

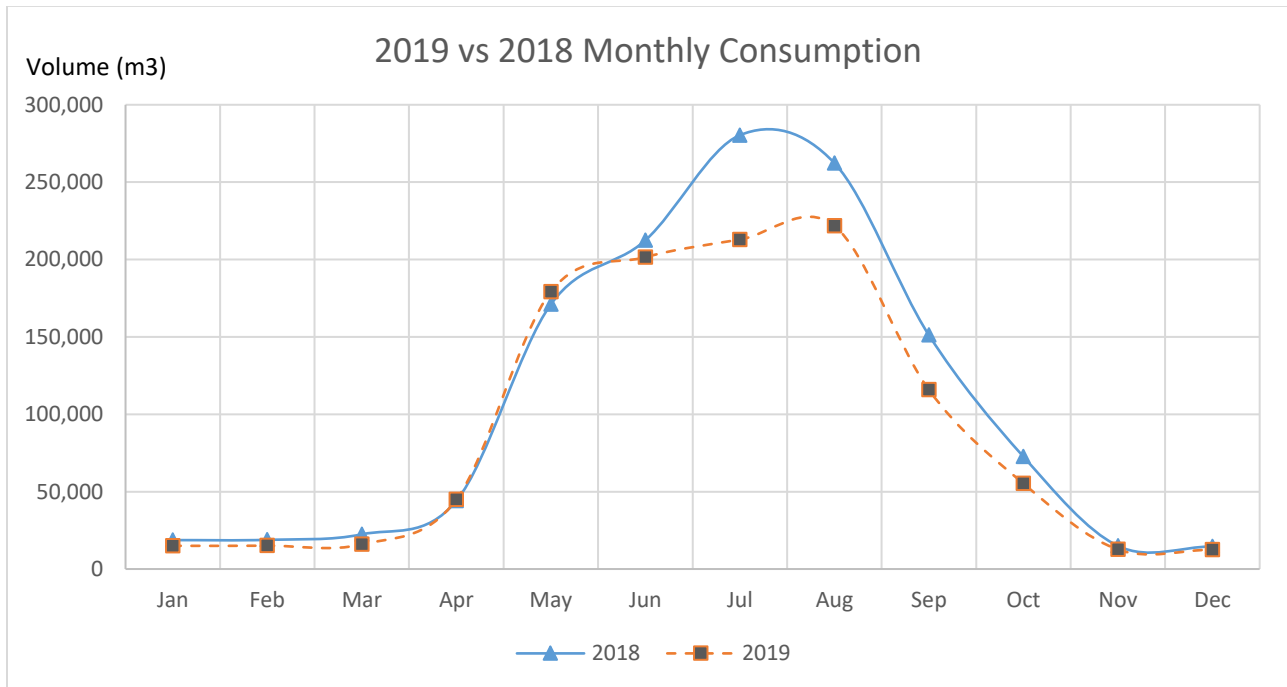
KALEDEN IRRIGATION DISTRICT

WATER QUALITY REPORT for 2019

QUANTITY OF WATER PUMPED 2019	937,043	Cubic Meters
MAXIMUM DAILY DEMAND (July 22 nd , 2019)	14,866	Cubic Meters
MINIMUM DAILY DEMAND (November 11 th , 2019)	38	Cubic Meters

In 2019, 152,406 cubic meters less was pumped than 2018. This was due to a wetter summer with milder temperatures, the public conserving water and following watering restrictions, as well as the KID staff repairing leaks.

2019 vs 2018 Consumption



Total Coliform and E-Coli Bacterial Testing Sample Locations:

KALEDEN GENERAL STORE	8
PINEVIEW NORTH END	7
LINDEN SOUTH END	8
KALEDEN DISTRICT OFFICE	11
PUMPHOUSE	9
KALEDEN SCHOOL	5
UPPER CYPRESS	<u>8</u>
TOTAL SAMPLES TAKEN	56

There were no positive E-Coli samples.

Trihalomethane Results:

	<u>100 Ash Ave.</u>	<u>621 Linden Ave.</u>
April 10 th , 2019	0.0963 mg/L	0.0965 mg/L
Oct 10 th , 2019	0.0998 mg/L	0.0876 mg/L

Guidelines for Canadian Drinking Water Quality maximum acceptable concentration is 0.1 mg/L

Distribution System Monthly Averages:

<u>MONTH</u>	<u>FREE CHLORINE RESIDUAL (mg/L)</u>	<u>TURBIDITY (NTU)</u>
JANUARY	0.21	--
FEBRUARY	0.21	--
MARCH	0.25	0.42
APRIL	0.35	0.56
MAY	0.39	0.74
JUNE	0.31	0.57
JULY	0.44	0.78
AUGUST	0.49	0.67
SEPTEMBER	0.37	0.58
OCTOBER	0.34	0.88
NOVEMBER	0.27	0.73
DECEMBER	0.39	0.70
YEARLY AVERAGE	0.34	0.66

Pumphouse Monthly Averages:

<u>MONTH</u>	<u>FREE CHLORINE RESIDUAL (mg/L)</u>	<u>TURBIDITY (NTU)</u>
JANUARY	0.77	0.10
FEBRUARY	0.67	0.14
MARCH	0.65	0.13
APRIL	0.89	0.16
MAY	0.70	0.16
JUNE	0.78	0.15
JULY	0.84	0.16
AUGUST	0.80	0.18
SEPTEMBER	0.76	0.18
OCTOBER	0.70	0.15
NOVEMBER	0.59	0.12
DECEMBER	0.60	0.12
YEARLY AVERAGE	0.73	0.15

We had one Comprehensive Water Analysis performed in November 2019 and the results are available at the office and our website listed below.

Pumphouse maintenance tasks included our annual pump and motor inspection and service. A drain valve on the main pumping line was replaced as it was found to be faulty. A new alarm system was also installed on the pumphouse to improve security. Pump #1 motor was rebuilt and a new shaft was installed.

One new domestic service was added and a few were repaired / replaced. Several irrigation services were also repaired due to failed piping or damage from vehicles/equipment. The Linden reservoir site was cleaned up of brush and garbage and will continue to be improved in 2020 as well. The Cypress booster station is mid-way through an upgrade to provide more efficient and reliable water services to customers. The building, piping and pumping system are all being upgraded.

The District will be continuing their Cross Connection Control Program to eliminate cross connections or ensure that the appropriate backflow preventers are installed. This includes agricultural, commercial and underground irrigation systems. The water conservation program will be in full effect this summer again as well, we encourage everyone to be up to date with the water restriction stages as they happen, more info on our website.

If there are any questions or concerns, please feel free to drop by the office during office hours, call 250-497-5407 or visit our website, www.kaledenirrigation.org