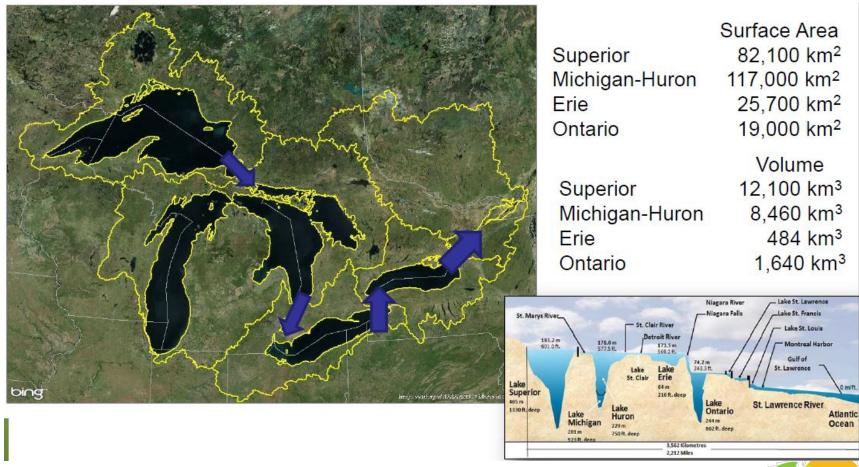
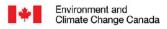


