

Water Treatment and Distribution in London TIIAME







Lake Huron & Elgin Area Water Supply Systems

 London is supplied treated water through the Lake Huron Primary Water Supply System and the Elgin Area Primary Water Supply System

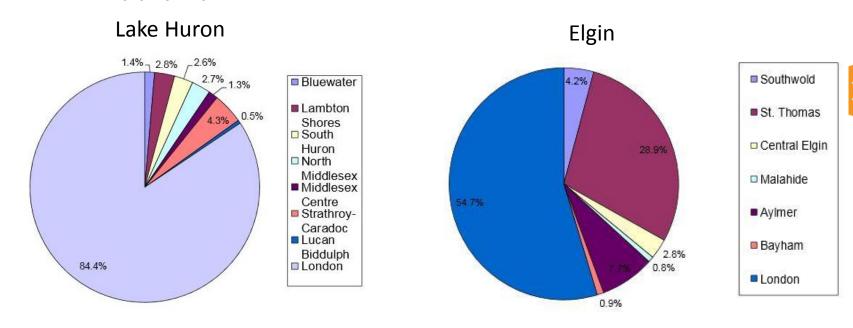


Figure 12: 2012 Treated Water Volume per Municipality

Figure 10 - 2012 Treated Water Volume per Municipality



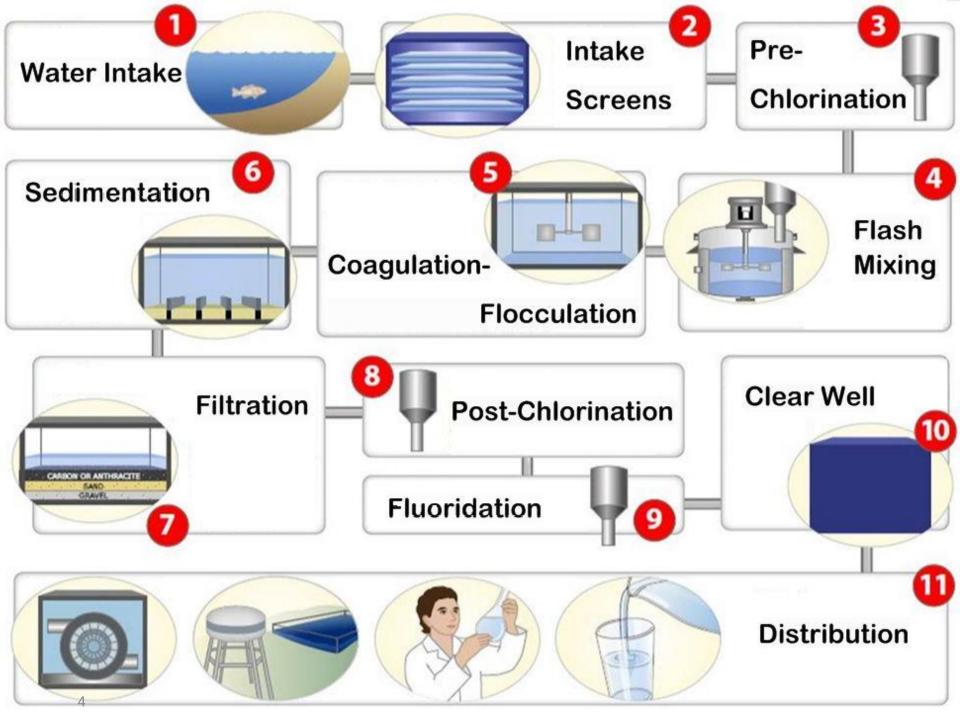
LAKE HURON

The Value of Water



- The City of London uses 132 000 000 litres per day
- The average household uses15 000 litres per month











This is the low lift pump station which pumps the lake water from Lake Erie to the treatment plant.

The lake water from Lake Huron is fully treated within this building before starting its journey to London.







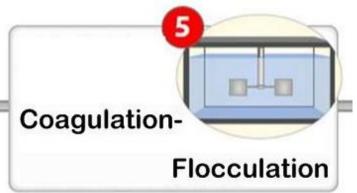
These chlorinators control the concentration of chlorine distributed throughout the treatment processes including pre-chlorination.

