

# What's Up @ Randle Reef

December 2021

Issue 3

RandleReef.ca



BAY AREA RESTORATION COUNCIL

ECOLOGY · INDUSTRY · RECREATION

## All in-water activities for the Randle Reef Engineered Containment Facility (ECF) are complete!

Stage 2 activities on-going at the site over the past six months:

- After the end of contaminated sediment dredging in June to fill the ECF, a three-layer isolation cap was placed in the Stelco Channel in July to cover and safely contain remaining contaminated sediment in the channel. The layers include reactive core mats of geotextile fabric to bind contaminants, a 65cm layer of sand with 3% organic carbon to further bind contaminants, and finally a covering layer of rip-rap for erosion prevention.
- Near the Stelco dock where sediment dredging was challenging due to slag, mechanical dredging was used then covered by thin layer capping. The completion in September of a thin cap of sand created a new and cleaner substrate at the sediment-water interface.
- Dewatering of the ECF ended in December and will begin again in Spring 2022.
- Stage 3 will involve placing an environmental cover over the entire ECF beginning in Fall 2022. Prior to tendering a Stage 3 contractor, a pilot project is planned for Spring 2022 to demonstrate the means of placing the environmental cap over the contaminated sediment in the ECF.



Aerial overhead of the ECF in mid September



### Overhead view of the ECF at Randle Reef in late November

Most of the pooled precipitation on the ECF had been removed by the end of November .

Any collected surface water remaining in Spring 2022 will be pumped off and treated in preparation for the Stage 3 multi-layer environmental cover.



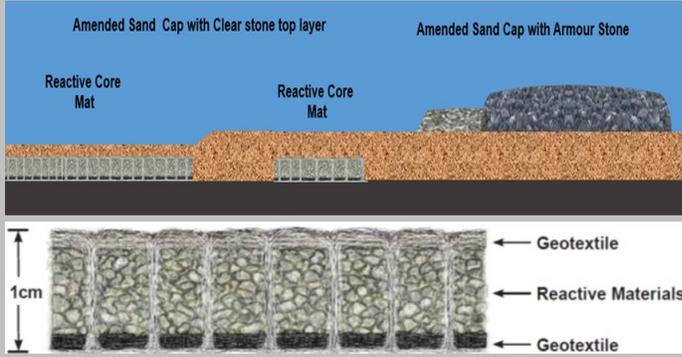
Placement of the isolation cap in Stelco channel in Fall 2021 (1) the sand layer



Placement of the isolation cap in Stelco channel in Fall 2021 (2) the reactive core mat



Placement of the isolation cap in Stelco channel in Fall 2021 (3) top layer of rip rap



[Top] Overhead diagram: Stelco channel isolation cap  
 [Middle] Cross section of sand cap under armour layers  
 [Bottom] Cross section of reactive core mats