Conservation Authority sustaining the place for life

#### The Great Lakes – St. Lawrence System

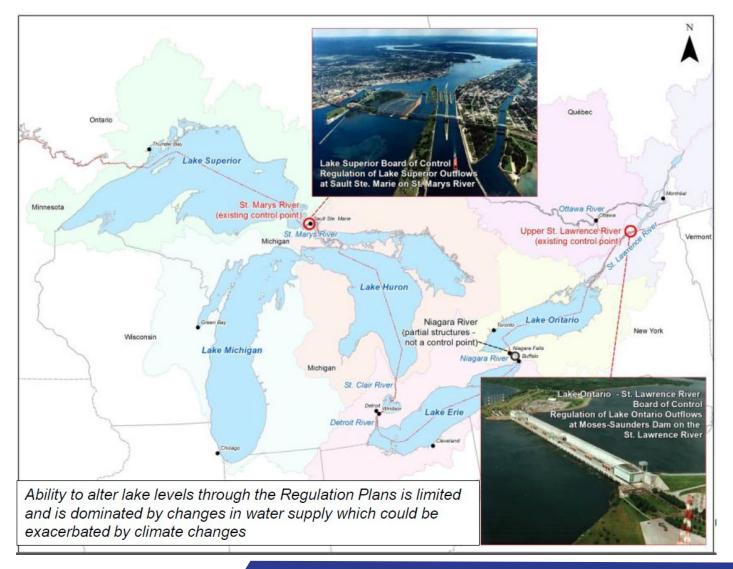






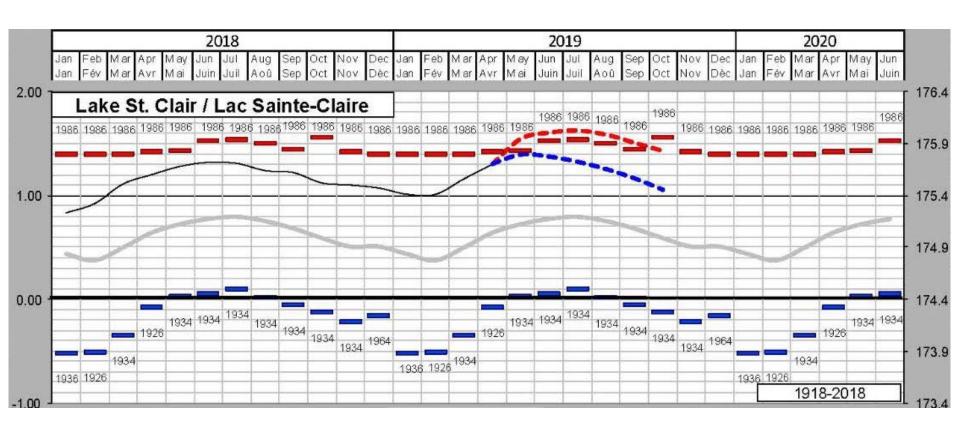


#### **IJC Great Lakes Boards of Control**





### **Current Water Levels / Projections**

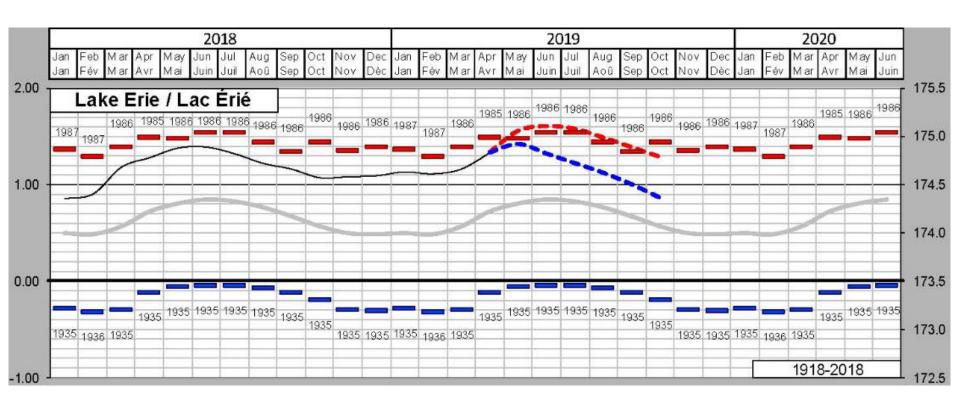


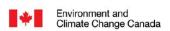






### **Current Water Levels / Projections**



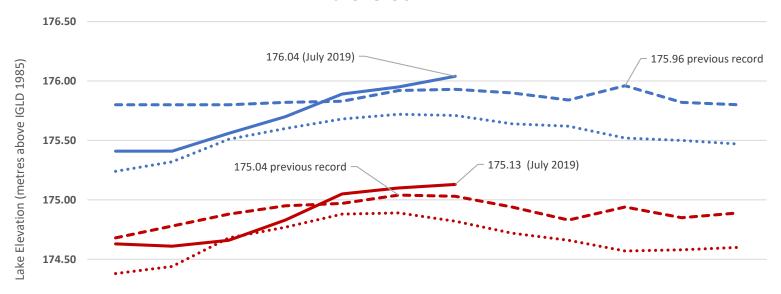






#### **Current Water Levels**

#### **Lake Levels**



174.00												
174.00	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b></b> St. Clair 1986	175.80	175.80	175.80	175.82	175.83	175.92	175.93	175.90	175.84	175.96	175.82	175.80
••••• St. Clair 2018	175.24	175.32	175.51	175.60	175.68	175.72	175.71	175.64	175.62	175.52	175.50	175.47
St. Clair 2019	175.41	175.41	175.56	175.70	175.89	175.95	176.04					
<b></b> Erie 1986	174.68	174.78	174.88	174.95	174.97	175.04	175.03	174.94	174.83	174.94	174.85	174.89
••••• Erie 2018	174.38	174.44	174.68	174.77	174.88	174.89	174.82	174.72	174.66	174.57	174.58	174.60
Erie 2019	174.63	174.61	174.66	174.83	175.05	175.10	175.13					

#### **Great Lakes Levels**

#### Current Lake Levels with respect to Historical Levels (cm above or below)

	Long-Term	Compared to	Compared to	Compared to	
Lake	Monthly Avg a	one year ago	Monthly High	<b>All-Time High</b>	
Lake Superior	+ 34	+ 20	+ 3	-6	
Lake Michigan-Huron	+ 79	+ 39	-2	-13	
Lake St. Clair	+ 86	+ 35	+ 13	+ 10	
Lake Erie	+ 84	+ 35	+ 14	+ 13	
Lake Ontario	+ 85	+ 80	+ 17	+ 5	

<sup>&</sup>lt;sup>a</sup> Period of Record is 1918 - 2018

Note: Information obtained from Environment and Climate Change Canada



#### **Great Lakes Outflow Data**

	Outflow from the Great Lakes <sup>a</sup>						
Lake	December	January	February	March			
Lake Superior	112%	115%	135%	138%			
Lake Michigan-Huron	116%	119%	118%	124%			
Lake Erie	121%	126%	125%	122%			
Lake Ontario	124%	116%	126%	128%			

<sup>&</sup>lt;sup>a</sup> As a percentage of monthly long-term average

Environnement et

Note: Figures are preliminary and obtained from Environtment and Climate Change Canada







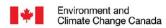
### **Great Lakes Precipitation Data**

#### February precipitation over the Great Lakes a,b

Lake	%
Great Lakes Basin	139%
Lake Superior	172%
Lake Michigan-Huron	143%
Lake Erie (including Lake St. Clair)	114%
Lake Ontario	105%

<sup>&</sup>lt;sup>a</sup> As a percentage of February long-term average.

