



TOWNSHIP OF/CANTON DE  
**Tiny**

# Dynamic Beach Management Draft By Law

Public Information Centre

February 3 and 4, 2025





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# Agenda

6:00-6:01 – Introduction to the team

6:01-6:05 – Meeting Objectives, protocol, and PIC rules

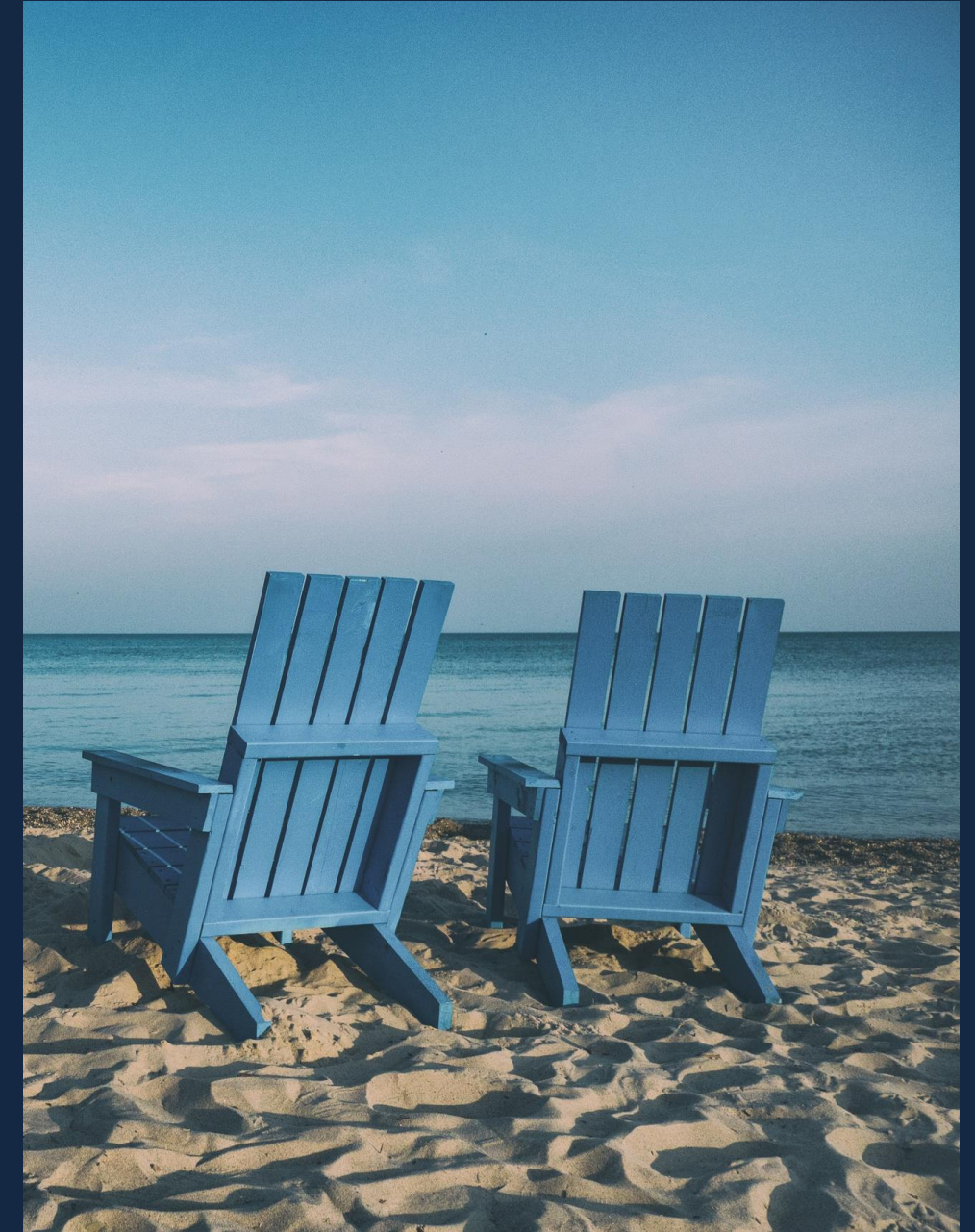
6:05-6:30 – Summary presentation:

- Dynamic Beach Highlights
- Draft Official Plan Amendments
- Draft Zoning By Law Amendments
- Draft By Law overview

6:30-7:50 – Q and A

7:50-7:59 – Next steps

7:59-8:00 – Meeting complete and adjournment





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# Key Terms

OPA – Official Plan Amendments

ZBL – Zoning By Law Amendments

DBMBL – Dynamic Beach Management By Law

PIC – Public Information Centre

BL – By Law







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# Objectives



The objectives of this series of PIC's is to garner the input of residents, contractors, engineers, property owners, and consultants on the proposed Draft Dynamic Beach Management By Law.

The Township of Tiny's Council directed staff to investigate a By Law that would enable Tiny to ensure the Dynamic Beaches within Tiny are protected by any future development impacts.