Chlorinator	Location
1	Intake Crib
2	Pre- Chlorinator
3	Post- Chlorinator
4	Spare (Redundancy)

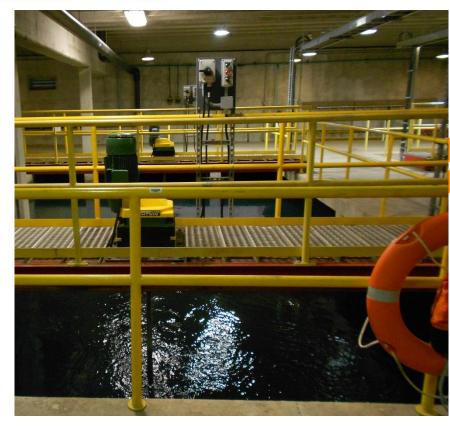






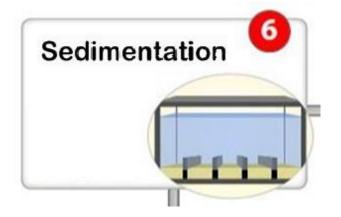












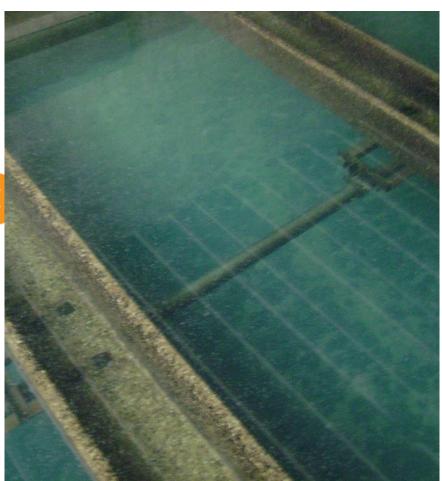


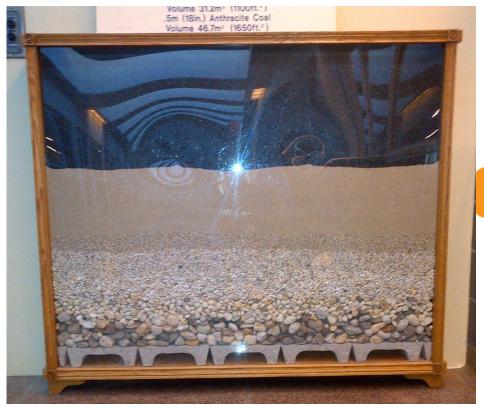












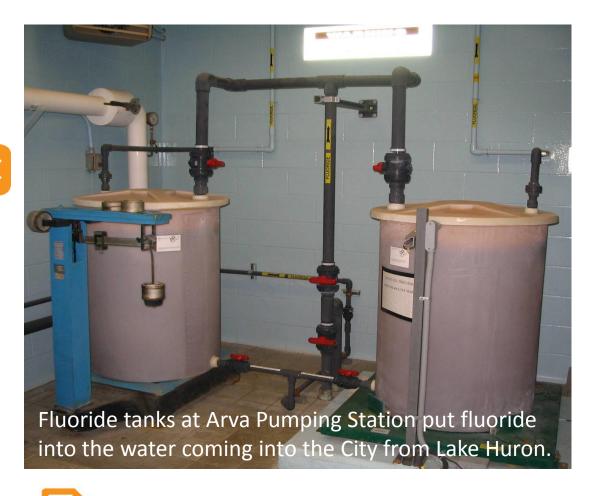
This is a diagram cross-section of the filters present at Elgin and Huron treatment plants.





