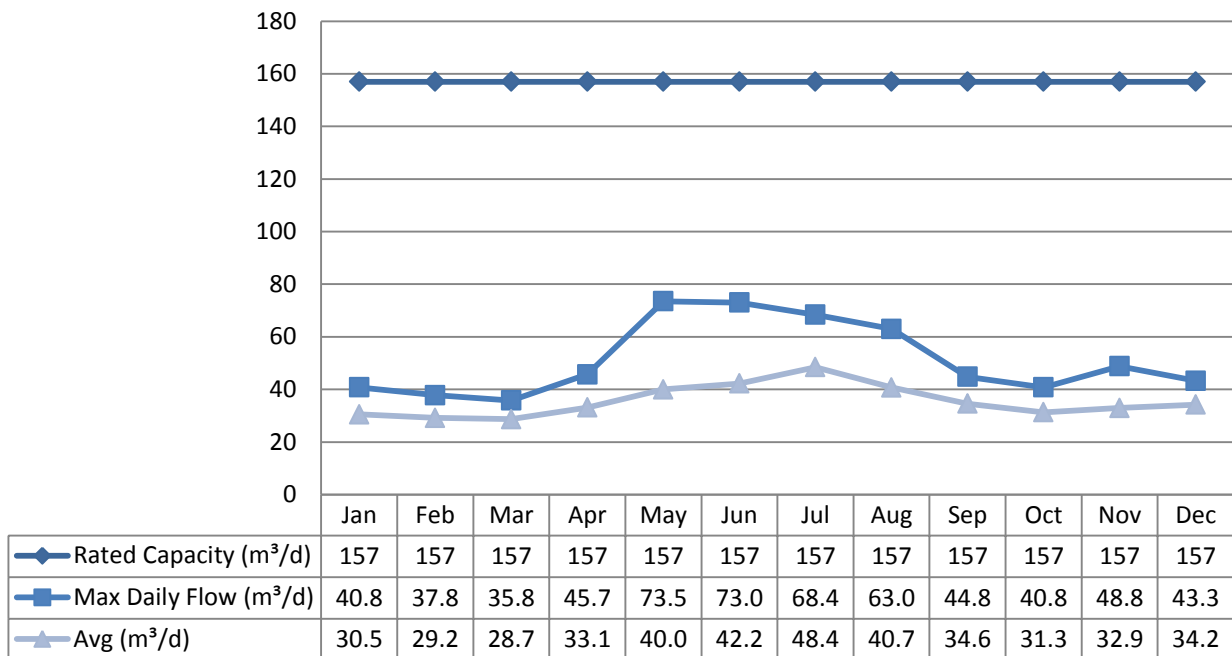
Note: The significant spike in April was due to scheduled Flow Meter calibration.

Treated Water Flows

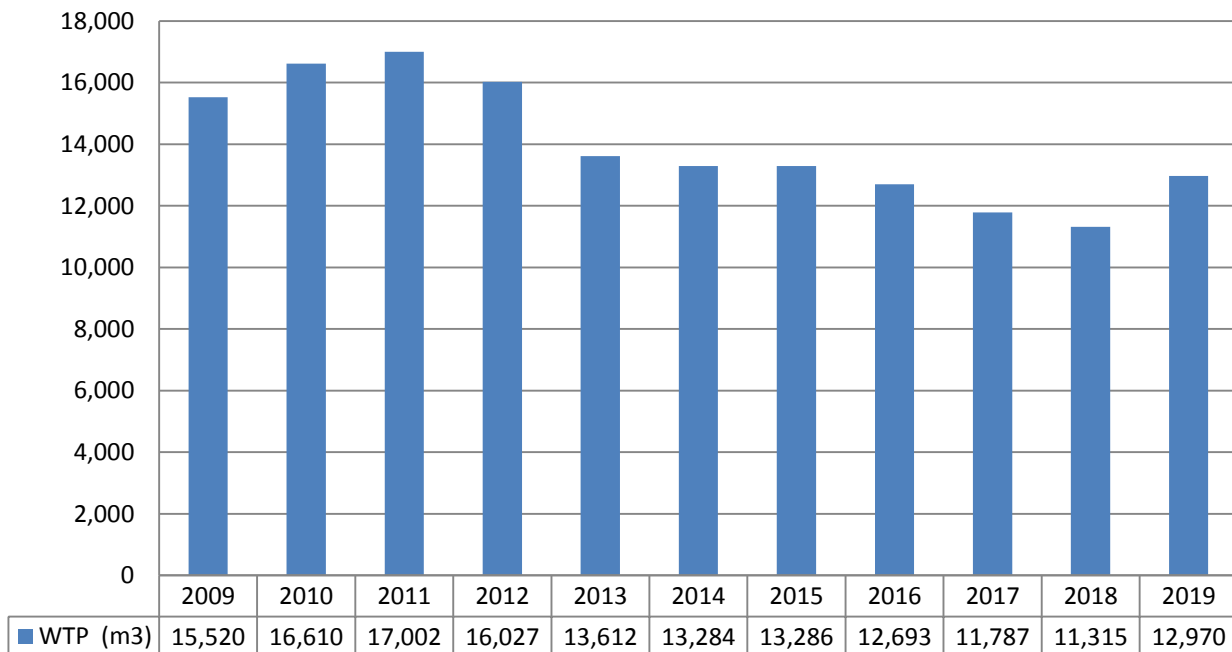
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows – Woods of Manilla II

Rated Capacity - MDWL

Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary**Microbiological Testing**

Location	No. of Samples Collected	Range of E.coli Results MIN	Range of E.coli Results MAX	Range of Total Coliform Results MIN	Range of Total Coliform Results MAX	Range of HPC Results MIN	Range of HPC Results MAX
Raw Well 1	0						
Raw Well 2	29	0	0	0	0		
Treated	2	0	0	0	0		
Distribution	53	0	0	0	0	0	2000

Note: Woods of Manilla I was offline during the reporting year.

Operational Testing

Parameter	No. of Samples	Range of Results MIN	Range of Results MAX
Turbidity Well 1 (NTU)	0		
Turbidity Well 2 (NTU)	30	0.1	0.5
Chlorine	8760	0	4.8
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Woods of Manilla I was offline during the reporting year.

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested every five years as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03.
- MDL = Method Detection Limit

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Treated Water					
Antimony: Sb (ug/L)	2015/01/19	< 0.02	6.0	No	No
Arsenic: As (ug/L)	2015/01/19	< 0.2	10.0	No	No
Barium: Ba (ug/L)	2015/01/19	182.0	1000.0	No	No
Boron: B (ug/L)	2015/01/19	48.1	5000.0	No	No
Cadmium: Cd (ug/L)	2015/01/19	< 0.003	5.0	No	No
Chromium: Cr (ug/L)	2015/01/19	< 0.03	50.0	No	No
Mercury: Hg (ug/L)	2015/01/19	0.01	1.0	No	No
Selenium: Se (ug/L)	2015/01/19	< 1.0	50.0	No	No
Uranium: U (ug/L)	2015/01/19	0.006	20.0	No	No
Additional Inorganics					
Fluoride (mg/L)	2015/02/10	0.23	1.5	No	No
Nitrite (mg/L)	2019/01/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/04/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/07/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L)	2019/01/08	0.02	10.0	No	No
Nitrate (mg/L)	2019/04/08	0.01	10.0	No	No
Nitrate (mg/L)	2019/07/08	0.02	10.0	No	No
Nitrate (mg/L)	2019/10/07	0.02	10.0	No	No
Sodium: Na (mg/L)	2020/01/07	17.2	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	Number of Sampling Points	Number of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	Number of Exceedances
Alkalinity (mg/L)	2	2	161	168	N/A	N/A
pH	2	2	7.77	8.11	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested every five years as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances (MAC)	Number of Exceedances (1/2 MAC)
Treated Water					
Alachlor (ug/L)	2015/01/19	< 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L)	2015/01/19	< 0.01	5.00	No	No
Azinphos-methyl (ug/L)	2015/01/19	< 0.02	20.00	No	No
Benzene (ug/L)	2015/01/19	< 0.32	1.00	No	No
Benzo(a)pyrene (ug/L)	2015/01/19	< 0.004	0.01	No	No
Bromoxynil (ug/L)	2015/01/19	< 0.33	5.00	No	No
Carbaryl (ug/L)	2015/01/19	< 0.01	90.00	No	No
Carbofuran (ug/L)	2015/01/19	< 0.01	90.00	No	No
Carbon Tetrachloride (ug/L)	2015/01/19	< 0.16	2.00	No	No
Chlorpyrifos (ug/L)	2015/01/19	< 0.02	90.00	No	No
Diazinon (ug/L)	2015/01/19	< 0.02	20.00	No	No
Dicamba (ug/L)	2015/01/19	< 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L)	2015/01/19	< 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L)	2015/01/19	< 0.36	5.00	No	No
1,2-Dichloroethane (ug/L)	2015/01/19	< 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L)	2015/01/19	< 0.33	14.00	No	No
Dichloromethane	2015/01/19	< 0.35	50.00	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances (MAC)	Number of Exceedances (1/2 MAC)
(Methylene Chloride) (ug/L)					
2,4-Dichlorophenol (ug/L)	2015/01/19	< 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)	2015/01/19	< 0.19	100.00	No	No
Diclofop-methyl (ug/L)	2015/01/19	< 0.4	9.00	No	No
Dimethoate (ug/L)	2015/01/19	< 0.03	20.00	No	No
Diquat (ug/L)	2015/01/19	< 1.0	70.00	No	No
Diuron (ug/L)	2015/01/19	< 0.03	150.00	No	No
Glyphosate (ug/L)	2015/01/19	< 1.0	280.00	No	No
Malathion (ug/L)	2015/01/19	< 0.02	190.00	No	No
Metolachlor (ug/L)	2015/01/19	< 0.01	50.00	No	No
Metribuzin (ug/L)	2015/01/19	< 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)	2015/01/19	< 0.3	80.00	No	No
Paraquat (ug/L)	2015/01/19	< 1.0	10.00	No	No
PCB (ug/L)	2015/01/19	< 0.04	3.00	No	No
Pentachlorophenol (ug/L)	2015/01/19	< 0.15	60.00	No	No
Phorate (ug/L)	2015/01/19	< 0.01	2.00	No	No
Picloram (ug/L)	2015/01/19	< 1.0	190.00	No	No
Prometryne (ug/L)	2015/01/19	< 0.03	1.00	No	No
Simazine (ug/L)	2015/01/19	< 0.01	10.00	No	No
Terbufos (ug/L)	2015/01/19	< 0.01	1.00	No	No
Tetrachloroethylene (ug/L)	2015/01/19	< 0.35	10.00	No	No
2,3,4,6- Tetrachlorophenol (ug/L)	2015/01/19	< 0.2	100.00	No	No
Triallate (ug/L)	2015/01/19	< 0.01	230.00	No	No
Trichloroethylene (ug/L)	2015/01/19	< 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L)	2015/01/19	< 0.25	5.00	No	No
Trifluralin (ug/L)	2015/01/19	< 0.02	45.00	No	No
Vinyl Chloride (ug/L)	2015/01/19	< 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average	2019	13.0	100.00	No	No
HAA Total (ug/L) Annual Average	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03.

MDL = Method Detection Limit

Additional Legislated Samples

There was no additional sampling required.

Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
627973	Highlift and VFD installation project

Appendix A

WTRS Data and Submission Confirmation

Water Taking Data submitted successfully.
Confirmation:
<p>Thank you for submitting your water taking data online.</p> <p>Permit Number: 2300-AQHK4Y Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES. Received on: Feb 5, 2020 1:06 PM</p> <p>This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.</p>

Manorview Drinking Water System

Waterworks # 260001864

System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca.) Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 260001864

Drinking Water System Name: Manorview DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	Jun. 26, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The supply for the DWS comes from two (2) groundwater wells that are designated as GUDI (Groundwater Under the Direct Influence of Surface Water).

Treatment

The treatment system consists of the following:

- a sodium hypochlorite disinfection system
- cartridge filtration
- two (2) UV reactors
- underground clearwell
- hydropneumatic tank

- high lift pumping system
- on-line monitoring of chlorine
- stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents identified during this reporting period.

Non-Compliance

There were no non-compliances identified during this reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during this reporting period.

Flows

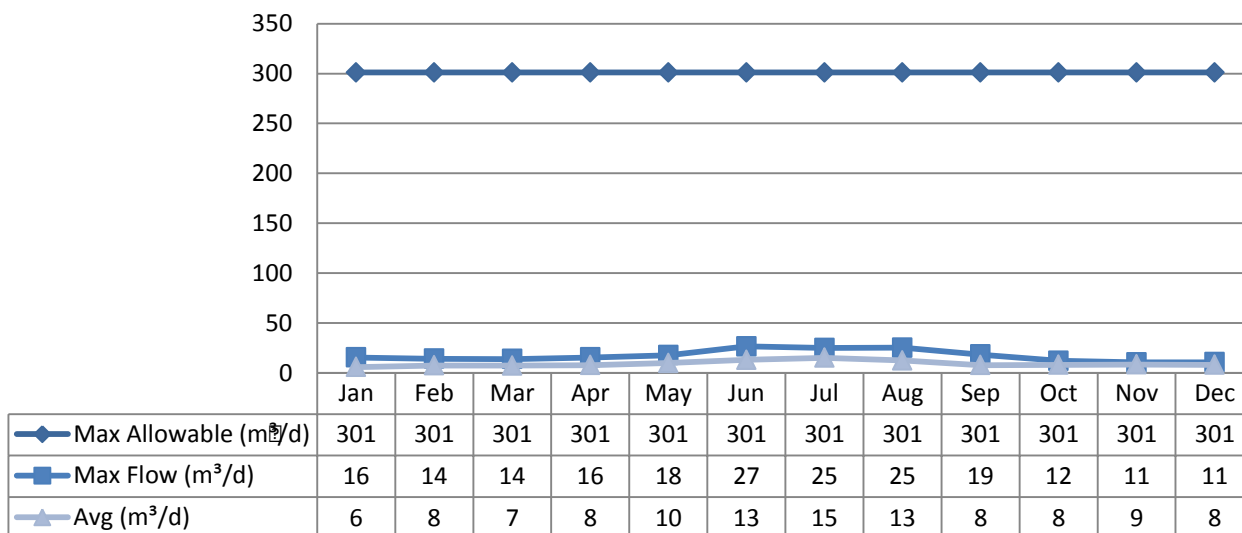
The Manorview Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

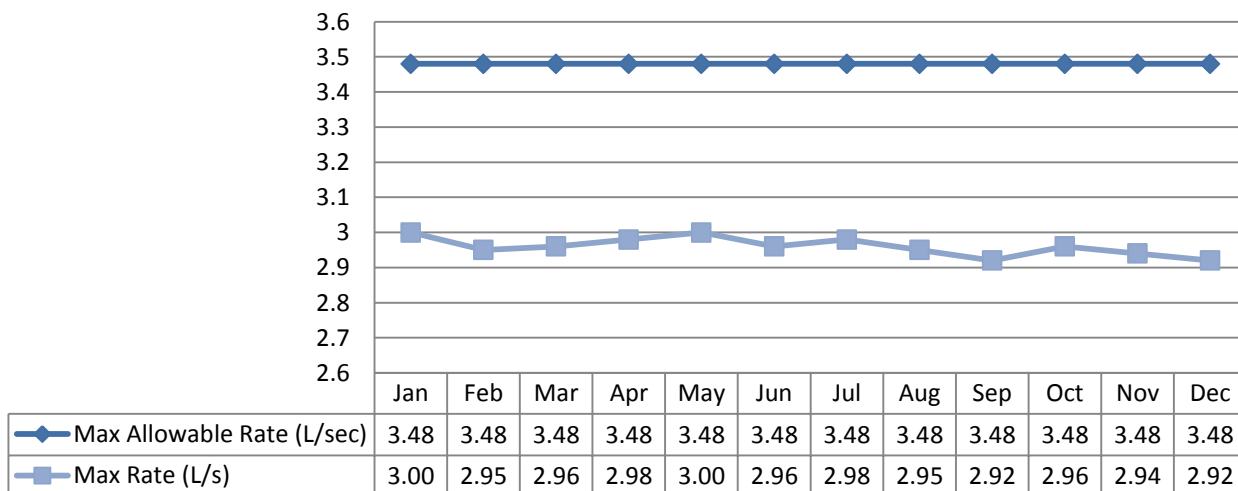
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permits #6774-7JCKC8 and #1163-AYRJ36. The confirmation that the data was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1

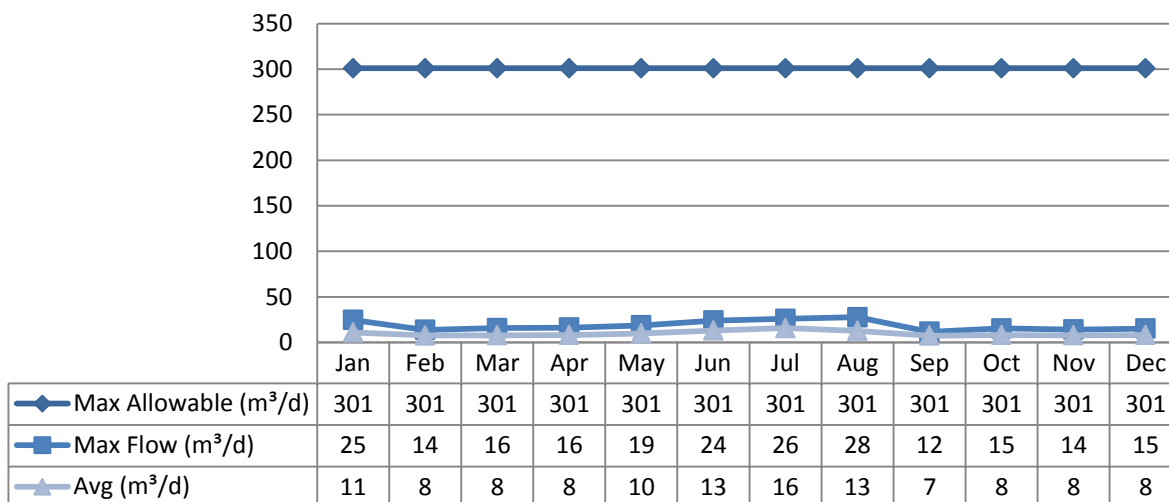
Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #1

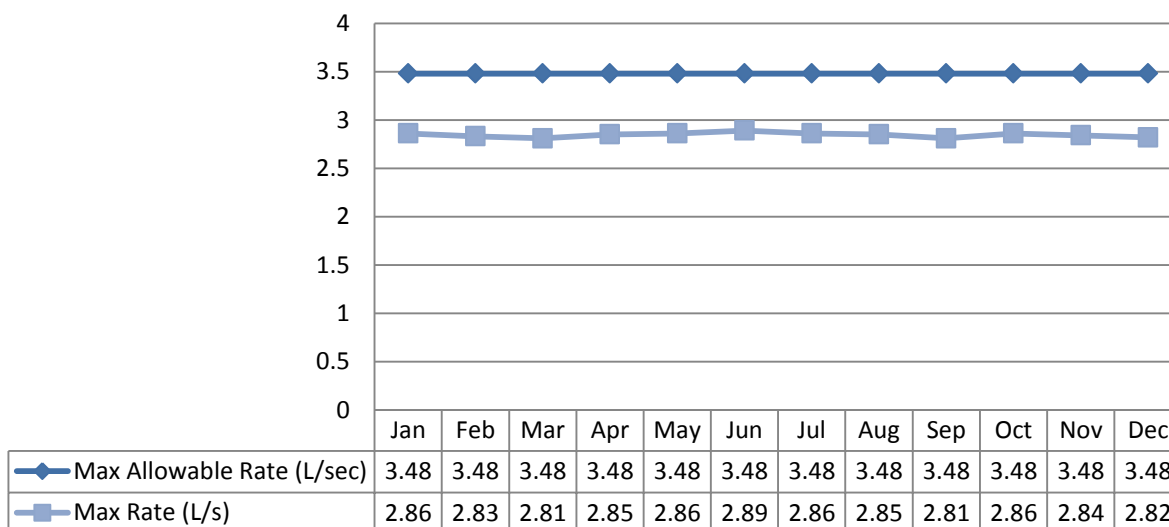


Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #2

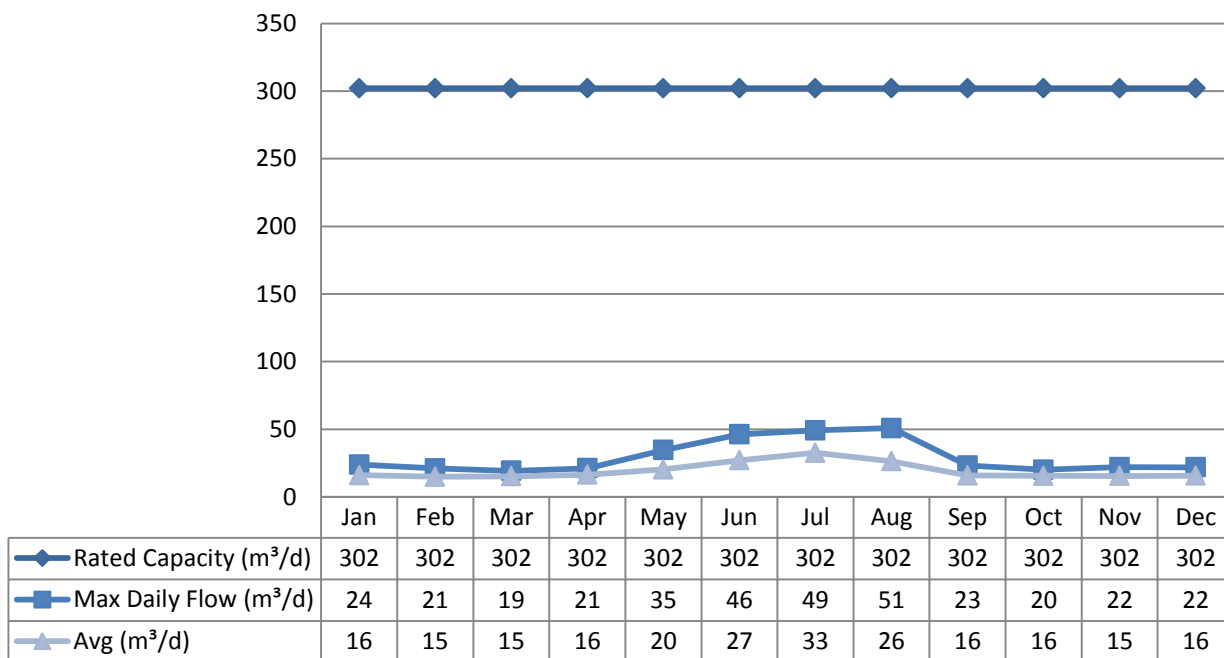


Treated Water Flows

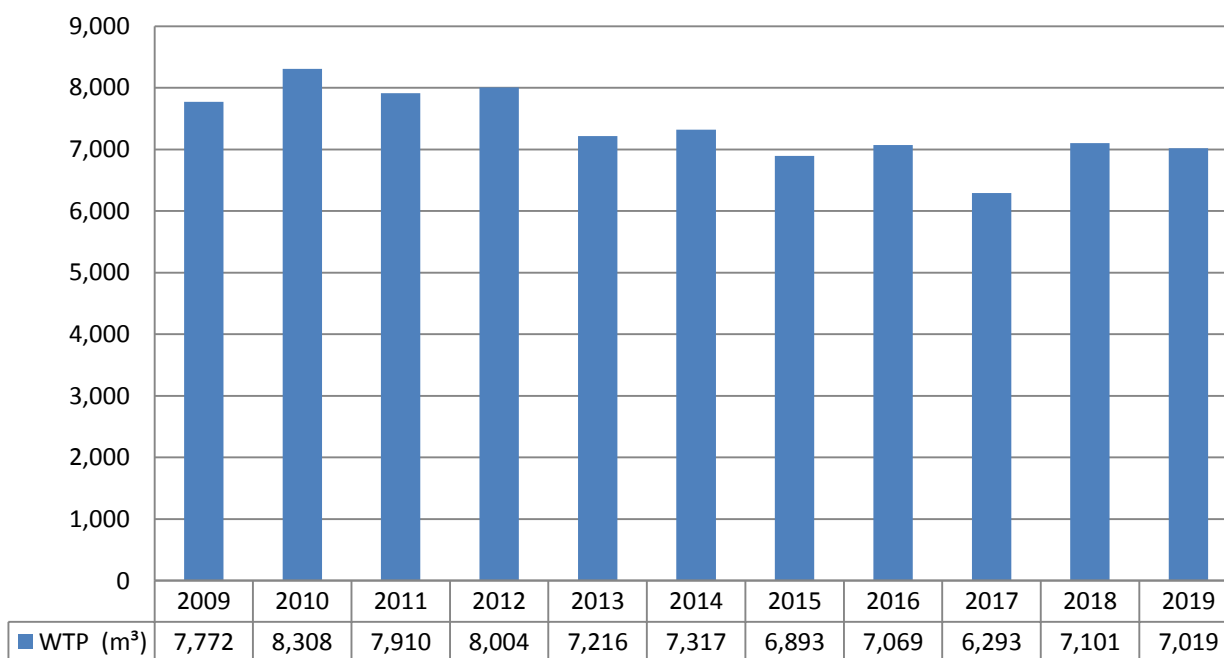
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	27	0	0	0	0		
Raw Well 2	27	0	0	0	0		
Treated	2	0	0	0	0	1	1
Distribution	51	0	0	0	0	0	3

Operational Testing

Parameter	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Well 1 (NTU)	12	0.11	0.49
Turbidity Well 2 (NTU)	12	0.09	0.42
Turbidity – Filter (NTU)	8760	0	2
Chlorine	8760	0.44	1.63
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium, Fluoride and metals are required to be tested every five years. Nitrate and Nitrite are tested quarterly as required under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Method Detection Limit

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Results	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Antimony: Sb (ug/L) - TW	2015/01/05	< 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2015/01/05	0.5	10.0	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Results	MAC	No. of Exceedances MAC	No. of Exceedances $\frac{1}{2}$ MAC
Barium: Ba (ug/L) - TW	2015/01/05	68.1	1000.0	No	No
Boron: B (ug/L) - TW	2015/01/05	7.3	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2015/01/05	< 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2015/01/05	0.26	50.0	No	No
Mercury: Hg (ug/L) - TW	2015/01/05	< 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2015/01/05	< 1.0	50.0	No	No
Uranium: U (ug/L) - TW	2015/01/05	0.509	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2015/01/05	0.06	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.081	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.072	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.073	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.08	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/07	4.64	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Parameters (Distribution System)	No. of Sampling Points	No. of Samples	Range of Results	MAC	Exceedances (MIN)	Exceedances (MAX)
Alkalinity (mg/L)	2	2	181	190	N/A	N/A
pH	2	2	7.93	8.07	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (1/2 MAC)
Alachlor (ug/L) - TW	2015/01/05	< 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2015/01/05	< 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2015/01/05	< 0.02	20.00	No	No
Benzene (ug/L) - TW	2015/01/05	< 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2015/01/05	< 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2015/01/05	< 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2015/01/05	< 0.01	90.00	No	No
Carbofuran (ug/L) - TW	2015/01/05	< 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2015/01/05	< 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2015/01/05	< 0.02	90.00	No	No
Diazinon (ug/L) - TW	2015/01/05	< 0.02	20.00	No	No
Dicamba (ug/L) - TW	2015/01/05	< 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2015/01/05	< 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2015/01/05	< 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2015/01/05	< 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2015/01/05	< 0.33	14.00	No	No
Dichloromethane	2015/01/05	< 0.35	50.00	No	No

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (1/2 MAC)
(Methylene Chloride) (ug/L) - TW					
2,4-Dichlorophenol (ug/L) - TW	2015/01/05	< 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2015/01/05	< 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2015/01/05	< 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2015/01/05	< 0.03	20.00	No	No
Diquat (ug/L) - TW	2015/01/05	< 1.0	70.00	No	No
Diuron (ug/L) - TW	2015/01/05	< 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2015/01/05	< 1.0	280.00	No	No
Malathion (ug/L) - TW	2015/01/05	< 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	N/A				
Metolachlor (ug/L) - TW	2015/01/05	< 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2015/01/05	< 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2015/01/05	< 0.3	80.00	No	No
Paraquat (ug/L) - TW	2015/01/05	< 1.0	10.00	No	No
PCB (ug/L) - TW	2015/01/05	< 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2015/01/05	< 0.15	60.00	No	No
Phorate (ug/L) - TW	2015/01/05	< 0.01	2.00	No	No
Picloram (ug/L) - TW	2015/01/05	< 1.0	190.00	No	No
Prometryne (ug/L) - TW	2015/01/05	< 0.03	1.00	No	No
Simazine (ug/L) - TW	2015/01/05	< 0.01	10.00	No	No
Terbufos (ug/L) - TW	2015/01/05	< 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2015/01/05	< 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2015/01/05	< 0.14	100.00	No	No
Triallate (ug/L) - TW	2015/01/05	< 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2015/01/05	< 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2015/01/05	< 0.25	5.00	No	No

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (1/2 MAC)
Trifluralin (ug/L) - TW	2015/01/05	< 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2015/01/05	< 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	6.7	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03.

MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.


Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1299871	Repair Discharge End Motor HLP #1

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

Water Taking Data submitted successfully.


Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 1163-AYRJ36
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 1:30 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Mariposa Estates Drinking Water System

Waterworks # 220012322
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O.Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at the [City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca). Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220012322

Drinking Water System Name: Mariposa Estates DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	August 7, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Non Compliances	2	Sept 10, 2019	<ol style="list-style-type: none"> 1. Failed to sample and test for coliform bacteria, which is required once disinfection is complete as per the AWWA standards 2. Failed to record equipment that was taken out of service or ceased to operate during the shift and any action taken to maintain or repair equipment during the shift
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from two (2) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- two (2) nitrate removal systems, with softener
- sodium hypochlorite disinfection system
- clearwell/contact storage tank
- two (2) supply pumps and on-line monitoring equipment
- stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance

Adverse Water Quality Incidents

There were no adverse water quality incidents during the reporting period.

Non-Compliance(s)

There were no non-compliance issues identified during the reporting period.

Non-Compliance(s) Identified in a Ministry Inspection:

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. dates)	Corrective Action	Status
Safe Drinking Water Act, Drinking Water Works Permit, Schedule B, Condition 2.3	Failed to sample and test for coliform bacteria, which is required once disinfection is complete as per the AWWA Standards	March 27, 2019	Operator training on Drinking Water Works Permit, Schedule B, Condition 2.3 and AWWA Standard requirements.	Complete

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. dates)	Corrective Action	Status
O. Reg. 128/04, Section 27	Failed to record equipment that was taken out of service or ceased to operate during the shift and any action taken to maintain or repair equipment during the shift	March 27, 2019	Operator e-learning course on the Facility Logbook requirements.	Complete

Flows

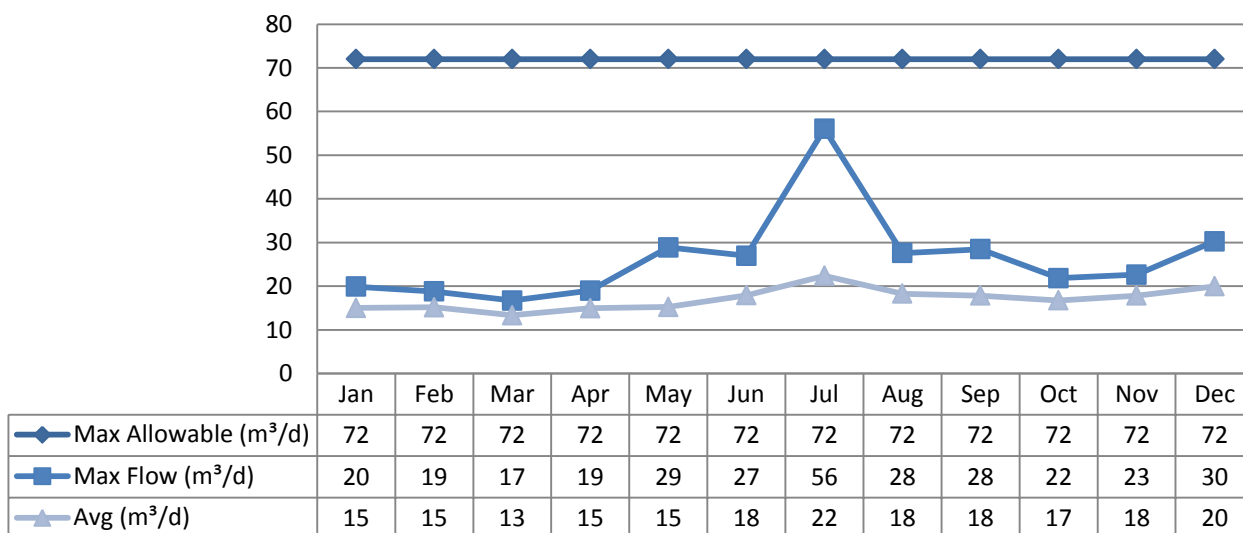
The Mariposa Estates Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #8473-AZUGSX. The confirmation of the data that was submitted is attached in Appendix A.

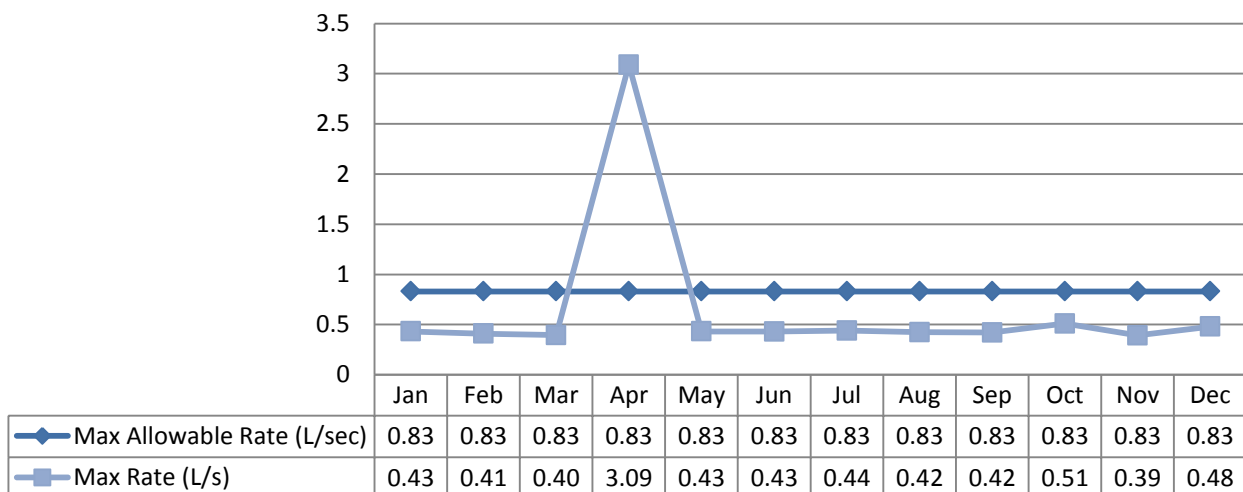
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1



Monthly Rated Flows (L/s)

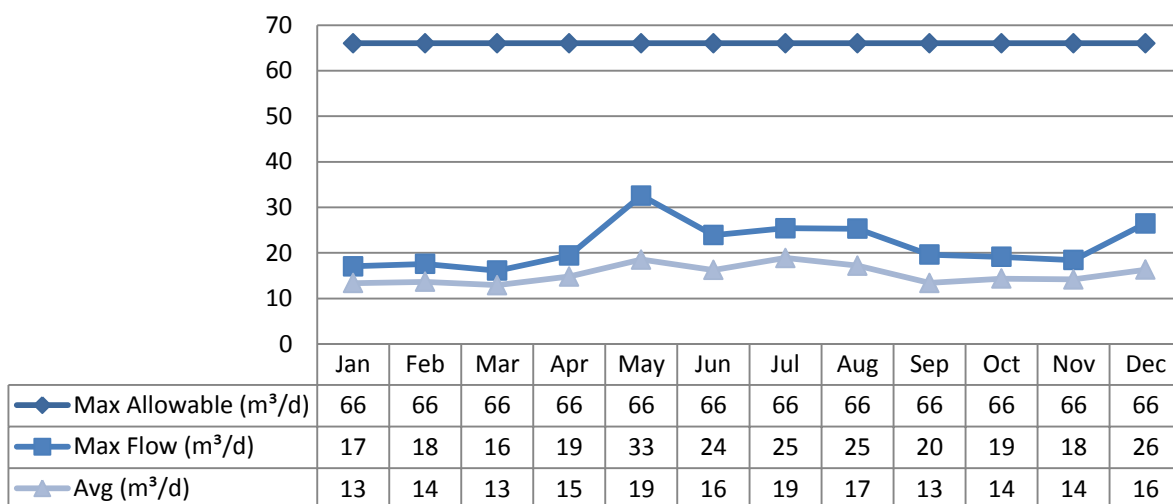
Max allowable rate – PTTW – Well #1



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in April was due to scheduled Flow Meter calibration.

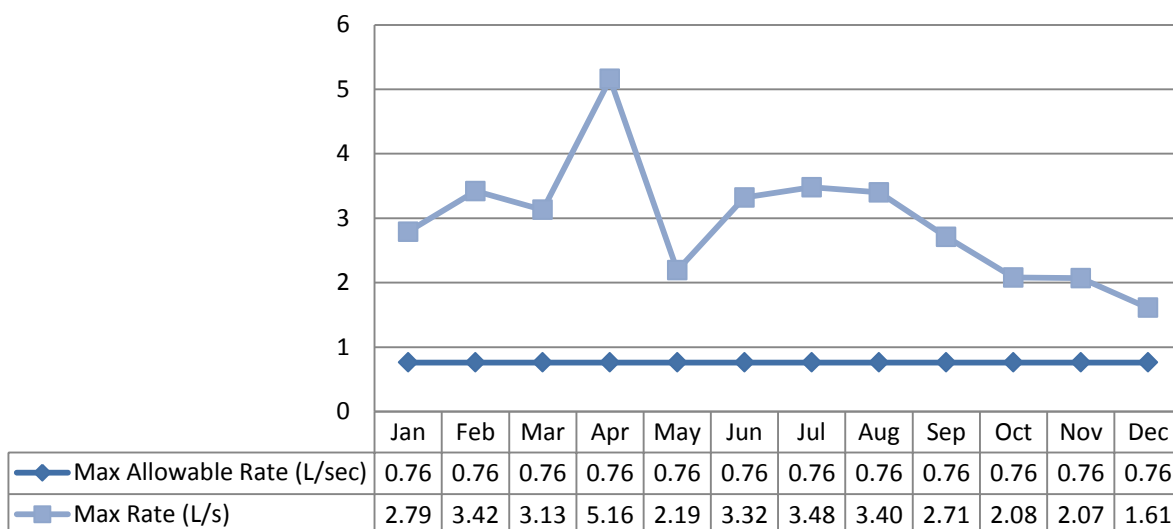
Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2



Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #2



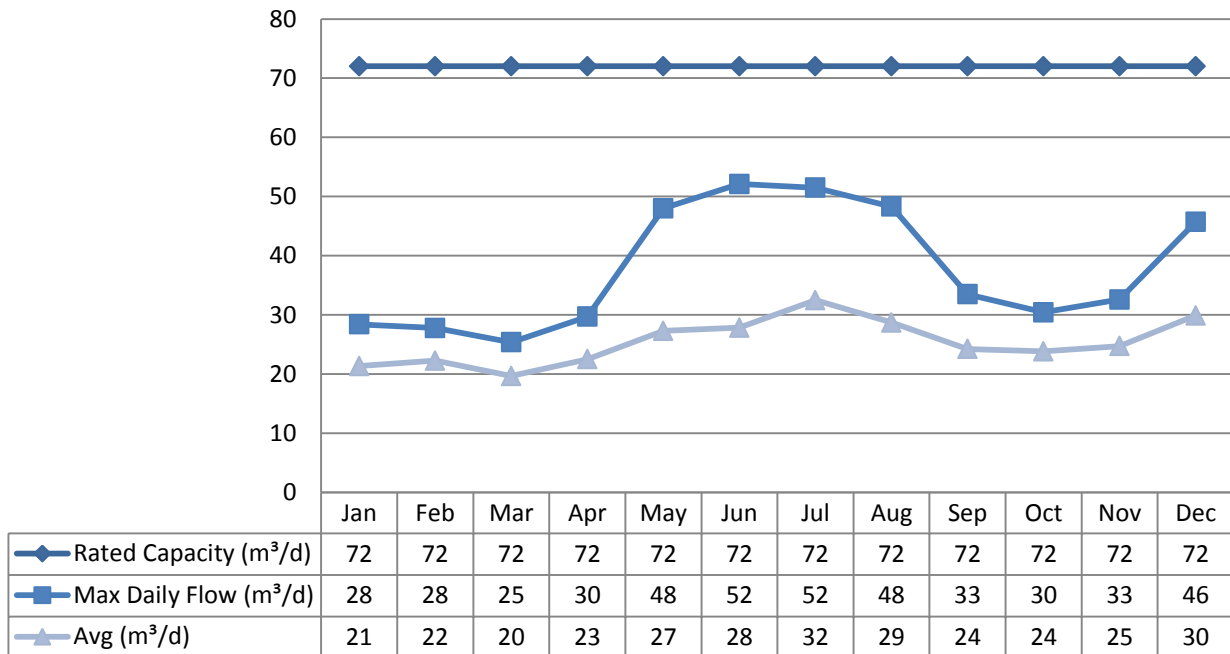
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The spikes are instantaneous and are due to pump start-up. The significant spike in April was due to scheduled Flow Meter calibration.

Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

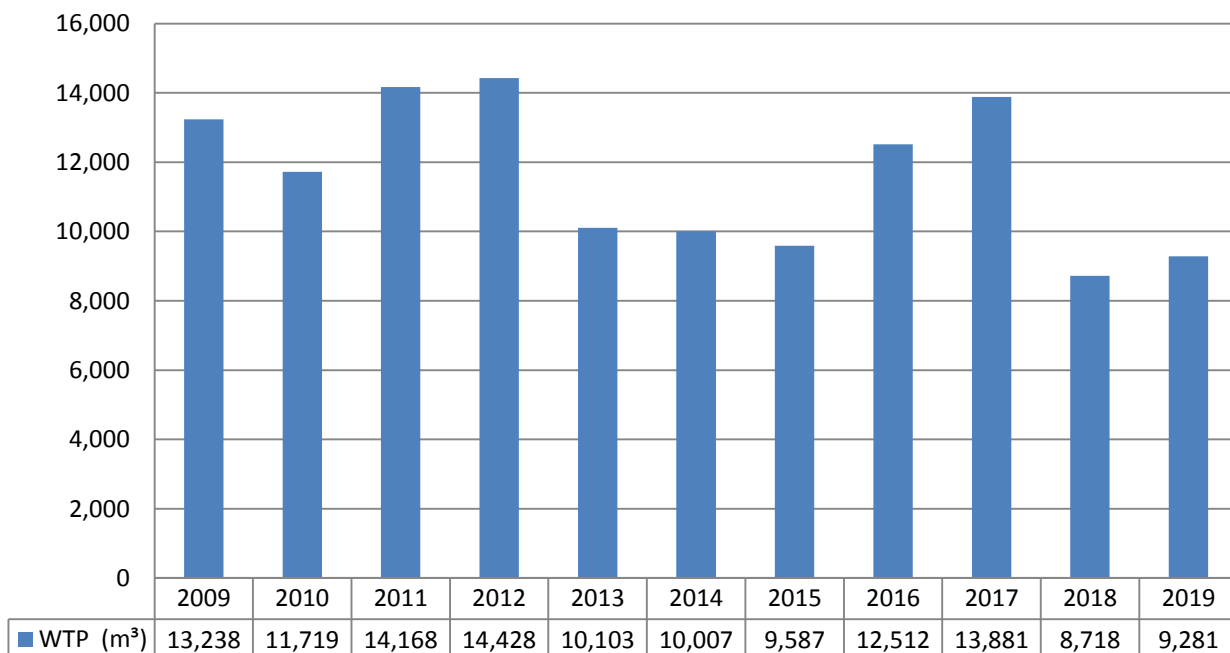
Monthly Rated Flows

Rated Capacity – MDWL



Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Source	No. of Samples	Range of E.coli Results	Range of E.coli Results	Range of Total Coliform Results	Range of Total Coliform Results	Range of HPC Results	Range of HPC Results
		Min	Max	Min	Max	Min	Max
Raw Well 1	30	0	0	0	22		
Raw Well 2	28	0	0	0	52		
Treated	N/A						
Distribution	52	0	0	0	0	0	1

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 1 (NTU)	13	0.21	0.81
Turbidity Well 2 (NTU)	13	0.17	0.93
Turbidity – TW (NTU)	8760	0	2
Chlorine	8760	0	1.97
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O. Reg. 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Parameter	Sample Date	Sample Result	MAC	Exceedance MAC	Exceedance ½ MAC
Antimony: Sb (ug/L) - TW	2017/01/04	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2017/01/04	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2017/01/04	35.6	1000.0	No	No

Parameter	Sample Date	Sample Result	MAC	Exceedance MAC	Exceedance ½ MAC
Boron: B (ug/L) - TW	2017/01/04	14.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2017/01/04	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2017/01/04	0.66	50.0	No	No
Mercury: Hg (ug/L) - TW	2017/01/04	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2017/01/04	0.11	50.0	No	No
Uranium: U (ug/L) - TW	2017/01/04	0.482	20.0	No	No
Additional Organics					
Fluoride (mg/L) - TW	2015/01/05	<0.06	1.5	No	No
Nitrite (mg/L) - TW	2019/03/05	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/06/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/09/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/12/02	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/03/05	2.76	10.0	No	No
Nitrate (mg/L) - TW	2019/06/03	2.84	10.0	No	No
Nitrate (mg/L) - TW	2019/09/03	2.75	10.0	No	No
Nitrate (mg/L) - TW	2019/12/02	5.26	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/13	32.3	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results MIN	Range of Results MAX	MAC (Ug/L)	Number of Exceedances
Alkalinity (mg/L)	2	2	288	306	N/A	N/A
pH	2	2	7.32	7.48	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	No. of Exceedances
Treated Water				MAC	½ MAC
Alachlor (ug/L) - TW	2017/01/04	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2017/01/04	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2017/01/04	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2017/01/04	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2017/01/04	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) – TW	2017/01/04	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2017/01/04	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2017/01/04	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2017/01/04	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2017/01/04	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2017/01/04	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2017/01/04	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2017/01/04	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2017/01/04	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2017/01/04	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2017/01/04	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2017/01/04	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2017/01/04	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2017/01/04	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2017/01/04	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2017/01/04	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2017/01/04	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2017/01/04	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2017/01/04	<MDL 1.0	280.00	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	No. of Exceedances
Treated Water				MAC	½ MAC
Malathion (ug/L) - TW	2017/01/04	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2017/01/04	<MDL 0.012	100.00	No	No
Metolachlor (ug/L) - TW	2017/01/04	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2017/01/04	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2017/01/04	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2017/01/04	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2017/01/04	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2017/01/04	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2017/01/04	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2017/01/04	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2017/01/04	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2017/01/04	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2017/01/04	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2017/01/04	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2017/01/04	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2017/01/04	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2017/01/04	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2017/01/04	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2017/01/04	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2017/01/04	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	14.75	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg.169/03
 MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.


Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
289554	Highlift Pump Project

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

Water Taking Data submitted successfully.


Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 8473-AZUGSX
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 1:48 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

[Print Confirmation](#) [Return to Main Page](#)

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version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Norland Drinking Water System

Waterworks # 250001910
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st 2019

Issued: February 13, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 250001910

Drinking Water System Name: Norland DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	January 14, 2020	Announced-Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	1	October 7, 2019	Low system pressure
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Norland Water Treatment Plant is supplied with surface water from the Gull River.

Treatment

The treatment system is a dual train conventional filtration package plant consisting of the following:

- In-line static mixer
- Coagulant feed system with SternPac addition upstream of static mixer
- Two stage variable speed flocculators located in flocculation tanks
- Coagulant aid feed system with polymer added to flocculation tanks
- Two upflow clarifier units equipped with tube settlers
- Two dual media rapid gravity filters
- Sodium hypochlorite feed system for primary disinfection

- Dual celled chlorine contact tanks located beneath the plant
- Two highlift pump chambers housing four highlift pumps
- Sodium hypochlorite feed system for post chlorination
- Online analyzers to monitor both free treated chlorine and filter effluent turbidity
- Wastewater treatment system that consists of two backwash pumps and a settling tank that receives backwash wastewater and clarifier sludge
- SCADA computer control system
- Standby power generator

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Polyalumunium Chloride	Flocculation	FloChem
Polymer	Flocculation	Basf
Sodium hydroxide	pH adjustment	Not required in 2019

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
07-Oct-2019	148434	Distribution	Low pressure	Power issue caused high lift pump to lock out.	O. Reg. 170/03	Restored pressure, flushed system, sampled, replaced clearwell 1 level transducer

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified during the reporting period.

Flows

The Norland Drinking Water System is operating on average under half the rated capacity.

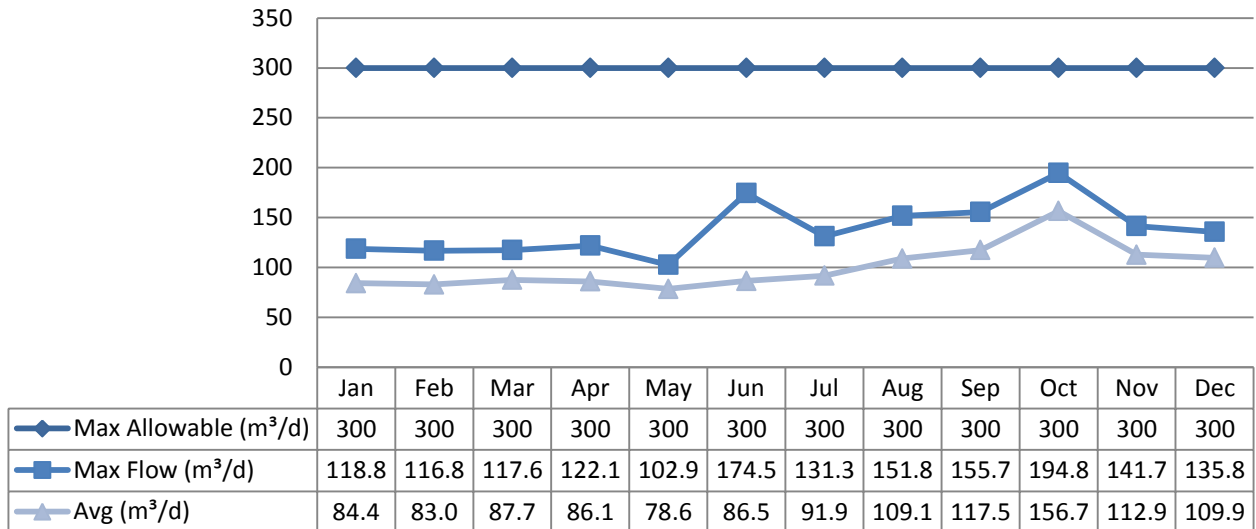
Raw Water Flows

The Raw Water takings are regulated by the Permit to Take Water (PTTW). 2019 Raw Flow Data was submitted to the Ministry electronically under permit #6033-AQ5HFW. The

confirmation for the data that was submitted is attached in Appendix A.

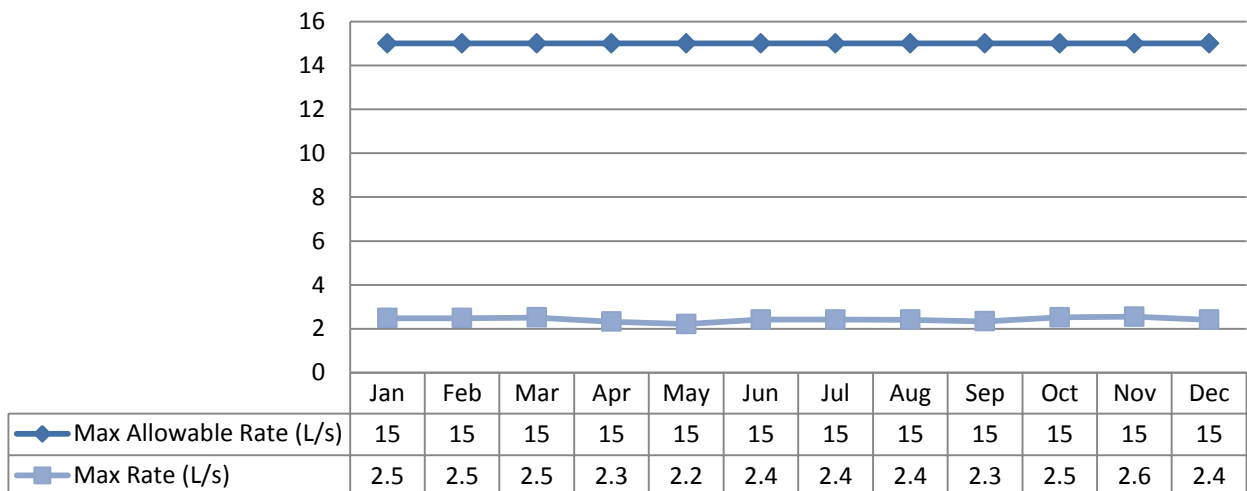
Total Monthly Flows (m³/d)

Max Allowable PTTW- Raw



Monthly Rated Flows (L/s)

Max allowable rate – PTTW- Raw

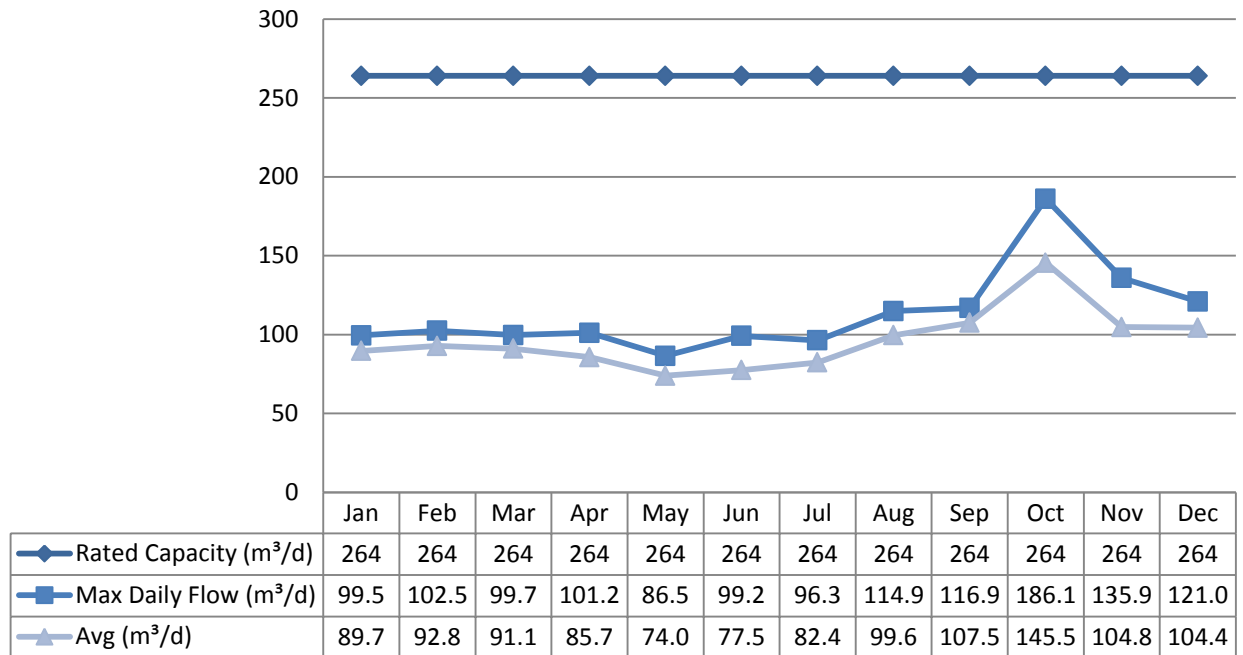


Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

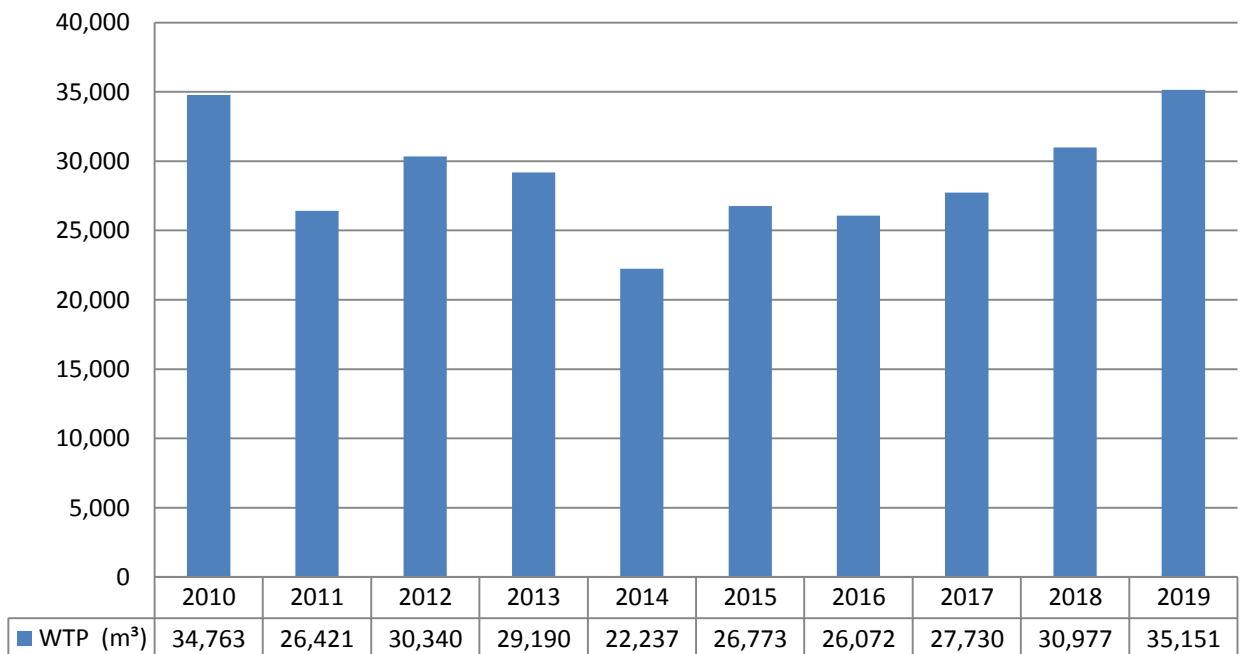
Monthly Rated Flows

Rated Capacity - MDWL



Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	No. of Samples Collected	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw	27	0	98	20	560			
Distribution	54	0	0	0	0	53	0	37

Operational Testing

Parameter	No. of Samples	Range of Results (MIN)	Range of Results (MAX)
Turbidity Filter 1 (NTU)	8760	0.00	1.99
Turbidity Filter 2 (NTU)	8760	0.00	1.66
Chlorine	8760	0.00	3.29
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium, Fluoride and the metals are required to be tested every 5 years while Nitrate and Nitrite are tested quarterly. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Sample Results	MAC	No. Of Exceedances MAC	No. of Exceedances MIN
Antimony: Sb (ug/L) - TW	2015/01/14	0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2015/01/14	< 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2015/01/14	17.9	1000.0	No	No
Boron: B (ug/L) - TW	2015/01/14	6.1	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2015/01/14	0.005	5.0	No	No
Chromium: Cr (ug/L) - TW	2015/01/14	0.1	50.0	No	No
Mercury: Hg (ug/L) - TW	2015/01/14	0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2015/01/14	< 1.0	50.0	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Results	MAC	No. Of Exceedances MAC	No. of Exceedances MIN
Uranium: U (ug/L) - TW	2015/01/14	< 0.002	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2015/01/14	< 0.06	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/04	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.103	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.130	10.0	No	No
Nitrate (mg/L) - TW	2019/07/04	0.048	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.007	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/14	7.77	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O. Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	Number of Sampling Points	Number of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	Number of Exceedances
Alkalinity (mg/L)	2	2	12	17	N/A	N/A
pH	2	2	6.9	7.4	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Alachlor (ug/L) - TW	2015/01/14	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2015/01/14	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2015/01/14	<MDL 0.02	20.00	No	No

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Benzene (ug/L) - TW	2015/01/14	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2015/01/14	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2015/01/14	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2015/01/14	<MDL 0.01	90.00	No	No
Carbofuran (ug/L) - TW	2015/01/14	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2015/01/14	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2015/01/14	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2015/01/14	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2015/01/14	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2015/01/14	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2015/01/14	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2015/01/14	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2015/01/14	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2015/01/14	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2015/01/14	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2015/01/14	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2015/01/14	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2015/01/14	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2015/01/14	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2015/01/14	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2015/01/14	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2015/01/14	<MDL 0.02	190.00	No	No
Metolachlor (ug/L) - TW	2015/01/14	<MDL 0.01	80.00	No	No
Metribuzin (ug/L) - TW	2015/01/14	<MDL 0.02	80.00	No	No

Parameters (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2015/01/14	<MDL 0.3	10.00	No	No
Paraquat (ug/L) - TW	2015/01/14	<MDL 1.0	3.00	No	No
PCB (ug/L) - TW	2015/01/14	<MDL 0.04	60.00	No	No
Pentachlorophenol (ug/L) - TW	2015/01/14	<MDL 0.15	2.00	No	No
Phorate (ug/L) - TW	2015/01/14	<MDL 0.01	190.00	No	No
Picloram (ug/L) - TW	2015/01/14	<MDL 1.0	1.00	No	No
Prometryne (ug/L) - TW	2015/01/14	<MDL 0.03	10.00	No	No
Simazine (ug/L) - TW	2015/01/14	<MDL 0.01	1.00	No	No
Terbufos (ug/L) - TW	2015/01/14	<MDL 0.01	10.00	No	No
Tetrachloroethylene (ug/L) - TW	2015/01/14	<MDL 0.35	100.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2015/01/14	<MDL 0.2	230.00	No	No
Triallate (ug/L) - TW	2015/01/14	<MDL 0.01	5.00	No	No
Trichloroethylene (ug/L) - TW	2015/01/14	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2015/01/14	<MDL 0.25	100.00	No	No
Trifluralin (ug/L) - TW	2015/01/14	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2015/01/14	<MDL 0.17	1.00	No	No
Distribution Water					No
Trihalomethane: Total (ug/L) Annual Average - DW	2019	39	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	55	N/A	N/A	Yes

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples

Municipal Drinking Water Licence	Date Collected	Suspended Solids (mg/L)	Free Chlorine Residual (mg/L)
Settling Tank Discharge Point	January	17	0.02
	February	6	0.01
	March	3	0.02
	April	7	0.02
	May	3	0.01
	June	19	0.01
	July	20	0.02
	August	36	0.02
	September	25	0.01
	October	32	0.01
	November	18	0.02
	December	30	0.02
	Annual Average	18	


Note: The Suspended Solids annual average limit is 25 mg/L.

Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1102310	Replacement Coagulant Feed Pumps
1102312	Lowlift Pump Replacement LLP-01
1137352	Upgrade to SPack 32 Outpost
1218636	Dehumidifier Repair
1257607	Rebuild Kits for Air Relief Valve
1420421	Low Lift Repair
1462879	DSC Battery Replacement
1463445	Level Meter LIT 310 Failed and Replaced
1465405	Water Distribution Leak Repaired
767905	Clear well inspected and cleaned

Appendix A

WTRS Data Submission Confirmation



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Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 6033-AQ5HFW
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 6, 2020 2:34 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Omemee Drinking Water System

Waterworks # 210002227
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O.Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at the [City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca). Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 210002227

Drinking Water System Name: Omemee DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	Sep. 18, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	1	Nov. 27, 2019	Raw water turbidity sampling not occurring monthly as per the regulation.
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from two (2) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- An underground clearwell
- Sodium hypochlorite disinfection system
- Iron sequestering system
- High lift pumps
- Hydropneumatic tanks
- Stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Sodium Silicate	Iron sequestering	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents identified during the reporting period.

Non-Compliance(s)

There were no non-compliances identified during the reporting period.

Non-Compliance(s) Identified in a Ministry Inspection:

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. dates)	Corrective Action	Status
O. Reg. 170/03 Schedule 6-1.1(3)	It was identified that raw water turbidity sampling from a groundwater source was not occurring monthly. The following are the sampling dates that were noted for Well No. 2 raw water turbidity samples and the number of days between the samples: Feb. 4 – Mar. 29 (53 days between samples), Mar. 29 – Apr. 1 (2 days between samples), Apr. 1 – May 16 (45 days between samples).	For the period of February 2019 to June 2019.	Additional training on O. Reg.170/03, Schedule 6. Update of facility sampling calendar to include specific checkbox for monthly raw turbidity sampling.	Complete

Flows

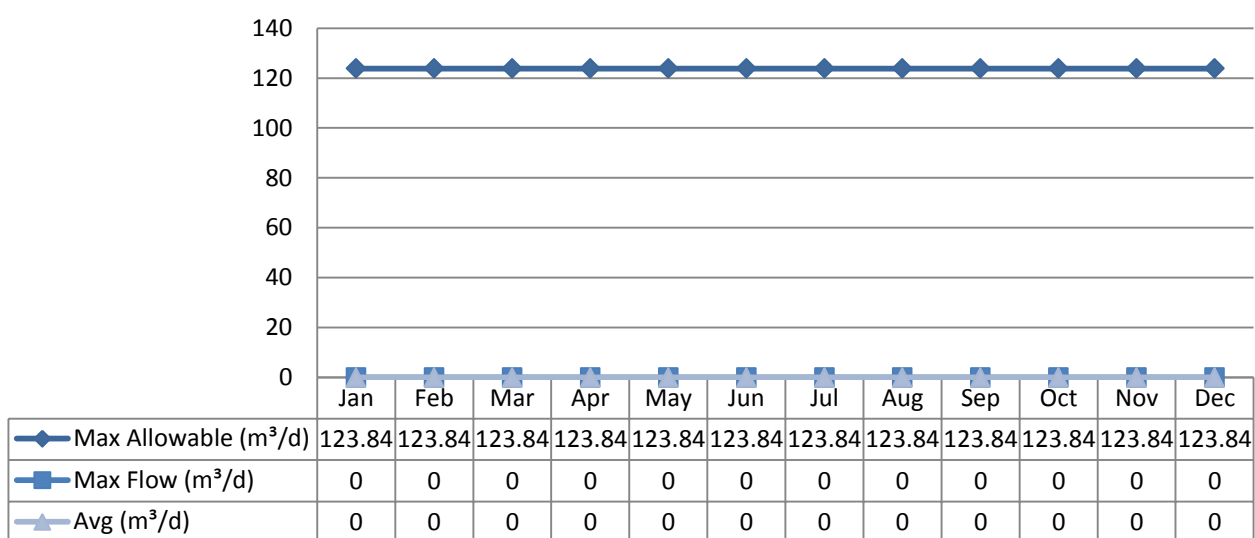
The Omamee Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

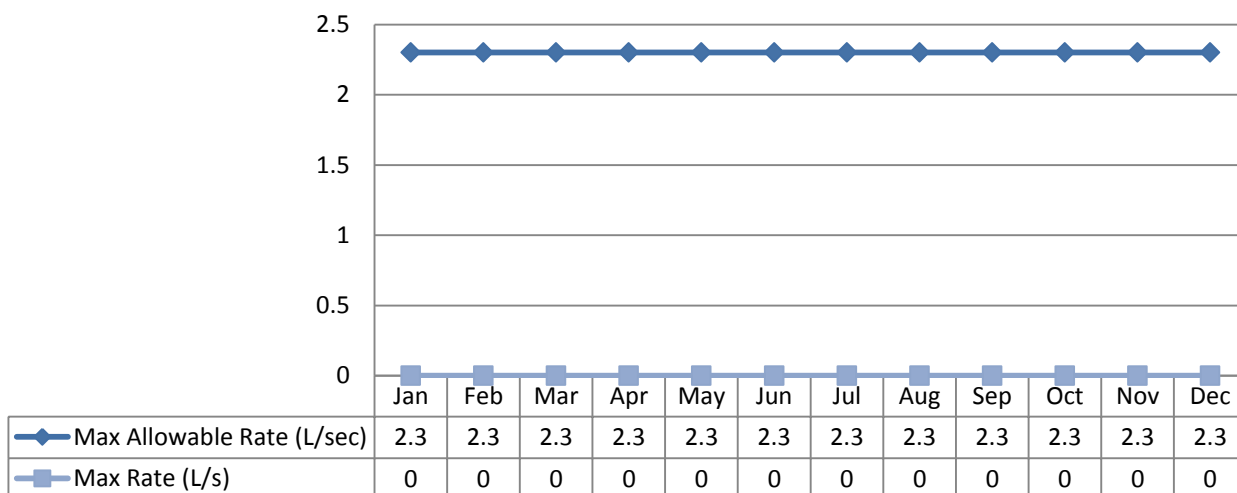
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #6634-B23PER. The confirmation of the data that was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1

**Monthly Rated Flows (L/s)**

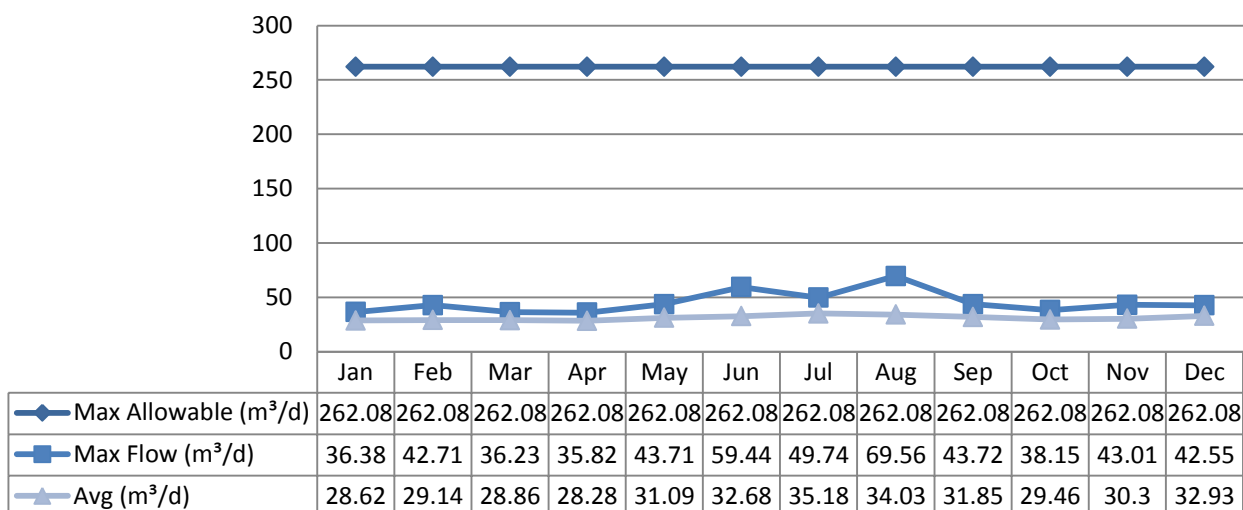
Max allowable rate – PTTW – Well #1



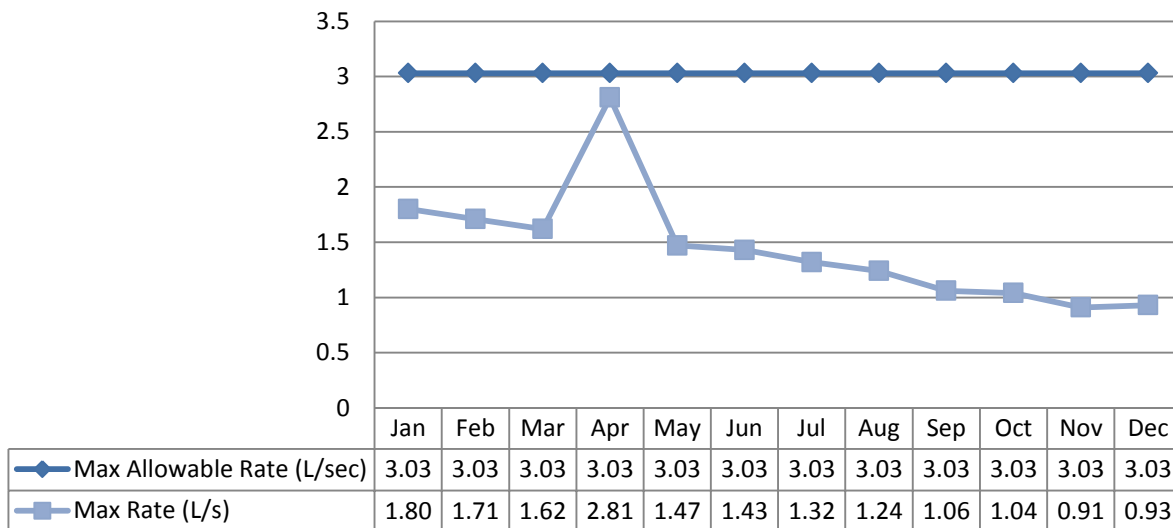
Note: Well #1 was not in production during the reporting period.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #2



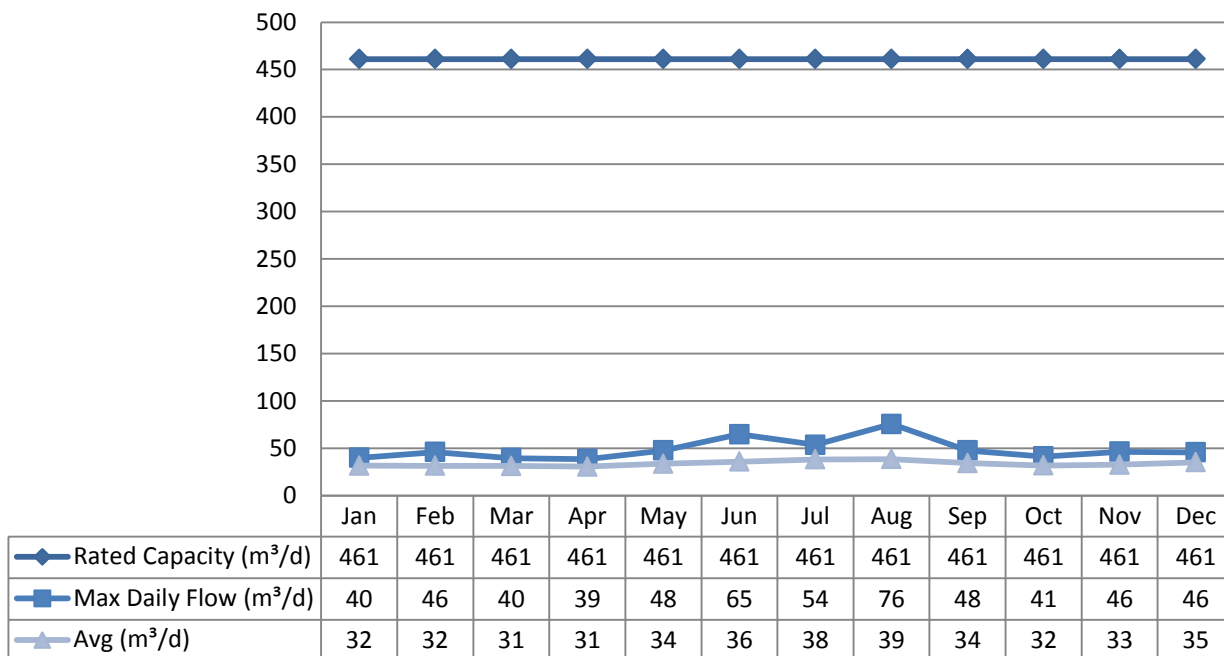
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in April was due to scheduled Flow meter calibration.

Treated Water Flows

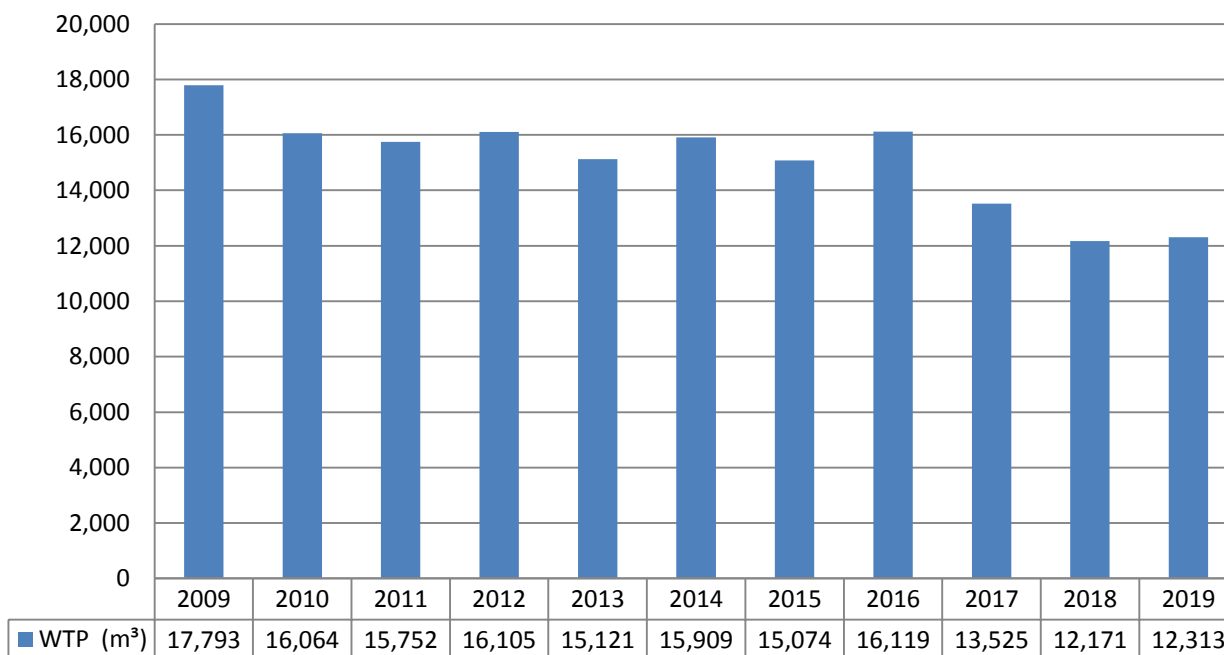
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Source	No. of Samples	Range of E.coli Results	Range of E.coli Results	Range of Total Coliform Results	Range of Total Coliform Results	Range of HPC Results	Range of HPC Results
		Min	Max	Min	Max	Min	Max
Raw Well 1	N/A						
Raw Well 2	28	0	0	0	0		
Treated	N/A						
Distribution	52	0	0	0	0	0	2

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 1 (NTU)	N/A		
Turbidity Well 2 (NTU)	12	0.01	0.39
Turbidity – TW (NTU)	8760	0.05	0.15
Chlorine	8760	0	3.25
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Well 1 was not in production during the reporting period.

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Method Detection Limit

Parameter	Sample Date	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2015/01/12	<0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2015/01/12	<0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2015/01/12	220.0	1000.0	No	No
Boron: B (ug/L) - TW	2015/01/12	22.9	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2015/01/12	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2015/01/12	<0.03	50.0	No	No
Mercury: Hg (ug/L) - TW	2015/01/12	0.02	1.0	No	No
Selenium: Se (ug/L) - TW	2015/01/12	<1.0	50.0	No	No
Uranium: U (ug/L) - TW	2015/01/12	0.014	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2015/01/12	0.12	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.007	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	<MDL 0.006	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.006	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	<MDL 0.006	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/07	23.0	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O. Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	2	2	196	200	N/A	N/A
pH	2	2	7.45	7.81	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Treated Water					
Alachlor (ug/L) - TW	2015/01/12	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2015/01/12	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2015/01/12	<MDL 0.02	20.00	No	No
Benzene (ug/L) - TW	2015/01/12	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2015/01/12	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2015/01/12	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2015/01/12	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2015/01/12	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2015/01/12	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2015/01/12	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2015/01/12	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2015/01/12	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2015/01/12	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2015/01/12	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2015/01/12	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2015/01/12	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2015/01/12	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2015/01/12	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2015/01/12	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2015/01/12	<MDL 0.4	9.00	No	No

Parameter	Sample Date	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Dimethoate (ug/L) - TW	2015/01/12	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2015/01/12	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2015/01/12	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2015/01/12	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2015/01/12	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	N/A				
Metolachlor (ug/L) - TW	2015/01/12	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2015/01/12	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2015/01/12	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2015/01/12	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2015/01/12	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2015/01/12	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2015/01/12	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2015/01/12	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2015/01/12	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2015/01/12	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2015/01/12	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2015/01/12	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2015/01/12	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2015/01/12	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2015/01/12	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2015/01/12	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2015/01/12	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2015/01/12	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average – DW	2019	11.425	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.



Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
699892	Highlift Pump Upgrades and VFD Installation

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

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Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 6634-B23PER
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 2:28 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Pinewood Drinking Water System

Waterworks # 220006464
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at the [City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca). Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220006464

Drinking Water System Name: Pinewood DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	November 21, 2019	Announced - Detailed Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from three (3) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- Sodium hypochlorite disinfection feed system with metering pumps
- Two-celled storage reservoir
- Three high lift pumps

- Continuous on-line free chlorine analyzer
- Continuous on-line flow meters
- One portable generator

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no water quality incidents identified during the reporting period.

Non-Compliance(s)

There were no non-compliances identified during the reporting period.

