

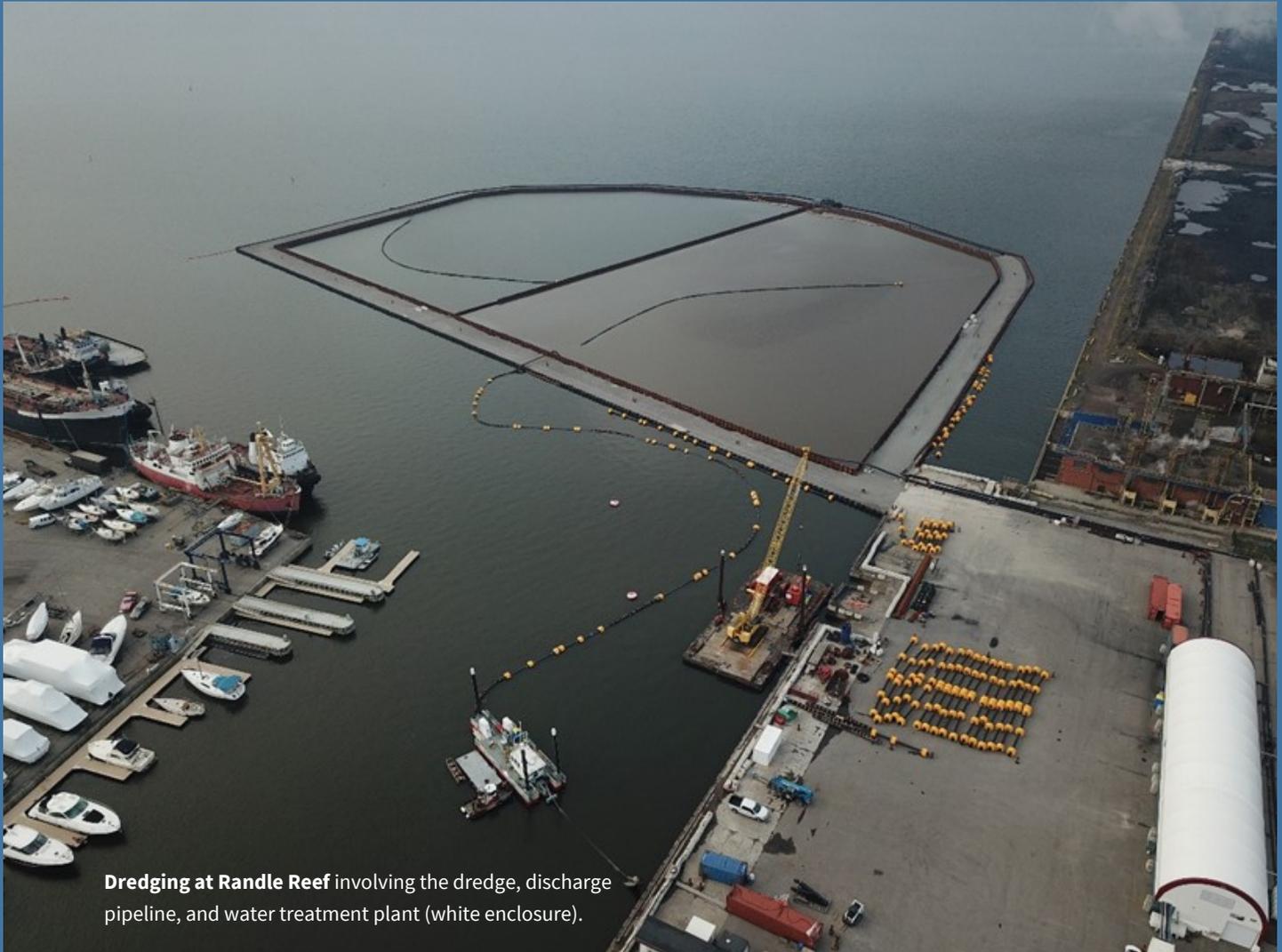
What's Up @ Randle Reef

December 2020

RandleReef.ca



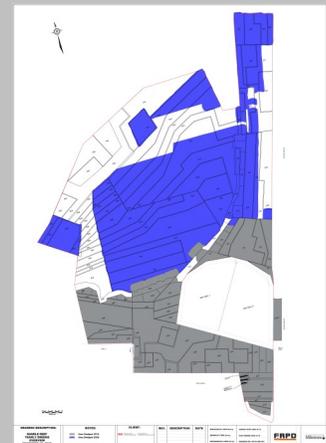
BAY AREA RESTORATION COUNCIL
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Dredging at Randle Reef involving the dredge, discharge pipeline, and water treatment plant (white enclosure).

The following Stage 2 activities were on-going at the site over the past 6 months:

- Hydraulic dredging, associated filling of the Engineered Containment Facility (ECF), and on-site water treatment
- Placement of sand and a reactive core mat to create an isolation cap on sediment in Stelco Channel
- Armouring of the isolation cap



Dredging progress in 2020 is shown in blue, 2019 in grey.



DREDGING

The ongoing removal of contaminated sediment was delayed due to COVID-19. Dredging continued from June through December.

Completion of the Stage 2 dredging and capping of contaminated sediment has been updated to October 2021:

- Three months were lost due to pandemic-related shutdowns.
- Contaminated sediment in some areas was not as deep as estimated. Additional dredged sediment can therefore be contained in the ECF, although more dredging will require more time.

Additional dredged areas also means that fewer areas will require a thin layer capping.

Currently dredging is about 80% complete (see the illustration of areas dredged in 2019 and 2020 on the previous page). The remaining sediment will be dredged during the spring and summer of 2021.

The final overall ECF project completion date is now expected to be in the Fall 2023, revised from December 2022.

ISOLATION CAP

Sand placement

The 5,000m² area between the ECF and Stelco's property is the Stelco Channel. Placing the isolation cap on the channel bottom began in September to ensure that any contaminants able to migrate up through the sediment meet provincial water quality objectives.

The placement of sand was completed inside a silt curtain enclosure called a "moon pool" to minimize the impacts of suspended sand in the surrounding water. The cap is 75% complete with the placement of sand, reactive core mats and some armouring to protect the cap layers from erosion.



Reactive core mat is reeled out from a barge using an excavator. Once in position, sand is placed on top to weight it down.



Layers of sand amended with organic matter creates the isolation cap.

Reactive Core Mat Placement

Reactive core mats enhance the effectiveness of the isolation cap in areas where the height of the isolation cap is limited by the presence of a water intake or elevated contaminants in the underlying slag.