Fluoridation



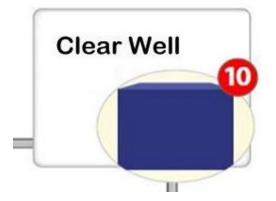




Measuring Residual Chlorine







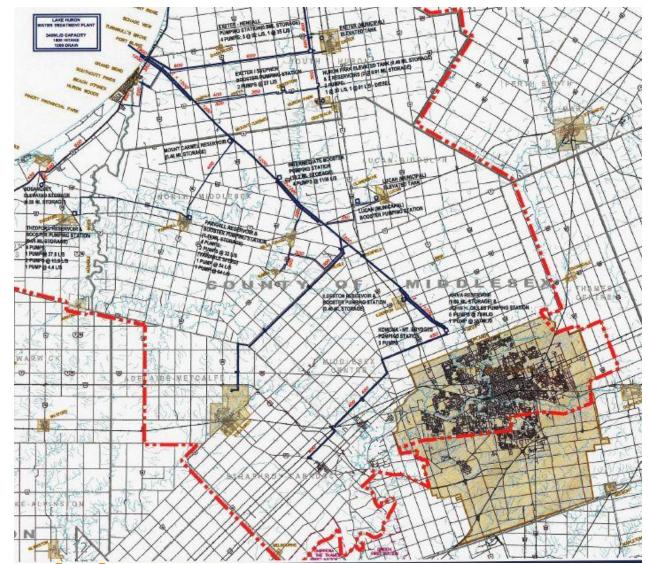






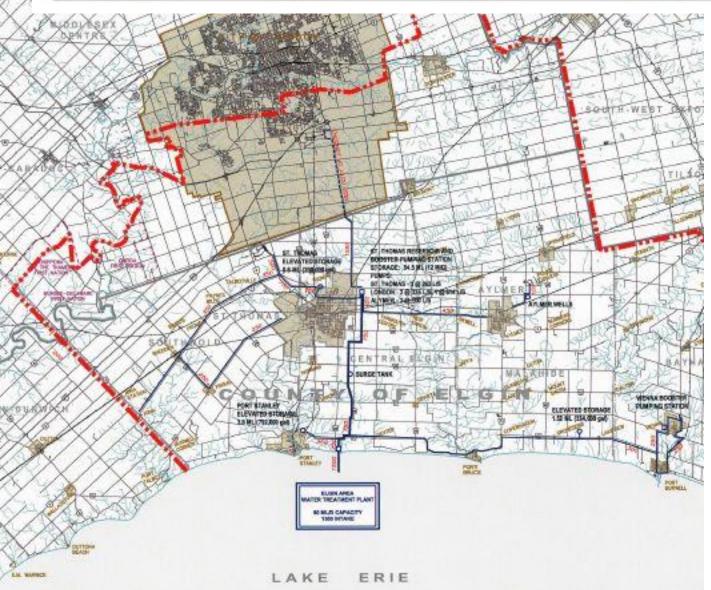






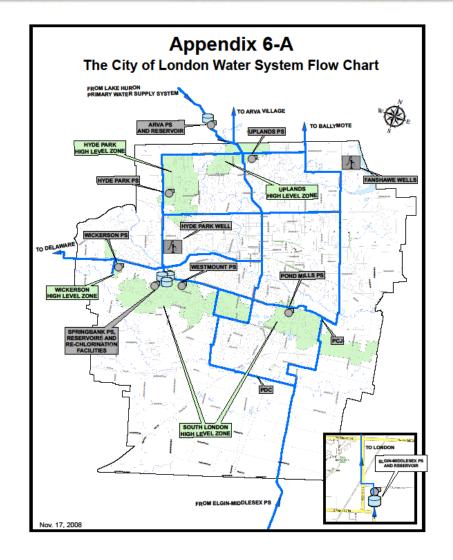


















How it Works

Pumping Stations



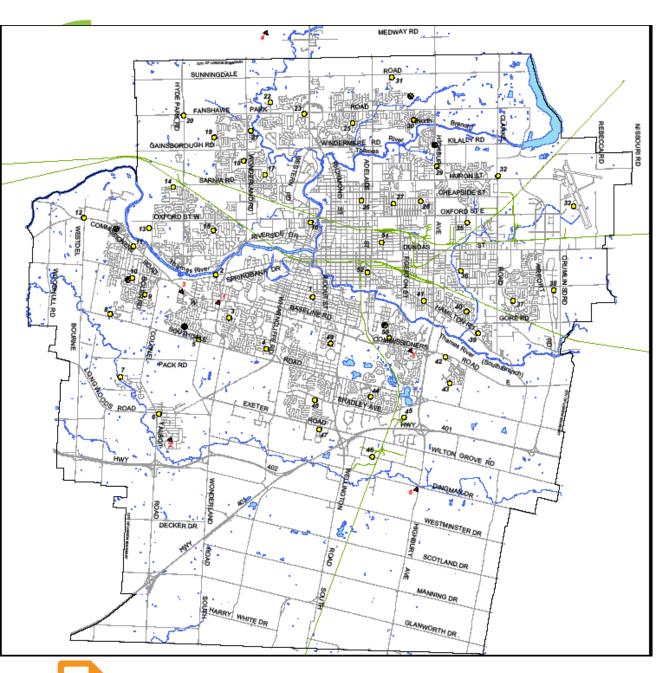


Above: Uplands Pumping Station Upper Right: Arva Pumping Station

Lower Right: Re-Chlorination at Springbank

Reservoirs





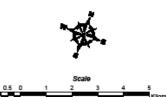
City of London Water Supply Chlorine Residuals and Bacteriological Sampling Locations

▲ Daily City Wide Sampling Locations

Location Description
Westmourt Pumping Station
47 Outer Drive
400 Pumping Station
Arva Pumping Station
Port Mills Pumping Station
1127 Commissioners Road

Monthly City Wide Sampling Locations

D	Location Description	Address
	Worsey Road School	310 Wortley Road
	Civic Gerden Complex	615 Springbank Drive
	W. Sherwood Fox School	660 Steeplechase Drive
	Sir Issac Brock School	50 St. Lewrence Boulevard
	Westmount Pharmacy	1005 Farmern Road
	Main Street Filter Plant	2525 Main Street
	Fire Hydrant	3949 West Graham Place
	Fire Hydrant Byron Somerset School	1745 Birchwood Drive 175 Whisperwood Avenue
	Byron Southwood School	1379 Lois Street
	Byron Northview Public School	1370 Commissioners Road W
	Bradshaw's Esso	1919 Commissioners Road W
	St. Thomas Aguines S.S.	1360 Oxford Street
	Fire Hydrant	1172 Manchester Road
	Oskridge Arens	825 Valetta Street