Note: These figures are preliminary.



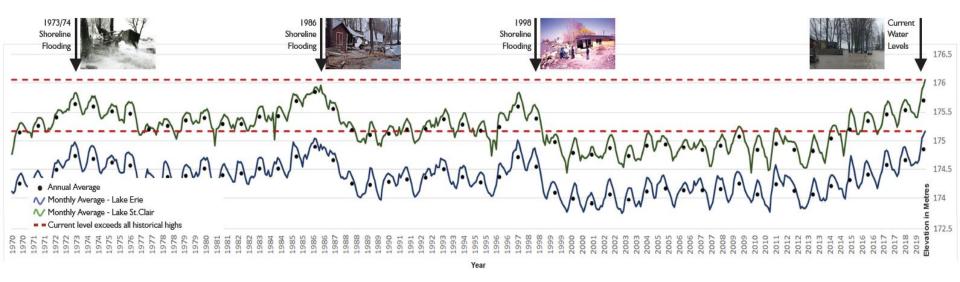






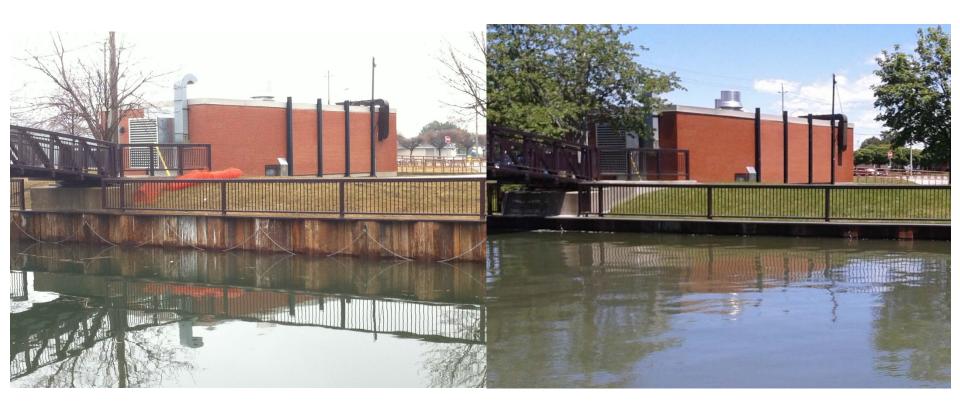
<sup>&</sup>lt;sup>b</sup> United States Army Corps of Engineers

#### Lake Erie and Lake St. Clair





# **Little River – Little River Pump Station at Riverside Drive**



March 2015 June 2017



### Wind and Lake Flooding



### Flood Watch/Warning



#### **FLOOD WATCH**

The Essex Region Conservation Authority advises that, due to predicted winds out of the southwest blowing at 30 to 40 kph, with potential gusts to 70 kph, the possibility of shoreline erosion and flooding resulting from wave overtopping breakwalls and resulting spray exists within the region particularly for areas in the east limit of the Town of Essex, the Town of Kingsville and the western portions of the Municipality of Leamington west of Point Pelee National Park and the west side of Pelee Island.

People should take extra caution and avoid shoreline areas. Waves overtopping breakwalls/shorelines can be extremely dangerous. Standing water can also present its own unseen hazards. Children, pets and livestock should be kept away from flowing water, standing water and breakwall/shoreline areas.

Weather forecasts will continue to be monitored and updates provided as required.



#### FLOOD WARNING

The Essex Region Conservation Authority advises that, the previously issued Watershed Conditions Statement – Water Safety (issued at 4:00 pm on Friday, May 19, 2017) has been upgraded to a **FLOOD WARNING** for portions of the Municipality of Leamington. Due to continuing winds from the east at 30 kph, with gusts to 50 kph, flooding is occurring within the Cotterie Park Road area. In the affected area, portions of the traveled road surface and private lands are covered with water. Flooding, shoreline erosion and damaging waves may also impact other shoreline areas throughout the night along the east shoreline of the Municipality of Leamington between Wheatley Harbour and Point Pelee National Park as the winds continue to blow from the east. The public is advised to avoid these areas. People who must access these areas are advised to use extreme caution when traveling through floodwater.

Due to the elevated lake levels and the easterly winds, the Municipality of Leamington should also monitor the dykes in the Southeast Leamington area.