Non-Compliance(s) Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

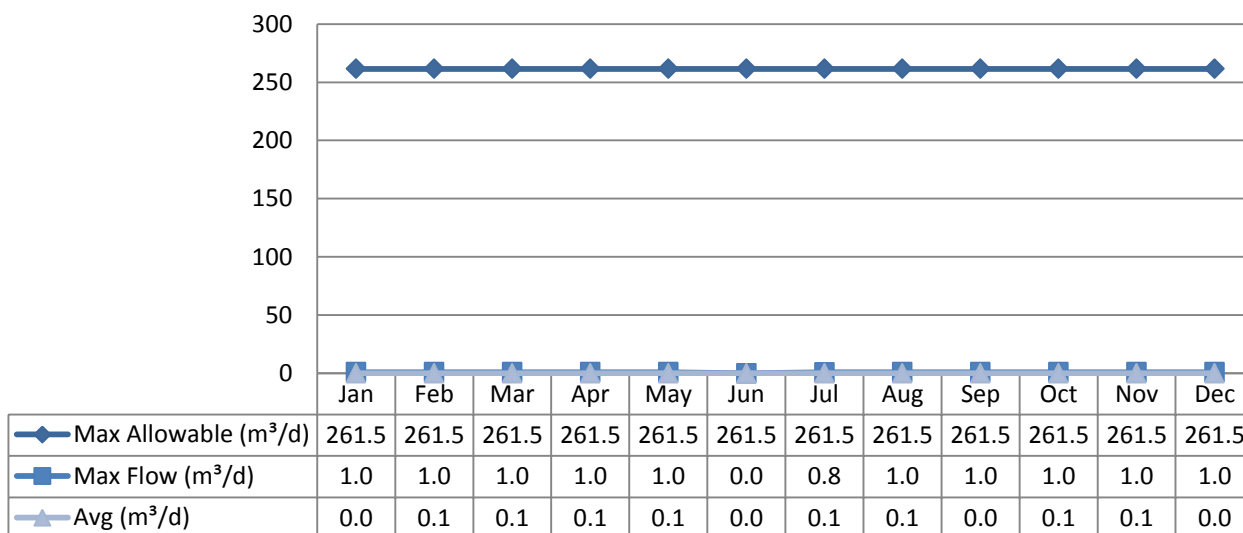
The Pinewood Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

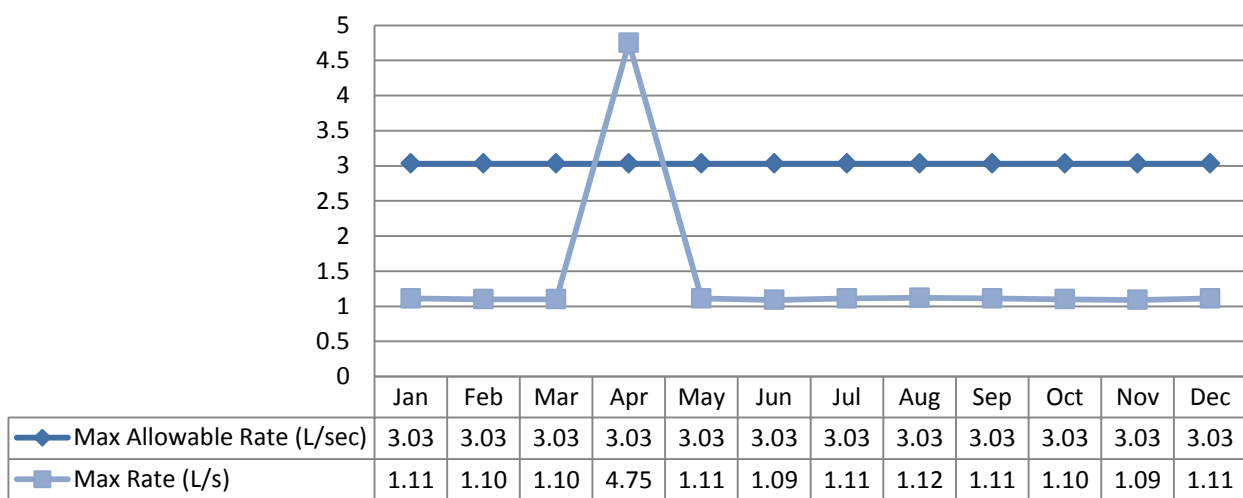
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #1341-B2LKY8 and #7473-BBTPTY. The confirmation of the data that was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2

Monthly Rated Flows (L/s)

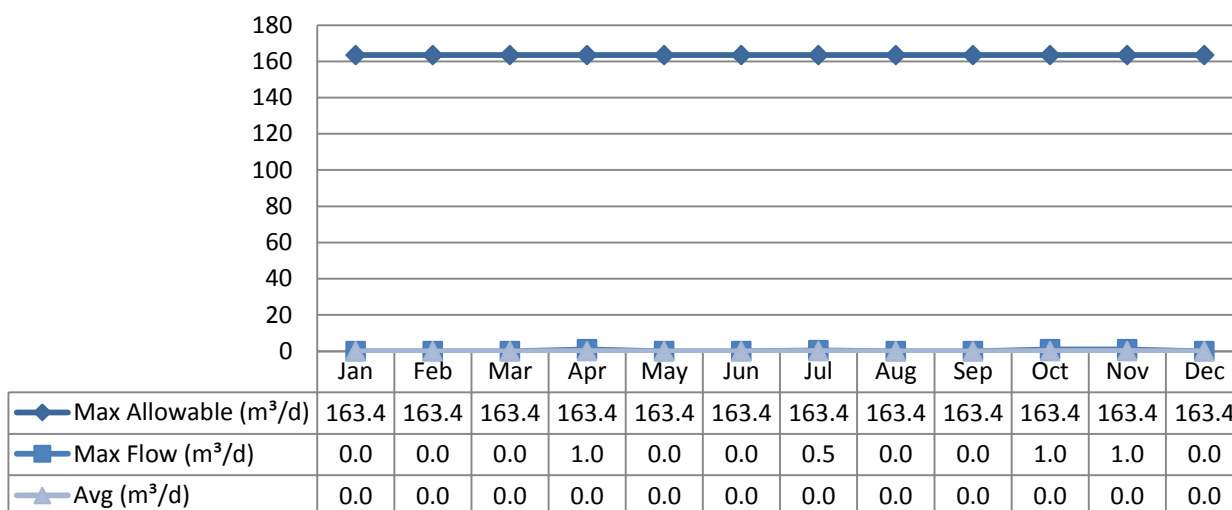
Max allowable rate – PTTW – Well #2



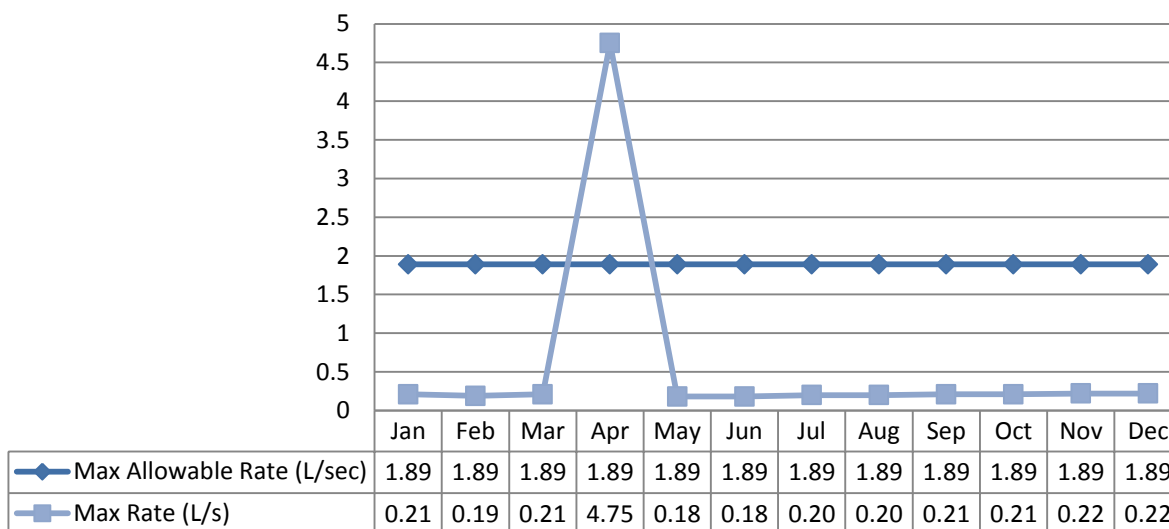
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in April was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #3

Monthly Rated Flows (L/s)

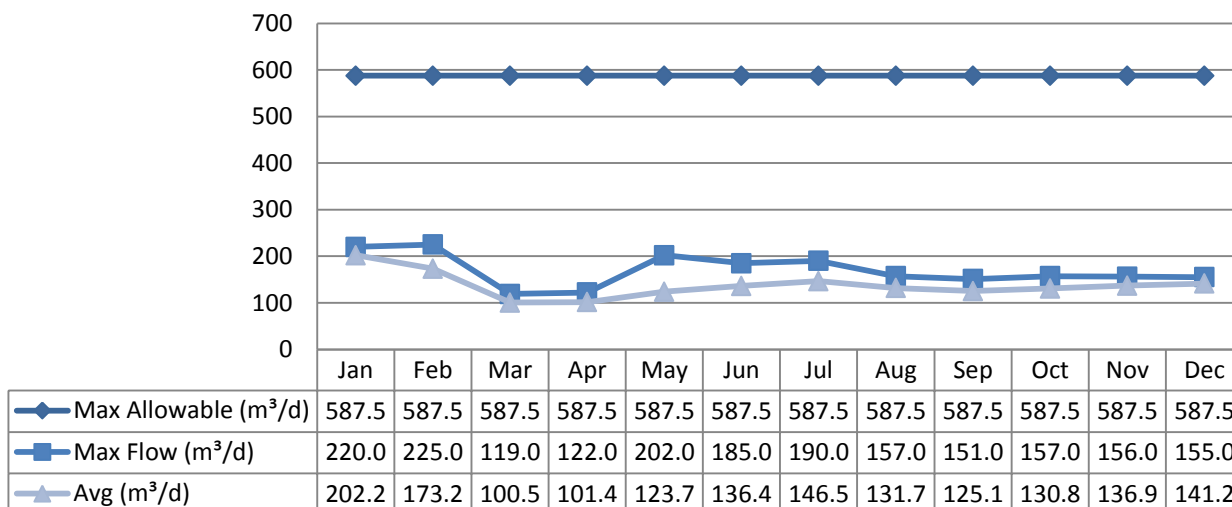
Max allowable rate – PTTW – Well #3



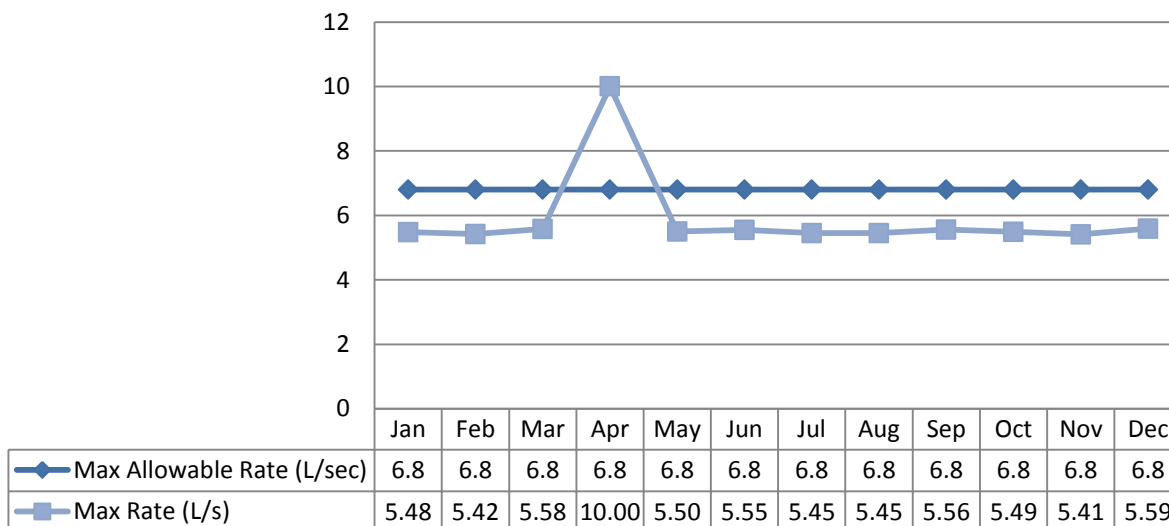
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in April was due to scheduled Flow meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #4

Monthly Rated Flows (L/s)

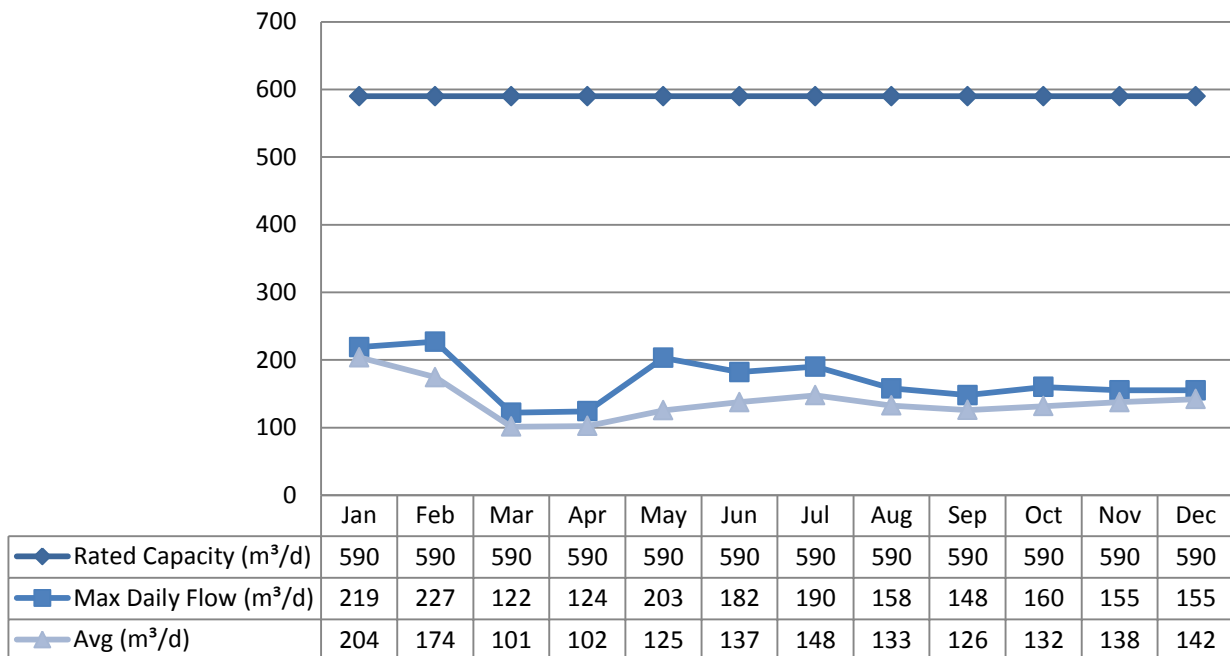
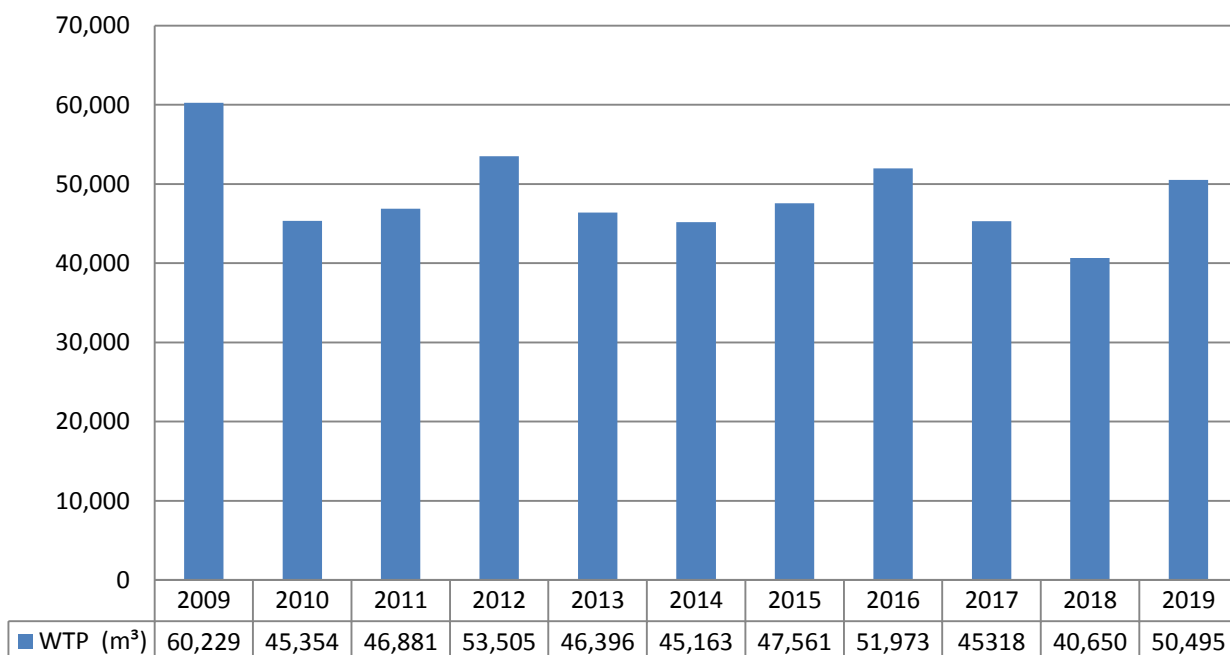
Max allowable rate – PTTW – Well #4



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in April was due to scheduled Flow meter calibration.

Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows**Rated Capacity – MDWL****Annual Total Flow Comparison****Total Annual m³**

Regulatory Sample Results Summary

Microbiological Testing

Source	No. of Samples	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 2	52	0	0	0	1		
Raw Well 3	52	0	0	0	12		
Raw Well 4	52	0	0	0	0		
Treated	52	0	0	0	0	0	3
Distribution	156	0	0	0	0	0	3

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 2 (NTU)	12	0.36	1.13
Turbidity Well 3 (NTU)	12	0.21	0.86
Turbidity Well 4 (NTU)	12	0.1	0.71
Turbidity – TW (NTU)	8760	0	2
Chlorine	8760	0	2.74
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Well 1 was not in production during the reporting period.

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2017/01/03	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2019/08/26	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2017/01/03	170.0	1000.0	No	No
Boron: B (ug/L) - TW	2017/01/03	18.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2017/01/03	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2017/01/03	0.65	50.0	No	No
Mercury: Hg (ug/L) - TW	2017/01/03	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2017/01/03	0.07	50.0	No	No
Uranium: U (ug/L) - TW	2017/01/03	0.025	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018/01/03	0.14	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.012	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.01	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.011	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.012	10.0	No	No
Sodium: Na (mg/L) - TW	2018/01/02	11.3	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Organic Parameters

These parameters are tested as a requirement under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Treated Water					
Alachlor (ug/L) - TW	2017/01/03	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2017/01/03	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2017/01/03	<MDL 0.02	20.00	No	No
Benzene (ug/L) - TW	2017/01/03	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2017/01/03	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2017/01/03	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2017/01/03	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2017/01/03	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2017/01/03	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2017/01/03	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2017/01/03	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2017/01/03	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2017/01/03	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2017/01/03	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2017/01/03	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2017/01/03	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2017/01/03	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2017/01/03	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2017/01/03	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2017/01/03	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2017/01/03	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2017/01/03	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2017/01/03	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2017/01/03	<MDL 1.0	280.00	No	No

Parameter	Sample Date	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Malathion (ug/L) - TW	2017/01/03	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2017/01/03	<MDL 0.12	100.00	No	No
Metolachlor (ug/L) - TW	2017/01/03	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2017/01/03	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2017/01/03	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2017/01/03	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2017/01/03	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2017/01/03	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2017/01/03	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2017/01/03	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2017/01/03	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2017/01/03	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2017/01/03	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2017/01/03	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2017/01/03	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2017/01/03	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2017/01/03	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2017/01/03	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2017/01/03	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2017/01/03	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	12.5	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

MDL = Method Detection Limit

Schedule 15 Sampling

The Schedule 15 Sampling is required under O. Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC	No. of Exceedances
Alkalinity (mg/L)	2	2	143	150	N/A	N/A
pH	2	2	7.53	8.23	N/A	N/A
Lead (ug/l)	N/A	N/A				

Additional Legislated Samples



There were no additional legislated samples required to report during this reporting period.

Major Maintenance Summary incurred to install, repair or replace required equipment.

Equipment was maintained in a fit state of repair as per legislation.

Appendix A

WTRS Submission Confirmation



Ministry of the Environment,
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 1341-B2LKYS
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 11, 2020 11:19 AM



This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 7473-BBTPTY
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 11, 2020 11:54 AM

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Pleasant Point Drinking Water System

Waterworks # 220006525
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at the [City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca.) Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220006525

Drinking Water System Name: Pleasant Point DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	October 3, 2019	Unannounced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	1	Feb. 17, 2019	Low system pressure due to union on Well #1 blew off inside the plant
Number of Non-Compliances	2	Jul. 29 – Aug. 27, 2019 Sep. 3 – Sep. 16, 2019	Missed weekly raw water sample from Well #1
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from two (2) groundwater wells that are designated as GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- Two (2) cartridge filtration systems,
- One (1) 600 mm diameter chlorine contact pipe,
- Two (2) ultraviolet disinfection systems operating in parallel,
- Three (3) pre-charged pressure tanks,
- A sodium hypochlorite feed system for secondary disinfection and monitoring equipment,
- Stand-by diesel generator on-site.

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
February 17, 2019	144811	Distribution	Low system pressure	Occurred when the union on Well #1 blew off inside the plant.	O. Reg. 170/03	Isolated Well #1, put Well #2 back into service, flushed system, sampled daily for treated and distribution chlorine residuals and collected one set of samples as per MOH direction.

Non-Compliance(s)

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. dates)	Corrective Action	Status
O. Reg. 170/03	Weekly raw water sample for Well 1	Jul. 29 to Aug. 27, 2019	Install VFD on well pump, disinfect equipment, sample and test, place well back into production.	Weekly sampling resumed on Aug. 19, 2019.
O. Reg. 170/03	Weekly raw water sample for Well 1	Sep. 3 to Sep. 16, 2019	Install new motor on well pump, disinfect equipment, sample and test, place well back into production.	Weekly sampling resumed on Sep. 16, 2019

Non-Compliance(s) Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

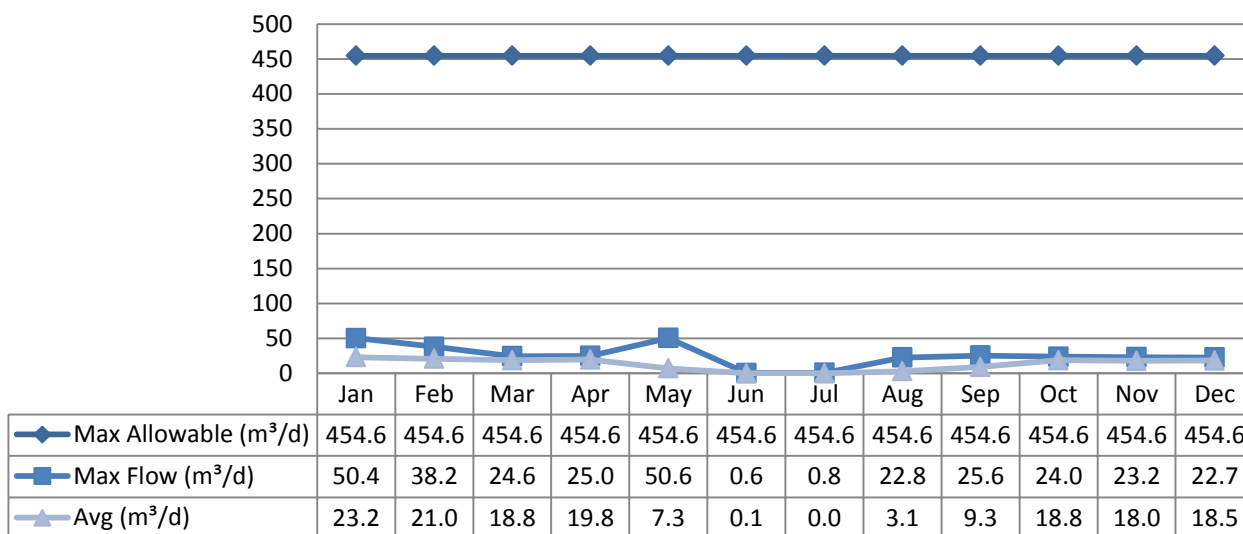
Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #5087-9ZQJJU. The confirmation of the data that was submitted is attached in Appendix A.

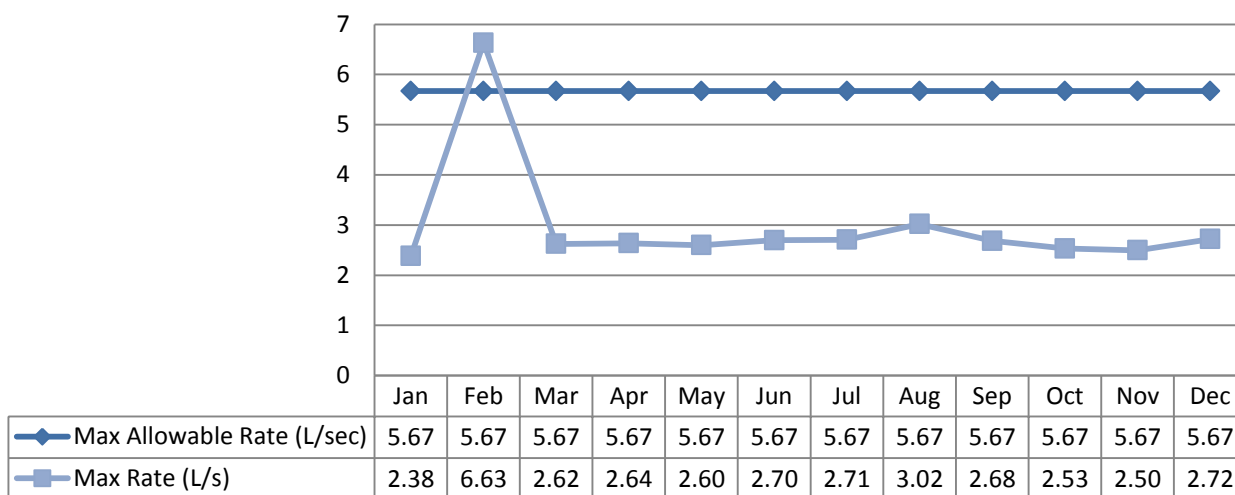
The Pleasant Point Drinking Water System is operating on average under half the rated capacity.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1

Monthly Rated Flows (L/s)

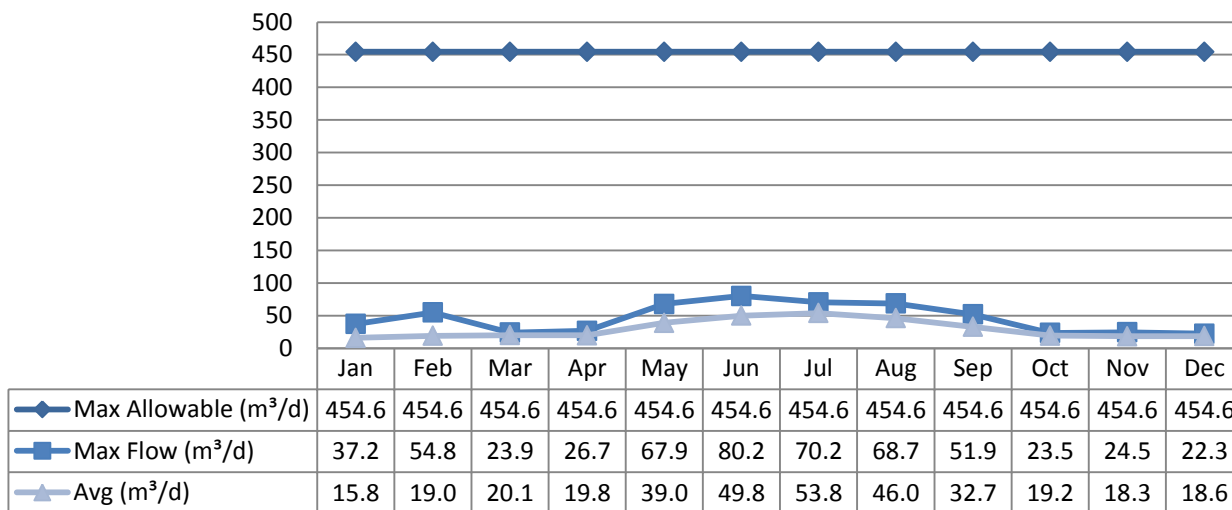
Max allowable rate – PTTW – Well #1



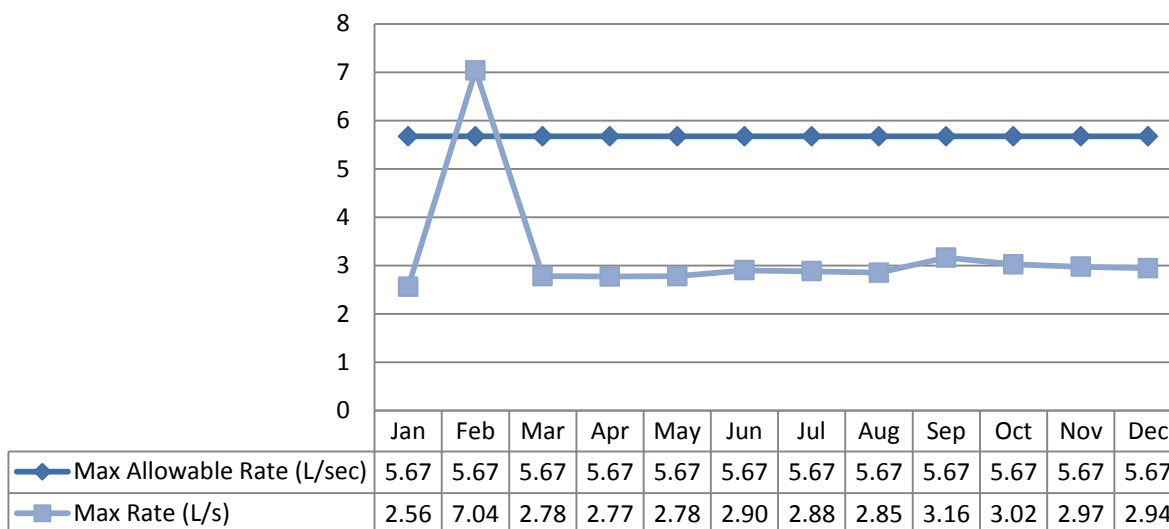
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in February was due to the Well #1 union failure resulting in AWQI 144811.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2R

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #2R



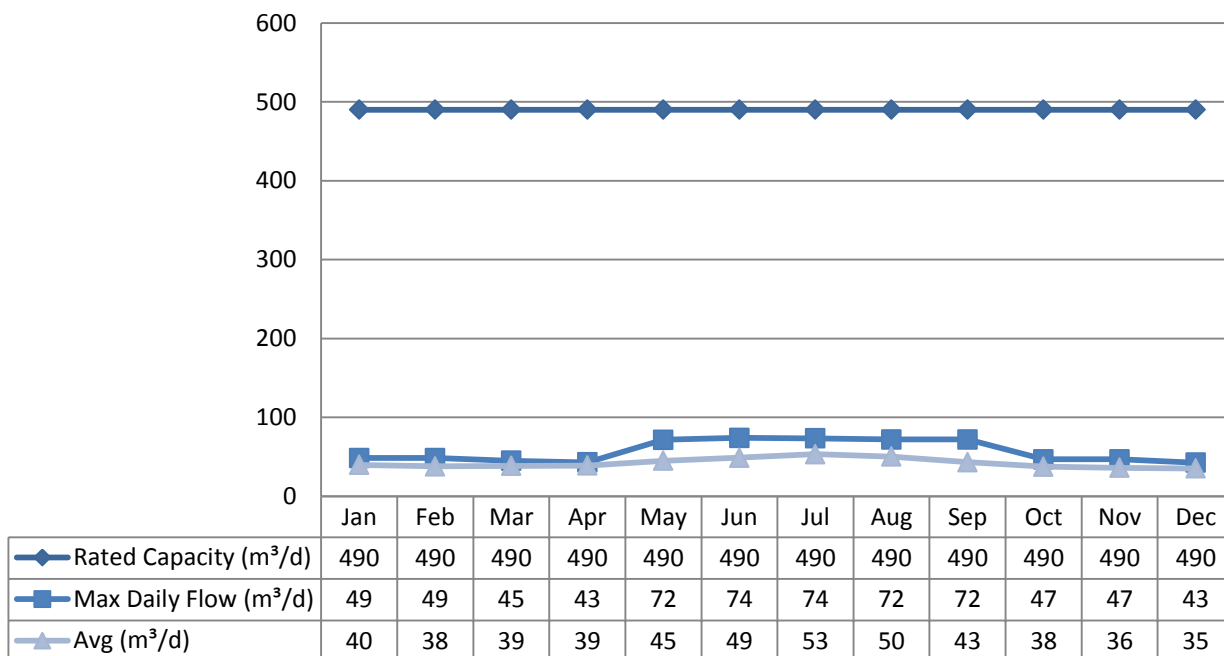
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in February was due to the Well #1 union failure resulting in AWQI 144811.

Treated Water Flows

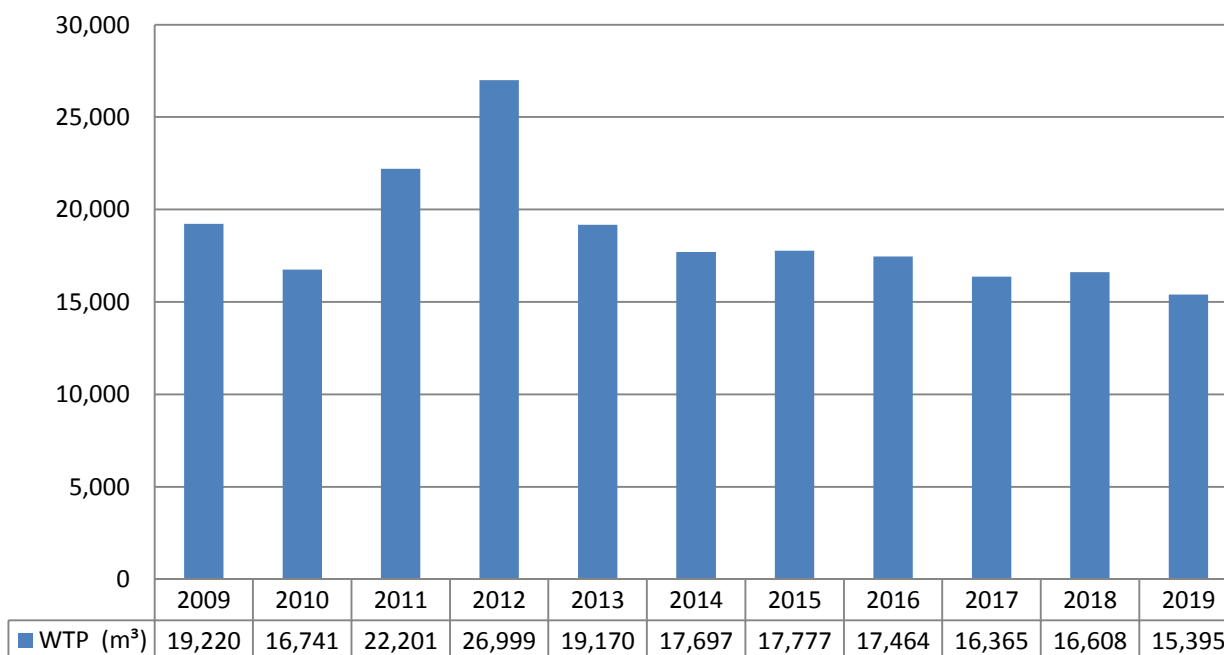
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Source	No. of Samples	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	49	0	0	0	0		
Raw Well 2R	52	0	0	0	0		
Treated	52	0	0	0	0	0	6
Distribution	157	0	0	0	0	0	6

Note: Well 1 – Raw water samples were not taken between Jul. 29 and Aug. 19, 2019, and Sep. 3 and Sep. 16, 2019.

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 1 (NTU)	12	0.09	1.41
Turbidity Well 2R (NTU)	14	0.13	0.69
Turbidity – TW (NTU)	8760	0	1.99
Chlorine	8760	0.74	4.98
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (1/2 MAC)
Antimony: Sb (ug/L) - TW	2019/01/07	0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2019/01/07	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2019/01/07	65.6	1000 .0	No	No
Boron: B (ug/L) - TW	2019/01/07	9.0	5000 .0	No	No
Cadmium: Cd (ug/L) - TW	2019/01/07	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2019/01/07	0.24	50.0	No	No
Mercury: Hg (ug/L) - TW	2019/01/07	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2019/01/07	0.12	50.0	No	No
Uranium: U (ug/L) - TW	2019/01/07	1.19	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018/01/02	0.07	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	1.44	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	1.68	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	2.2	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	1.32	10.0	No	No
Sodium: Na (mg/L) - TW	2018/01/02	8.5	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Organic Parameters

These parameters are tested as a requirement under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (1/2 MAC)
Alachlor (ug/L) - TW	2019/01/07	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2019/01/07	0.02	5.00	No	No
Azinphos-methyl (ug/L) - TW	2019/01/07	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2019/01/07	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2019/01/07	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2019/01/07	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2019/01/07	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2019/01/07	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2019/01/07	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2019/01/07	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2019/01/07	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2019/01/07	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2019/01/07	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2019/01/07	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2019/01/07	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2019/01/07	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2019/01/07	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2019/01/07	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2019/01/07	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2019/01/07	<MDL 0.03	150.00	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (1/2 MAC)
Glyphosate (ug/L) - TW	2019/01/07	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2019/01/07	<MDL 0.02	190.00	No	No
2-Methyl- 4chlorophenoxyacetic Acid (MCPA)	2019/01/07	<MDL 0.12	100.00	No	No
Metolachlor (ug/L) - TW	2019/01/07	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2019/01/07	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2019/01/07	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2019/01/07	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2019/01/07	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2019/01/07	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2019/01/07	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2019/01/07	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2019/01/07	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2019/01/07	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2019/01/07	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2019/01/07	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2019/01/07	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2019/01/07	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2019/01/07	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2019/01/07	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2019/01/07	<MDL 0.17	1.00	No	No
Distribution Water					
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A
Trihalomethane: Total (ug/L) Annual Average – DW	2019	10.4	100	No	No

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Schedule 15 Sampling

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	Number of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	2	2	243	246	N/A	N/A
pH	2	2	7.36	7.89	N/A	N/A
Lead (ug/l)	N/A	N/A				

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.



Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1299772	Transfer Switch Inspection
1301383	Replacement of Starter with Sub Drive
1420138	Well Pump 1 Motor Replacement

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

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Water Taking Data submitted successfully.


Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 5087-9ZQJJU
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 11, 2020 10:50 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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CITY OF KAWARTHA LAKES | 2020/02/11
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Sonya Drinking Water System

Waterworks # 260006516
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca.) Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 260006516

Drinking Water System Name: Sonya DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	May 14, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from two (2) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- Two (2) cartridge filtration systems,
- Four (4) UV disinfection systems,
- Secondary disinfection from the sodium hypochlorite system,
- Hydropneumatic tanks,
- Clearwell

- High lift pump system,
- Stand-by diesel generator on-site.

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents identified during the reporting period.

Non-Compliance(s)

There were no non-compliances identified during the reporting period.

Non-Compliance(s) Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

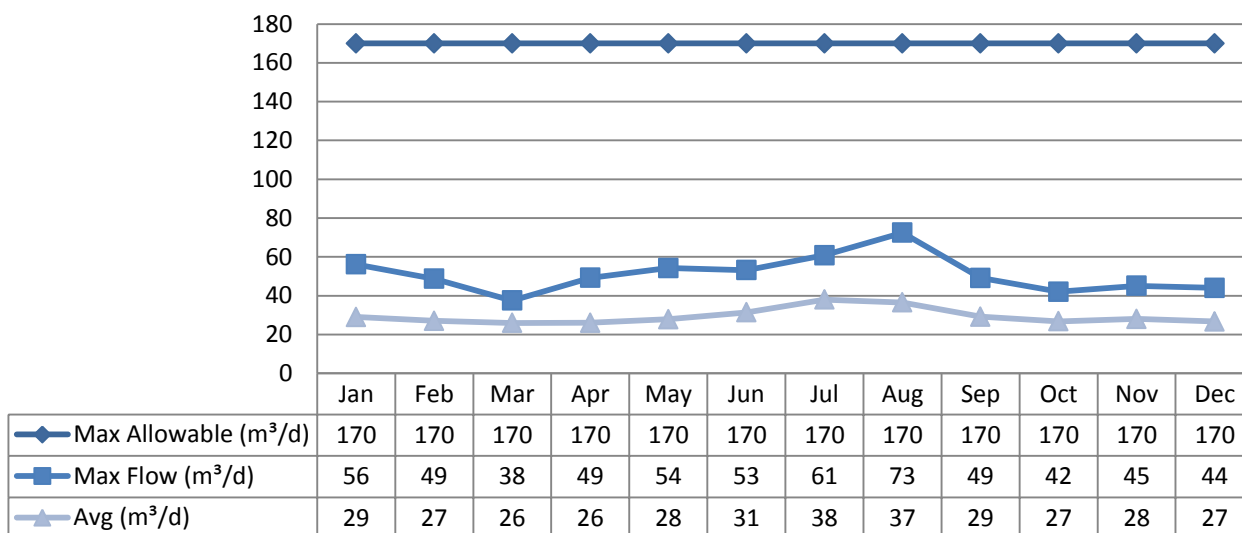
The Sonya Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

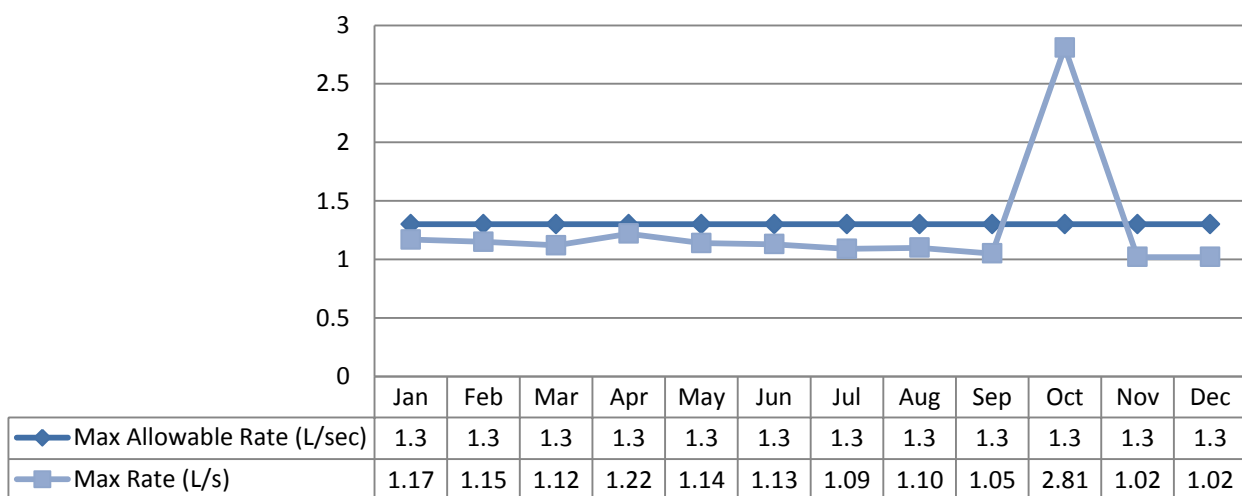
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #1246-AWTJXZ. The confirmation of the data that was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1

Monthly Rated Flows (L/s)

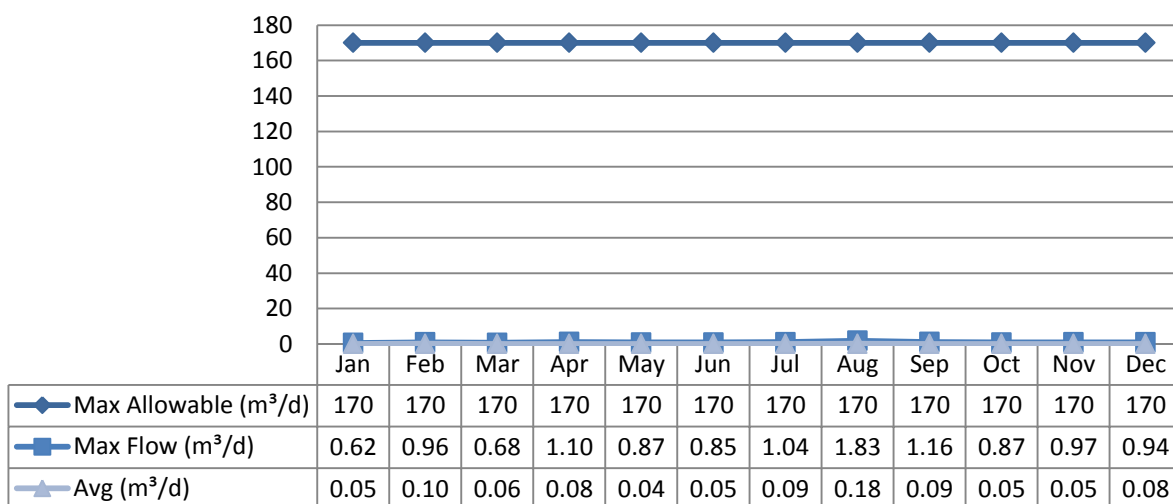
Max allowable rate – PTTW – Well #1



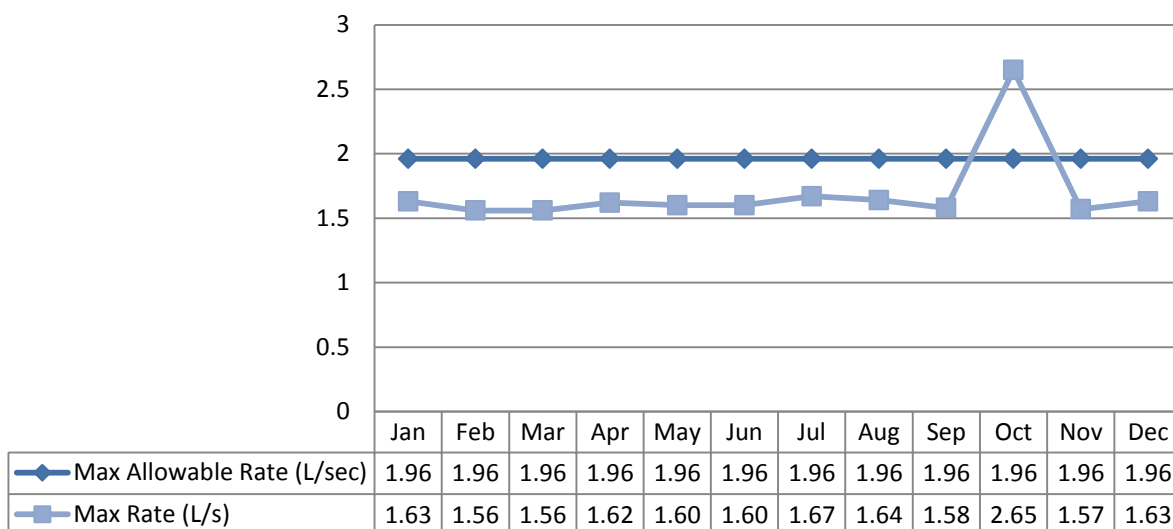
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in October was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #3

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #3



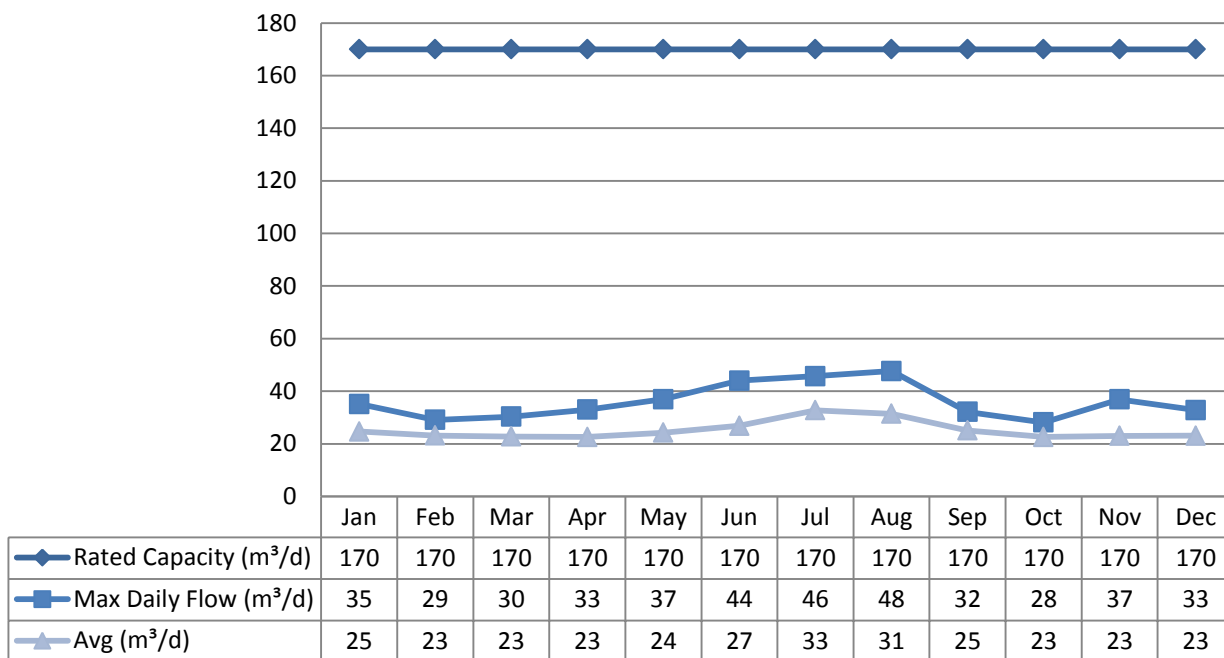
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in October was due to scheduled Flow Meter calibration.