	Empress Public School Orchard Park Public School	215 Whemciffe Road N 50 Wychrood Park
	Medway Arena	119 Sherwood Forest Square
	St. Marguerite d'Youville	170 Havthome Road
	Fanshawe Motors	1445 Farehewe Park Road W
	Lewson Museum	1600 Attevenderon Road
	Fire Hydrant	178 West Rivertrace Walk
	Masonville School	25 Hillniew Boulevard
	Jack Chambers School Stoneybrook School	1650 Hastings Drive N 1460 Stoneybrook Crescent S
	St. Michael's School	926 Maidand Street
	Knowcod Park School	70 Germage Street
	Sir John A. MacDonald School	1150 Landor Street
	Montosim SS	1350 Highbury Avenue
	Northridge School	25 McLean Drive
	Mother Therees SS	1065 Sunningdele Road
	Royal Rent-All Centre London International Airport	1900 Huron Street 750 Crumin Road
	Econyenture Meadows School	141 Bonsventure Drive
	F. D. Roosevelt School	560 Second Street
	Prince Charles School	1601 Wavel Street
	John P. Roberts School	84 Bow Street
	Bubbala Diner	480 Sovereign Road
	London District Christian School	24 Braesyde Avenue
	Tweedemuir School	349 Tweedamuir Avenue
	Ealing School Mac's Convenience Store	540 Hamilton Road 1457 Commissioners Road E
	Fire Hydrant	3053 Meadowgate Boulevard
	Willon Grove School	626 Osgoode Drive
	Bucharan Hydro One Sub-Station	850 Pond Mills Road
	Fire Hydrant	1010 Green Valley Road
	Ministry of Transportation	661 Exeter Road
	White Oaks School	565 Bradley Avenue
	Sir George Ellerne Certer School C.C. Cerrothers School	695 Chiddington Avenue 360 Chippendale Crescent
	Lome Avenue School	723 Lome Avenue
	Aberdeen School	500 Grey Street