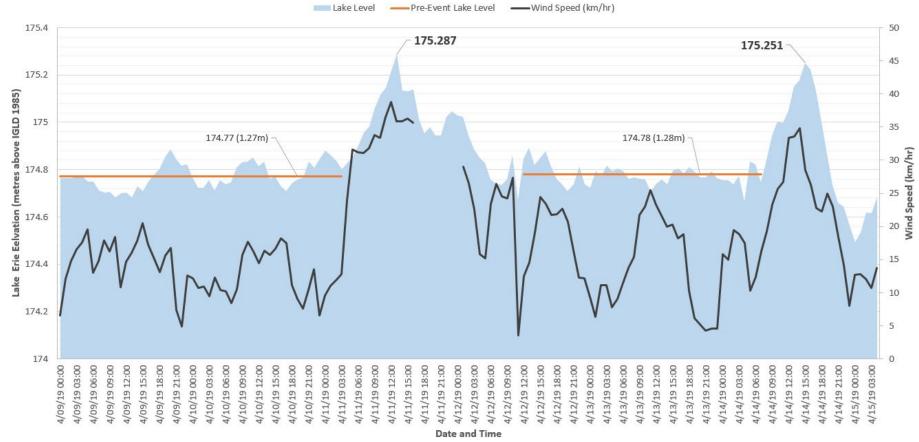
Due to the predicted wind speed and duration, areas along the Detroit River may experience increased water levels due to the lake setup.

Due to continuing easterly winds, the previously issued Watershed Conditions Statement – Water Safety (issued at 4:00 pm on Friday, May 19, 2017) has been upgraded to a **FLOOD**WATCH for the Lake Frie shoreline on the east side of Pelee Island to include the possibility of



### Recent Storm Events (Apr. 11, 14)

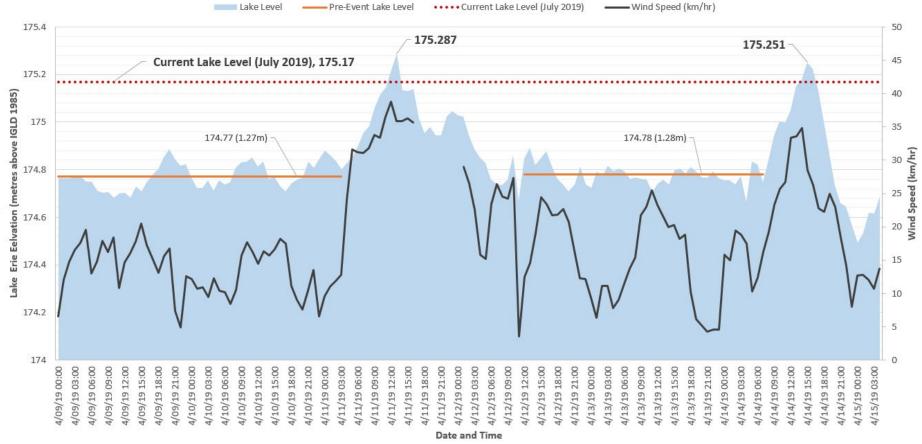
#### Lake Levels vs Wind Speed





## Recent Storm Events (Apr. 11, 14)

#### Lake Levels vs Wind Speed







Lake Erie - Sturgeon Creek Outlet



Lake Erie – Point Pelee Drive





Lake Erie – Cotterie Park Road 2019 (April 11, 14 and May 1, 8, 12)



Lake Erie – Cotterie Park Road (2019)



Lake Erie – Cotterie Park Road (2018)





Lake Erie – Cotterie Park Road (2018)



Lake Erie – Pelee Island





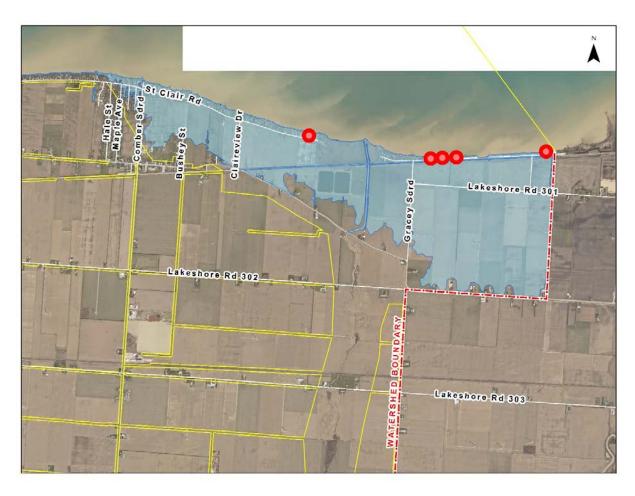
Lake Erie – Pelee Island



Lake St. Clair



## **Potential Lake Flooding (key map)**



Couture Beach Rd., Crystal Beach Rd., St. Clair Rd.