Treated Water Flows

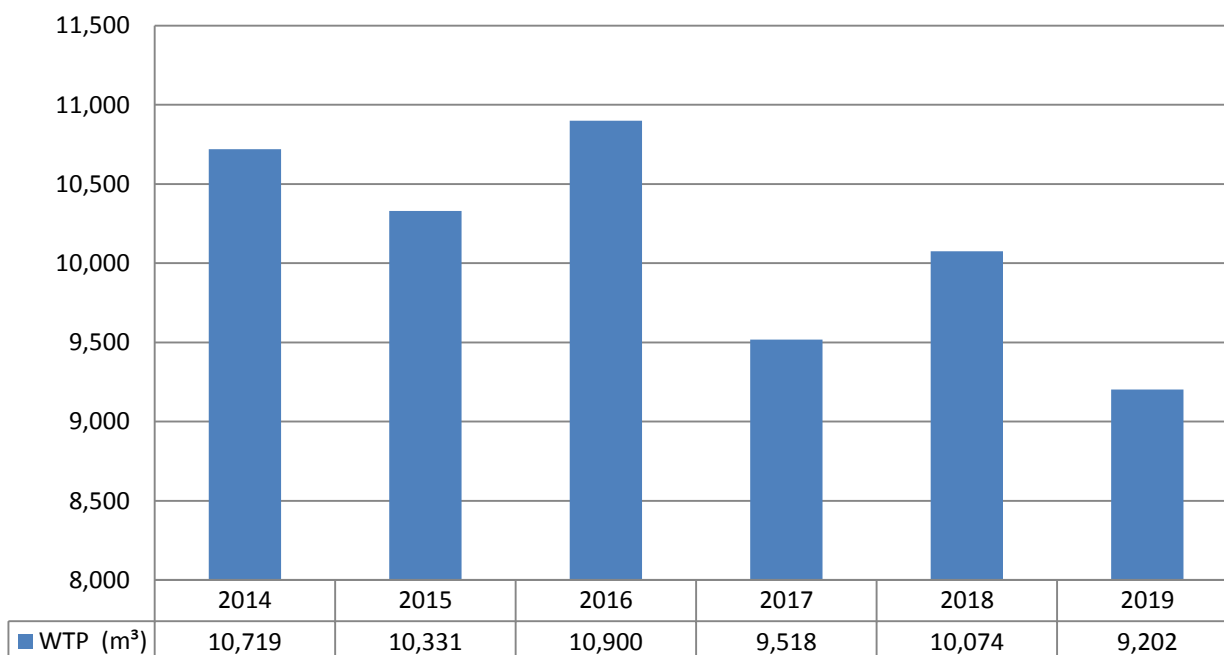
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Source	No. of Samples	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	26	0	0	0	0		
Raw Well 3	26	0	0	0	0		
Treated	N/A						
Distribution	52	0	0	0	0	0	2

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 1 (NTU)	12	0.2	0.69
Turbidity Well 3 (NTU)	12	0.31	1.57
Chlorine	8760	0	5.00
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Treated Water Parameter	Sample Date (yy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (MIN)
Arsenic: As (ug/L) - TW	2018/08/20	0.4	10.0	No	No
Barium: Ba (ug/L) - TW	2018/08/20	186.0	1000.0	No	No
Boron: B (ug/L) - TW	2018/08/20	11.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2018/08/20	<MDL 0.003	5.0	No	No

Treated Water Parameter	Sample Date (yy/mm/dd)	Sample Result	MAC	Exceedances (MAC)	Exceedances (MIN)
Chromium: Cr (ug/L) - TW	2018/08/20	0.15	50.0	No	No
Mercury: Hg (ug/L) - TW	2018/08/20	0.02	1.0	No	No
Selenium: Se (ug/L) - TW	2018/08/20	0.04	50.0	No	No
Uranium: U (ug/L) - TW	2018/08/20	0.51	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018/01/08	0.08	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	0.008	1.0	No	No
Nitrite (mg/L) - TW	2019/10/08	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.048	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.034	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.056	10.0	No	No
Nitrate (mg/L) - TW	2019/10/08	0.062	10.0	No	No
Sodium: Na (mg/L) - TW	2018/12/07	11.9	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	2	2	235	250	N/A	N/A
pH	2	2	7.53	7.82	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances $\frac{1}{2}$ MAC
Treated Water					
Alachlor (ug/L) - TW	2018/08/20	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2018/08/20	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2018/08/20	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2018/08/20	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2018/08/20	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2018/08/20	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2018/08/20	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2018/08/20	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2018/08/20	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2018/08/20	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2018/08/20	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2018/08/20	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2018/08/20	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2018/08/20	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2018/08/20	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2018/08/20	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2018/08/20	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2018/08/20	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2018/08/20	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2018/08/20	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2018/08/20	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2018/08/20	<MDL 1.0	70.00	No	No

Parameter	Sample Date	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Diuron (ug/L) - TW	2018/08/20	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2018/08/20	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2018/08/20	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)	2018/08/20	<MDL 0.012	100.00	No	No
Metolachlor (ug/L) - TW	2018/08/20	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2018/08/20	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2018/08/20	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2018/08/20	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2018/08/20	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2018/08/20	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2018/08/20	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2018/08/20	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2018/08/20	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2018/08/20	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2018/08/20	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2018/08/20	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2018/08/20	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2018/08/20	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2018/08/20	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2018/08/20	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2018/08/20	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2018/08/20	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	19.5	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.


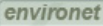
Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1138900	Sonya WTP, Cellular Signal Reception Improvement
699888	Sonya WTP, Highlift Pump Upgrades and VFD Installation

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 1246-AWTJXZ
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 10, 2020 2:36 PM

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Southview Estates Drinking Water System

Waterworks # 220012260
System Category –Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st to December 31st, 2019

Issued: February 20, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirement in
O.Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 220012260

Drinking Water System Name: Southview Estates WTP

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	January 21, 2019	The 2018/2019 Announced-Detailed Drinking Water Inspection was held in the first quarter of 2019. The 2019/2020 Unannounced-Focused Drinking Water Inspection is being held in the first quarter of 2020.
AWQI's	2	August 21, 2019	Loss of system pressure, chlorine analyzer not recording as there was no flow to analyzer. Suspected lightning strike. Restore system pressure, flush distribution system and collect bacteriological samples.
		October 4, 2019	The four quarter Rolling Annual Average (RAA) was 113 ug/L. The RAA limit is 100 ug/L.
Number of Non-Compliances	1	2 nd Quarter, 2019	The treated sample collected on January 8,

	# of Events	Date	Details
		3 rd Quarter, 2019	2019 exceeded half the Maximum Acceptable Concentration (1/2 MAC) level for Arsenic. Samples were required to be collected quarterly but samples were collected on February 7 and October 29, 2019.
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Southview Estates Drinking Water System draws water from Sturgeon Lake.

Treatment

The treatment system consists of the following:

- Dual train conventional filtration package plant
- Inline static mixer
- Coagulant feed system with addition of SternPAC
- Coagulant aid feed system with addition of polymer
- Two mono-media upflow clarifier units
- Two dual media rapid gravity filters
- Sodium hypochlorite feed system for primary disinfection
- Dual celled chlorine contact tanks (274 m3) located beneath the plant
- Two highlift pump chambers housing four pumps
- Sodium hypochlorite feed system for post chlorination
- Online analyzers to monitor both free treated chlorine and filter effluent turbidity
- Wastewater treatment system that consists of two backwash pumps and two settling tanks that receive backwash water and clarifier sludge
- SCADA computer control system
- Zebra mussel control system
- Standby power generator

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
SternPAC	Coagulant	Kemira
Magnafloc	Coagulant Aid	BASF

Summary of Non-Compliance**Adverse Water Quality Incidents**

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
August 21, 2019	147434	Distribution pressure, treated chlorine	Loss of system pressure, chlorine analyzer not recording as there was no flow to analyzer.	Suspected lightning strike.	O. Reg. 170/03 Schedule 16 Section 4 O. Reg. 170/03 Schedule 6 Section 2	Restore system pressure, flush distribution system and collect bacteriological samples.
October 4, 2019	149394	Distribution	The four quarter Rolling Annual Average (RAA) was 113 ug/L.	The RAA limit is 100 ug/L.	O. Reg. 170/03 Schedule 16 Section 10	Reduced chlorine residual. Lowered clearwell level to reduce detention time. Change rotation of highlifts to promote better mixing

Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
O.Reg.170/03 Schedule 13-5	Samples to be collected every three months until four consecutive three-month periods are below half of the standard	2 nd Quarter, 2019 3 rd Quarter, 2019	Sample Calendars are printed each month to ensure the current calendar is being referenced. Arsenic bottles are pre-ordered from the lab to be delivered each quarter.	Complete

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

The Southview Estates Drinking Water System is operating under half the rated capacity.

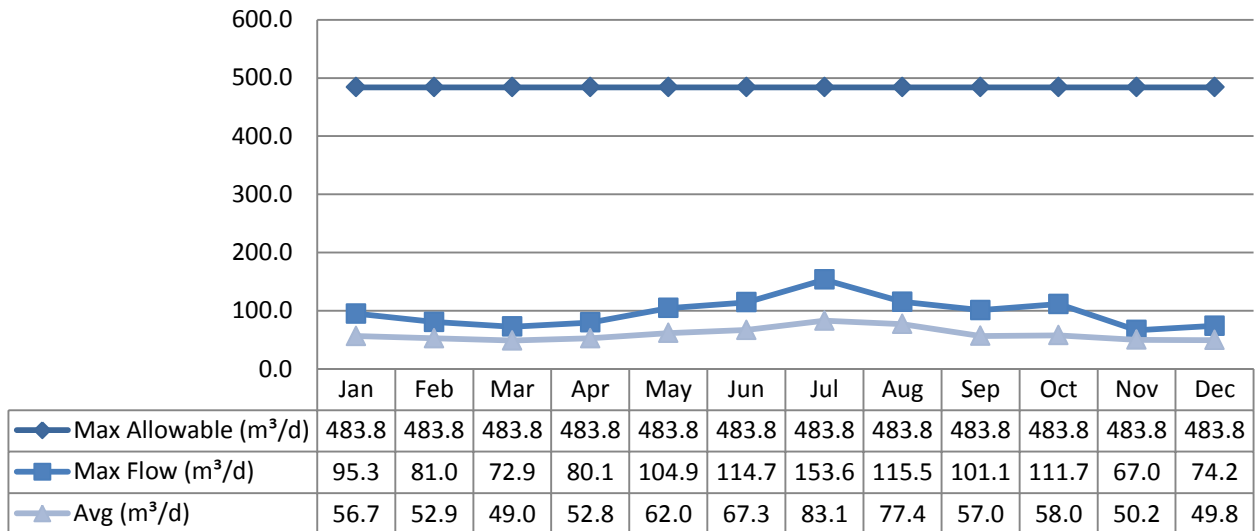
Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #8118-AW2NZT.

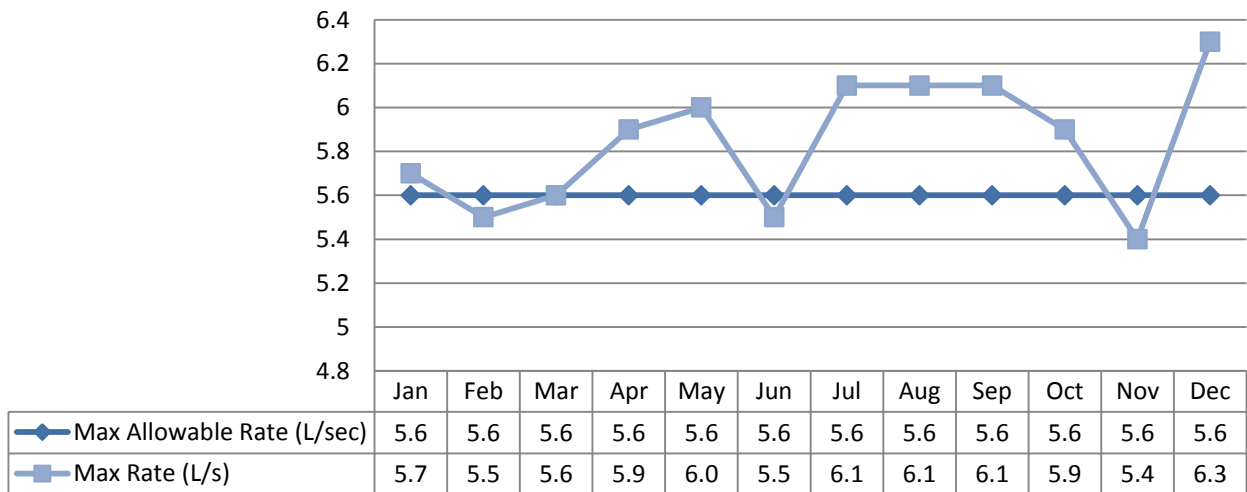
The confirmation and a copy of the data that was submitted are attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW- Raw

**Monthly Rated Flows (L/s)**

Max allowable rate – PTTW- Raw



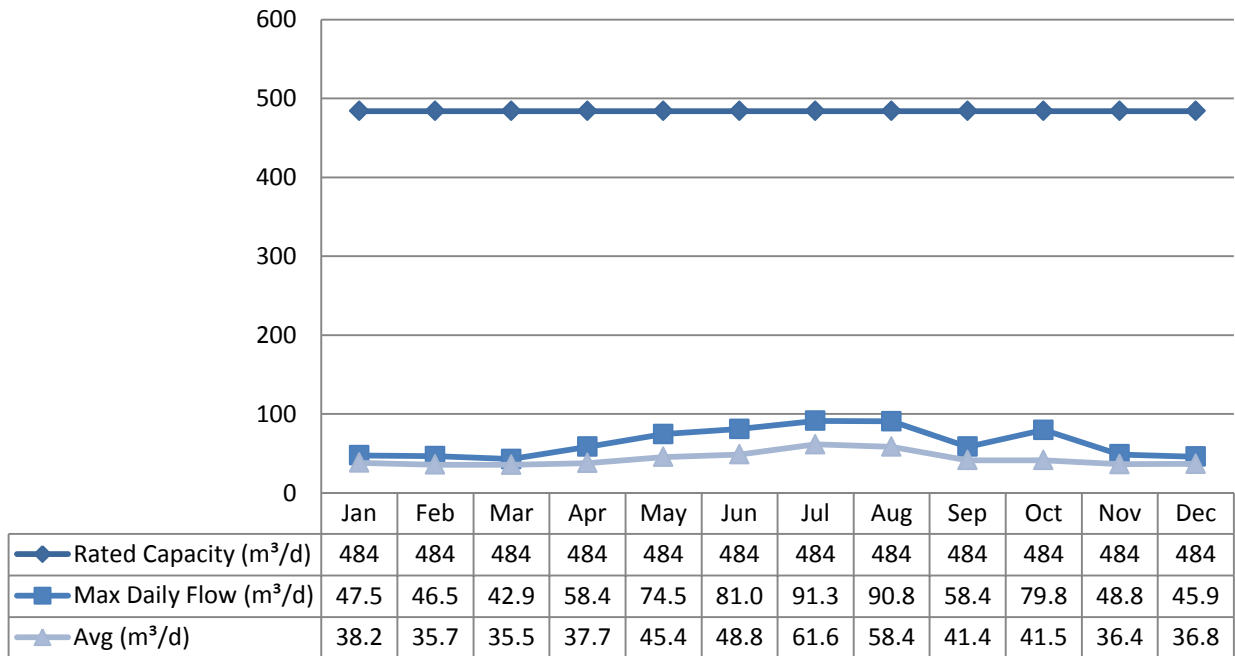
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s) and exceedances were short in duration. The scheduled Flow Meter calibration was in July.

Treated Water Flows

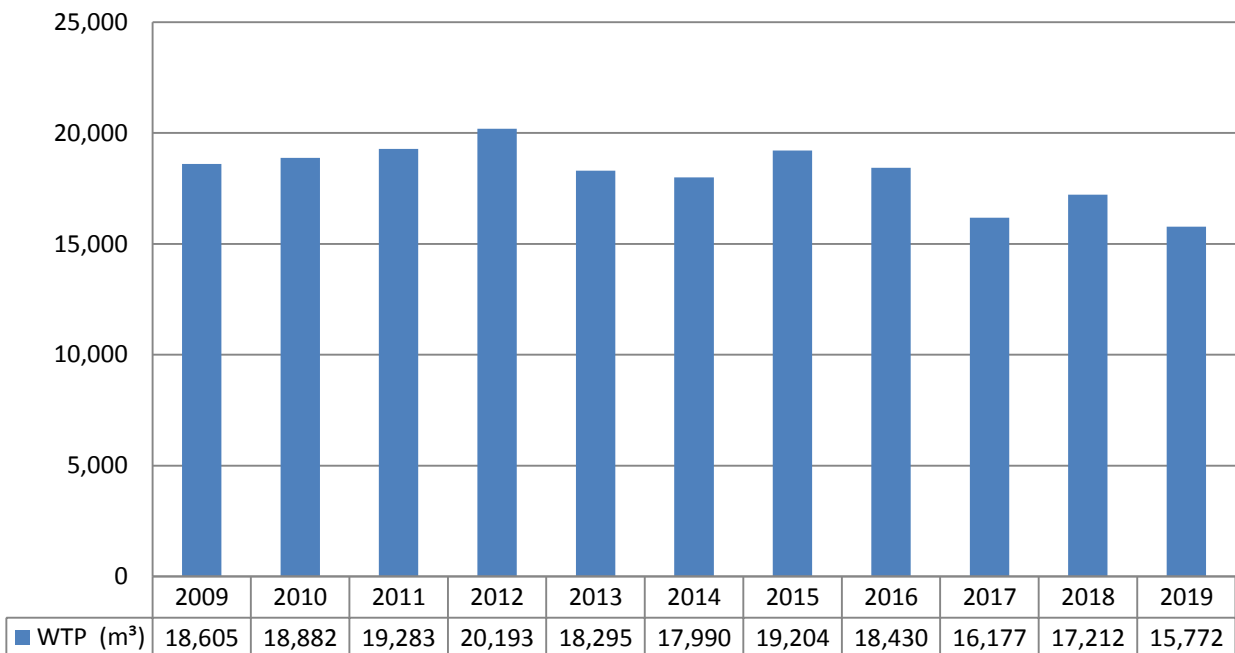
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity - MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples	Range of E.coli Results MIN	Range of E.coli Results MAX	Range of Total Coliform Results MIN	Range of Total Coliform Results MAX	Range of HPC Results MIN	Range of HPC Results MAX
Raw	53	0	10	0	320		
Treated	53	0	0	0	0	0	
Distribution	162	0	0	0	0	0	3

Operational Testing

Parameters	No. of Samples Collected	Range of Results MIN	Range of Results MAX
Turbidity Raw (NTU)	46	0.27	2.17
Turbidity Filter 1 (NTU)	8760	0	4.45
Turbidity Filter 2 (NTU)	8760	0	4.09
Chlorine	8760	0	5.25
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Parameters (Treated Water)	Sample Date	Sample Results	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Antimony: Sb (ug/L)	2019/01/08	0.38	6.0	No	No
Arsenic: As (ug/L)	2019/10/29	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L)	2019/01/08	19.8	1000.0	No	No
Boron: B (ug/L)	2019/01/08	12.0	5000.0	No	No
Cadmium: Cd (ug/L)	2019/01/08	0.009	5.0	No	No
Chromium: Cr (ug/L)	2019/01/08	0.11	50.0	No	No

Parameters (Treated Water)	Sample Date	Sample Results	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Mercury: Hg (ug/L)	2019/01/08	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L)	2019/01/08	0.05	50.0	No	No
Uranium: U (ug/L)	2019/01/08	0.025	20.0	No	No
Additional Inorganics					
Fluoride (mg/L)	2018/01/15	<MDL 0.06	1.5	No	No
Nitrite (mg/L)	2019/01/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/04/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/07/10	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/10/09	<MDL 0.003	1.0	No	No
Nitrate (mg/L)	2019/01/08	0.307	10.0	No	No
Nitrate (mg/L)	2019/04/03	0.401	10.0	No	No
Nitrate (mg/L)	2019/07/10	0.193	10.0	No	No
Nitrate (mg/L)	2019/10/09	0.09	10.0	No	No
Sodium: Na (mg/L)	2018/01/15	10.7	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	2	2	68	80	N/A	N/A
pH	2	2	8.22	8.32	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date	Sample Result	MAC	Exceedance MAC	Exceedance ½ MAC
Treated Water					
Alachlor (ug/L)	2019/01/08	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L)	2019/01/08	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L)	2019/01/08	<MDL 0.05	20.0	No	No
Benzene (ug/L)	2019/01/08	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L)	2019/01/08	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L)	2019/01/08	<MDL 0.33	5.0	No	No
Carbaryl (ug/L)	2019/01/08	<MDL 0.05	90.0	No	No
Carbofuran (ug/L)	2019/01/08	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L)	2019/01/08	<MDL 0.16	2.0	No	No
Chlorpyrifos (ug/L)	2019/01/08	<MDL 0.02	90.0	No	No
Diazinon (ug/L)	2019/01/08	<MDL 0.02	20.0	No	No
Dicamba (ug/L)	2019/01/08	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L)	2019/01/08	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L)	2019/01/08	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L)	2019/01/08	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L)	2019/01/08	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L)	2019/01/08	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L)	2019/01/08	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)	2019/01/08	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L)	2019/01/08	<MDL 0.4	9.0	No	No
Dimethoate (ug/L)	2019/01/08	<MDL 0.03	20.0	No	No
Diquat (ug/L)	2019/01/08	<MDL 1.0	70.0	No	No
Diuron (ug/L)	2019/01/08	<MDL 0.03	150.0	No	No
Glyphosate (ug/L)	2019/01/08	<MDL 1.0	280.0	No	No
Malathion (ug/L)	2019/01/08	<MDL 0.02	190.0	No	No
Metolachlor (ug/L)	2019/01/08	<MDL 0.01	50.0	No	No
Metribuzin (ug/L)	2019/01/08	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)	2019/01/08	<MDL 0.3	80.0	No	No
Paraquat (ug/L)	2019/01/08	<MDL 1.0	10.0	No	No
PCB (ug/L)	2019/01/08	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L)	2019/01/08	<MDL 0.15	60.0	No	No
Phorate (ug/L)	2019/01/08	<MDL 0.01	2.0	No	No
Picloram (ug/L)	2019/01/08	<MDL 1.0	190.0	No	No
Prometryne (ug/L)	2019/01/08	<MDL 0.03	1.0	No	No
Simazine (ug/L)	2019/01/08	<MDL 0.01	10.0	No	No
Terbufos (ug/L)	2019/01/08	<MDL 0.01	1.0	No	No

Parameter	Sample Date	Sample Result	MAC	Exceedance MAC	Exceedance ½ MAC
Parameter	Sample Date	Sample Result	MAC	Exceedance MAC	Exceedance ½ MAC
Tetrachloroethylene (ug/L)	2019/01/08	<MDL 0.35	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L)	2019/01/08	<MDL 0.2	100.0	No	No
Triallate (ug/L)	2019/01/08	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L)	2019/01/08	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L)	2019/01/08	<MDL 0.25	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)	2019/01/08	<MDL 0.12	100.0	No	No
Trifluralin (ug/L)	2019/01/08	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L)	2019/01/08	<MDL 0.17	1.0	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average	2019	109.5	100.0	Yes	Yes
HAA Total (ug/L) Annual Average	2019	74.8	80.0	No	Yes

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples

Parameter	Location	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Alkalinity (mg/L as CaCO ₃)	Point of Entrance to Distribution System	4	67.0	83.0
Aluminum (ug/L)	Point of Entrance to Distribution System	4	22.0	130.0
Dissolved Organic Carbon (mg/L)	Point of Entrance to Distribution System	4	2.0	3.0
Total Suspended Solids (mg/L)	Settling Tank Discharge Point	12	2.0	13.0

Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
628011	Replacement of Filter PLC and Valves
1103047	Interior Roof Replacement

Appendix A

WTRS Data and Submission Confirmation

Water Taking Data submitted successfully.
Confirmation:
Thank you for submitting your water taking data online.
Permit Number: 8118-AW2NZT Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES. Received on: Feb 5, 2020 1:19 PM
This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Victoria Place Drinking Water System

Waterworks # 220011895
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Issued: February 20, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O.Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located is at 12 Peel Street in Lindsay, Ontario. The reports are also available online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 220011895

Drinking Water System Name: Victoria Place WTP

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	June 5, 2019	Unannounced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Victoria Place Water Treatment Plant is supplied with raw groundwater from four wells: Well # 1, 2, 3, and 7. The system is divided into two well banks. In the present configuration, Bank No. 1 consists of Well # 1, 2 and 3 and Bank No. 2 consists of Well No.7.

Treatment

The treatment system consists of the following:

- Four groundwater wells considered to be Non-GUDI with pumps
- Sodium hypochlorite feed system with two metering pumps
- Unbaffled 295m³ underground circular concrete storage reservoir
- Two online chlorine analyzers

- Five flowmeters:
- Standby diesel generator on-site.

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents identified during the reporting period.

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

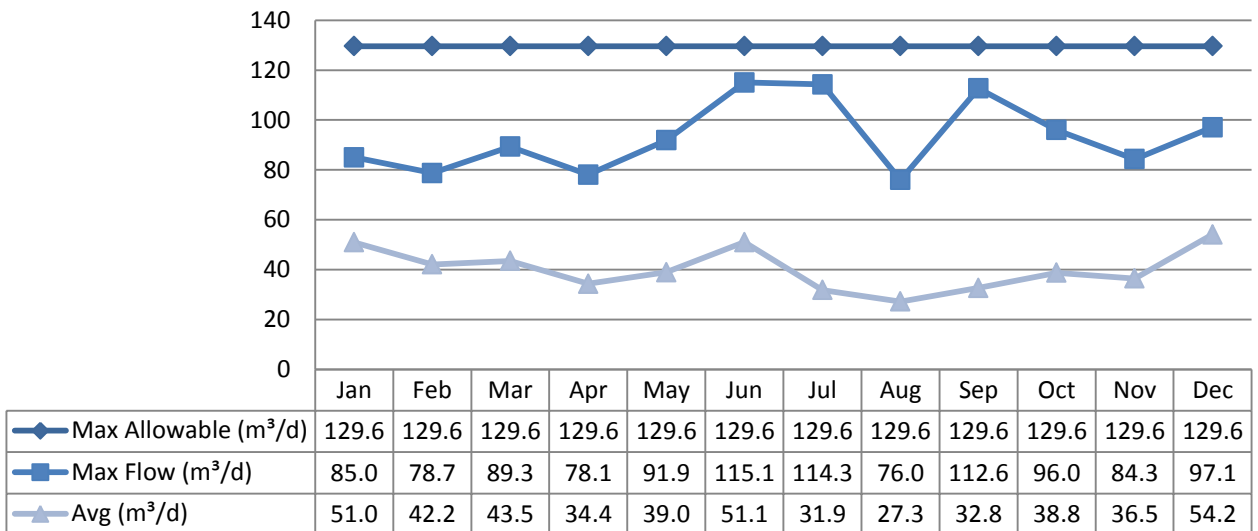
The Victoria Place Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

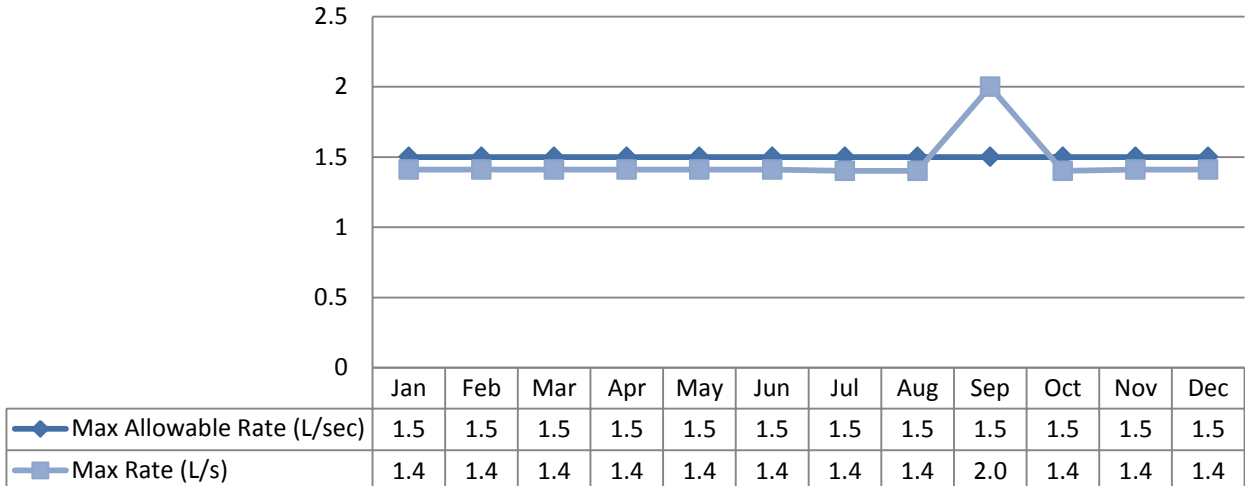
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #5275-AY5Q6S. The confirmation and a copy of the data that was submitted are attached in Appendix A.

Total Monthly Flows (m³/d)

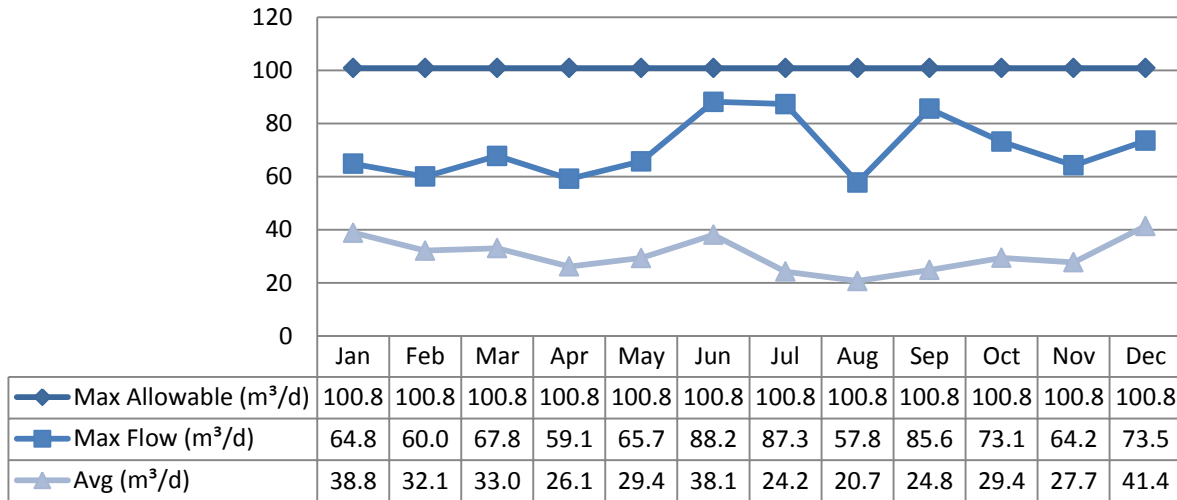
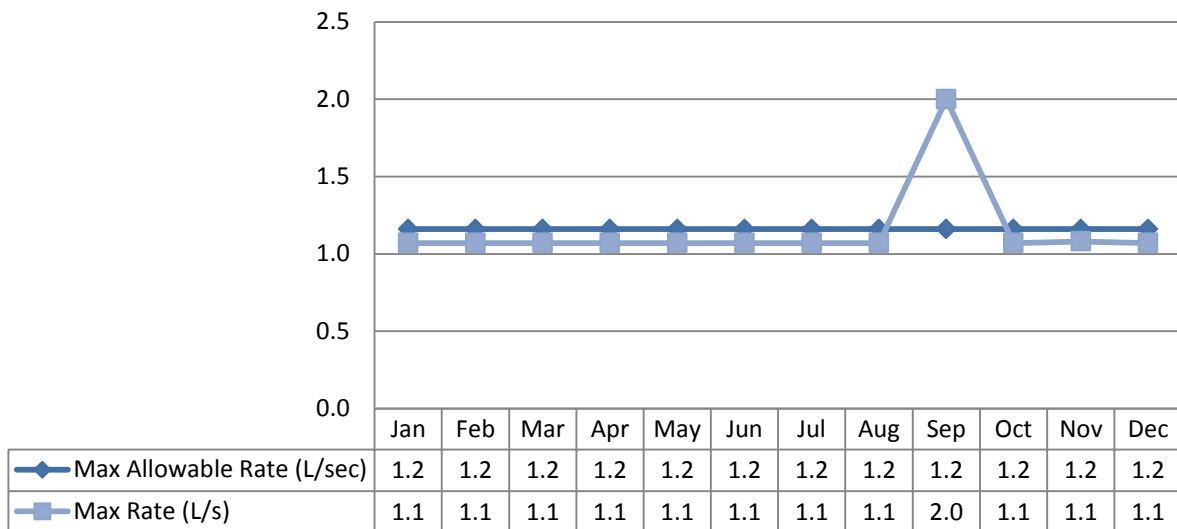
Max Allowable PTTW- Well #1

Monthly Rated Flows (L/s)

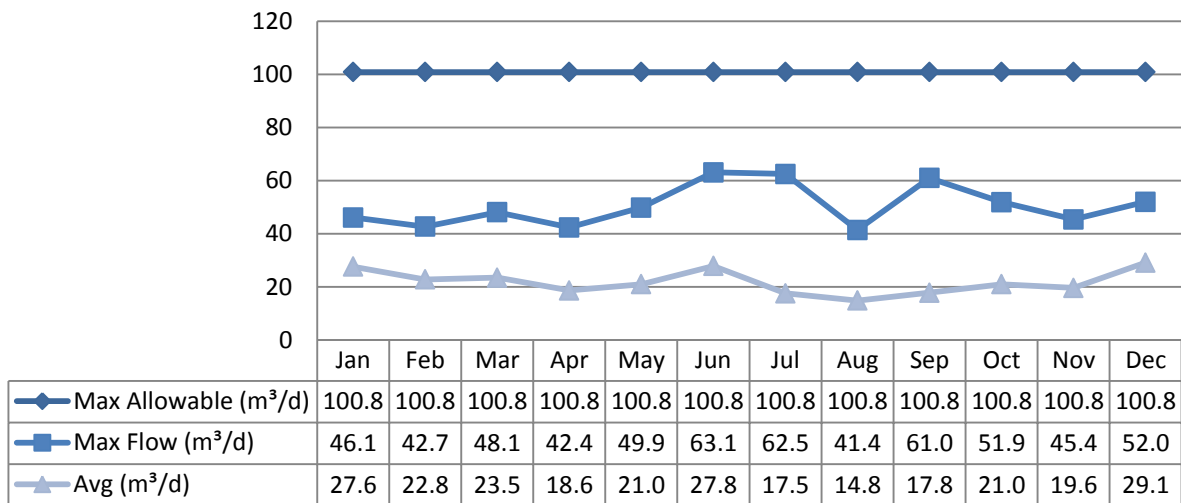
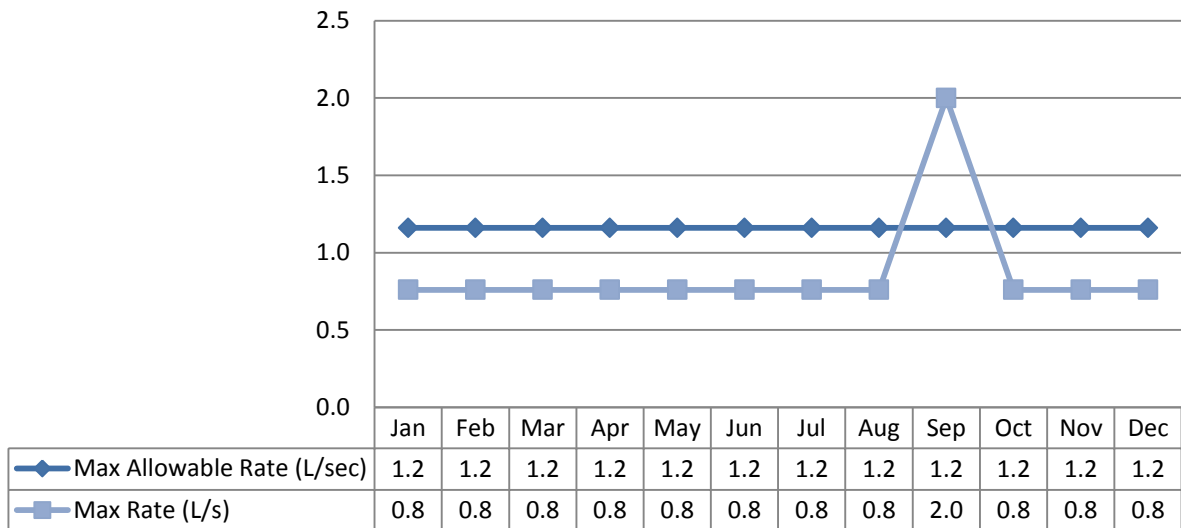
Max allowable rate – PTTW- Well #1



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in September was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)
Max Allowable PTTW- Well #2Monthly Rated Flows (L/s)
Max allowable rate – PTTW- Well #2

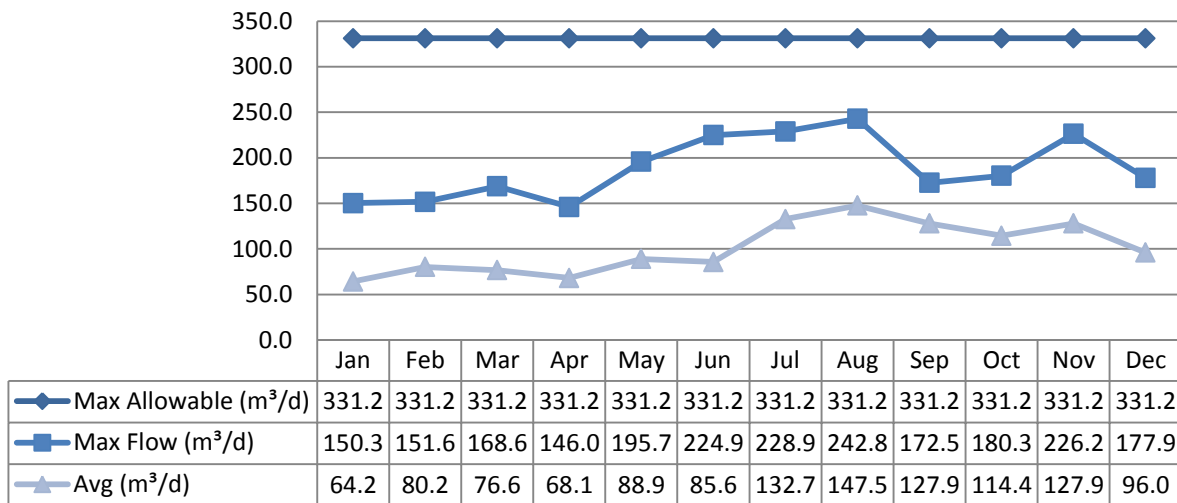
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in September was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)
Max Allowable PTTW- Well #3Monthly Rated Flows (L/s)
Max allowable rate – PTTW- Well #3

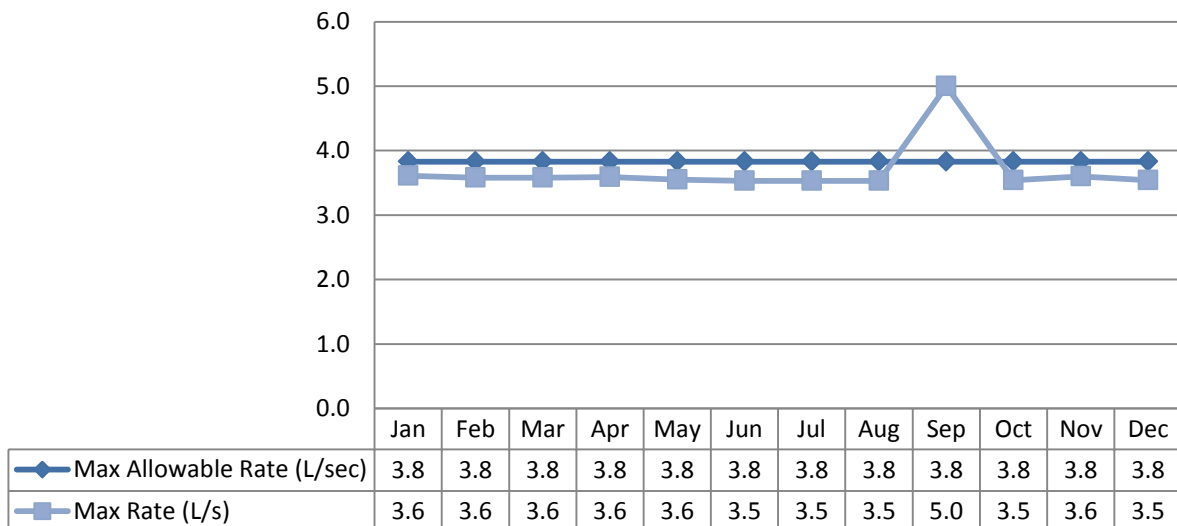
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in September was due to scheduled Flow Meter calibration.

