

From: Ron Fry

Sent: January 23, 2022 6:45 PM

To: info@barringtonmunicipality.com; clerk@clarksharbour.com; kathy.johnson@saltwire.com

Subject: Cape Sable Island Causeway

Dear Sir or Madam,

I am deeply concerned about the Causeway as the Beach gets closer to halting the tide on the East side of the man made structure. It will begin acting as a dam once the tide cease to exist.

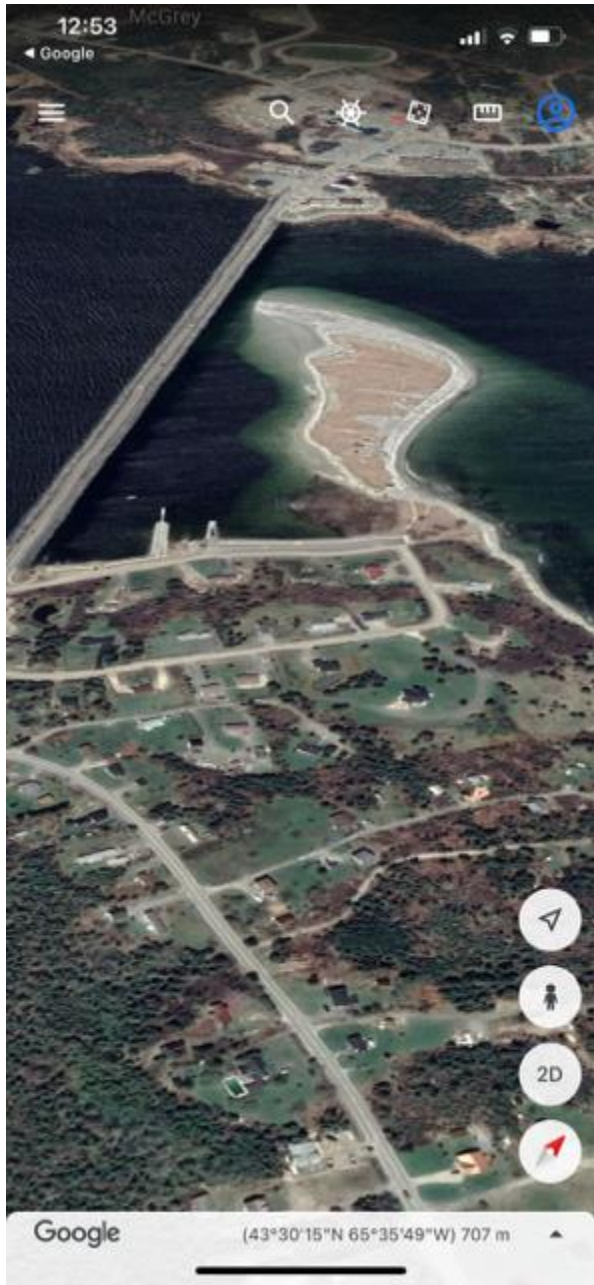
The Department of Transportation has NO expertise in this matter anymore. There will be up to 11 feet of head on the West side during spring tide and even more during a storm surge. Hydrostatic pressure will increase as the water level increases on the West side. Dredging the beach is a joke so don't even go there. This is the fastest growing beach in Nova Scotia.

Never involve DFO with regards to the Causeway even if a decision to open the structure ever occurs. A bridge needs to be addressed and soon before the Causeway fails. The structure is 50 feet across at the deck , 118 feet across at the base and is roughly 50 feet in height. It took 111,000 cubic yards of rock to build, far less than the initial 260,000 cubic yards first forecast in 1947. It was to be a million dollar project that eventually cost \$600,000. All in all it only took a year to build. I have deep concerns that during a future storm surge the structure will fail. It was NEVER designed by The Armstrong Brothers to be a DAM.

The beach is 75 % of the way across and is accumulating sand at a rate of 35-49 metric tonnes of sand per day. It is growing at a rate of 30 feet/ year towards the mainland in 18 feet of water and is now less than 100 feet from making contact against the Causeway. As it gets shallower the quicker it will fill in and halt the tide on The East side of the Structure.

If we lose the Causeway... life as we know in on the Island will never be the same... no power.... No means of getting food, etc.





Ron Fry
Coastal Geomorphologist

Sent from my iPhone