Couture Beach Road





Couture Beach Road





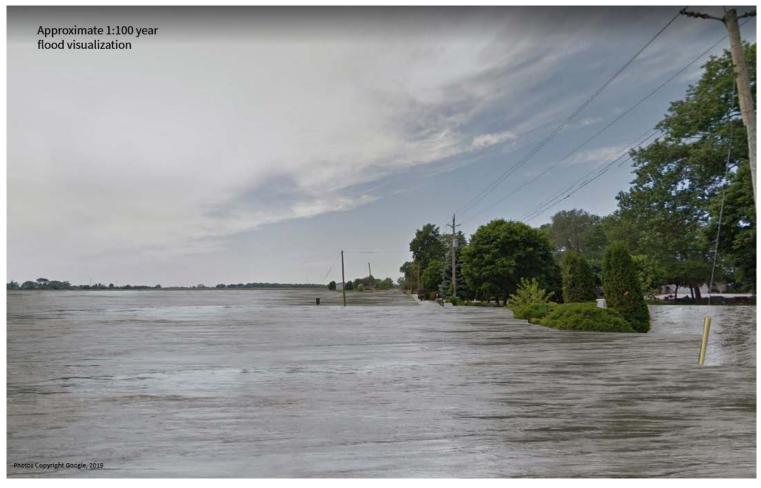
Crystal Beach Rd



Crystal Beach Rd

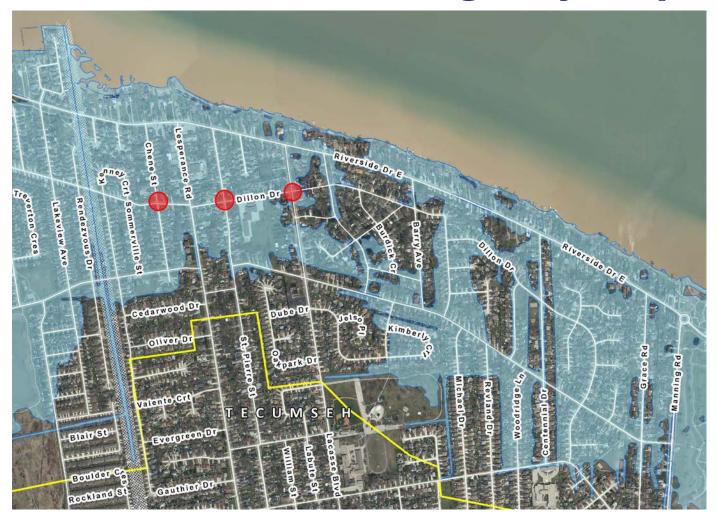


St. Clair Road



St. Clair Road

## **Potential Lake Flooding (key map)**



Intersections of Chene, Lacasse and St. Pierre at Dillon Drive

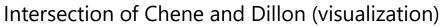




Intersection of Chene and Dillon







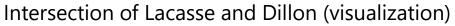










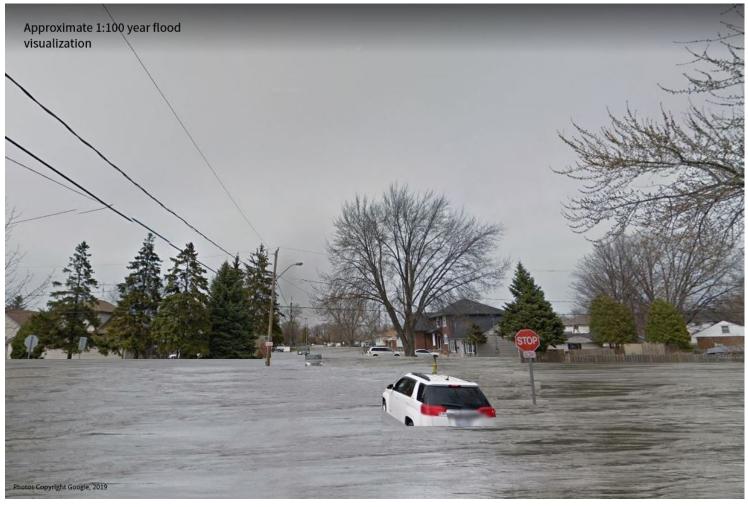


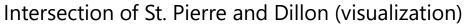




Intersection of St. Pierre and Dillon









## **Recent Storm Events (Rainfall)**



Lesperance Road

## **Recent Storm Events (Rainfall)**



Lesperance Road – one block south of Riverside Drive

## **Questions**