Issued: February 20, 2020

Total Monthly Flows (m³/d)
Max Allowable PTTW- Well #7



Monthly Rated Flows (L/s)
Max allowable rate – PTTW- Well #7



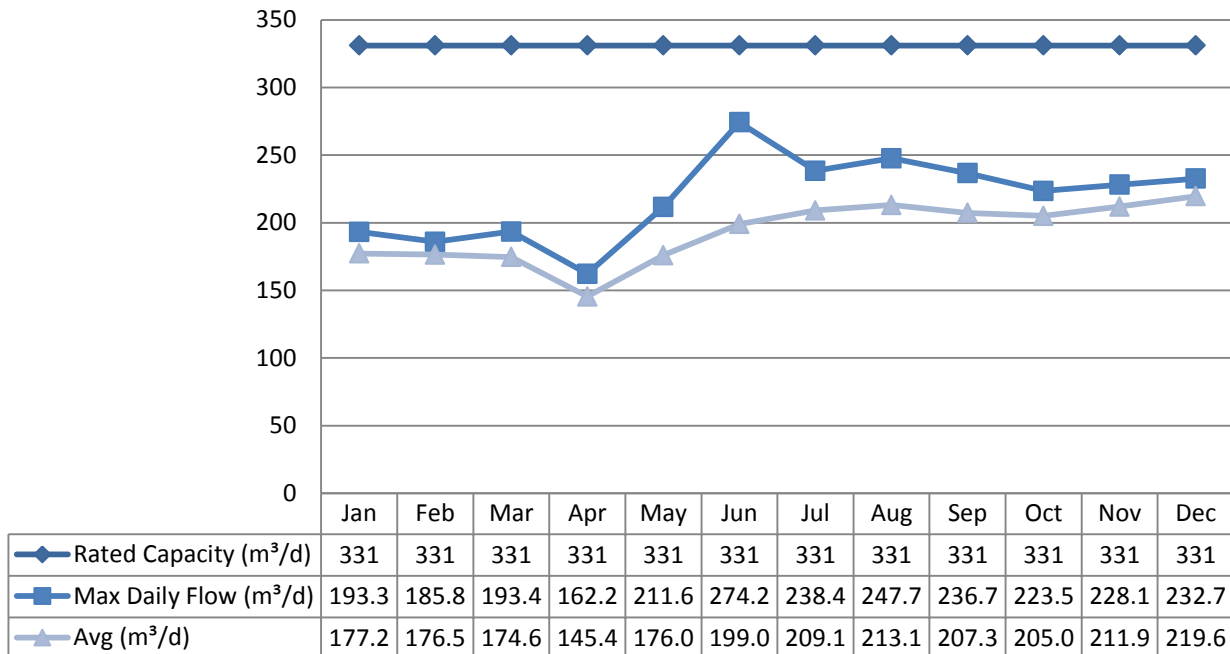
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The significant spike in September was due to scheduled Flow Meter calibration.

Treated Water Flows

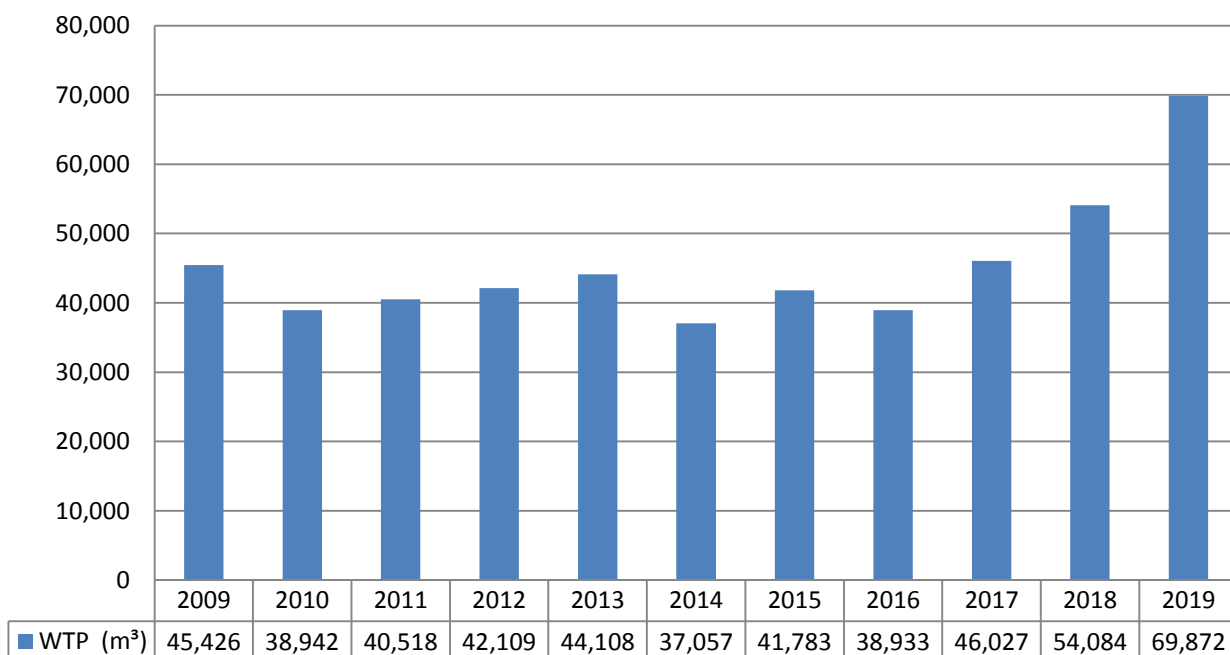
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity - MDWL

Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Location	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	56	0	0	0	1		
Raw Well 2	55	0	0	0	520		
Raw Well 3	56	0	0	0	2		
Raw Well 7	53	0	0	0	0		
Treated	53	0	0	0	0	0	1
Distribution	160	0	0	0	0	0	2

Operational Testing

Location	No. of Samples	Range of Results (MIN)	Range of Results (MAX)
Turbidity Well 1 (NTU)	12	0.06	0.24
Turbidity Well 2 (NTU)	12	0.06	0.18
Turbidity Well 3 (NTU)	12	0.05	0.11
Turbidity Well 7 (NTU)	12	0.05	0.12
Chlorine	8760	0	2.15
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- BDL = Below the laboratory detection level

Parameter	Sample date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (1/2 MAC)
Treated					
Antimony: Sb (ug/L)	2017/01/10	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L)	2017/01/10	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L)	2017/01/10	112.0	1000.0	No	No
Boron: B (ug/L)	2017/01/10	25.0	5000.0	No	No
Cadmium: Cd (ug/L)	2017/01/10	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L)	2017/01/10	0.64	50.0	No	No
Mercury: Hg (ug/L)	2017/01/10	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L)	2017/01/10	0.58	50.0	No	No
Uranium: U (ug/L)	2017/01/10	0.263	20.0	No	No
Additional Inorganics					
Fluoride (mg/L)	2018/01/09	0.06	1.5	No	No
Nitrite (mg/L)	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/04/01	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/07/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L)	2019/01/07	5.1	10.0	No	Yes
Nitrate (mg/L)	2019/04/01	5.15	10.0	No	Yes
Nitrate (mg/L)	2019/07/08	4.39	10.0	No	No
Nitrate (mg/L)	2019/10/07	4.97	10.0	No	No
Sodium: Na (mg/L)	2019/01/07	31.3	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	4	4	234	240	N/A	N/A
pH	4	4	7.54	8.05	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (MIN)
Alachlor (ug/L) - TW	2017/01/10	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L)	2017/01/10	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L)	2017/01/10	<MDL 0.05	20.0	No	No
Benzene (ug/L)	2017/01/10	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L)	2017/01/10	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L)	2017/01/10	<MDL 0.33	5.0	No	No
Carbaryl (ug/L)	2017/01/10	<MDL 0.05	90.0	No	No
Carbofuran (ug/L)	2017/01/10	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L)	2017/01/10	<MDL 0.16	2.0	No	No
Chlorpyrifos (ug/L)	2017/01/10	<MDL 0.02	90.0	No	No
Diazinon (ug/L)	2017/01/10	<MDL 0.02	20.0	No	No
Dicamba (ug/L)	2017/01/10	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L)	2017/01/10	<MDL 0.41	200.0	No	No
1,4-Dichlorobenzene (ug/L)	2017/01/10	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L)	2017/01/10	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L)	2017/01/10	<MDL 0.33	14.0	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (MIN)
Dichloromethane (Methylene Chloride) (ug/L)	2017/01/10	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L)	2017/01/10	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)	2017/01/10	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L)	2017/01/10	<MDL 0.4	9.0	No	No
Dimethoate (ug/L)	2017/01/10	<MDL 0.03	20.0	No	No
Diquat (ug/L)	2017/01/10	<MDL 1.0	70.0	No	No
Diuron (ug/L)	2017/01/10	<MDL 0.03	150.0	No	No
Glyphosate (ug/L)	2017/01/10	<MDL 1.0	280.0	No	No
Malathion (ug/L)	2017/01/10	<MDL 0.02	190.0	No	No
Metolachlor (ug/L)	2017/01/10	<MDL 0.01	50.0	No	No
Metribuzin (ug/L)	2017/01/10	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)	2017/01/10	<MDL 0.3	80.0	No	No
Paraquat (ug/L)	2017/01/10	<MDL 1.0	10.0	No	No
PCB (ug/L)	2017/01/10	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L)	2017/01/10	<MDL 0.15	60.0	No	No
Phorate (ug/L)	2017/01/10	<MDL 0.01	2.0	No	No
Picloram (ug/L)	2017/01/10	<MDL 1.0	190.0	No	No
Prometryne (ug/L)	2017/01/10	<MDL 0.03	1.0	No	No
Simazine (ug/L)	2017/01/10	<MDL 0.01	10.0	No	No
Terbufos (ug/L)	2017/01/10	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L)	2017/01/10	<MDL 0.35	10.0	No	No
2,3,4,6- Tetrachlorophenol (ug/L)	2017/01/10	<MDL 0.2	100.0	No	No
Triallate (ug/L)	2017/01/10	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L)	2017/01/10	<MDL 0.44	5.0	No	No
2,4,6- Trichlorophenol (ug/L)	2017/01/10	<MDL 0.25	5.0	No	No
2-methyl-4- chlorophenoxyacetic acid (MCPA) (ug/L)	2017/01/10	<MDL 0.12	100.0	No	No

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (MIN)
Trifluralin (ug/L)	2017/01/10	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L)	2017/01/10	<MDL 0.17	1.0	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average	2019	14.75	100	No	No
HAA Total (ug/L) Annual Average	2019	5.3	80	No	No

MAC = Maximum Allowable Concentration as per O.Reg.169/03

BDL = Below the laboratory detection level

Additional Legislated Samples


There was no additional sampling required.

Major Maintenance Summary

WO #	Description
1138832	Roof Replacement Control Building

Appendix A

WTRS Data and Submission Confirmation



Ministry of the Environment,
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 5275-AY5Q6S
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 5, 2020 1:13 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Western Trent/Palmina Drinking Water System

Waterworks # 220008131
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st 2019

Issued: February 13, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at the [City of Kawartha Lakes website](http://www.kawarthalakes.ca). (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 220008131

Drinking Water System Name: Western Trent/Palmina DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	May 7, 2019	Announced-Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Western Trent/Palmina Water Treatment Plant is supplied with raw groundwater from two GUDI wells: Well # 1 (Palmina Well) and Well # 2 (Western Trent Well).

Treatment

The treatment system consists of the following:

- Two drilled groundwater production wells deemed GUDI
- Raw and treated water flow meters
- Cartridge filtration system
- Chlorine contact chamber
- Treated water storage reservoir
- Two vertical turbine high lift pumps
- Chemical feed system consisting of four metering pumps for pre and post-chlorination and two sodium hypochlorite storage tanks with spill containment
- Standby power generator on site

Issued: February 13, 2020

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents identified during the reporting period.

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

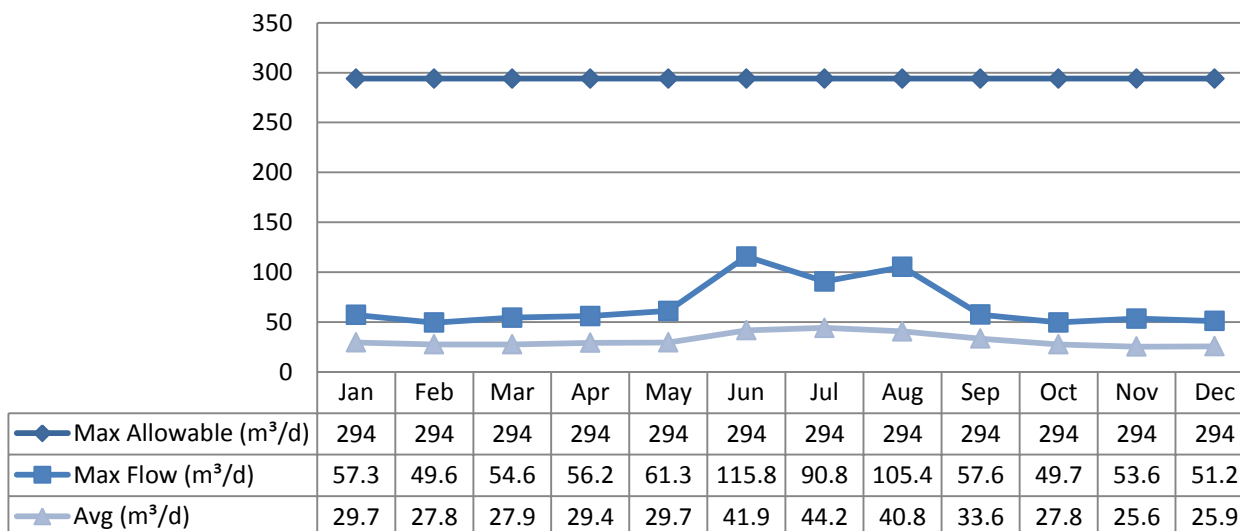
The Western Trent/Palmina Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

The Raw Water takings are regulated by the Permit to Take Water (PTTW). 2019 Raw Flow Data was submitted to the Ministry electronically under permit PTTW # 2180-B4CKK3. The confirmation for the data that was submitted is attached in Appendix A.

Total Monthly Flows (m³/d)

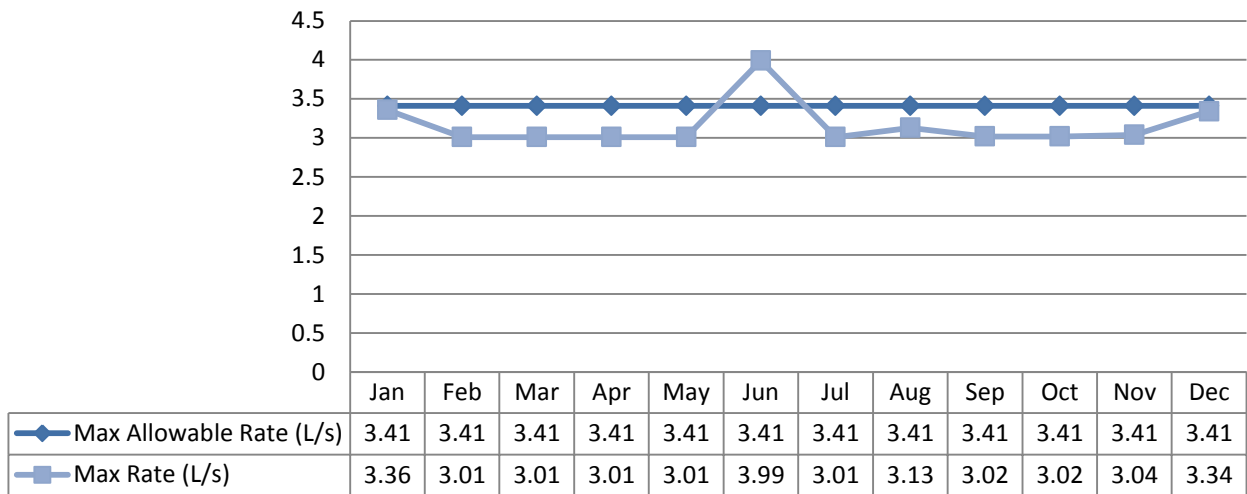
Max Allowable PTTW- Well #1



Issued: February 13, 2020

Monthly Rated Flows (L/s)

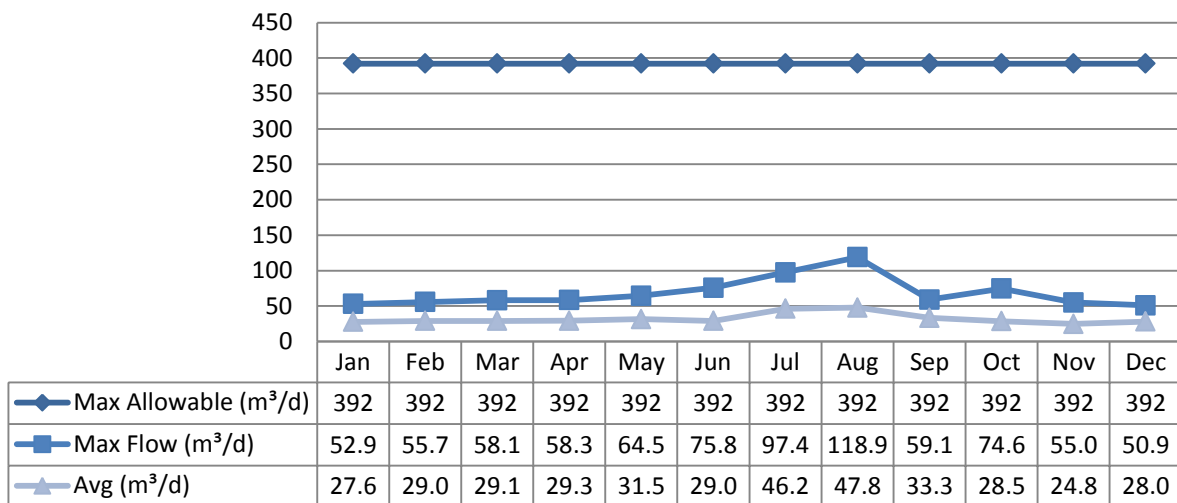
Max allowable rate – PTTW- Well #1



Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s). The spike in June was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

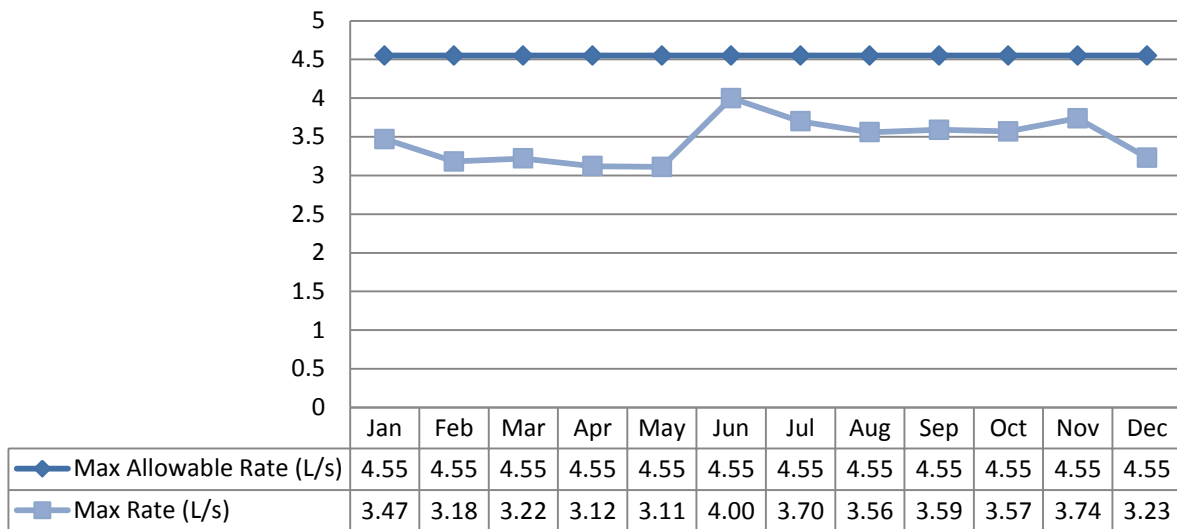
Max Allowable PTTW- Well #2



Issued: February 13, 2020

Monthly Rated Flows (L/s)

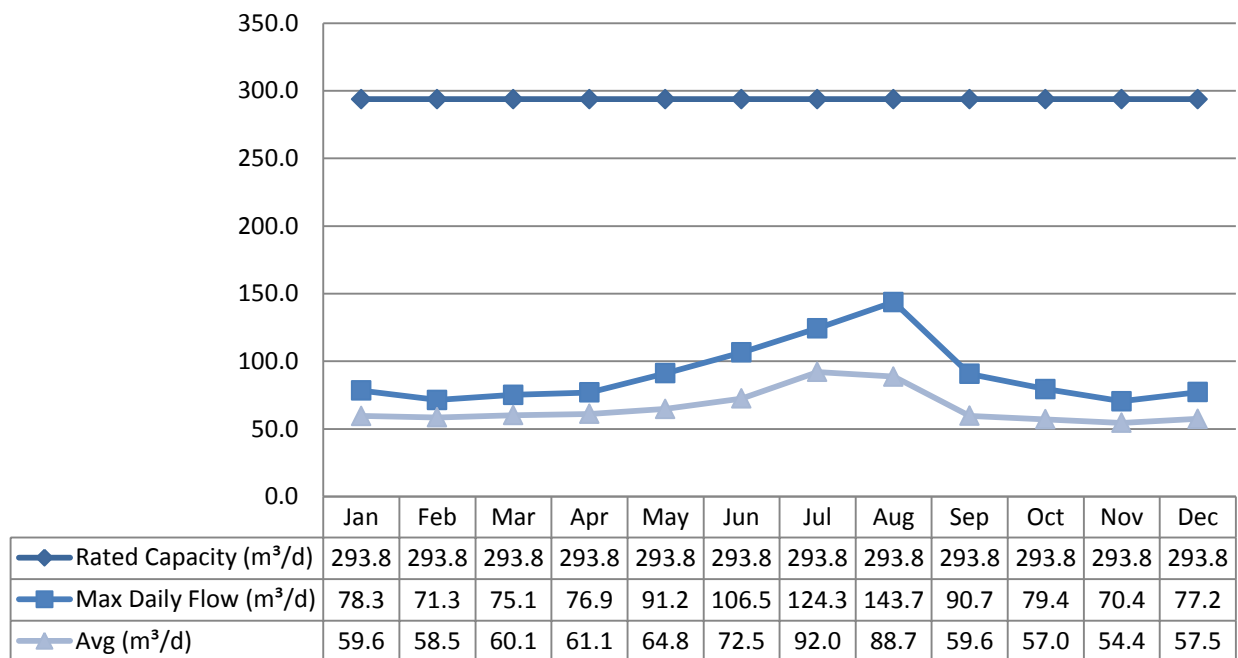
Max allowable rate – PTTW- Well #2

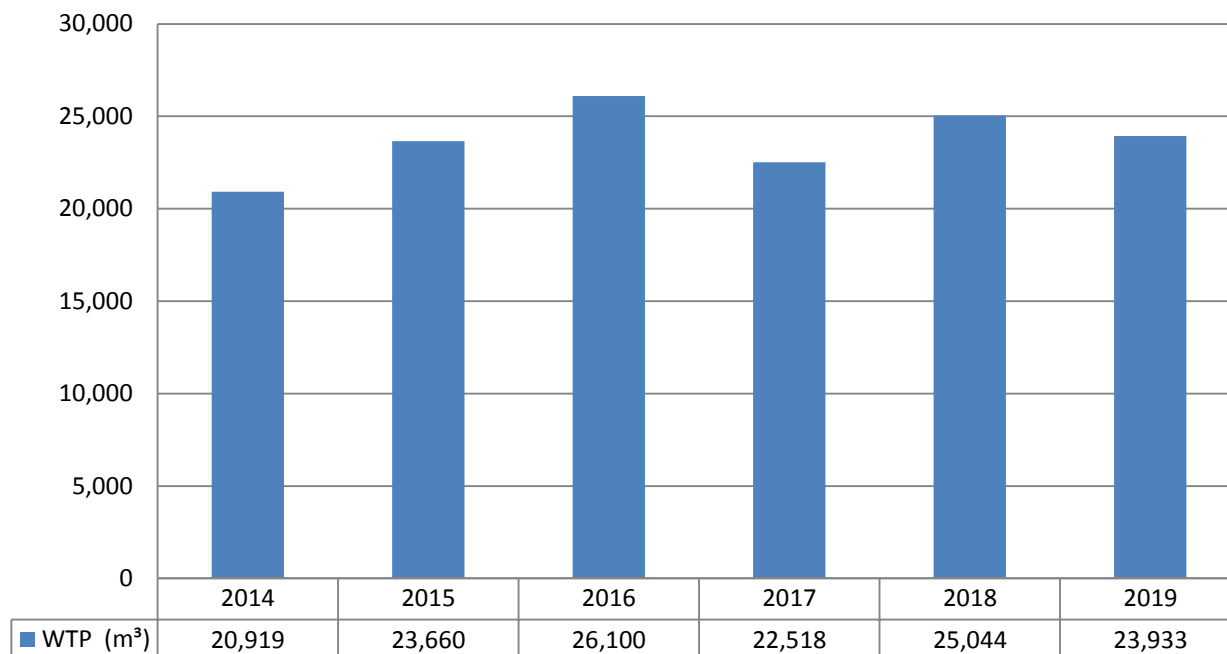
**Treated Water Flows**

The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity - MDWL



Annual Total Flow ComparisonTotal Annual m³

NOTE: 2014 data for March to December as DWS operated by the City until Feb 2014.

Regulatory Sample Results Summary**Microbiological Testing**

Location	No. of Samples Collected	Range of E.coli Results MIN	Range of E.coli Results MAX	Range of Total Coliform Results MIN	Range of Total Coliform Results MAX	Range of HPC Results MIN	Range of HPC Results MAX
Raw Well 1	52	0	0	0	4		
Raw Well 2	54	0	2	0	20		
Treated	52	0	0	0	0	0	4
Distribution	155	0	0	0	0	0	2

Operational Testing

Parameter	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Filter 1 (NTU)	8760	0.00	1.50
Turbidity Filter 2 (NTU)	8760	0.00	1.50
Chlorine	8760	0.00	4.91
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Issued: February 13, 2020

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by online instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg.169/03
- MDL = Method Detection Limit

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Antimony: Sb (ug/L) - TW	2019/09/06	0.10	6.0	No	No
Arsenic: As (ug/L) - TW	2019/09/06	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2019/09/06	65.1	1000.0	No	No
Boron: B (ug/L) - TW	2019/09/06	67.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2019/09/06	0.01	5.0	No	No
Chromium: Cr (ug/L) - TW	2019/09/06	0.75	50.0	No	No
Mercury: Hg (ug/L) - TW	2019/09/06	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2019/09/06	<MDL 0.04	50.0	No	No
Uranium: U (ug/L) - TW	2019/09/06	0.288	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2018/12/03	0.21	1.5	No	No
Nitrite (mg/L) - TW	2019/01/09	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2018/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/09	0.101	10.0	No	No
Nitrate (mg/L) - TW	2019/04/08	0.115	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.093	10.0	No	No
Nitrate (mg/L) - TW	2018/10/07	0.508	10.0	No	No
Sodium: Na (mg/L) - TW	2018/12/07	18.1	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O. Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Parameter (Distribution System)	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC	No. of Exceedances
Alkalinity (mg/L)	2	2	203	217	N/A	N/A
pH	2	2	7.28	7.51	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O. Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances ½ MAC
Alachlor (ug/L) - TW	2019/09/06	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2019/09/06	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2019/09/06	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2019/09/06	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2019/09/06	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2019/09/06	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2019/09/06	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2019/09/06	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2019/09/06	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2019/09/06	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2019/09/06	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2019/09/06	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2019/09/06	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2019/09/06	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2019/09/06	<MDL 0.35	5.00	No	No

Issued: February 13, 2020

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances $\frac{1}{2}$ MAC
1,1-Dichloroethylene (ug/L) - TW	2019/09/06	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2019/09/06	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2019/09/06	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2019/09/06	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2019/09/06	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2019/09/06	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2019/09/06	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2019/09/06	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2019/09/06	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2019/09/06	<MDL 0.02	190.00	No	No
Metolachlor (ug/L) - TW	2019/09/06	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2019/09/06	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2019/09/06	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2019/09/06	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2019/09/06	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2019/09/06	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2019/09/06	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2019/09/06	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2019/09/06	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2019/09/06	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2019/09/06	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2019/09/06	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2019/09/06	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2019/09/06	<MDL 0.01	230.00	No	No

Issued: February 13, 2020

Parameter (Treated Water)	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances MAC	No. of Exceedances $\frac{1}{2}$ MAC
Trichloroethylene (ug/L) - TW	2019/09/06	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2019/09/06	<MDL 0.25	5.00	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2019/09/06	<MDL 0.12	100.00	No	No
Trifluralin (ug/L) - TW	2019/09/06	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2019/09/06	<MDL 0.17	1.00	No	No
Distribution Water					No
Trihalomethane: Total (ug/L) Annual Average - DW	2019	48	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	11	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples


There was no additional sampling required.

Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
1138034	Water Damage to Filter Turbidity Analyzer Sensor AIT03 Replaced under Warranty
1217807	ScadaPack Upgrade
1259163	Air Relief Valve Rebuild Kit
1380811	Repaired Leaking Pressure Regulating Valve
767846	Clear well inspected and cleaned

Appendix A

WTRS Data Submission Confirmation



Ministry of the Environment,
Conservation and Parks

| WT DATA | REPORTS | SEARCH WT DATA | ADMINISTRATION | USER PROFILE | CONTACT US | HELP | HOME | LOGOUT |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 2180-B4CKK3
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 6, 2020 2:40 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Woodfield Drinking Water System

Waterworks # 220012251
System Category – Small Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 18, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residences. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office and online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca). Notification that reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 12 Peel Street in Lindsay, Ontario.

Compliance Report Card

Drinking Water System Number: 220012251

Drinking Water System Name: Woodfield DWS

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	June 26, 2019	Announced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The water supply for the DWS comes from two (2) groundwater wells that are designated as non-GUDI (groundwater under direct influence).

Treatment

The treatment system consists of the following:

- Sodium hypochlorite disinfection system
- Iron sequestering system
- Hydropneumatic tanks
- Contact pipe
- Stand-by diesel generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Sodium Silicate	Iron Sequestering	Brenntag

Summary of Non-Compliance**Adverse Water Quality Incidents**

There were no adverse water quality incidents during the reporting period.

Non-Compliance(s)

There were no non-compliances identified during the reporting period.

Non-Compliance(s) Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during the reporting period.

Flows

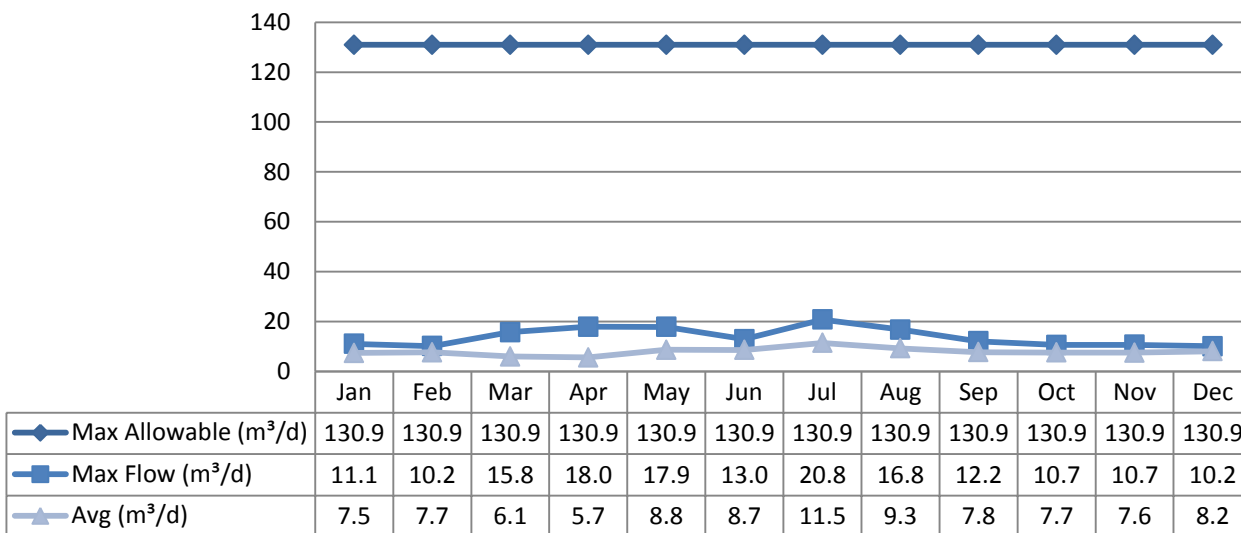
The Woodfield Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

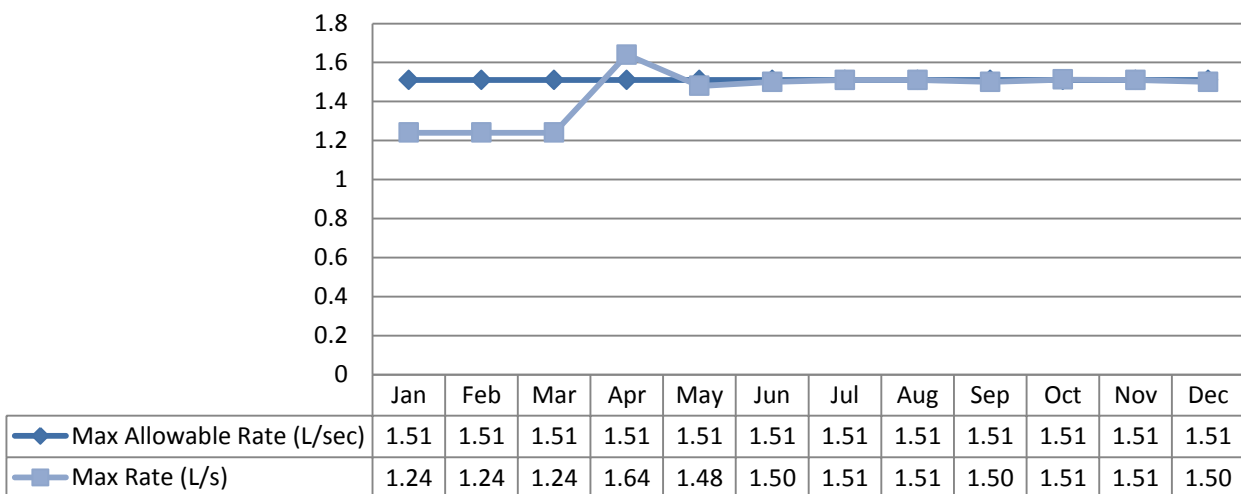
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #8680-AYSHVM. The confirmation of the data that was submitted are attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #1

Monthly Rated Flows (L/s)

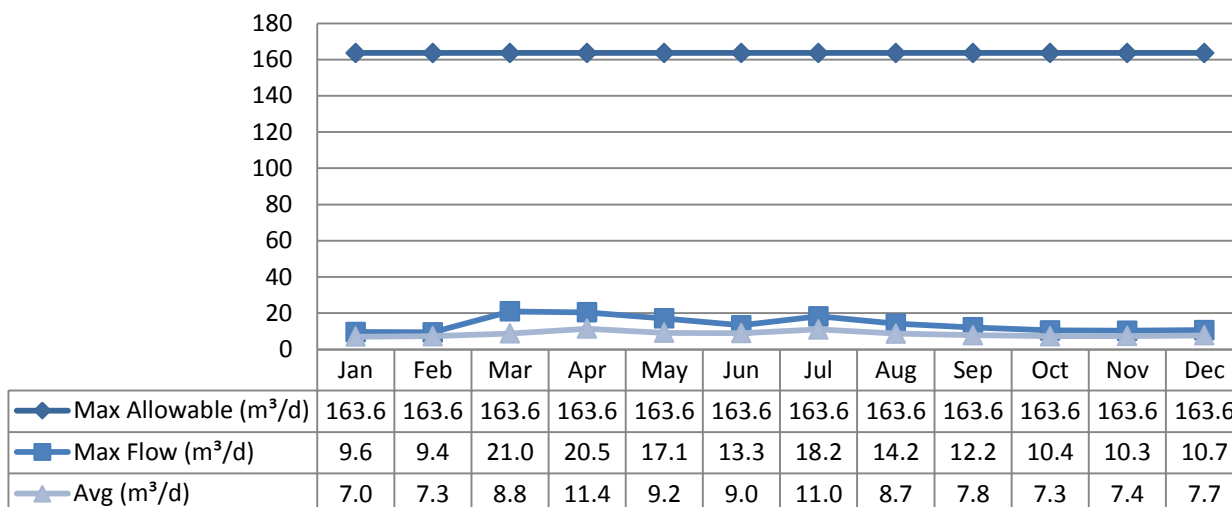
Max allowable rate – PTTW – Well #1



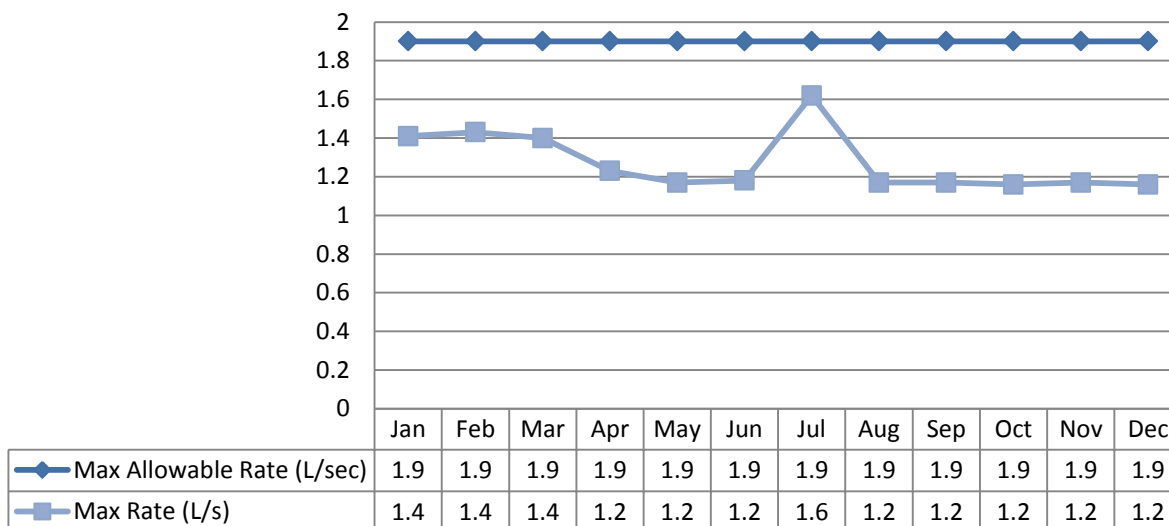
Note: The above table shows there was an exceedance in instantaneous peak flow rate (L/s). The spike in April was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW – Well #2

Monthly Rated Flows (L/s)

Max allowable rate – PTTW – Well #2

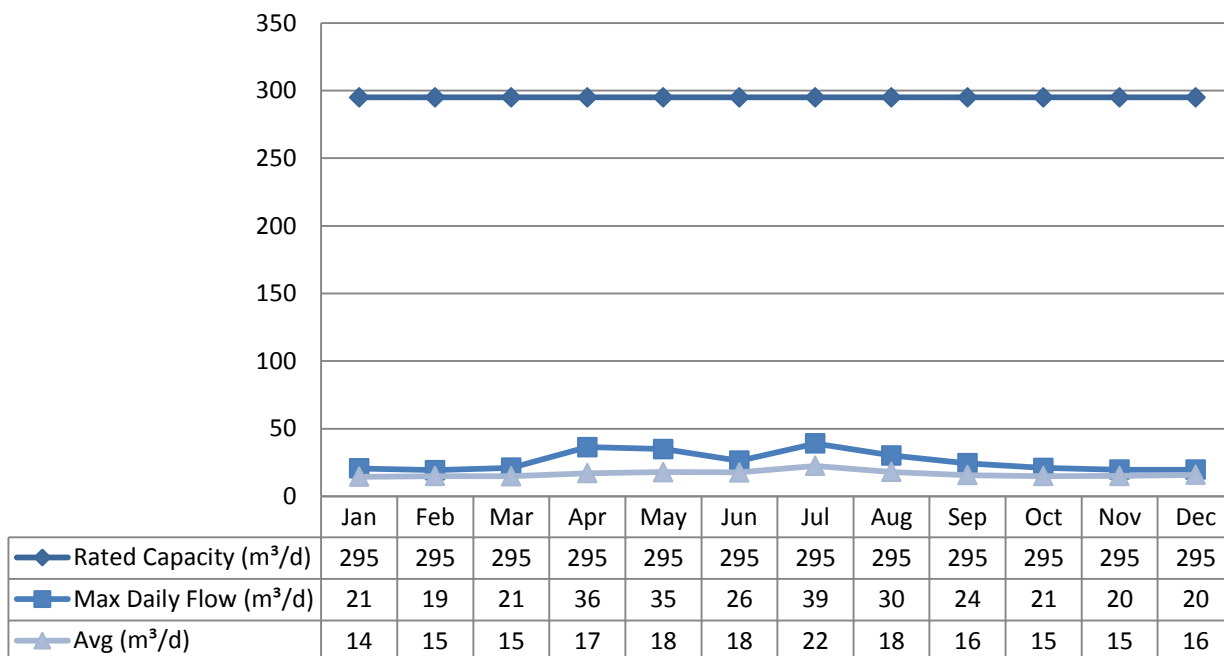


Treated Water Flows

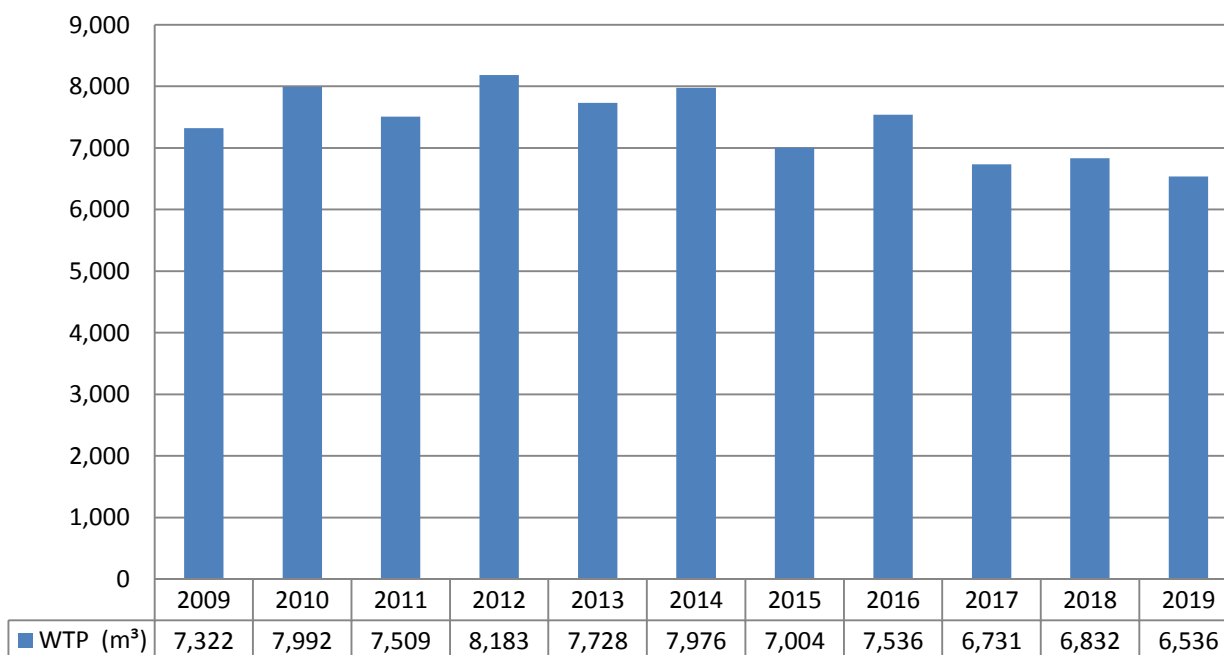
The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated Flows

Rated Capacity – MDWL

**Annual Total Flow Comparison**

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Source	No. of Samples	Range of E. coli Results (MIN)	Range of E. coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	29	0	0	0	0		
Raw Well 2	29	0	0	0	0		
Treated	N/A						
Distribution	52	0	0	0	0	0	7

Operational Testing

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
Turbidity Well 1 (NTU)	12	0.15	0.59
Turbidity Well 2 (NTU)	12	0.1	0.39
Chlorine	8760	0	5.00
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every five years. Nitrate and Nitrite are tested quarterly and the metals are tested every three years as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Parameter	Sample Date (yy/mm/dd)	Sample Result	MAC	Exceedances MAC	Exceedances ½ MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2015/01/05	<MDL 0.02	6.0	No	No
Arsenic: As (ug/L) - TW	2015/01/05	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2015/01/05	193.0	1000.0	No	No
Boron: B (ug/L) - TW	2015/01/05	22.8	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2015/01/05	<MDL 0.003	5.0	No	No
Chromium: Cr (ug/L) - TW	2015/01/05	<MDL 0.03	50.0	No	No
Mercury: Hg (ug/L) - TW	2015/01/05	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2015/01/05	<MDL 1.0	50.0	No	No
Uranium: U (ug/L) - TW	2015/01/05	0.014	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2015/01/05	0.15	1.5	No	No
Nitrite (mg/L) - TW	2019/01/07	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/04/01	0.004	1.0	No	No
Nitrite (mg/L) - TW	2019/07/02	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2019/01/07	0.011	10.0	No	No
Nitrate (mg/L) - TW	2019/04/01	0.009	10.0	No	No
Nitrate (mg/L) - TW	2019/07/02	0.008	10.0	No	No
Nitrate (mg/L) - TW	2019/10/07	0.011	10.0	No	No
Sodium: Na (mg/L) - TW	2020/01/07	17.8	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAC)	MAC	No. of Exceedances
Alkalinity (mg/L)	2	2	181	188	N/A	N/A
pH	2	2	8.09	8.40	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date (yyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (MIN)
Alachlor (ug/L) - TW	2015/01/05	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2015/01/05	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2015/01/05	<MDL 0.02	20.00	No	No
Benzene (ug/L) – TW	2015/01/05	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2015/01/05	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2015/01/05	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2015/01/05	<MDL 0.01	90.00	No	No
Carbofuran (ug/L) - TW	2015/01/05	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2015/01/05	<MDL 0.16	2.00	No	No
Chlorpyrifos (ug/L) - TW	2015/01/05	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2015/01/05	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2015/01/05	<MDL 0.2	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2015/01/05	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2015/01/05	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2015/01/05	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2015/01/05	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2015/01/05	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2015/01/05	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2015/01/05	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2015/01/05	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2015/01/05	<MDL 0.03	20.00	No	No
Diquat (ug/L) - TW	2015/01/05	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2015/01/05	<MDL 0.03	150.00	No	No

Parameter	Sample Date (yyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (MIN)
Glyphosate (ug/L) - TW	2015/01/05	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2015/01/05	<MDL 0.02	190.00	No	No
2-Methyl- 4chlorophenoxyacetic Acid (MCPA)	N/A				
Metolachlor (ug/L) - TW	2015/01/05	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2015/01/05	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2015/01/05	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2015/01/05	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2015/01/05	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2015/01/05	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2015/01/05	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2015/01/05	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2015/01/05	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2015/01/05	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2015/01/05	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2015/01/05	<MDL 0.35	10.00	No	No
2,3,4,6- Tetrachlorophenol (ug/L) - TW	2015/01/05	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2015/01/05	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2015/01/05	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2015/01/05	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2015/01/05	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2015/01/05	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2019	22.0	100	No	No
HAA Total (ug/L) Annual Average - DW	2019	5.3	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O. Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples


There were no additional legislated samples required to report during this reporting period.


