

What's Up @ Randle Reef

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BAY AREA RESTORATION COUNCIL
ECOLOGY · INDUSTRY · RECREATION

All contaminated sediment surrounding the Randle Reef Environmental Containment Facility (ECF) was dredged from Hamilton Harbour into the ECF during Stage 2 of construction.

A video highlighting the Stage 2 environmental dredging and capping activities was released in November 2022.

Right-click the play buttons to open the video in a browser:



[French](#)



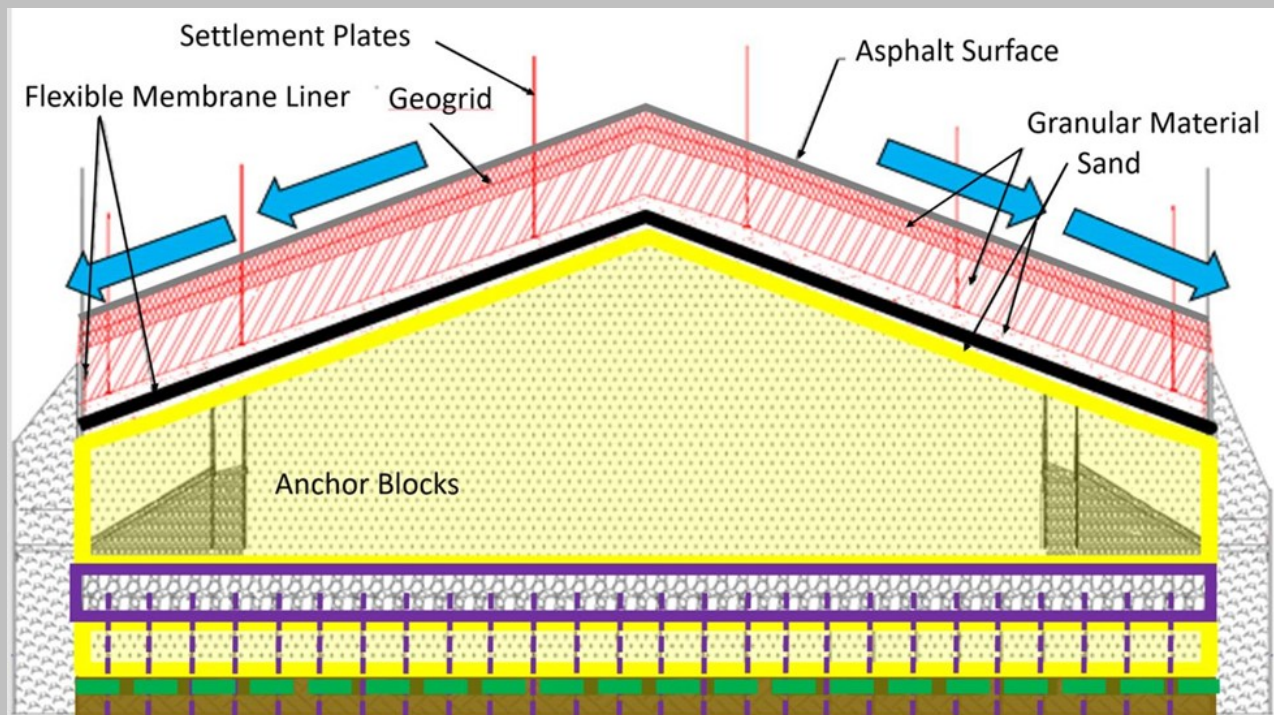
[English](#)



Aerial view of the ECF in September 2022

Final preparations for tendering Stage 3 began in Fall 2022 following completion of de-watering and the pilot test of the ECF cap that successfully demonstrated the stability of the dredged sediment.

Stage 3 of the project to place an environmental cover on top of the ECF is anticipated to be out for tender in early 2023.



Stage 3 ECF cap construction steps include:

1. Placing the **geogrid** and **geotextile** atop the dredged sediment to provide additional support.
2. Adding **secondary materials** from Stelco atop the geogrid and geotextile.
3. **Installing vertical wick drains, horizontal drainage strips and drainage stone layer** to help the flow of water out of the sediment during consolidation.
4. Adding another layer of **secondary materials** with anchor blocks to provide long term structural support to the walls of the ECF. Using these materials will allow reconfiguration of the ECF surface grades and **surface drainage** without incurring additional cost.
5. Installing the environmental barrier, a **flexible membrane liner**, with additional layers of **clean materials** (such as sand and other granular material). Settlement plates will be used to help measure elevation change of the cap during consolidation.
6. Placing pre-load (that is, material to provide extra weight) atop the partially constructed cap to help further compress the underlying sediment.
7. Removing the pre-load and installing a granular base and asphalt surface once the desired consolidation has been achieved.
8. Adding port facility infrastructure such as surface water management systems.