

## **Annual Energy Consumption and Greenhouse Gas Emissions Summary 2019 City of Kingston Water and Wastewater Facilities**

Utilities Kingston has produced this annual energy consumption and greenhouse gas emissions summary for water and wastewater treatment facilities that it operates which are owned by the City of Kingston in accordance with Ontario Regulation 507/18 made under the Electricity Act, 1998.

This regulation requires provincial public agencies or municipal services boards to file a summary of energy consumption and greenhouse gas emissions for all facilities that are related to the treatment of wastewater or water for which they are responsible for making payments for the energy consumed. Utilities Kingston has also chosen to report the energy consumption and greenhouse gas emissions for any facilities related to the pumping of wastewater or water.

This summary lists all the applicable water and wastewater facilities that Utilities Kingston operates within the municipal boundaries of the City of Kingston, including address, total annual flow volume, and electricity and natural gas consumption. The template uses these values to calculate the approximate greenhouse gas emissions for each facility and combines all sources of energy to produce the equivalent energy consumption per unit volume pumped (ekWh/Megalitre). This creates a benchmarking variable that can be used to compare the energy efficiency of our facilities to others, while also serving as a platform from which we can measure the success of our own efficiency measures.

If you have questions, concerns, or input regarding this Energy Consumption and Greenhouse Gas emissions summary for the City of Kingston's municipal water and wastewater systems, please contact:

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## Energy Consumption and Greenhouse Gas Emissions Summary for 2019

Operation Name	Address	Annual Flow (ML)	Electricity Consumption (kWh)	Natural Gas Consumption (m <sup>3</sup> )	GHG Emissions (kg)	Energy Intensity (ekWh/ML)
Barrett Ct.	723 Barret Ct.	708.52	116,891	0	3,562	165
Bath - Collins Bay Rd	4054 Bath Rd.	19.27	1,789	0	55	93
Bath - Lower Drive	4146 Bath Rd.	9.54	1,311	0	40	137
Bath Rd.	1298 Bath Rd.	216.51	47,560	229	1,883	231
Bayridge Dr.	200 Bayridge Dr.	18.10	1,788	0	54	99
Cana WTP	1753 Cana Blvd.	9.96	40,785	0	1,243	4,095
Cana WWTP	1756 Cana Blvd.	36.52	95,166	0	2,900	2,606
Cataraqui Bay	409 Front Rd.	10,676.62	4,798,887	92,391	320,914	541
Collins Bay Booster	865 Collins Bay Rd.	0.01	8,609	0	262	860,900
Collins Bay Rd. PS	1205 Collins Bay Rd.	66.54	9,830	0	300	148
Coverdale Dr.	1066 Coverdale Dr.	204.58	17,378	0	530	85
Creekford Rd. Water Tower	2754 Creekford Rd.	0.01	77,533	0	2,363	7,753,300
Crerar Blvd.	46 Crear Blvd.	457.05	74,605	19	2,310	164
Dalton Ave.	266 Dalton Ave.	4,372.83	687,625	3,140	26,891	165

Operation Name	Address	Annual Flow (ML)	Electricity Consumption (kWh)	Natural Gas Consumption (m <sup>3</sup> )	GHG Emissions (kg)	Energy Intensity (ekWh/ML)
Forest Dr Water Tower	26 Forest Dr.	0.10	10	0	0	100
Greenview Dr.	38 Greenview Dr.	70.28	39,782	197	1,585	596
Hillview Rd.	740 Hillview Rd.	940.75	155,800	0	4,748	166
Innovation Dr. Water Tower	1000 Innovation Dr.	0.01	49,461	0	1,507	4,946,100
James St. Booster	229 James St.	2,654.00	344,224	0	10,490	130
James St. Pumping Station	213 James St.	183.63	78,413	0	2,389	427
John Counter Blvd.	1871 John Counter Blvd.	43.99	13,179	0	402	300
Kenwoods Circle	84 Kenwoods Circle	20.90	10,002	0	305	478
King Street WTP	300 King St.	16,041.31	5,313,219	91,780	335,431	392
King - Collingwood	300 King St.	194.73	20,021	382	1,333	124
King - Elevator Bay	1098 King St W.	18.66	19,723	0	601	1,057
King - Lake Ontario Park	920 King St W.	32.79	2,410	0	73	74
King - Portsmouth	621 King St. W.	2,273.47	225,170	6,357	18,880	129
King Street PS	74 King St	12,766.28	588,009	21,198	57,996	64
Lakeshore Blvd.	187 Lakeshore Blvd.	724.22	66,160	0	2,016	91
Main St. (Barriefield) Pumping Station	268 Main St.	0.01	13,423	0	409	1,342,300
Main St.	289 Main St	59.95	25,339	0	772	423

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Morton St.	1 Morton St.	156.19	25,256	0	770	162
Notch Hill Rd.	60 Notch Hill Rd.	0.03	155	0	5	5,424
O'Connor Dr. Reservoir	590 O'Connor Dr.	0.01	795,612	9,775	42,726	89,949,905
O'Connor Dr. Water Tower	508 O'Connor Dr.	0.01	16,544	0	504	1,654,400
Old Colony Rd. Booster	901 Old Colony Rd.	0.01	7,428	0	226	742,800
Orchard St. - Emma Martin	7 Orchard St.	71.71	15,860	0	483	221
Palace Rd.	270 Palace Rd	81.31	12,267	0	374	151
Point Pleasant	80 Sunny Acres Rd.	6,489.95	2,662,750	56,575	188,105	503
Progress Ave.	730 Progress Ave.	6,232.99	215,800	0	6,576	35
Purdys Ct.	896 Purdys Ct.	0.01	3,307	0	101	330,700
Rankin Cres.	602 Rankin Cres.	9.76	8,641	0	263	885
Ravensview Water Fill Stn	947 Hwy 2	0.01	21,091	0	643	2,109,100
Ravensview WTP	947 Highway 2	28,201.73	5,568,540	402,567	930,794	349
River St.	12 River St	25,298.47	4,186,276	90,755	299,152	204
Schooner Dr.	22 Schooner Dr.	46.00	9,985	0	304	217
Third Ave.	119 Third Ave.	16,126.40	167,448	0	5,103	10
Tower St. Water Tower	5 Tower St	0.01	8,989	0	274	898,856

Operation Name	Address	Annual Flow (ML)	Electricity Consumption (kWh)	Natural Gas Consumption (m <sup>3</sup> )	GHG Emissions (kg)	Energy Intensity (ekWh/ML)
Westbrook Rd.	1143 Westbrook Rd.	107.18	15,446	0	471	144
Yonge St	20 Yonge St.	3.79	582	0	18	154