Major Maintenance Summary incurred to install, repair or replace required equipment

WO #	Description
699898	Replace Well Pumps and Install VFD's

Appendix A

WTRS Submission Confirmation





Ministry of the Environment,
Conservation and Parks

| [WT DATA](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 8680-AYSHVM
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 11, 2020 10:35 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

[Print Confirmation](#) [Return to Main Page](#)

CITY OF KAWARTHA LAKES | 2020/02/11
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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Woodville Drinking Water System

Waterworks # 210001077
System Category – Large Municipal Residential

Annual Water Report

Prepared For: The City of Kawartha Lakes

Reporting Period of January 1st – December 31st, 2019

Issued: February 20, 2020

Revision: 0

Operating Authorities:



This report has been prepared to satisfy the annual reporting requirements in
O. Reg.170/03 Section 11 and Schedule 22

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Report Availability

This system does not serve more than 10,000 residents. The annual reports are available to residents free of charge at the City of Kawartha Lakes – Public Works Administration Office located at 12 Peel Street in Lindsay, Ontario. The reports are also available online at [the City's website](http://www.kawarthalakes.ca) (www.kawarthalakes.ca)

Compliance Report Card

Drinking Water System Number: 210001077

Drinking Water System Name: Woodville WTP

Drinking Water System Owner: City of Kawartha Lakes

Drinking Water System Category: Large Municipal Residential

Period Being Reported: January 1, 2019 - December 31, 2019

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	April 16, 2019	Unannounced - Focused Drinking Water Inspection - Final Inspection Rating of 100%
AWQI's	0		
Number of Non-Compliances	0		
Number of Boil Water Advisories	0		

System Process Description

Raw Source

The Woodville Water Treatment Plant is supplied with two GUDI wells (Wells 1 and 2). Well 3 is a pond makeup well.

Treatment

The treatment system consists of the following:

- Two parallel treatment trains, each containing two sets of cartridge filters
- Sodium hypochlorite feed system with two metering pumps
- Three turbidity analyzers: raw water and one per filtration train
- Two chlorine residuals analyzers: immediately following the injection point and treated water

- Two flow meters: raw and treated
- Chlorine contact pipe
- SCADA system
- Water storage standpipe with a capacity of 1160 m3
- Standby generator

Treatment Chemicals used during the reporting year

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag

Summary of Non-Compliance

Adverse Water Quality Incidents

There were no adverse water quality incidents identified during the reporting period.

Non-Compliance

There were no non-compliances identified during the reporting period.

Non-Compliance Identified in a Ministry Inspection

There were no non compliances identified in a Ministry Inspection during the reporting period.

Flows

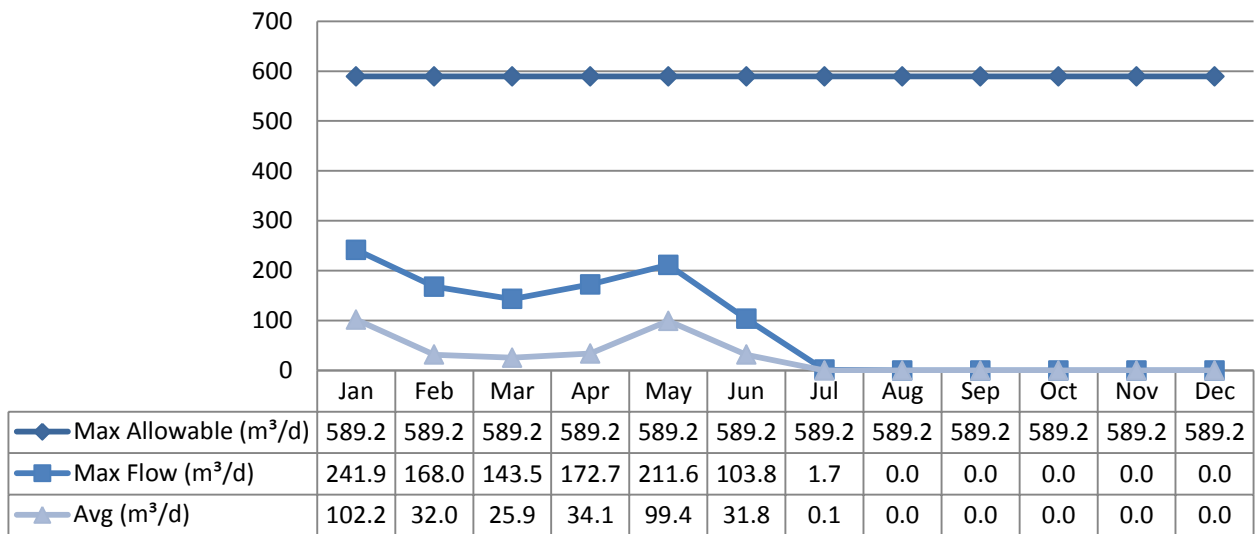
The Woodville Drinking Water System is operating on average under half the rated capacity.

Raw Water Flows

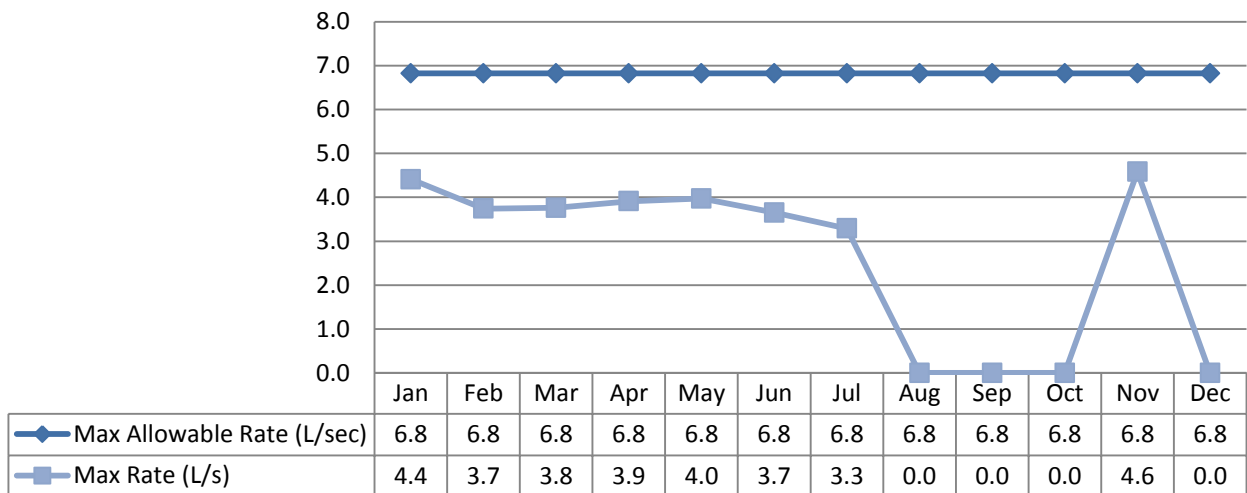
The Raw Water flows are regulated under the Permit to Take Water. 2019 Raw Flow Data was submitted to the Ministry electronically under permit #1207-AHKRXV. The confirmation and a copy of the data that was submitted are attached in Appendix A.

Total Monthly Flows (m³/d)

Max Allowable PTTW- Well #1

Monthly Rated Flows (L/s)

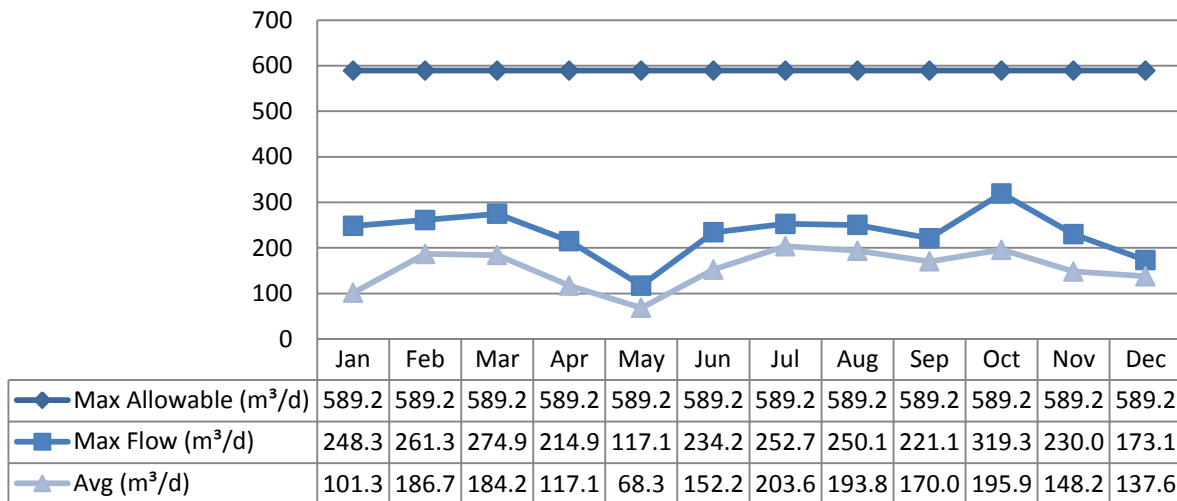
Max allowable rate – PTTW- Well #1



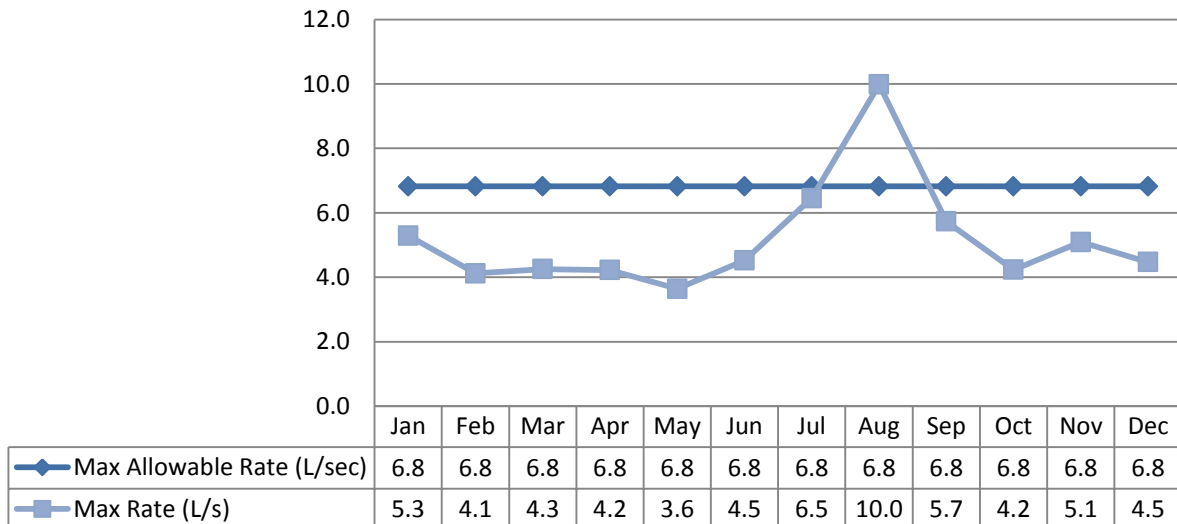
Note: Scheduled Flow Meter calibration occurred in August 2019.

Total Monthly Flows (m³/d)

Max Allowable PTTW- Well #2

Monthly Rated Flows (L/s)

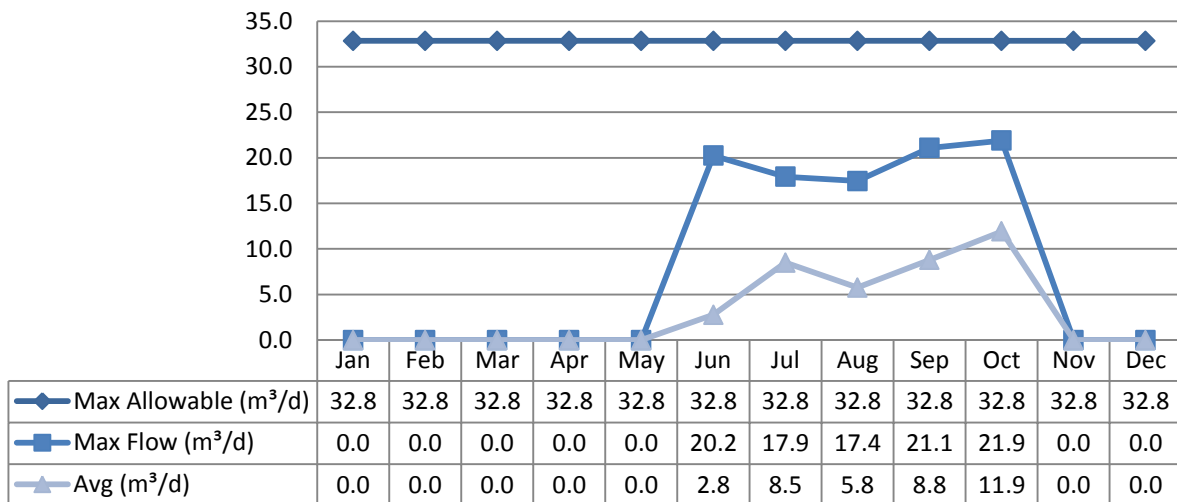
Max allowable rate – PTTW- Well #2



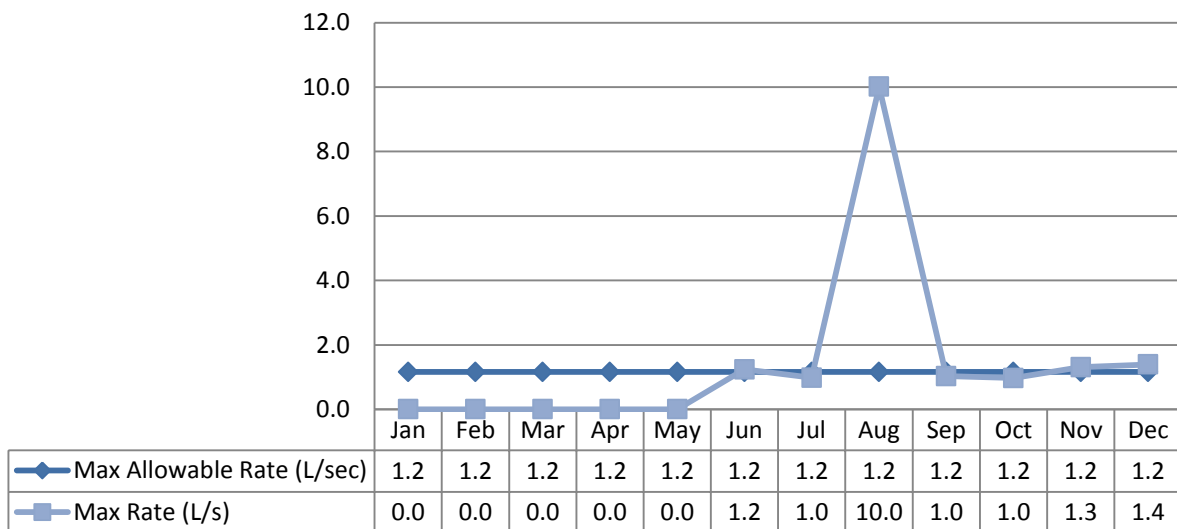
Note: The significant spike in August was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW- Well #3 (Pond Makeup Well)

Monthly Rated Flows (L/s)

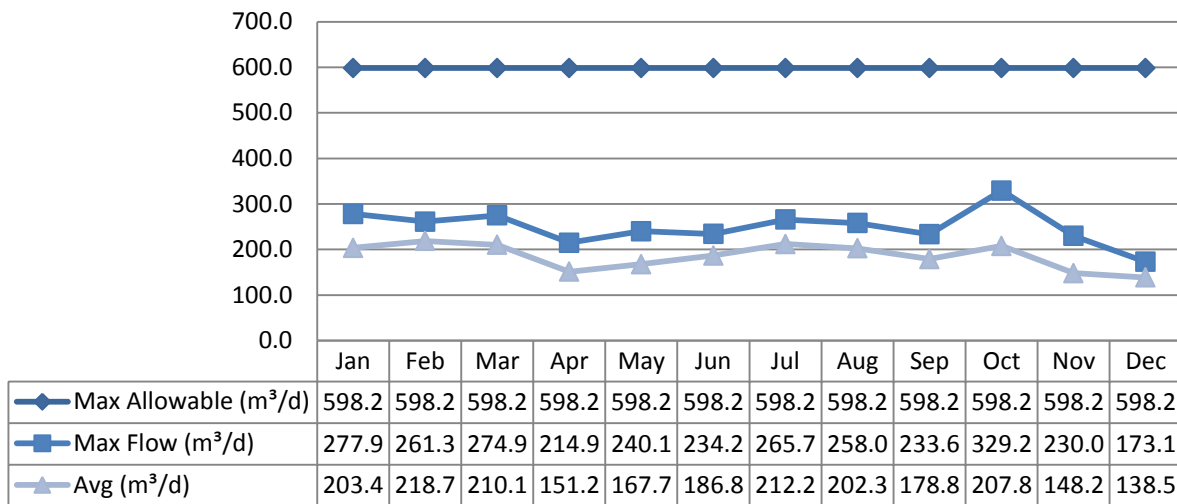
Max allowable rate – PTTW- Well #3



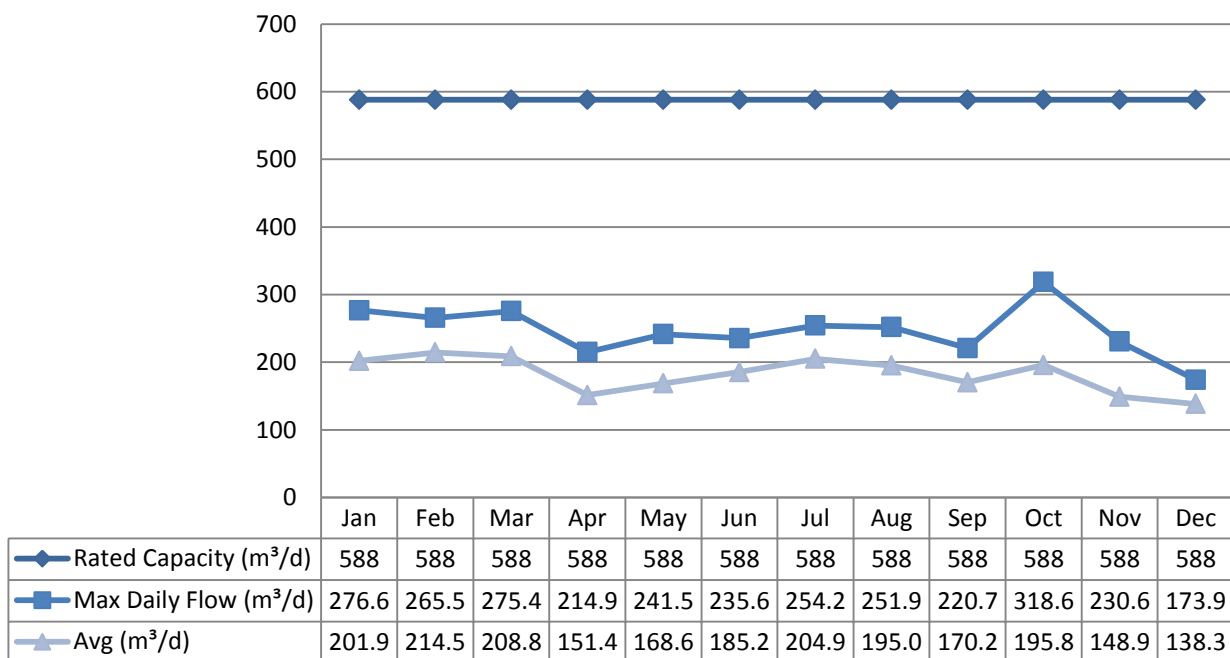
Note: The significant spike in August was due to scheduled Flow Meter calibration.

Total Monthly Flows (m³/d)

Max Allowable PTTW- Total Raw

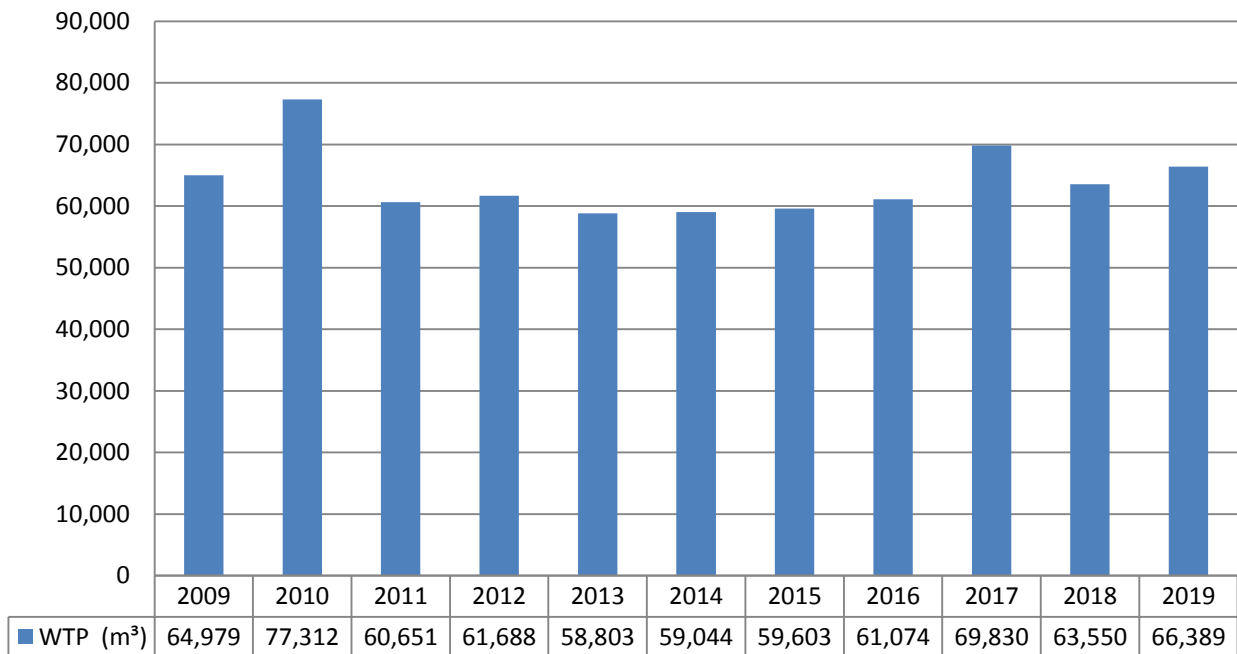
Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

Monthly Rated FlowsRated Capacity - MDWL

Annual Total Flow Comparison

Total Annual m³



Regulatory Sample Results Summary

Microbiological Testing

Parameter	No. of Samples Collected	Range of E.coli Results (MIN)	Range of E.coli Results (MAX)	Range of Total Coliform Results (MIN)	Range of Total Coliform Results (MAX)	Range of HPC Results (MIN)	Range of HPC Results (MAX)
Raw Well 1	52	0	0	0	12		
Raw Well 2	52	0	1	0	4		
Treated	52	0	0	0	0	0	1
Distribution	159	0	0	0	0	0	3

Operational Testing

Parameter	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Turbidity Well 1 (NTU)	56	0.11	9.99
Turbidity Well 2 (NTU)	56	0.08	1.5
Chlorine	8760	0	5.0
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg.170/03.

Inorganic Parameters

These parameters are tested as a requirement under O.Reg.170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg.169/03
- MDL = Method Detection Limit

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances (MAC)	No. of Exceedances (1/2 MAC)
Treated Water					
Antimony: Sb (ug/L)	2019/01/08	0.07	6.0	No	No
Arsenic: As (ug/L)	2019/01/08	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L)	2019/01/08	37.4	1000.0	No	No
Boron: B (ug/L)	2019/01/08	12.0	5000.0	No	No
Cadmium: Cd (ug/L)	2019/01/08	0.004	5.0	No	No
Chromium: Cr (ug/L)	2019/01/08	0.18	50.0	No	No
Mercury: Hg (ug/L)	2019/01/08	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L)	2019/01/08	0.16	50.0	No	No
Uranium: U (ug/L)	2019/01/08	0.567	20.0	No	No
Additional Inorganics					
Fluoride (mg/L)	2018/01/15	<MDL 0.06	1.5	No	No
Nitrite (mg/L)	2019/01/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/04/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/07/08	<MDL 0.003	1.0	No	No
Nitrite (mg/L)	2019/10/07	<MDL 0.003	1.0	No	No
Nitrate (mg/L)	2019/01/08	1.95	10.0	No	No
Nitrate (mg/L)	2019/04/03	1.59	10.0	No	No
Nitrate (mg/L)	2019/07/08	1.87	10.0	No	No
Nitrate (mg/L)	2019/10/07	2.03	10.0	No	No
Sodium: Na (mg/L)	2018/01/15	8.22	20*	No	No

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg.170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	No. of Sampling Points	No. of Samples	Range of Results (MIN)	Range of Results (MAX)	MAC (ug/L)	No. of Exceedances
Alkalinity (mg/L)	4	4	243	250	N/A	N/A
pH	4	4	7.16	7.53	N/A	N/A
Lead (ug/l)	N/A	N/A				

Organic Parameters

These parameters are tested annually as a requirement under O.Reg.170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	No. of Exceedances
Treated Water					
Alachlor (ug/L)	2019/01/09	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L)	2019/01/09	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L)	2019/01/09	<MDL 0.05	20.0	No	No
Benzene (ug/L)	2019/01/08	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L)	2019/01/09	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L)	2019/01/09	<MDL 0.33	5.0	No	No
Carbaryl (ug/L)	2019/01/09	<MDL 0.05	90.0	No	No
Carbofuran (ug/L)	2019/01/09	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L)	2019/01/08	<MDL 0.16	2.0	No	No
Chlorpyrifos (ug/L)	2019/01/09	<MDL 0.02	90.0	No	No
Diazinon (ug/L)	2019/01/09	<MDL 0.02	20.0	No	No
Dicamba (ug/L)	2019/01/09	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene	2019/01/08	<MDL	200.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	No. of Exceedances
(ug/L)		0.41			
1,4-Dichlorobenzene (ug/L)	2019/01/08	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L)	2019/01/08	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L)	2019/01/08	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L)	2019/01/08	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L)	2019/01/09	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)	2019/01/09	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L)	2019/01/09	<MDL 0.4	9.0	No	No
Dimethoate (ug/L)	2019/01/09	<MDL 0.03	20.0	No	No
Diquat (ug/L)	2019/01/08	<MDL 1.0	70.0	No	No
Diuron (ug/L)	2019/01/09	<MDL 0.03	150.0	No	No
Glyphosate (ug/L)	2019/01/08	<MDL 1.0	280.0	No	No
Malathion (ug/L)	2019/01/09	<MDL 0.02	190.0	No	No
Metolachlor (ug/L)	2019/01/09	<MDL 0.01	50.0	No	No
Metribuzin (ug/L)	2019/01/09	<MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)	2019/01/08	<MDL 0.3	80.0	No	No
Paraquat (ug/L)	2019/01/08	<MDL 1.0	10.0	No	No
PCB (ug/L)	2019/01/09	<MDL 0.04	3.0	No	No
Pentachlorophenol (ug/L)	2019/01/09	<MDL 0.15	60.0	No	No
Phorate (ug/L)	2019/01/09	<MDL 0.01	2.0	No	No
Picloram (ug/L)	2019/01/09	<MDL 1.0	190.0	No	No
Prometryne (ug/L)	2019/01/09	<MDL 0.03	1.0	No	No
Simazine (ug/L)	2019/01/09	<MDL	10.0	No	No

Parameter	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	No. of Exceedances
		0.01			
Terbufos (ug/L) -	2019/01/09	<MDL 0.01	1.0	No	No
Tetrachloroethylene (ug/L)	2019/01/08	<MDL 0.35	10.0	No	No
2,3,4,6- Tetrachlorophenol (ug/L)	2019/01/09	<MDL 0.2	100.0	No	No
Triallate (ug/L)	2019/01/09	<MDL 0.01	230.0	No	No
Trichloroethylene (ug/L)	2019/01/08	<MDL 0.44	5.0	No	No
2,4,6-Trichlorophenol (ug/L)	2019/01/09	<MDL 0.25	5.0	No	No
2-methyl-4- chlorophenoxyacetic acid (MCPA) (ug/L)	2019/01/09	<MDL 0.12	100.0	No	No
Trifluralin (ug/L)	2019/01/09	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L)	2019/01/08	<MDL 0.17	1.0	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average	2019	22.0	100.00	No	No
HAA Total (ug/L) Annual Average	2019	16.7	N/A	N/A	N/A

MAC = Maximum Allowable Concentration as per O.Reg.169/03

MDL = Method Detection Limit

Additional Legislated Samples

Additional Samples required under Permit to Take Water 1207-AHKRZV.

Parameter	Location	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Nitrite (mg/L)	Well 1	15	<MDL 0.003	0.003
Nitrite (mg/L)	Well 2	15	<MDL 0.003	<MDL 0.003
Nitrate (mg/L)	Well 1	15	1.54	2.57
Nitrate (mg/L)	Well 2	15	1.51	2.29
Nitrites + Nitrates (mg/L)	Well 1	13	1.54	2.57
Nitrites + Nitrates (mg/L)	Well 2	13	1.51	2.29
Calcium (mg/L)	Well 1	2	78.70	93.60
Calcium (mg/L)	Well 2	2	79.90	97.40
Magnesium (mg/L)	Well 1	2	8.96	10.30
Magnesium (mg/L)	Well 2	2	9.18	11.3
Sodium (mg/L)	Well 1	2	4.72	5.49
Sodium (mg/L)	Well 2	2	5.11	6.54
Potassium (mg/L)	Well 1	2	1.22	1.67
Potassium (mg/L)	Well 2	2	1.37	1.83
Chloride (mg/L)	Well 1	2	9.10	14.0
Chloride (mg/L)	Well 2	2	13.0	18.0
Sulphate (mg/L)	Well 1	2	15	21
Sulphate (mg/L)	Well 2	2	18	25
Alkalinity (mg/L as CaCO ₃)	Well 1	4	220	250
Alkalinity (mg/L as CaCO ₃)	Well 2	4	216	250
pH	Well 1	2	8.01	8.16
pH	Well 2	2	7.90	8.23
Ammonia+Ammonium (N) (mg/L)	Well 1	13	<MDL 0.04	0.11
Ammonia+Ammonium (N) (mg/L)	Well 2	13	<MDL 0.04	0.17
Total Kjeldahl Nitrogen (mg/L)	Well 1	13	0.05	0.31
Total Kjeldahl Nitrogen (mg/L)	Well 2	13	<MDL 0.05	0.60
Conductivity (uS/cm)	Well 1	2	496	563
Conductivity (uS/cm)	Well 2	2	509	543
Total Dissolved Solids (mg/L)	Well 1	2	294	334
Total Dissolved Solids (mg/L)	Well 2	2	289	337

Parameter	Location	No. of Samples Collected	Range of Results (MIN)	Range of Results (MAX)
Hydrogen Sulphide (mg/L)	Well 1	2	<MDL 0.006	MDL<0.006
Hydrogen Sulphide (mg/L)	Well 2	2	<MDL 0.006	MDL<0.006
Ion Ratio	Well 1	2	0.43	5.63
Ion Ratio	Well 2	2	1.18	1.20


Major Maintenance Summary incurred to install, repair or replace required equipment


W.O #: 627976

Description: Well Pump Variable Frequency Drive Installation

Appendix A

WTRS Data and Submission Confirmation





Ministry of the Environment,
Conservation and Parks

| WT DATA | REPORTS | SEARCH WT DATA | ADMINISTRATION | USER PROFILE | CONTACT US | HELP | HOME | LOGOUT |

Location: [WTRS](#) / [WT DATA](#) / [Edit Submitted WT Records](#)WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 1207-AHKRXV
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 5, 2020 1:39 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

The Corporation of the City of Kawartha Lakes

Council Report

Report Number CS2020-005

Meeting Date: March 24, 2020

Title: Release of Woodville Legacy C.H.E.S.T. Funds

Ward Number: Four

Author and Title: LeAnn Donnelly, Executive Assistant Community Services

Recommendation(s):

That Report CS2020-005, **Release of Woodville Legacy C.H.E.S.T. Funds**, be received;

That the Woodville Lions Club be approved for funding in the amount of \$130,000.00 with the allocation to come from the Woodville Legacy C.H.E.S.T. Reserve (3.24320).

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

A request for the disposition of Woodville residual C.H.E.S.T. funding has been received by Community Services Administration on behalf of community interests. The local Councillor is supportive of the request. Total funding requested is \$130,000. There is \$219,770.72 residual funding available for distribution.

Residual fund distributions are treated in the same manner, and subject to the same criteria as the ongoing C.H.E.S.T. funding programs in Lindsay and Bobcaygeon. The distribution of these funds is also subject to requirement for a full reconciliation of costs at the end of the project.

This report is brought forward to Council to approve the release of funds from the Woodville C.H.E.S.T. Fund Reserve (3.24330).

Rationale:

Since its inception in 1968 the Woodville Lions Club has worked toward their purpose of promoting the general welfare of the community through their many worthwhile projects. Throughout the years the Woodville Community Centre and Woodville Park have continued to benefit from the Lions Club with projects such as the installation of an artificial ice plant in 1969, assisting with dismantling the former arena, and extensive upgrades to the ballpark over the years.

The Woodville Lions Club is seeking \$130,000.00 to install two accessible washrooms and renovate the current warm viewing area. The total cost of the project is expected to be approximately \$200,000. The Lions Club has committed to contributing \$25,000 as well as conduct a fundraising campaign to generate the remaining funds required.

Representatives from the Lions Club have been working with Parks, Recreation and Culture staff to coordinate the facility needs and construction logistics and will continue to do so until the project is complete.

The construction period for the project is currently planned for April – August 2021. Funding is being requested at this time for planning purposes.

Other Alternatives Considered:

This report is brought to Council at the request of the Ward Councillor in keeping with the established policy for disposition of residual C.H.E.S.T. funds in the absence of a community committee. No alternative has been considered.

Financial/Operation Impacts:

As of December 31, 2019, the Woodville Legacy C.H.E.S.T. Fund has residual funds remaining in the amount of \$219,770.72. With the recommendations outlined within this report if approved will leave a balance of \$89,770.72 for further distribution in future years.

Relationship of Recommendation(s) To The 2020-2023 Strategic Plan:

The recommendations within this report directly align with all Strategic Goals, through our Value of Collaboration namely:

- Goal 1 – A Vibrant and Growing Economy
- Goal 2 – An Exceptional Quality of Life
- Goal 3 – A Healthy Environment
- Goal 4 – Good Government

Review of Accessibility Implications of Any Development or Policy:

There are no accessibility implications associated with this report.

Servicing Implications:

There are no servicing implications associated with this report.

Consultations:

Councillor Veale

Treasury

Manager of Parks, Recreation, and Culture

Attachments:

N/A

Department Head E-Mail: cshanks@kawarthalakes.ca

Department Head: Craig Shanks, Director of Community Services

The Corporation of the City of Kawartha Lakes

Council Report

Report Number CS2020-006

Meeting Date: March 24, 2020

Title: Release of Kirkfield Legacy C.H.E.S.T. Funds

Ward Number: One

Author and Title: Craig Shanks, Director Community Services

Recommendation(s):

That Report CS2020-006, **Release of Kirkfield Legacy C.H.E.S.T. Funds**, be received;

That the Kirkfield Lions Club and Kirkfield and District Historical Society be approved for funding in the amount of \$119,446.58 with the allocation to come from the Kirkfield Legacy C.H.E.S.T. Reserve (3.24250).

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

A request for the disposition of Kirkfield residual C.H.E.S.T. funding has been received by Community Services Administration on behalf of community interests. The local Councillor is supportive of the request. Total funding requested is \$124,754.83. However the balance of this Reserve is \$119,446.58 so full funding cannot be contributed and the parties have stated that they understand that they will be required to supplement additional expenses beyond what the Fund can contribute. This will expend all funds from this Reserve and the Fund will be able to be closed.

Residual fund distributions are treated in the same manner, and subject to the same criteria as the ongoing C.H.E.S.T. funding programs in Lindsay and Bobcaygeon. The distribution of these funds is also subject to requirement for a full reconciliation of costs at the end of the project.

This report is brought forward to Council to approve the release of funds from the Kirkfield C.H.E.S.T. Fund Reserve (3.24250).

Rationale:

Since its inception in 1969 the Kirkfield Lions Club has worked toward their purpose of promoting the general welfare of the community through their many worthwhile projects. The Kirkfield and District Historical Society was founded in 2005 and for the past 15 years has been providing service to the community and area.

The Kirkfield Lions Club and the Kirkfield and District Historical Society have partnered to support and encourage each organization to deliver high quality services to address facility concerns, accessibility items, etc. The grant is seeking \$119,446.58. The total cost of the project is expected to be approximately \$124,754.83. The Organizations have committed to contributing the remaining funds required.

Attachments (Appendix A) have been provided on the project specifics and Organizations histories. The construction period for the project is currently planned for the 2020 Calendar year. All required quotes and estimates as well as financial statements of the parties have been provided.

Other Alternatives Considered:

This report is brought to Council at the request of the Ward Councillor in keeping with the established policy for disposition of residual C.H.E.S.T. funds in the absence of a community committee. No alternative has been considered.

Financial/Operation Impacts:

As of December 31, 2019, the Kirkfield Legacy C.H.E.S.T. Fund has residual funds remaining in the amount of \$119,446.58. With the recommendations outlined within this report if approved will expend all funds from this Reserve and staff will subsequently close out the account.

Relationship of Recommendation(s) To The 2020-2023 Strategic Plan:

The recommendations within this report directly align with all Strategic Goals, through our Value of Collaboration namely:

- Goal 1 – A Vibrant and Growing Economy
- Goal 2 – An Exceptional Quality of Life
- Goal 3 – A Healthy Environment
- Goal 4 – Good Government

Review of Accessibility Implications of Any Development or Policy:

There are no accessibility implications associated with this report.

Servicing Implications:

There are no servicing implications associated with this report.

