

VICTORIA BEACH SHORELINE AND BEACH MANAGEMENT ADVISORY COMMITTEE

Meeting minutes, April 13, 2017

Location: SUITE 705 - 1661 PORTAGE AVENUE - WINNIPEG, MANITOBA
Date: April 13, 2017, 5 pm
Present: Tamie Archer, Gord Buchanan, Jennifer Engbrecht, Peter Garagan, Patrick Hoger, Doug Peterson, Wisam Razaq, Ron Hampton
Regrets: Rick McQuay, Nelson Hastman

Previous Meeting Minutes

All in attendance accepted the minutes of March 14, 2017 as accurate.

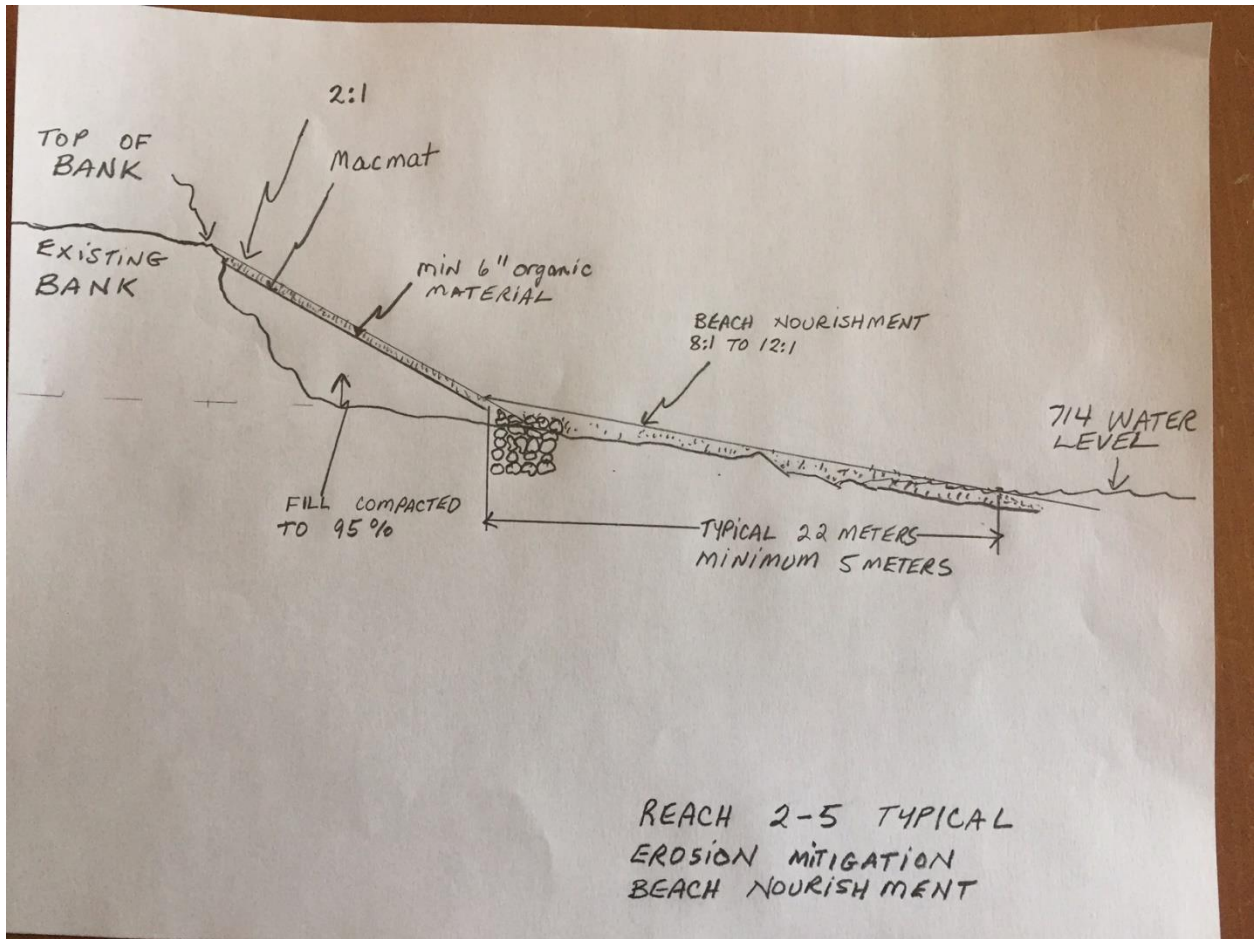
General Discussion on Design Criteria

There was some excellent discussion on general criteria used for stabilizing shorelines to mitigate erosion. Topics included:

- Gabions imbedded in the banks may work well depending on location. In north facing locations, toe rocks may be a better choice.
- Safety factors calculated by design engineers for bank stability typically require 1.5 or greater safety factor. Variables affecting design include load on the bank, material, saturation of soil and height of the bank.
- Slope from the top to the toe of the bank minimum 2:1 to maintain a safety factor of 1.5 95% compaction on the slope. Geotechnical material such as Macmat or Geoseal is anchored to the slope with 6 inch layer of organic material on top of Macmat. See page 47 of Beach Nourishment Gentle Slope and Bank Stability
- Gentle slope towards waters edge 8:1, minimum gentle slope 5 meters long ideally 22 meters. Gentle slope of sand acts to dissipate the energy of the waves as water sinks into the sand and flows back to the lake slowly through the sand. This results in minimizing the impact the waves on eroding the banks that the .
- Breakwater, there was a consensus that breakwaters out from shore would typically not be acceptable as it would constitute a hazard for sailboarding, etc.
- Groynes, Wisam suggested that all groynes would extend onto the beach at the same height as the gentle slopes. There was some discussion on the number of groynes on the Patricia Beach pilot

Reach 2-5 Standard Design

The design for Reaches 2-5 was modified from the minutes of of March 14 and is shown below.



Next Meeting

The next meeting will be Thursday May 4 at 5 pm in the council office on Portage Ave.