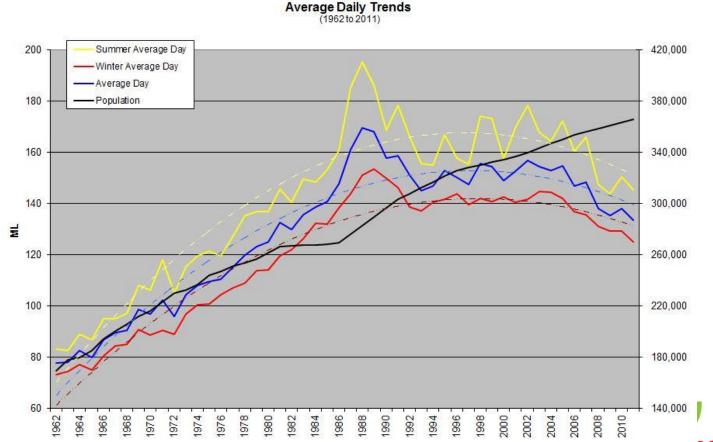






Water Use in London

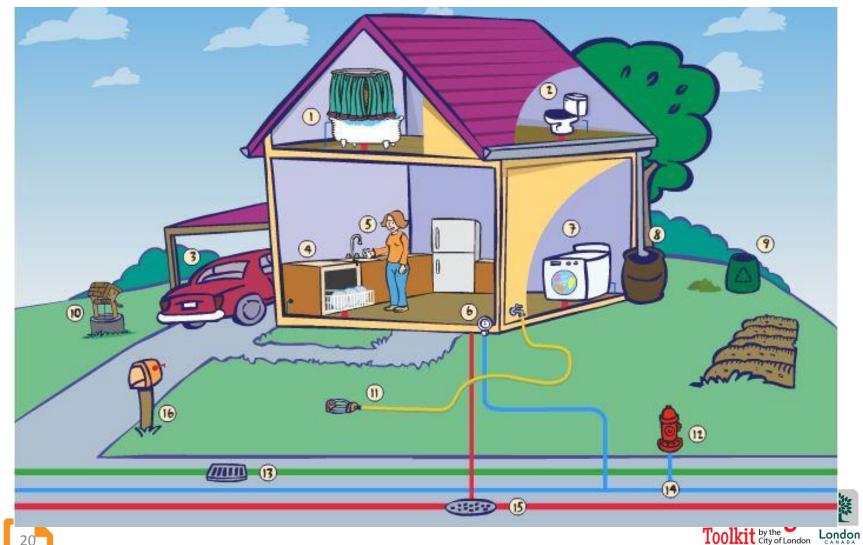
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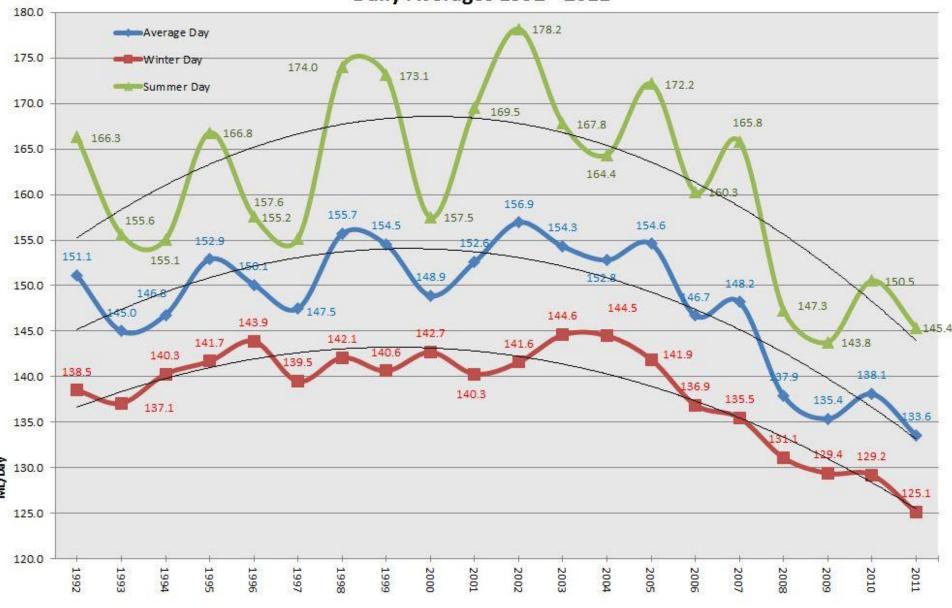




WATER



Daily Averages 1992 - 2011



Conclusion

- As population continues to increase in the City of London there will be increased demands on our water system.
- Water conservation is a great way to reduce these impacts!