Consultations:

Councillor Yeo

Treasury

Manager of Parks, Recreation, and Culture

Kirkfield Lions Club and Kirkfield and District Historical Society

Attachments:



CS2020-006
Appendix A.pdf

Department Head E-Mail: cshanks@kawarthalakes.ca

Department Head: Craig Shanks, Director of Community Services

Kirkfield Historical Society and Kirkfield Lions Club CHEST fund submission

Lions Club:

King's Heating	\$41, 550.10
Storage Container	\$ 5,000.00
Gravel Pad for container	\$ 1,200.00
Architectural drawings	\$ 4,400.00
Total of application Lions:	\$52,150.10

Kirkfield Historical Society

Building permit	\$ 1,709.92
Insulation	\$ 4,563.71
Demolition	\$ 5,697.69
Universal washroom	\$22,843.41
2 pc standard washroom #1	\$11,335.00
2 pc standard washroom #2	\$11,335.00
Stairwell	\$15,120.00
Total of application KDHS	\$72,604.73

CHEST Fund request total: \$124,754.83

KDHS will supplement any additional expenses beyond the value of the CHEST fund with our own funds to complete our project.

Kirkfield Lions Club and Kirkfield and District Historical Society Joint application for CHEST fund

This application is submitted jointly between the Kirkfield Lions Club and the Kirkfield and District Historical Society. Hereafter each group may be referred to as “the Lions” and “KDHS” for identification within this document.

Organization Contacts and Positions

Lions Club, 973 Portage Road, Kirkfield:

Stacey Teel, President 705-308-8335, teel969@msn.com

Rita Webb, Secretary 705-438-8503

KDHS, 992 Portage Road, Kirkfield:

Ian Burney, President 705-439-2186 kdhsmuseum@gmail.com

Charles Gloster, Cultural and Entertainment director 705-438-3678 kdhsmuseum@gmail.com
(Author of this application)

History of each Organization

Kirkfield Lions Club

The Lions just celebrated 50 years of active service in Kirkfield. The group was incorporated 19 July, 1972 as the Kirkfield and District Lions Club Inc. corporate registration number 254178 (please see attached document)

Annual Financial statements for the Lions are attached for 2017 and 2018

Kirkfield and District Historical Society

KDHS was founded in 2005 and is celebrating 14 years of service in the community. The group was incorporated in 2005 as the Kirkfield and District Historical Society Inc. Registered with the Ontario Historical Society – let of good standing attached

Annual financial statement for 2018 is attached

KDHS organizational structure follows the guidelines laid out by the Province in the document “Standards for Community Museums in Ontario.” This document can be found here:

http://www.mtc.gov.on.ca/en/museums/museums_standards.shtml This standard was developed under the Ministry of Tourism, Culture, and Sport.

The Lions and KDHS are the two main community groups in Kirkfield and have formed a partnership to support and encourage each other to deliver high quality services to the Kirkfield area. The list of events and programs available to the community is extensive between the two groups. For reference purposes and for your consideration, a list of events for each organization has been attached to demonstrate our ongoing dedication and commitment to our community.

Lions Objective for Funding with CHEST:

1. Four Furnaces with air conditioning. Currently the Lions have electric furnaces which were installed when the building was erected. Each unit has various issues in need of repair or replacement. The Lions feel conversion to high efficiency propane units would help them reduce operating costs. The air conditioning would assist with making the facility more useable in the summer. The existing air conditioning has failed due to age of the units. There is also an antiquated air dump system to remove hot air from the building during the summer months. This system is intermittent at best and so would be removed. The newer high efficiency air conditioning would make this air dump system redundant. Approx. Cost \$42,000.00
2. There are two hot water heaters in the building and at times the kitchen has run out of hot water during an event. We propose to replace both water heaters with a single propane unit which will service the entire building with a very fast recovery rate. This would also necessitate a recirculation system for the bathrooms at the far end of the building. This renovation should result in overall operational cost savings and produce sufficient hot water for health code and food service compliance.
3. A shipping container would replace their dilapidated storage building. They had obtained quotes for a 20x15 building (at 300 sq. ft.) and found that a quality, used shipping container was more economical and provided better security to store their tables and chairs. It also added a gain of space at 320 sq. ft. as a portable building. This item is included with this application as it will provide much needed storage and free up building interior space. In addition to the container, a gravel pad would be constructed near the main building to support the unit and provide adequate drainage. The construction of this pad was designed with the assistance and in consultation with architect Glenn Wilcox. The funds would be used to complete purchase, delivery, and installation of this unit. Approx. cost \$5,000.00
4. Fees to cover architectural concept drawings by Glenn Wilcox for kitchen and building renovations to be covered under future grant applications (likely Trillium Foundation). Approx. Cost \$4,400.00

KDHS Objective for Funding with CHEST:

1. The historical society ran 28 events in 2019 and we have 25 events scheduled for 2020 (please see attached document). We are in need of washrooms in the building to properly support the

museum, cultural events and programs. The current single washroom in the building is not only insufficient, but also does not comply with any current standards for such a facility. As KDHS does not have the lot space to support a full septic system, a large holding tank which will be pumped and maintained will suffice and be a good option given the space constraints. This design has been discussed and developed by consulting Anne Elmhirst, Supervisor for Sewage Systems Part 8 at the City of Kawartha Lakes, and practical installation and maintenance services by Shepherds Environmental Systems in Coboconk. Application for funding the holding tank and associated portion of this project has been made to the New Horizons For Seniors, federal grant program.

The new washroom plan would follow the design proposal submitted by Glenn Wilcox, architect. (please see attached plan)

Financial and Fiscal Responsibility, (distribution of funds)

We are proposing complete use of the CHEST fund for Kirkfield whereby each group would split the funds, each receiving 50% of the monies remaining in the fund.

Grant Management

We propose that the monies issued would be managed by each individual group with the Lions and KDHS administering their own respective funds. KDHS has been successful with numerous grants from New Horizons, HODG Fund, Trillium, Ontario Seniors, Summer Youth Program, and of course CKL.

Accounting and Reporting

As per requirements set out by the City of Kawartha Lakes.

Use of Local Resources

Both groups are keenly interested in community building and contributing to the economic growth and support with the area. To this end, we will try to use local, certified companies to fulfill our renovation requirements. We feel that returning the monies to the communities it came from through these projects is a responsible course of action and good use of the funds.

Lions Use of Local Resources and Commitment to Community

We propose to use qualified companies who are compliant with provincial standards, having WSIB, liability insurance, and proper certification for their respective trades. Where possible, we would like to use local companies to promote growth within our local community. Establishing a relationship with a local HVAC contractor will ensure that the furnaces and air conditioners are not only installed correctly, but would have a regular maintenance schedule to ensure years of operation.

KDHS Use of Local Resources and Commitment to Community

We have hired Glenn Wilcox, from Wilcox Architects Incorporated, to assist us by providing architectural drawings and project guidance to realize successful completion of our project. Architectural fees are quite significant and funding has been obtained for these services from the Ontario Trillium Foundation and from our own fundraising efforts. We would like to use local, certified contractors to construct our washrooms, following the drawings provided by Glenn Wilcox. Please see two quotes attached.

Lion's Hall Kirkfield

September 2019

MAIN HALL

- Supply and install gas furnace 80,000 btu/h two stage propane fired furnace tied in to existing duct system complete with required gas piping venting and electrical, includes removal of existing electric furnaces and air-conditioning system
- Supply and install compressor 2.5 ton, 13 seer central air condition system complete with required line sets, electrical and supporting condenser pad
- Supply and install gas furnace 80,000 btu/h two stage propane fired furnace tied in to existing duct system complete with required gas piping venting and electrical, includes removal of existing electric furnaces and air-conditioning system, (unit to be installed in horizontally)
- Supply and install compressor 2.5 ton, 13 seer central air condition system complete with required line sets, electrical and supporting condenser pad
- Remove existing air dump system and all duct work

OFFICE/STORAGE

- Supply and install gas furnace 60,000 btu/h two stage propane fired furnace tied in to existing duct system complete with required gas piping venting and electrical, includes removal of existing electric furnaces and air-conditioning system.
- Supply and install compressor 2 ton, 13 seer central air condition system complete with required line sets, electrical and supporting condenser pad
- Custom duct work to re locate furnace to main floor complete with supply air plenum and return air drop (apx 30' of duct)

RECREATION ROOM (west end) *Lion's Den*

- Supply and install gas furnace 60,000 btu/h two stage propane fired furnace tied in to existing duct system complete with required gas piping venting and electrical, includes removal of existing electric furnaces and air-conditioning system.
- Supply and install compressor 2 ton, 13 seer central air condition system complete with required line sets, electrical and supporting condenser pad

DOMESTIC HOT WATER

- Supply and install commercial hot water tank 50 gallon 65,000 btu/h propane fired water heater complete with required gas piping venting and plumbing,
- unit is to replace a 2nd electric water heater complete with return loop and circulating pump to ensure hot water in a timely manner

GAS PIPING AND PROAPANE TANK

- Propane tank to be located at east end of building approximately 15' off the building
- Gas piping will run underground from the propane tank location to the most eastward wall to supply two units, continue underground along the back of the building underground to the mechanical room where it will pick up the remain appliances, including future additions

The Corporation of the City of Kawartha Lakes

Council Report

Report Number PRC2020-005

Meeting Date: March 24, 2020

Title: Norland Recreation Centre Volunteer Management Committee Terms of Reference

Description: To establish clear Terms of Reference and scope of work for the Norland Recreation Centre Volunteer Management Committee

Ward Number: 1

Author and Title: Shelley Cooper, Community Partnership and Programs Supervisor

Recommendation(s):

That Report PRC2020-005, **Norland Recreation Centre Volunteer Management Committee Terms of Reference**, be received; and

That the Norland Recreation Centre Volunteer Management Committee Terms of Reference, as outlined in Appendix A to Report PRC2020-005, be approved.

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

At the Council Meeting of July 17, 2018, Report CAO2018-005 – Update Review of City and Agency Boards and Committees, was considered. Council adopted the following resolution:

CR2018-461

Moved By Councillor Elmslie

Seconded By Councillor Seymour-Fagan

That Report CA02018-005, **Update – Review of City and Agency Boards and Committees**, be received;

That staff be directed to update the Terms of Reference for various Committees and Boards as generally outlined in Appendix A to Report CAO2018-005 in advance of the next term of Council for approval and subsequent recruitment; and

That the City Clerk include regular monthly Committee of the Whole meetings in future annual meeting calendars beginning the next term of Council.

CARRIED

This report addresses that direction to provide updated Terms of Reference for Council Committees and Boards, namely the newly formed Norland Recreation Centre Volunteer Management Committee.

Rationale:

Volunteer Management Committees are responsible for the management and operations of a facility including building and grounds maintenance, bookings, invoicing and collections, promotions and programming. While Volunteer Management Committees are self-sustainable they are required to report quarterly to the liaison Department to update the activities of the facility.

Other Alternatives Considered:

No other alternatives were considered.

Financial/Operation Impacts:

There are no financial implications resulting from the development of the Committee Terms of Reference, save and except volunteer, staff, and Council time to support and attend meetings.

Relationship of Recommendation(s) To The 2020 - 2023 Strategic Plan:

The City of Kawartha Lakes 2020-2023 Strategic Plan identifies its strategic priorities as the following:

- A Vibrant and Growing Economy
- An Exceptional Quality of Life
- A Healthy Environment
- Good Government

Servicing Implications:

Consultations:

Director of Community Services
Manager of Parks, Recreation and Culture

Attachments:

Appendix A – Terms of Reference for Norland Recreation Centre Volunteer Management Committee:



VMC Norland
Recreation Centre TC

Department Head E-Mail: csbanks@kawarthalakes.ca

Department Head: Craig Shanks

Terms of Reference

Name: Carden Recreation Centre Volunteer Management Committee

Date Established by Council:

Mission:

The Carden Recreation Centre Volunteer Management Committee is established to manage the day-to-day operations of Carden Recreation Centre and surrounding property. Management should be conducted in an efficient and effective manner while maximizing community use of the facility and surrounding property.

Roles and Responsibilities:

It is the responsibility of all appointed members to comply with:

- the City Code of Conduct for Committee/Board Members
- Other applicable City by-laws and policies, including the Purchasing Policy
- Municipal Act
- Municipal Freedom of Information and Protection of Privacy Act
- Municipal Conflict of Interest Act

No individual member or the Committee as a whole has the authority to make direct representations of the City to Federal or Provincial Governments.

Members shall abide by the rules outlined within the Municipal Conflict of Interest Act and shall disclose any pecuniary interest to the Secretary and absent himself or herself from meetings for the duration of the discussion and voting (if any) with respect to that matter.

The Committee will abide by any terms and conditions which may be set out by the City's Council and the Community Services Department, Auditor and/or Insurer for any activities relating to Committee business in keeping with the Committee's Terms of Reference and established Policies.

Activities:

The following represent the general activities of the Committee:

- a) Responsible for the management and operations of the facility including building and grounds maintenance, bookings, invoicing and collections, promotions and programming. Where viable, self-sustainability will be an ultimate goal of the Committee. The Committee shall ensure full access to the community centre by all residents of the City of Kawartha Lakes, subject to facility availability and rental policies.
- b) To prepare and submit update reports to the liaison Department by the end of each quarter to outline the facility utilization, including rental/program details.
- c) Annual Report.
- d) Other – as recommended and approved by the liaison Department or Council.

Composition:

The Committee shall be comprised of a maximum of 9 members consisting of members of the public who reside within the general area of the respective facility. All members will have full authority to debate and vote. Changes in membership must be recommended to and approved by the liaison Department.

Appointment of Officers:

The Committee shall, at its first meeting in each year, elect from its membership a Chair, Secretary and Treasurer or Secretary/Treasurer. It is acknowledged that there are no per diems for any Committee positions and it is acknowledged that none of the above positions shall be paid for their services. All Committee members are considered volunteer positions.

Term of Appointment:

Unless exempted by legislation, members will be appointed for a term of a maximum of four years with terms expiring at the full term of Council. Members shall continue to serve beyond the end of their term until the appointments of their successors have been approved by the liaison Department.

Resources:

The Community Services Department and, in particular, the Parks, Recreation and Culture Division, will provide support in the form of advice, day-to-day liaison with the City, updates on operating procedures and documentation, program and promotional ideas and initial assistance in their implementation to the degree resources are available. The liaison Department will also assist in the preparation and submission of budget recommendations/grant submissions, if needed and attend meetings of the Committee.

The Committee will be entitled to establish bank accounts separate from the City's in which to receive revenues and issue expenses relating to the facility. The Committee will ensure any such accounts shall include a minimum of two signators whom shall be members of the Committee. The Committee shall provide and make available to the City's auditors upon request and at least annually all financial records relating to both revenues and expenses made. Further, the Committee shall make any adjustments requested by the City's auditors in ensuring proper accountability to the City and to the community.

The Committee may receive an annual operating grant to maintain the facility. In the event the Committee anticipates they will be operating at a greater deficit within a year, they shall advise the liaison Department no later than July 1st of that calendar year so that adjustments may be made. In the event the Committee achieves a surplus in a given year the City may adjust the next year's budget to address this. It is understood that both the Committee and the City are committed to trying to ultimately achieve a cost-neutral operation, where at all possible, for the benefit of all City taxpayers.

Major capital initiatives will be managed by the liaison Department. The Committee, in the event they have recommendations for the capital budget, should submit such requests by no later than June 1st for the following year.

Final approval of facility rental fees is to be approved by Council via the liaison Department. Notwithstanding the above, the Committee shall have the right to waive fees for the facility but only within their budgeted parameters.

The liaison Department shall ensure that a current Terms of Reference for the Committee has been provided to the City Clerk's Office and is posted on the City website.

Timing of Meetings:

Meetings will be held on a set day and time as may be determined by the Committee or at the call of the Chair.

Location of Meetings:

The location of the meetings will be set by the Committee and must be held in a City facility. Accessibility shall be considered when determining the location.

Meetings:

The Committee shall hold an annual meeting in each calendar year. The Chair, through the liaison Department, shall cause notice of the meeting, including the agenda for the meeting, to be provided to members of the Committee, posted within the respective facility and provided to the liaison Department, a minimum of three (3) business days prior to the date of each meeting. Quorum for meetings shall consist of a majority of the members of the Committee. No meeting shall proceed without quorum.

The liaison Department shall provide orientation annually for new members.

Working meetings throughout the year to advance the efforts of the work plan shall be held at the call of the Chair with the Chair providing notice of the working meetings to all members of the Committee a minimum of three (3) business days prior to the date of each meeting. No formal minutes are required to be taken at working meetings; however, notes shall be taken.

Procedures:

Procedures for the annual business meetings of the Committee shall be governed by Legislation and by Robert's Rules of Order.

Closed Meetings:

The Committee shall not be permitted to hold Closed Meetings.

Agendas and Minutes:

A copy of the Agenda and Minutes for the annual meeting shall be provided to the liaison Department and the City Clerk's Office.

Notes from working meetings of the Committee shall be forwarded to the liaison Department, as part of the quarterly update. Action items requested of staff and/or Council will be brought to the attention of the Parks, Recreation and Culture Division at that time. The City Clerk's Office will maintain a set of printed minutes on file for public review.

Insurance:

The City of Kawartha Lakes' General Liability Policy and Errors and Omissions Liability Policy will extend to this Committee/Board and its members. The applicable insurance policies extend to Committee members while in the performance of his/her duties and to those activities authorized by the City of Kawartha Lakes and Council. Members must adhere to the policies and procedures of the City of Kawartha Lakes and Council, including the Terms of Reference.

The Committee must provide to the liaison Department an annual updated listing of all members, including member positions, to ensure the applicable insurance coverage remains in force.

Committee members are not entitled to any benefits normally provided by the Corporation of the City of Kawartha Lakes, including those provided by the Workplace Safety and Insurance Board of Ontario ("WSIB") and are responsible for their own medical, disability or health insurance coverage.

Expulsion of Member:

Any member of the Committee may be removed from the Committee at the discretion of Council with consultation from the Liaison Department for reasons including, but not limited to, the member being in contravention of the Municipal Act, the Municipal Freedom of Information and Protection of Privacy Act, the Provincial Offences Act, The Municipal Conflict of Interest Act or the Code of Conduct for Committee Members; disrupting the work of the Committee; or other legal issues. Recommendations from a Committee/Board/Task Force regarding expulsion of a member shall be directed to the Mayor.

Terms of Reference:

The liaison Department shall ensure that a current Terms of Reference for the Committee has been provided to the City Clerk's Office and is posted on the City website.

Any responsibilities not clearly identified within these Terms of Reference shall be the responsibility of the City of Kawartha Lakes. Council may, at its discretion, change the Terms of Reference for this Committee at any time. Any changes proposed to these Terms of Reference by the Committee shall be recommended to Council via the liaison Department through a report to Council.

At the discretion of Council the Committee may be dissolved by resolution of Council.

The Corporation of the City of Kawartha Lakes

Council Report

Report Number CEM2020-01

Meeting Date: March 24, 2020

Title: **Assumption of Janetville United Church Cemetery**

Description: Transfer of cemetery assets to municipality

Ward Number: 8

Author and Title: Cathy Sleep, Cemetery Administrator

Recommendation(s):

That Report CEM2020-001, **Assumption of Janetville United Church Cemetery**, be received; and

That Staff take the necessary action to assume ownership of Janetville United Church Cemetery as set out in the Funeral, Burial and Cremation Services Act, 2002, Section 101.1 Subsections 1 to 8; and,

That the Mayor and Clerk be authorized to execute any documents and agreements required by the approval of this decision.

Department Head:_____

Financial/Legal/HR/Other:_____

Chief Administrative Officer:_____

Background:

Janetville United Church Cemetery is a one-half acre site located at 595 Janetville Road, just south of the village of Janetville. The cemetery abuts the Janetville Presbyterian Cemetery owned by CKL. The two sites have been owned and operated separately for many years.

The single volunteer who has kept the cemetery operating has been struggling to manage the administration and operational duties for the past few years.

On September 22, 2019, the Secretary of Janetville United Church Cemetery, Teresa Jordan, wrote to request that the municipality assume ownership of the cemetery. The letter states that the Janetville United Church Unified Board passed a motion initiating this action effective January 1, 2020.

There are no further lots available for sale and approximately three future interment rights to be exercised.

Rationale:

The Funeral, Burial and Cremation Services Act, 2002 Section 101.1 (subsections 1 – 8) provides for the owner of a Cemetery to legally abandon a Cemetery and voluntarily turn ownership over to the Municipality. Upon a declaration that a cemetery is abandoned being registered in the appropriate land registry office, the municipality becomes the owner of the cemetery with all rights and obligations in respect to the cemetery and the assets, funds, and trust accounts related thereto that the previous owner had.

Pursuant to Section 101.1 s. 2 (b), staff advised Teresa Jordan to contact the Bereavement Authority of Ontario (BAO) to make application to have the cemetery transferred to the municipality.

Other Alternatives Considered:

As indicated in the attached documentation, the City is obliged to assume ownership.

Financial/Operation Impacts:

- Estimated annual operating/maintenance costs are \$2,500.00
- There are no revenues from lot sales and interment revenue will be minimal
- Capital expenses: Future Monument Restoration estimated at \$5,000.00; fencing, stone gate post repairs and sign replacement estimated at \$15,000.00.

The cemetery owned 2 GIC's at Kawartha Credit Union with a face value of \$2,500.00 each. These investments have been redeemed and will be deposited to CKL's Cemeteries Trust Account for Care and Maintenance.

The operating account with Kawartha Credit Union with a balance of \$7,717.43 as of December 31, 2019 has been closed and the balance was transferred to City of Kawartha Lakes.

Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

The actions within this Report contributes to the Council Adopted Strategic Plan. It can identify one of the Goals, namely:

- Goal 2 – An Exceptional Quality of Life

Link to Strategic Plan

<https://documents.city.kawarthalakes.on.ca/sites/CorpDocs/Plans/2016%20Strategic%20Plan%20City%20of%20Kawartha%20Lakes.pdf>

Consultations:

Ministry of Consumer Services
Bereavement Authority of Ontario
Director of Community Services
Manager, Parks, Recreation & Culture
Supervisor, Parks & Open Spaces

Attachments:

Appendix "A" Copy of letter from Teresa Jordan dated September 22, 2019



2233_001.pdf

Appendix "B" Section 101.1 of the Funeral, Burial and Cremation Services Act, 2002



2234_001.pdf

Appendix "C" 2019 Financial Statement of Janetville United Church Cemetery



2235_001.pdf

Department Head E-Mail: cshanks@kawarthalakes.ca

Department Head: Craig Shanks



**Janetville United Church 712 Janetville Rd.
Janetville, ON L0B1K0 705-324-4006**

September 22, 2019

Dear Cathy,

At the Janetville United Church Unified Board meeting dated July 4, 2019 the following motion was passed:

That the Janetville United Church Cemetery and its operations are divested the City of Kawartha Lakes January 1, 2020.

I will ensure that the records, such as they are, are up to date, annual reporting to the BAO is complete for 2019 and that the Kawartha Credit Union is notified. The perpetual care fund is at \$5000 in two GIC investments and the operating fund is also with Kawartha Credit. I will also seek to find the deed of the cemetery lands.

Please let me know what steps are required and the timelines desired.

Sincerely,

Teresa Jordan

Chairperson Janetville United Church Unified Board
Secretary Janetville United Church Cemetery

Appendix B

Abandoned Cemeteries

Applications for declaration

101.1 (1) A person set out in subsection (2) may apply to have a judge of the Superior Court of Justice declare a cemetery abandoned if the owner of the cemetery,

(a) cannot be found or is unknown;

(b) is unable to maintain it; or

(c) is not a licensed operator and there is no licensed operator for the cemetery. 2006, c. 34, Sched. D, s. 68.

Who can apply

(2) The application may be made by,

(a) the Crown if the cemetery is on land that is situated in territory without municipal organization;

(b) the local municipality within whose geographic boundaries the land of the cemetery is located;

(c) the owner or operator of the cemetery; or

(d) the registrar. 2006, c. 34, Sched. D, s. 68.

Notice of application

(3) An applicant shall give notice of the application to the following persons or entities, but is not required to give the notice to the applicant:

1. The owner or operator of the cemetery.

2. The local municipality within whose geographic boundaries the land of the cemetery is located, if there is one.

3. The Crown, if there is no local municipality within whose geographic boundaries the land of the cemetery is located.

Janetville United Church Cemetery 2020

At the Janetville United Church Unified Board meeting dated July 4, 2019 the following motion was passed: That the Janetville United Church Cemetery and its operations are divested the City of Kawartha Lakes January 1, 2020. All preparations and records have now been passed on to the capable hands of Cathy Sleep of the City of Kawartha Lakes. The City has many cemeteries in their care and will honour and respect the legacy and resting place of our ancestors here in Janetville.

The cemetery has been an integral part of our work, mission and presence in the village since the late 1800's. Now a closed cemetery with no new lots available it is a resting place in the country hills and sweeping sunsets of Janetville Road. We pass this torch and honour the work and diligence of past secretaries, from the 1950's by name: S. Bradburn, Ella Wright, Marg McGill, and Carol Cunday. Much thanks to Kevin Taylor for his work not only to cut grass, but trim trees and raise foot markers throughout the season.

Financials

Credits

\$45.50	Interest on account and investments
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Debits

600.00	Grass Cutting
100.00	Sign Maintenance Expenses
100.00	Treasurer Expenses for transfer

Opening Balance	\$8,472.93
Closing Balance.....	\$7,717.43

Perpetual Care Fund Investment	\$5000.00
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Respectfully Submitted by
Teresa Jordan Cemetery Secretary



Jennifer Stover
P.O. Box 9000, 26 Francis St.
Lindsay, ON K9V 5R8
Telephone: (705) 324-9411, ext.1311
E-Mail: jstover@kawarthalakes.ca
Website: kawarthalakes.ca

Memorandum

To: Council
Cc: Ron Taylor
Date: March 24, 2020
From: Jennifer Stover, Director of Corporate Services
Subject: Community Paramedicine Pilot Program Continuation

At the Committee of the Whole meeting on March 10th, 2020 Council received an update on the Community Paramedicine Pilot Program and made the following recommendation:

CW2020-042

Moved By Councillor Elmslie

Seconded By Councillor Dunn

That staff report back at the March 24, 2020 Regular Council Meeting to outline any funding sources that are available to extend the Community Paramedicine Pilot Project for a further three month time period; and

That this recommendation be brought forward to Council for consideration at the next Regular Council Meeting.

Carried

In 2019, the City received one-time funding of \$725,000 to support the municipality in becoming “more efficient and reduce expenditure growth in the longer term”. These funds were allocated to the Contingency Reserve and approximately \$300,000 of this funding is currently uncommitted. The continuation of the Community Paramedicine Pilot program for a further three month period is consistent with the purpose of the efficiency grant.

Alternatively, the pilot program could be funded from the Contingency Reserve.

If Council chooses to extend the program, the cost is \$25,000 per three month period, and either identified funding source would be appropriate.

Recommendation:

That the Community Paramedicine Pilot program be extended for a further _____ month(s) time period, at a cost of \$ _____ , to be funded from the efficiency grant in the Contingency Reserve.

**The Corporation of the City of
Kawartha Lakes By-Law 2020-____**

**A By-law to Amend By-law 2018-020, Being the
City Lands Disposition By-law for the City of
Kawartha Lakes**

Recitals:

Whereas the City of Kawartha Lakes passed By-law 2018-020 on February 13, 2018, setting out the procedure to be followed by City Staff when selling City-owned property.

Whereas section 3.05 sets out the nature of the notice to be provided to the public prior to any declaration of surplus property.

Whereas section 3.08 sets out the timing of the public notice in the newspaper, on the City website and on the site to be sold as follows:

“...shall be provided at least three weeks and no more than twelve months prior to any Council meeting at which the disposition of the surplus real property may be confirmed.”

Whereas section 7.04 provides that, following a declaration by Council that a property is surplus and will be sold, a final disposition by-law is to return to Council prior to the sale.

Whereas it is the intent of Council that the twelve month period at section 3.08 of the By-law was to prevent land sales in instances where public notice had occurred historically (and perhaps was no longer effective notice, with intervening private land sales in the area affected)

Whereas twelve months is too restrictive, and eighteen months would achieve Council's goal without triggering unnecessary subsequent rounds of advertising.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-____.

Section 1.00: Interpretation

1.1 Interpretation Rules:

- (a) The words "include" and "including" are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.

Statutes: References to laws in this by-law are meant to refer to the statutes, as amended from time to time, that are applicable within the Province of Ontario.

1.2 Severability:

If a court or tribunal of competent jurisdiction declares any portion of this by-law to be illegal or unenforceable, that portion of this by-law shall be considered to be severed from the balance of the by-law, which shall continue to operate in full force and effect.

This by-law shall not exempt any person from the requirement to comply with any other City by-law. In the event of conflict between the provisions of this by-law, of any encroachment agreement approved after the passing of this by-law, and of any other City by-law, the more restrictive provisions shall apply.

Section 2.00: Amendment to Section 3.08 of By-law 2018-020

- 2.01 Section 3.08 in By-law 2018-020 is amended by replacing "twelve" with "eighteen".

Section 3.00: Effective Date

3.01 Effective Date: This By-law shall come into force on the date it is finally passed.

By-law read a first, second and third time, and finally passed, this _____ day of _____, 2020.

Andy Letham, Mayor

Cathie Ritchie, Clerk

**The Corporation of the City of
Kawartha Lakes By-Law 2020-____**

**A By-law to Amend By-law 2018-020, Being the
City Lands Disposition By-law for the City of
Kawartha Lakes**

Recitals:

Whereas the City of Kawartha Lakes passed By-law 2018-020 on February 13, 2018, setting out the procedure to be followed by City Staff when selling City-owned property.

Whereas section 4.04 sets out set pricing for closed road allowances sold to the adjacent owner to be merged into that owner's property.

Whereas section 4.03 requires an appraisal for closed road allowances sold to the adjacent owner as set out above, unless set pricing is used.

Whereas expressing this pricing as minimum pricing would allow for higher net recovery by the City on land sales.

Whereas it is the intent of Council to maximize recovery on land sales.

Whereas requiring appraisals if set pricing is not used will discourage Staff from negotiating higher prices, as appraisals are costly and time consuming.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-____.

Section 1.00: Interpretation

1.1 Interpretation Rules:

- (a) The words "include" and "including" are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.

Statutes: References to laws in this by-law are meant to refer to the statutes, as amended from time to time, that are applicable within the Province of Ontario.

1.2 Severability:

If a court or tribunal of competent jurisdiction declares any portion of this by-law to be illegal or unenforceable, that portion of this by-law shall be considered to be severed from the balance of the by-law, which shall continue to operate in full force and effect.

This by-law shall not exempt any person from the requirement to comply with any other City by-law. In the event of conflict between the provisions of this by-law, of any encroachment agreement approved after the passing of this by-law, and of any other City by-law, the more restrictive provisions shall apply.

Section 2.00: Amendments to By-law 2018-020

- 2.01 Section 4.03 in By-law 2018-020 is amended by replacing "shall" with "may".
- 2.02 Section 4.04 in By-law 2018-020 is amended by adding "Minimum" after the first "Certain" and adding "minimum" before the word "prices".

Section 3.00: Effective Date

3.01 Effective Date: This By-law shall come into force on the date it is finally passed.

By-law read a first, second and third time, and finally passed, this _____ day of _____, 2020.

Andy Letham, Mayor

Cathie Ritchie, Clerk

The Corporation of the City of Kawartha Lakes

By-Law 2020-XXX

A By-law to Designate 264 Pleasant Point Road, Geographic Township of Fenelon in the City of Kawartha Lakes

A By-law to Designate 264 Pleasant Point Road (Pleasant Point Union Church), Geographic Township of Fenelon in the City of Kawartha Lakes as being of Cultural Heritage Value or Interest

Recitals

1. Section 29 of the Ontario Heritage Act, R.S.O. 1990, provides that the Council of a municipality may pass a by-law to designate a property within the boundaries of the municipality as being of cultural heritage value or interest.
2. A Notice of Intention to Designate 264 Pleasant Point Road, Geographic Township of Fenelon described further in Schedule A, has been given in accordance with Section 29 of the Ontario Heritage Act.
3. No objection to the proposed designation has been served on the Clerk of the City.
4. Council has consulted with its Municipal Heritage Committee.
5. Reasons for Designation are set forth in Schedule A.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-XXX.

Section 1.00: Definitions and Interpretation

1.01 Definitions: In this by-law,

“alter” means to change in any manner and includes to restore, renovate, repair, erect, demolish, and disturb; and “alteration” and “altering” have corresponding meanings;

“City”, “City of Kawartha Lakes” or “Kawartha Lakes” means The Corporation of the City of Kawartha Lakes and includes its entire geographic area;

“City Clerk” means the person appointed by Council to carry out the duties of the clerk described in section 228 of the Municipal Act, 2001;

“Council” or “City Council” means the municipal council for the City;

“Director of Development Services” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council;

“Municipal Heritage Committee” means the Kawartha Lakes Municipal Heritage Committee which makes recommendations to Council and is established under Section 28 of the Ontario Heritage Act;

“Ontario Heritage Act” or **“the Act”** means the Ontario Heritage Act, R.S.O. 1990, c. o.18, as amended or any successor thereof;

“Property” means property as set out in Section 2.01.

1.02 Interpretation Rules:

(a) The Schedules attached to this by-law form part of the by-law, and are enforceable as such.

(b) The words “include” and “including” are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.

1.03 Statutes: References to laws in this by-law are meant to refer to the statutes, as amended from time to time, that are applicable within the Province of Ontario.

1.04 Severability: If a court or tribunal of competent jurisdiction declares any portion of this by-law to be illegal or unenforceable, that portion of this by-law shall be considered to be severed from the balance of the by-law, which shall continue to operate in full force and effect.

Section 2.00: Designation of Property

2.01 264 Pleasant Point Road, Geographic Township of Fenelon is designated as being of cultural heritage value, as described further in Schedule A. This designation shall not preclude alterations that may be deemed necessary for the efficient use of the property but that any and all alterations shall be in keeping with the original and present character of the property and that no alterations to the property affecting its heritage attributes as outlined in Schedule A shall be made without written consent from the City.

2.02 The City is hereby authorized to cause a copy of this by-law to be registered against the property described above in the property Land Registry Office.

2.03 The Clerk is hereby authorized to cause a copy of this by-law to be served on the owner of the aforesaid property and on the Ontario Heritage Trust, and to cause notice of the passing of this by-law to be published in a newspaper with general circulation within the municipality.

Section 3.00: Enforcement, Offence and Penalties

3.01 Enforcement: This by-law may be enforced by every municipal law enforcement officer and police officer.

- 3.02 **Offence and Penalty:** It is an offence for a person to contravene any provision of this by-law, and every person who contravenes this by-law is guilty of an offence and, on conviction, is liable to a fine in accordance with the provisions of the Provincial Offences Act, the Ontario Heritage Act and to any other applicable penalty.

Section 4.00: Administration and Effective Date

- 4.01 **Administration of the By-law:** The Director of Development Services is responsible for the administration of this by-law.
- 4.02 **Effective Date:** This By-law shall come into force on the date it is finally passed.

By-law read a first, second and third time, and finally passed, this 24th day of March, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

Schedule A to By-law 2020-XXX

Being a By-law to designate 264 Pleasant Point Road (Pleasant Point Union Church), Geographic Township of Fenelon in the City of Kawartha Lakes as being of cultural heritage value or interest.

Description of Property

264 Pleasant Point Road, Geographic Township of Fenelon

Legal Description

CON 10 PT LOT 7 PLAN 139 LOT;4

PIN: 63275-0135

Statement of Reasons for Designation

264 Pleasant Point Road, known locally as Pleasant Point Union Church, has cultural heritage value as an excellent, representative example of a cottage community church constructed in the early twentieth century. Constructed on a rectangular plan, the rustic timber interior and plain exterior with simplified forms and minimal decorative elements speaks to the wilderness aesthetic prevalent in cottage architecture during this period which aimed to integrate structures into the natural landscape and which reflects its roots as a non-denominational worship space. Despite its simplicity, however, the church displays a high degree of craftsmanship in its reredos, communion rail, and lectern. Historically, the church has importance as part of the development of Pleasant Point in the early twentieth century and is reflective of the architectural and cultural development of cottage communities during this period. It also has important historical associations with former Ontario Premier Leslie M. Frost who attended the church while cottaging in Pleasant Point and who wrote its constitution in 1922. The property also has contextual significance as an important, defining feature in the Pleasant Point community and a local landmark due to its role as a longstanding place of worship on Sturgeon Lake.

Heritage Attributes

The Reasons for Designation include the following heritage attributes and apply to all elevations, unless otherwise specified, and the roof including: all façades, entrances, windows, chimneys, and trim, together with construction materials of wood, brick, stone, stucco, concrete, plaster parging, metal, glazing, their related building techniques and landscape features.

Exterior Features

- One-storey frame construction
- Gable roof
- Central entrance with portico and steps including:
 - Double leaf doors with windows and original hardware
 - Storm doors
 - Wooden posts
- Brackets

- Fenestration including:
 - Original windows with muntins
 - Original glass
 - Shutters
- Belfry including bell
- Weatherboarding
- Wooden soffit and fascia
- Stone foundation and concrete footings

Interior Features

- Exposed timbers
- Open timber roof including:
 - Scissor trusses
- Reredos with lancets
- Communion rails with lancets
- Altar
- Lectern
- Painted Biblical text
- Pendant light with decorative metalwork
- Cross and decorative woodwork

The Corporation of the City of Kawartha Lakes

By-Law 2020-

A By-law to Repeal and Replace Bylaw 2004-157 to adopt an Emergency Management Program and Emergency Response Plan in accordance with the requirements of the Emergency Management and Civil Protection Act in the City of Kawartha Lakes

Recitals

1. The **Emergency Management and Civil Protection Act, R.S.O. 1990, c.E.9 and Ontario Regulation 380/4** (the “Act”) sets out that every municipality in the province is required to:
 - Develop and implement an emergency management program, which shall consist of:
 - An Emergency Response Plan;
 - training programs and exercises for employees of the municipality and other persons with respect to the provision of necessary services and the procedures to be followed in emergency response and recovery activities;
 - public education on risks to public safety and on public preparedness for emergencies; and
 - any other elements required by the standards for emergency management set under the Act or by Emergency Management Ontario;
 - Designate an employee of the municipality as the Community Emergency Management Coordinator (C.E.M.C.), and designate an alternate(s);
 - Establish an Emergency Management Program Committee;
 - Establish an Emergency Control Group;
 - Establish an Emergency Operations Centre to be used by the Emergency Control Group in an emergency; and
 - Designate an employee of the municipality as its Emergency Information Officer, and designate alternate(s).
2. It is prudent that the Emergency Management Program developed under the Act be in accordance with international best practices, including the five core components of emergency management; mitigation, prevention, preparedness, response and recovery;
3. The purpose of such a program is to help protect public safety, public health, the environment, critical infrastructure and property during an emergency and to promote economic stability and a disaster resilient community;

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020- .

Section 1.00: Definitions and Interpretation

- 1.01 **Definitions:** In this by-law,

“Community Emergency Management Coordinator (C.E.M.C.) means the person appointed by by-law to develop, implement and maintain the emergency management program;

“City”, “City of Kawartha Lakes” or “Kawartha Lakes” means The Corporation of the City of Kawartha Lakes and includes its entire geographic area;

“City Clerk” means the person appointed by Council to carry out the duties of the clerk described in section 228 of the Municipal Act, 2001;

“Council” or “City Council” means the municipal council for the City;

“Fire Chief” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council.

1.02 Interpretation Rules:

(a) The Schedules attached to this by-law form part of the by-law, and are enforceable as such.

(b) The words “include” and “including” are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.

1.03 Statutes: References to laws in this by-law are meant to refer to the statutes, as amended from time to time, that are applicable within the Province of Ontario.

1.04 Severability: If a court or tribunal of competent jurisdiction declares any portion of this by-law to be illegal or unenforceable, that portion of this by-law shall be considered to be severed from the balance of the by-law, which shall continue to operate in full force and effect.

Section 2.00: Emergency Management Program

2.01 An Emergency Management Program for the municipality will be developed and reviewed annually by the Emergency Management Program Committee consistent with and in accordance with the Act and international best practices, including the core components of emergency management, namely: mitigation, prevention, preparedness, response and recovery, and such program shall include:

- a. Training programs and exercises for employees of the municipality and other persons with respect to the provision of necessary services and the procedures to be followed in emergency response and recovery activities;
- b. Public education on risks to public safety and on public preparedness for emergencies; and
- c. Any other elements required by the standards for emergency management set under the Act or by Emergency Management

- 2.02 The Emergency Management Program shall be consistent with the objectives of protecting public safety, public health, the environment, critical infrastructure and property, and to promote economic stability and a disaster resilient community.

Section 3.00: Emergency Response Plan

- 3.01 The Emergency Response Plan, which has been developed in accordance with the requirements of the Act and international best practices, and which is attached hereto as Schedule A is hereby adopted (the “Plan”).
- 3.02 The Plan shall be reviewed annually by the C.E.M.C. and the City’s Emergency Management Program Committee. The C.E.M.C. is authorized to make changes to the Plan as appropriate to keep the Plan current, such as personnel, organizational, and contact updates. Any significant revision to the body of the Plan shall be presented to Council for approval.
- 3.03 When an emergency exists but has yet to be declared to exist, City employees and the Emergency Control Group may take such action under the Plan as may be required to protect property and the health, safety, and welfare of the inhabitants of the City.

Section 4.00: Community Emergency Management Coordinator

- 4.01 That the Fire Chief, is hereby appointed as the primary C.E.M.C. responsible for the emergency management program for the City including maintenance of the Plan, training, exercises, public education and other such duties and responsibilities as outlined in the Act.
- 4.02 The Deputy Fire Chief’s and Executive Assistant to the Fire Chief are hereby appointed as alternate C.E.M.C. to act in place of the primary C.E.M.C. in his/her absence.

Section 5.00: Emergency Management Program Committee

- 5.01 The persons from time to time holding the following positions in the municipality, or their designates, shall be members of the Emergency Management Program Committee:
- Mayor
 - Chief Administrative Officer
 - C.E.M.C.
 - Director of Public Works
 - Director of Development Services
 - Director of Community Services
 - Director of Corporate Services

- Director of Engineering and Assets
- Director of Human Services
- Fire Chief
- Paramedic Chief
- Clerk
- Solicitor
- Manager of Communications, Advertising and Marketing

Representatives from the following community partner agencies and organizations or their designates, will be invited to participate in Emergency Management Program Committee meetings, as deemed necessary and appropriate:

- Haliburton, Kawartha, Pine Ridge District Health Unit
- Kawartha Lakes Police Chief
- OPP Detachment Commander
- Kawartha Region Conservation Authority

5.02 The Chief Administrative Officer is hereby appointed as Chair of the Emergency Management Program Committee.

5.03 The Emergency Management Program Committee shall advise Council on the development and implementation of the municipality's Emergency Management Program and shall review the program annually.

Section 6.00: Emergency Control Group

6.01 The persons from time to time holding the following positions in the municipality, shall be members of the Emergency Control Group:

- Mayor
- Chief Administrative Officer
- C.E.M.C.
- Director of Public Works
- Director of Development Services
- Director of Community Services
- Director of Corporate Services
- Director of Engineering and Assets
- Director of Human Services
- Fire Chief
- Paramedic Chief
- Kawartha Lakes Police Chief
- OPP Detachment Commander
- Clerk
- Manager of Communications, Advertising and Marketing

Staff from other municipal Divisions and community agencies and organizations may be called upon to work in the Emergency Operations Centre in support of the Emergency Control Group to implement procedures, offer advice, and

provide the necessary services required for emergency response and recovery activities.

Section 7.00: Emergency Operations Centre

7.01 A primary and alternate Emergency Operations Centre have been established for use by the Emergency Control Group in an emergency and with the appropriate technological and telecommunications systems to ensure effective communication in an emergency. The locations of the Emergency Operations Centre's are identified in Appendix A to the Plan.

Section 8.00: Emergency Information Officer

8.01 The City's Manager of Communications, Advertising and Marketing is hereby appointed as the primary Emergency Information Officer to guide the implementation of the City's Emergency Information Plan, Appendix E to the Plan.

Section 9.00: Administration

9.01 The Plan shall be made available to the public on the City's website, and upon request at Kawartha Lakes Fire Rescue Service Headquarters during regular business hours.

9.02 The Plan, or any amendments to the Plan, shall be submitted to the Chief, Emergency Management Ontario.

Section 10.00: Administration and Effective Date

10.01 **Administration of the By-law:** The Fire Chief is responsible for the administration of this by-law.

10.02 **Effective Date:** This By-law shall come into force on the date it is finally passed.

Section 11.00: Repeals

11.01 **Repeal:** By-law 2004-157 Emergency Management Program By-law is repealed.

By-law read a first, second and third time, and finally passed, this day of , 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

The Corporation of the City of Kawartha Lakes

By-Law 2020-

A By-Law to Amend the Town of Lindsay Official Plan to Re-designate Land within the City of Kawartha Lakes

[File D01-2019-003, Report PLAN2020-006, respecting Part of Lot 18, Concession 5, 57R-8940 Parts 1 to 8 and Part of Lot 18, Concession 5, Plan 61, Part of Lots 9 to 12, 57R-8210 Parts 1, 5 and 6, Former Town of Lindsay, now in the City of Kawartha Lakes, 140 Angeline Street South – DDB Investment Group Limited]

Recitals:

1. Sections 17 and 22 of the Planning Act, R.S.O. 1990, c. P.13, authorize Council to consider the adoption of an amendment to an Official Plan.
2. Council has received an application to amend the Town of Lindsay Official Plan to change the land use designation from “Residential” to “General Commercial”, to facilitate the construction of a hotel and ancillary uses on the property known municipally as 140 Angeline Street South.
3. A public meeting to solicit public input has been held.
4. Council deems it appropriate to adopt Official Plan Amendment Number 56.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-***.

Section 1:00 Official Plan Amendment Details

- 1.01 **Property Affected:** The property affected by this By-law is described as Part of Lot 18, Concession 5, 57R-8940 Parts 1 to 8 and Part of Lot 18, Concession 5, Plan 61, Part of Lots 9 to 12, 57R-8210 Parts 1, 5 and 6, Former Town of Lindsay, now in the City of Kawartha Lakes, 140 Angeline Street South.
- 1.02 **Amendment:** Amendment No. 56 to the Town of Lindsay Official Plan, attached hereto as Schedule ‘A’ and forming a part of this By-law is hereby adopted.

Section 2:00 Effective Date

- 2.01 **Force and Effect:** This By-law shall come into force and take effect on the date it is finally passed, subject to the approval of the City of Kawartha Lakes in accordance with the provisions of Section 17 and 22 of the Planning Act, R. S. O. 1990, c. P.13. Notwithstanding the subsequent coming into force of the Lindsay Secondary Plan, adopted by Council on June 27, 2017, this by-law continues to be in force and effect.

By-law read a first, second and third time, and finally passed, this ** day of _____,
2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

Schedule 'A' to By-law No. 2020-***

The Corporation of the City of Kawartha Lakes

Amendment No. 56 To The Official Plan – The Town of Lindsay

Part A – The Preamble

A. Purpose

The purpose of the official plan amendment is to change the land use designation to permit commercial uses on the property identified as 140 Angeline Street South, in the “General Commercial” designation of the Town of Lindsay Official Plan. The land is also subject to an application for zoning by-law amendment and consent application.

The effect of the change would permit a hotel and ancillary uses on the subject land.

B. Location

The subject land has a lot area of approximately 0.81 hectares and is located between Mary Street West and Auk Trail, on the east side of Angeline Street South, in the Former Town of Lindsay. The properties are legally described as Part of Lot 18, Concession 5, 57R-8940 Parts 1 to 8 and Part of Lot 18, Concession 5, Plan 61, Part of Lots 9 to 12, 57R-8210 Parts 1, 5 and 6, Former Town of Lindsay, now City of Kawartha Lakes and identified as 140 Angeline Street South.

C. Basis

Council has enacted this official plan amendment in response to an application submitted by Kevin M. Duguay Community Planning and Consulting Inc. on behalf of the owner to permit the construction of a hotel on the subject lands.

The land is designated “Residential” as shown on Schedule “A” of the Town of Lindsay Official Plan. The land is also subject to an application for zoning by-law amendment, and a consent application for a lot boundary adjustment.

The proposed use and amendment to the Town of Lindsay Official Plan are justified and represent good planning for the following reasons:

1. The proposed development conforms to relevant provincial policy documents being A Place to Grow: Growth Plan for the Greater Golden Horseshoe, 2019, and is consistent with the 2014 Provincial Policy Statement.
2. The proposed development conforms to the goals and objectives of the “General Commercial” designation as set out in the Town of Lindsay Official Plan.

3. The proposed uses are compatible and integrate well with the surrounding area.
4. The applicant has submitted background reports to demonstrate the appropriateness of the proposed development with respect to servicing and the protection of the environment.

Part B - The Amendment

D. Introductory Statement

All of this part of the document entitled Part B – The Amendment, consisting of the following attached map constitutes Amendment No. 56 to the Town of Lindsay Official Plan.

E. Details of the Amendment

1. Schedule 'A' of the Town of Lindsay Official Plan is hereby amended by changing the land use designation to the General Commercial designation, as shown on Map 'A' as 'Land to be Re-Designated General Commercial'.

F. Implementation and Interpretation

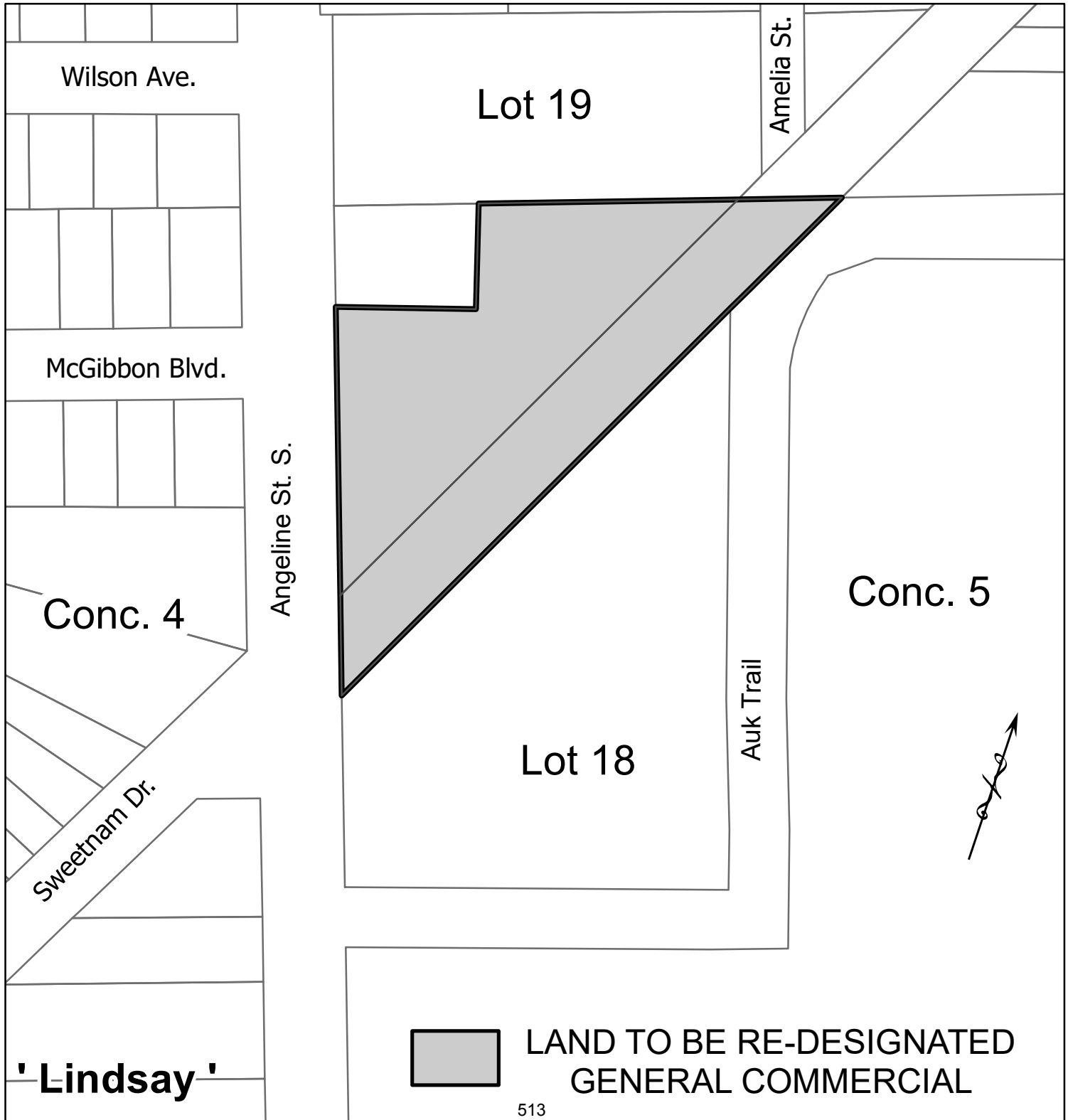
The implementation and interpretation of this amendment shall be in accordance with the relevant policies of the Official Plan.

THE CORPORATION OF THE CITY OF

KAWARTHA LAKES

Map 'A' to Amendment No. 56

To the City of Kawartha Lakes Official Plan



The Corporation of the City of Kawartha Lakes

By-Law 2020 -

A By-law to Amend the Town of Lindsay Zoning By-law No. 2000-75 to Rezone Land within the City Of Kawartha Lakes

[File D06-2019-029, Report PLAN2020-006, respecting Part of Lot 18, Concession 5, 57R-8940 Parts 1 to 8 and Part of Lot 18, Concession 5, Plan 61, Part of Lots 9 to 12, 57R-8210 Parts 1, 5 and 6, Former Town of Lindsay, now in the City of Kawartha Lakes, 140 Angeline Street South – DDB Investment Group Limited]

Recitals:

1. Section 34 of the Planning Act, R.S.O. 1990, c.P.13 authorizes Council to determine the appropriate zoning categories and provisions assigned to land.
2. Council has received an application to amend the categories and provisions relating to a specific parcel of land to permit commercial uses, including a hotel and ancillary uses on the subject land.
3. A public meeting to solicit public input has been held.
4. Council deems it appropriate to rezone the Property.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-__.

Section 1:00 Zoning Details

- 1.01 **Property Affected:** The Property affected by this by-law is described as Part of Lot 18, Concession 5, 57R-8940 Parts 1 to 8 and Part of Lot 18, Concession 5, Plan 61, Part of Lots 9 to 12, 57R-8210 Parts 1, 5 and 6, Former Town of Lindsay, now in the City of Kawartha Lakes, 140 Angeline Street South.
- 1.02 **Textual Amendment:** By-law No. 2000-75 of the Town of Lindsay is further amended to add the following section to Section 16.3:

“16.3.4 GC-S13 Zone

Notwithstanding the permitted uses and zone requirements for the GC zone, on land zoned GC-S13, the following shall apply:

- a. Minimum front yard setback 5.0 m.
- b. Minimum rear yard setback 6.0 m.
- c. Maximum building height 18.0 m.
- d. The maximum gross leasable floor area of a single commercial use shall be 4,500 sq. m.”

- 1.03 **Schedule Amendment**: Schedule 'A' to By-law No. 2000-75 of the Town of Lindsay is further amended to change the zone category from the 'Residential One (R1) Zone' to the 'General Commercial Special Thirteen (GC-S13) Zone' for the land referred to as 'GC-S13', as shown on Schedule 'A' attached to this By-law.

Section 2:00 Effective Date

- 2.01 **Effective Date**: This By-law shall come into force and take effect on the date it is finally passed, subject to the provisions of Section 34 of the Planning Act R.S.O. 1990, c.P.13.

By-law read a first, second and third time, and finally passed, this ** day of ***, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

THE CORPORATION OF THE CITY OF

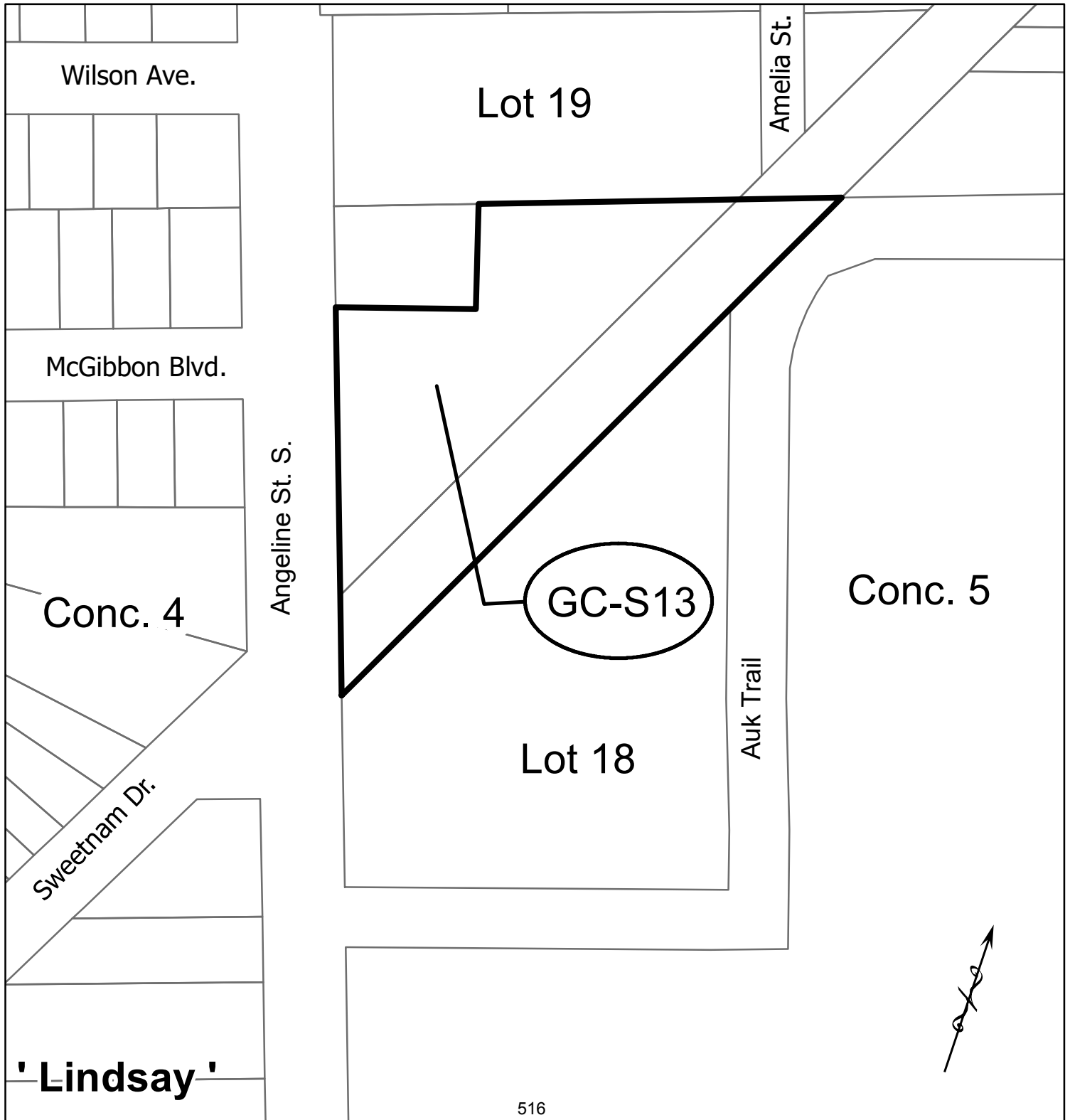
KAWARTHA LAKES

THIS IS SCHEDULE 'A' TO BY-LAW _____ PASSED

THIS _____ DAY OF _____ 2020.

MAYOR _____

CITY CLERK _____



The Corporation of the City of Kawartha Lakes

By-Law 2020 -

A By-Law to Amend the City of Kawartha Lakes Official Plan to Redesignate Land within the City of Kawartha Lakes

File D01-2019-006, Report PLAN2020-010, respecting Part Lots 11 and 12, Concession 7, geographic Township of Emily, 88 Centreline Road – Caton

Recitals:

1. Sections 17 and 22 of the Planning Act, R.S.O. 1990, c. P.13, authorize Council to consider the adoption of an amendment to an Official Plan.
2. Council has received an application to amend the City of Kawartha Lakes Official Plan to include a Special Policy which amends the applicable requirements of the “Rural” land use designation under Section 16, to facilitate a lot severance by consent under Section 53 of the Planning Act to a portion of the property known municipally as 88 Centreline Road that contains an existing second detached dwelling that is considered surplus.
3. A public meeting to solicit public input has been held.
4. Council deems it appropriate to adopt Official Plan Amendment Number 37.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-***.

Section 1:00 Official Plan Amendment Details

- 1.01 **Property Affected:** The portion of the subject property (addressed as 94 Centreline Road) affected by this By-law is described as Part Lot 11, Concession 7, geographic Township of Emily, now in the City of Kawartha Lakes, which is part of the property municipally known as 88 Centreline Road.
- 1.02 **Amendment:** Amendment No. 37 to the City of Kawartha Lakes Official Plan, attached hereto as Schedule ‘A’ and forming a part of this By-law is hereby adopted.

Section 2:00 Effective Date

- 2.01 **Force and Effect:** This By-law shall come into force and take effect on the date it is finally passed, subject to the approval of the City of Kawartha Lakes in accordance with the provisions of Section 17 and 22 of the Planning Act, R. S. O. 1990, c. P.13.

By-law read a first, second and third time, and finally passed, this ** day of _____, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

Schedule 'A' to By-law No. 2020-***

The Corporation of the City of Kawartha Lakes

Amendment No. 37 To The Official Plan - The City of Kawartha Lakes

Part A - The Preamble

A. Purpose

The purpose of the official plan amendment is to amend the "Rural" land use designation in the City of Kawartha Lakes Official Plan to include a Special Policy to facilitate a future consent for the creation of a rural lot. The land is also subject to an application for zoning by-law amendment.

The effect of the change is to facilitate the severance of a portion of the subject land containing an existing second detached dwelling (addressed as 94 Centreline Road) that is considered surplus and establish appropriate zone provisions for the proposed severed and retained land through an implementing zoning by-law amendment.

B. Location

The subject land has a lot area of approximately 7.88 ha. (19.46 ac.) of which approximately 1.2 ha. (3 ac.) of the northern portion is proposed to be severed and is situated in the geographic Township of Emily, in a rural area and located north of Peace Road on the east side of Centreline Road and west of the Pigeon River. The property is legally described as Part Lots 11 and 12, Concession 7, geographic Township of Emily, City of Kawartha Lakes and identified as 88 Centreline Road.

C. Basis

Council has enacted this official plan amendment in response to an application submitted by Tom deBoer of TD Consulting Inc. on behalf of the owner to permit the severance of a portion of the subject land with a surplus dwelling. It is intended that a special policy be incorporated into the City of Kawartha Lakes Official Plan to facilitate a subsequent application to sever a portion of the subject land (addressed as 94 Centreline Road) by consent under Section 53 of the Planning Act from the property known municipally as 88 Centreline Road.

The land is designated "Rural", "Waterfront" and "Environmental Protection" with "Provincially Significant Wetlands and "Significant Woodland" Natural Heritage Features, whereas the subject land proposed to be severed is designated "Rural", with a "Significant Woodland" Natural Heritage Feature as shown on Schedules "A-3" and "B-3" respectively, of the City of Kawartha Lakes Official Plan. The land is also subject to an application for zoning by-law amendment.

The proposed use and amendment to the City of Kawartha Lakes Official Plan are justified and represent good planning for the following reasons:

1. The proposed use conforms or does not conflict with the relevant provincial policy documents being the Growth Plan for the Greater Golden Horseshoe and is consistent with the Provincial Policy Statement.
2. The inclusion of a Special Policy to permit the severance of a portion of the subject land containing an existing second detached dwelling (addressed as 94 Centreline Road) that is considered surplus is deemed to conform to the intent of the objectives of the City of Kawartha Lakes Official Plan, as amended.
3. The proposed use is appropriate for the rural property, will not impact on agricultural uses in the area, and will be compatible with established land uses and development in the area.
4. The applicant has submitted background reports to demonstrate the appropriateness of the proposed use.

Part B - The Amendment

D. Introductory Statement

All of this part of the document entitled Part B - The Amendment, consisting of the following text constitutes Amendment No. 37 to the City of Kawartha Lakes Official Plan.

E. Details of the Amendment

1. Section 16 - Rural Designation of the Official Plan for the City of Kawartha Lakes is hereby amended to add the following subsection.

16.4 SPECIAL PROVISIONS:

- “16.4.3. Notwithstanding the Rural policies of Section 16 of this Plan to the contrary, on a portion of the subject land (addressed as 94 Centreline Road) described as Part of Lot 11, Concession 7, geographic Township of Emily, a severance by consent under Section 53 of the Planning Act may be granted for an existing second detached dwelling that is considered surplus to the property known municipally as 88 Centreline Road.”
2. Schedule ‘A-3’ of the City of Kawartha Lakes Official Plan is hereby amended by inserting a note that a portion of the subject lot is subject to Policy Provision 16.4.3 of the Official Plan, as shown on Map ‘A’.

F. Implementation and Interpretation

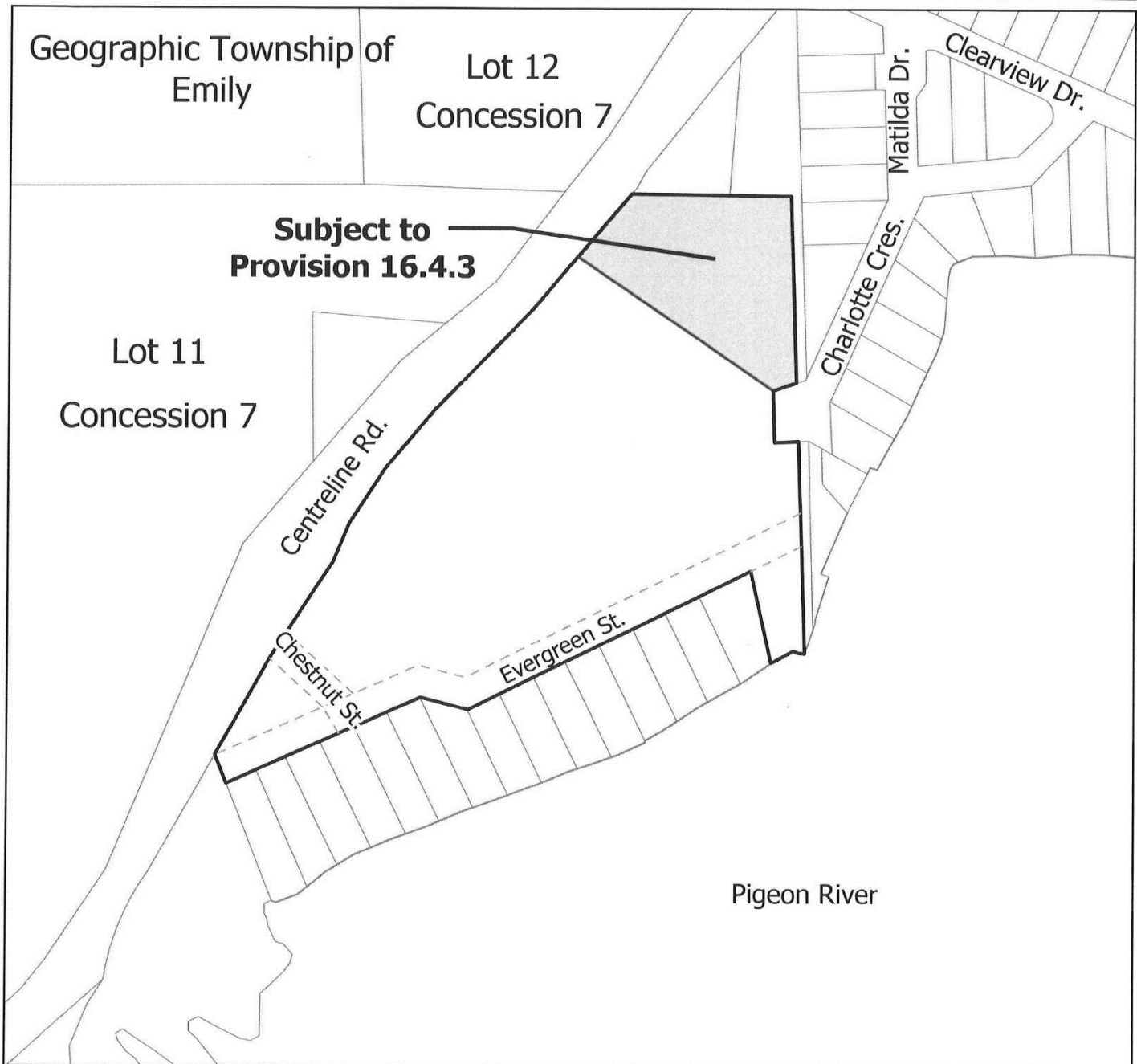
The implementation and interpretation of this amendment shall be in accordance with the relevant policies of the Official Plan.

THE CORPORATION OF THE CITY OF

KAWARTHA LAKES

Map 'A' to Amendment No. 37

To the City of Kawartha Lakes Official Plan



The Corporation of the City of Kawartha Lakes

By-Law 2020 -

A By-Law To Amend The Township of Emily Zoning By-Law No. 1996-30 To Rezone Land Within The City Of Kawartha Lakes

File D06-2019-037, Report PLAN2020-010, Part Lots 11 and 12, Concession 7, geographic Township of Emily, identified as 88 Centreline Road – Caton

Recitals:

1. Section 34 of the Planning Act, R.S.O. 1990, c.P.13 authorizes Council to determine the appropriate zoning categories and provisions assigned to land.
2. Council has received an application to amend the categories and provisions relating to a specific parcel of land to facilitate a lot severance by consent under Section 53 of the Planning Act to a portion of the property known municipally as 88 Centreline Road that has an existing second detached dwelling that is surplus.
3. A public meeting to solicit public input has been held.
4. Council deems it appropriate to rezone the Property.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-__.

Section 1:00 Zoning Details

- 1.01 **Property Affected:** The Property affected by this by-law is described as Part Lots 11 and 12, Concession 7, geographic Township of Emily, City of Kawartha Lakes, and identified as 88 Centreline Road.
- 1.02 **Textual Amendment:** By-law No. 1996-30 of the Township of Emily is further amended by adding the following to Section 7 of the Agricultural (A1) Zone:

“7.3.34 AGRICULTURAL EXCEPTION THIRTY FOUR (A1-34) ZONE

Notwithstanding articles 7.2.1.1 and 7.2.1.2, land zoned “A1-34” shall be subject to the following zone provisions:

- | | |
|------------------------|---------|
| a) Lot area (min.) | 1.2 ha. |
| b) Lot frontage (min.) | 55 m. |

7.3.35 AGRICULTURAL EXCEPTION THIRTY FIVE (A1-35) ZONE

Notwithstanding articles 7.2.1.1, 7.2.1.3 (a) and 3.1.2.1, land zoned “A1-35” shall be subject to the following provisions:

- | | |
|------------------------------|---------|
| a) Lot area (min.) | 6.7 ha. |
| b) Front Yard Setback (min.) | 26.4 m. |

- c) An existing accessory building is permitted in the front yard.

All other provisions of Section 7 and this By-law shall continue to apply.

- 1.03 **Schedule Amendment**: Schedule 'A' to By-law No. 1996-30 of the Township of Emily is further amended to change the zone category from the Agricultural (A1) Zone to the Agricultural Exception Thirty-Four (A1-34) Zone and to the Agricultural Exception Thirty-Five (A1-35) Zone for the land referred to as 'A1-34' and 'A1-35', as shown on Schedule 'A' attached to this By-law.

Section 2:00 Effective Date

- 2.01 **Effective Date**: This By-law shall come into force and take effect on the date it is finally passed, subject to the provisions of Section 34 of the Planning Act, R.S.O. 1990, c.P.13.

By-law read a first, second and third time, and finally passed, this ** day of ***, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

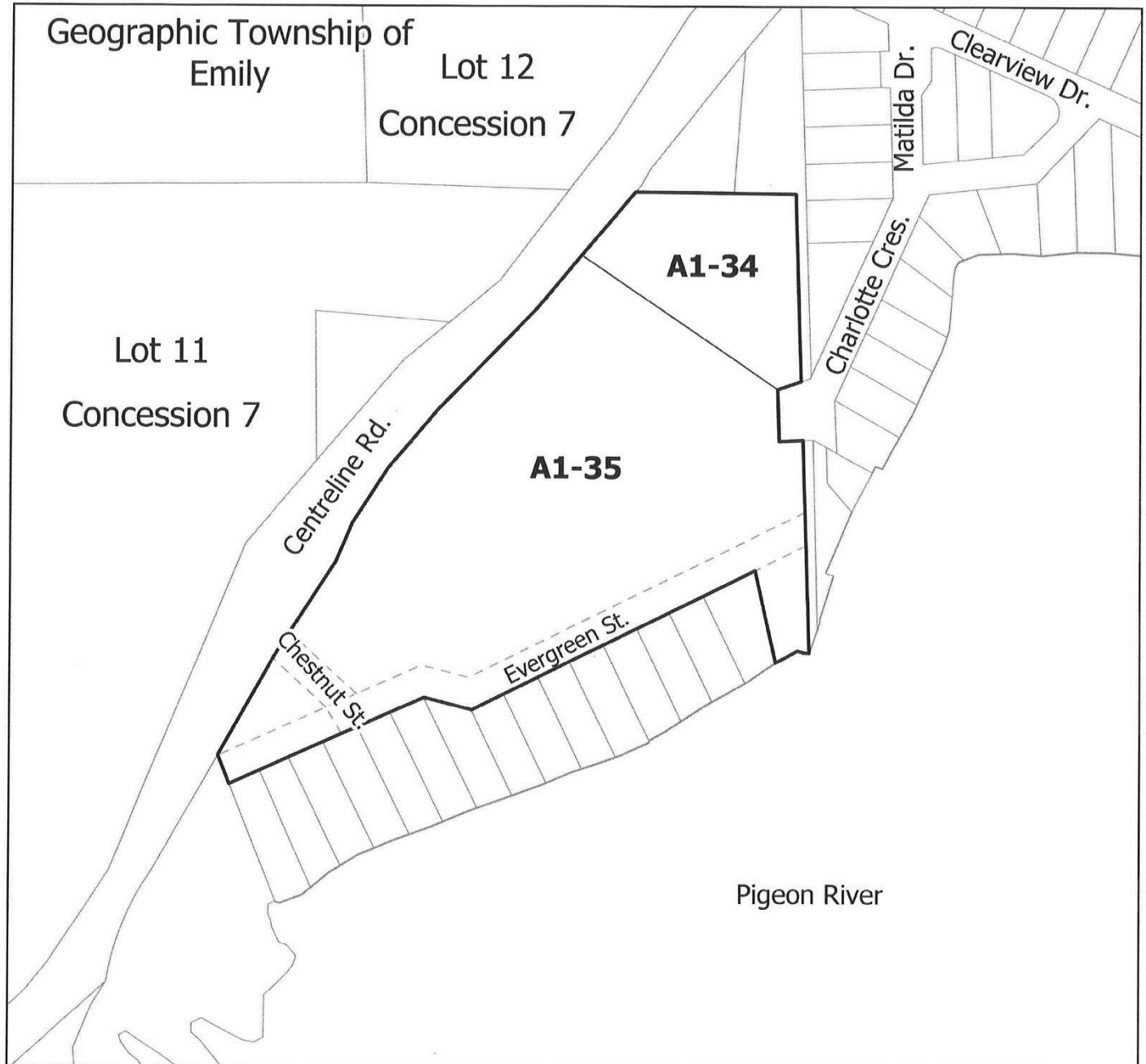
THE CORPORATION OF THE CITY OF

KAWARTHA LAKES

THIS IS SCHEDULE 'A' TO BY-LAW _____ PASSED

THIS _____ DAY OF _____ 2020.

MAYOR _____ CLERK _____



The Corporation of the City of Kawartha Lakes

By-Law 2020 -

A By-Law To Amend The Township of Manvers Zoning By-Law No. 87-06 To Rezone Land Within The City Of Kawartha Lakes

File D06-2020-001, Report PLAN2020-011, respecting Part Lot 5, Concession 13, designated as Part 1, Plan 57R-9026, geographic Township of Manvers, identified as 281 Pigeon Creek Road – Prentice

Recitals:

1. Section 34 of the Planning Act, R.S.O. 1990, c.P.13 authorizes Council to determine the appropriate zoning categories and provisions assigned to land.
2. Council has received an application to amend the categories and provisions relating to a specific parcel of land to permit a residential use to allow the construction of a larger replacement single detached dwelling.
3. A public meeting to solicit public input has been held.
4. Council deems it appropriate to rezone the Property.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-__.

Section 1:00 Zoning Details

- 1.01 **Property Affected:** The Property affected by this by-law is described as Part Lot 5, Concession 13, designated as Part 1, Plan 57R-9026, geographic Township of Manvers, City of Kawartha Lakes, and identified as 281 Pigeon Creek Road.
- 1.02 **Textual Amendment:** By-law No. 87-06 of the Township of Manvers is further amended to add the following section to Section 9.3:
 - “f. Notwithstanding the requirements of subsections Section 9.1 and 9.2, on lands zoned O1-S6, a single detached dwelling is also permitted and is subject to the provisions of subsection 3.2 with the exception of the following provisions:

a.	Minimum lot area	1615 sq.m
b.	Minimum front yard (main building)	2.4 m
c.	Min. front yard (main building with covered porch/deck)	0.9 m
c.	Min. front yard (garage attached to main building)	6 m
c.	Maximum lot coverage	20 %
d.	Accessory buildings, structures and uses in accordance with the provisions of Section 20.1, and subsections 20.1 b. (iii, and vi) shall also apply to lands zoned O1-S6 with the exception that a	

detached garage shall be subject to a minimum setback of 15 m. from the front lot line”

- 1.03 **Schedule Amendment:** Schedule ‘A’ to By-law No. 87-06 of the Township of Manvers is further amended to change the zone category from the Open Space (O1) Zone to the Open Space Special Exception Six (O1-S6) Zone for the land referred to as ‘O1-S6’, as shown on Schedule ‘A’ attached to this By-law.

Section 2:00 Effective Date

- 2.01 **Effective Date:** This By-law shall come into force and take effect on the date it is finally passed, subject to the provisions of Section 34 of the Planning Act, R.S.O. 1990, c.P.13.

By-law read a first, second and third time, and finally passed, this ** day of ***, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

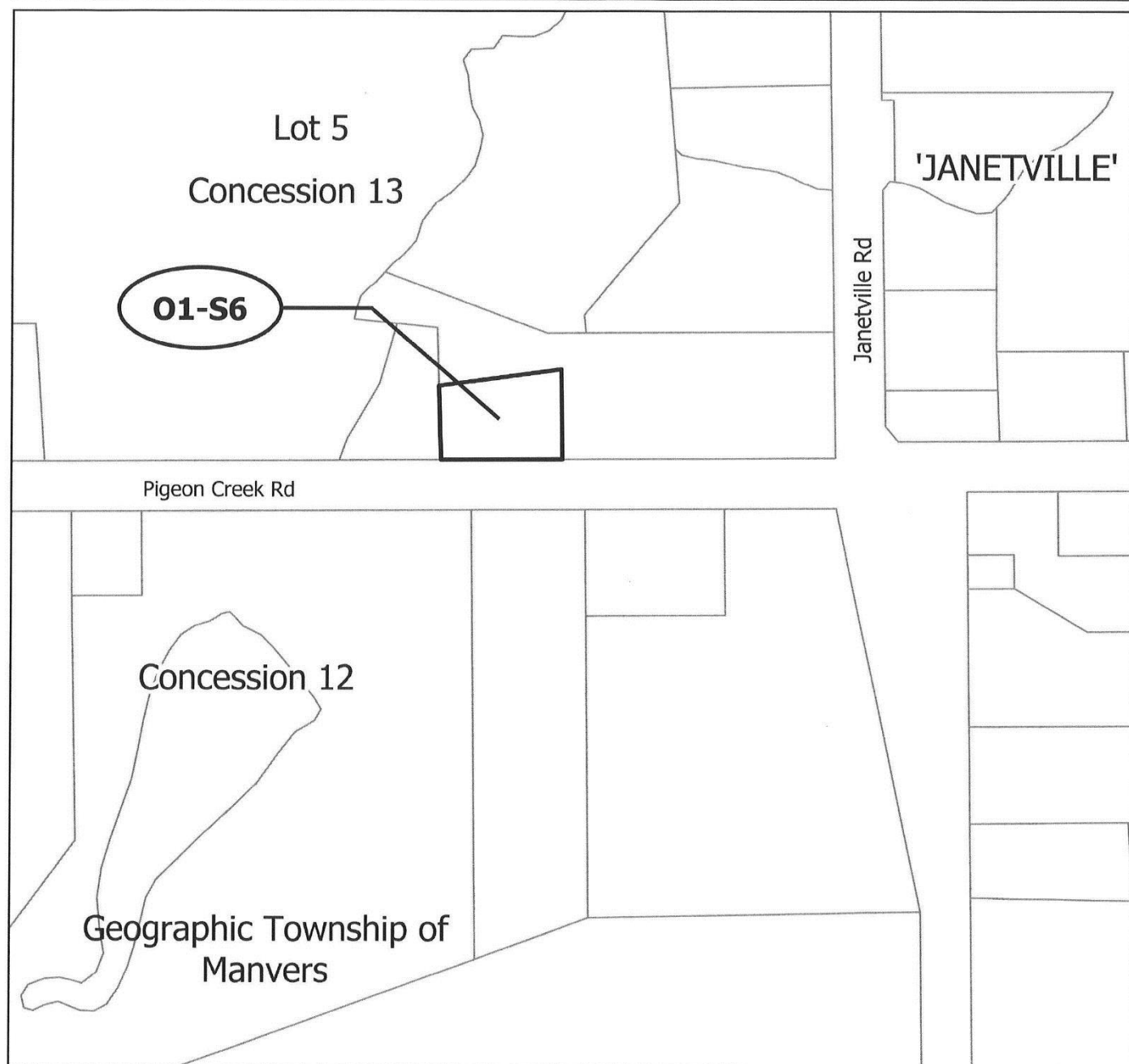
THE CORPORATION OF THE CITY OF

KAWARTHA LAKES

THIS IS SCHEDULE 'A' TO BY-LAW _____ PASSED

THIS _____ DAY OF _____ 2020.

MAYOR _____ CLERK _____



The Corporation of the City of Kawartha Lakes

By-Law 2020-XXX

A By-law to Delegate Authority for Decisions to the Chief Administrative Officer in the City of Kawartha Lakes

Recitals

1. Section 229 of the Municipal Act, 2001, as amended, states that a municipality may appoint a chief administrative officer who shall be responsible for,
 - (a) exercising general control and management of the affairs of the municipality for the purpose of ensuring the efficient and effective operation of the municipality; and
 - (b) performing such other duties as are assigned by the municipality.
2. Various federal, provincial, and local health regulations surrounding the Covid-19 pandemic have restricted the ability for Council to meet regularly.
3. This by-law provides certain delegation of authority to the Chief Administrative Officer during that time.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020.

Section 1.00: Definitions and Interpretation

1.01 Definitions: In this by-law,

“City”, “City of Kawartha Lakes” or “Kawartha Lakes” means The Corporation of the City of Kawartha Lakes and includes its entire geographic area;

“City Clerk” means the person appointed by Council to carry out the duties of the clerk described in section 228 of the Municipal Act, 2001;

“Council” or “City Council” means the municipal council for the City;

“Chief Administrative Officer” means the person who holds that position and his or her delegate(s) or, in the event of organizational changes, another person designated by Council.

“Director of Corporate Services” means the person who holds that position and his or her delegate(s).

1.02 Interpretation Rules:

- (a) The words “include” and “including” are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.

- 1.03 **Statutes:** References to laws in this by-law are meant to refer to the statutes, as amended from time to time, that are applicable within the Province of Ontario.
- 1.04 **Severability:** If a court or tribunal of competent jurisdiction declares any portion of this by-law to be illegal or unenforceable, that portion of this by-law shall be considered to be severed from the balance of the by-law, which shall continue to operate in full force and effect.

Section 2.00: Delegated Authority

- 2.01 **Delegation to Chief Administrative Officer:** The following authority, beyond the current delegated authority, is delegated by Council to the Chief Administrative Officer:
- a) The appointment or removal from office of any officer of the municipality including an Integrity Commissioner;
 - b) The hiring or dismissal of any employee of the municipality;
 - c) The disposition of any real or personal property of the municipality which has a value exceeding \$50,000.00 at the time of disposal;
 - d) Making any expenditure or incurring any other liability which exceeds \$50,000.00;
 - e) Any other requirement of Council as set forth in the Purchasing Policy of the City of Kawartha Lakes; and
 - f) Under sections d) and e) above the Director of Corporate Services shall be the alternate in the absence of the Chief Administrative Officer.

Section 3.00: Administration and Effective Date

- 3.01 **Administration of the By-law:** The City Clerk is responsible for the administration of this by-law.
- 3.02 **Effective Date:** This By-law shall come into force on the date it is finally passed and shall remain in effect until repealed by Council.

By-law read a first, second and third time, and finally passed, this 19th day of March, 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk

The Corporation of the City of Kawartha Lakes

By-law 2020-XXX

A By-Law to Confirm the Proceedings of a Regular Meeting of Council, Thursday, March 19, 2020

Recitals

1. The Municipal Act, 2001, S.O. 2001 c. 25 as amended, provides that the powers of a municipal corporation are exercised by its Council.
2. The Municipal Act, also provides that the Council's powers must be exercised by by-law.
3. For these reasons, the proceedings of the Council of The Corporation of the City of Kawartha Lakes at this meeting should be confirmed and adopted by by-law.

Accordingly, the Council of The Corporation of the City of Kawartha Lakes enacts this By-law 2020-XXX.

Section 1.00: Confirmation

- 1.01 The actions of the Council at the following meeting:

Thursday, March 19, 2020, Open Session, Regular Council Meeting

and each motion, resolution and other action passed or taken by the Council at that meeting is, except where prior approval of the Ontario Municipal Board is required, adopted, ratified and confirmed as if all such proceedings had been expressly embodied in this By-law.

- 1.02 The Mayor and the proper officials of the City are authorized and directed to do all things necessary to give effect to the actions of the Council referred to in Section 1.01 of this By-law. In addition, the Clerk is authorized and directed to affix the corporate seal to any documents which require it.

Section 2.00: General

- 2.01 This By-law shall come into force on the date it is finally passed.

By-law read a first, second and third time, and finally passed, this 19th day of March 2020.

Andy Letham, Mayor

Cathie Ritchie, City Clerk