Tiny has about 75 km's of shoreline which the majority is dynamic beaches which are enjoyed by many, and Council wants to ensure we put in development guidelines and rules to maintain this pristine beach front for generations.





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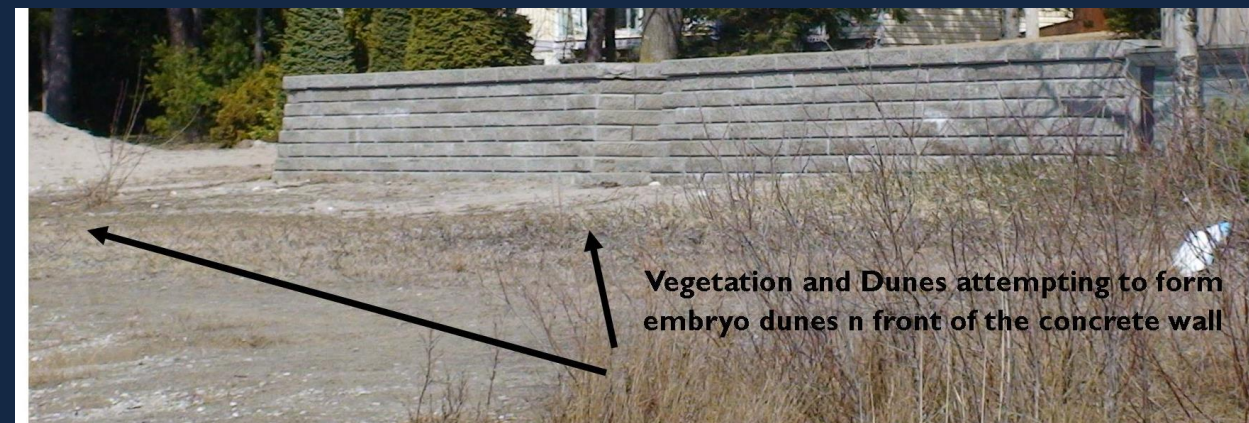
## Housekeeping/Protocol for PIC

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- Questions will be presented in order of receipt.
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- Inappropriate behaviour will not be tolerated and attendees that do not act in a civil fashion will be asked to leave.
- Questions not read during PIC can be submitted to [interimcontrol@tiny.ca](mailto:interimcontrol@tiny.ca).
- Input from PIC will assist in updating future Tiny Website FAQ.



## By-law considerations: Shoreline Structures on Dynamic Beaches

- Shoreline structures and shoreline alterations interfere with and can destroy the natural Beach/Dune system processes
- the natural sediment materials can not move freely landward, on-offshore, alongshore
- The placement of these inappropriate protection works on these large Dynamic Beach Systems will interfere with the natural stabilization process and can eventually make the beach unstable
- Additionally they can cause problems to updrift and/or downdrift properties





# Protection of the Dynamic Beach Process includes Both the Beach & Dune Ecosystems are included in the Dynamic Beach Hazard



Dr. Robin Davidson-Arnott, Department of Geography, University of Guelph, [rdarnott@uoguelph.ca](mailto:rdarnott@uoguelph.ca)



Setback requirements allow the protection of the area to accommodate the natural dynamic beach movement



# Dynamic Beaches Criteria

Provincially Recognized as a Special category and very specific requirements in order to qualify.



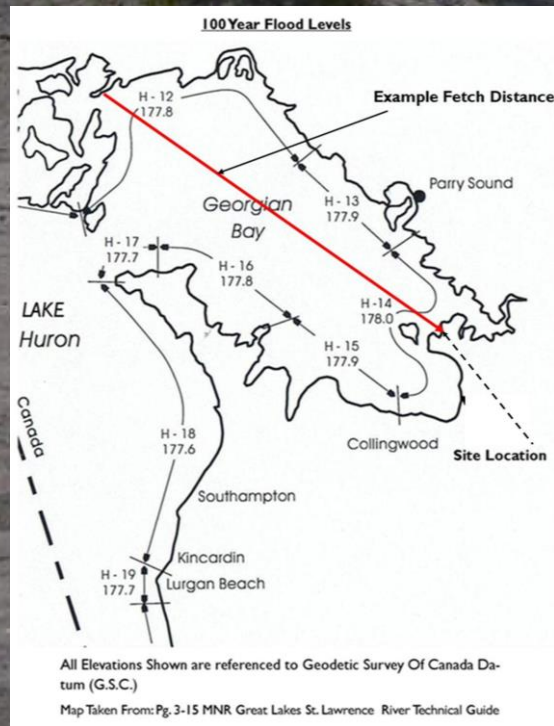
## REQUIRED TECHNICAL CRITERIA:

- Length
- Width
- Thickness
- EXPOSURE Fetch

1.  $\geq 10$  m (32.8 ft.) wide
2.  $\geq 100$  m (328 ft.) length
3.  $\geq 0.3$  m (1 ft.) Depth of material
4.  $\geq 5$  km fetch

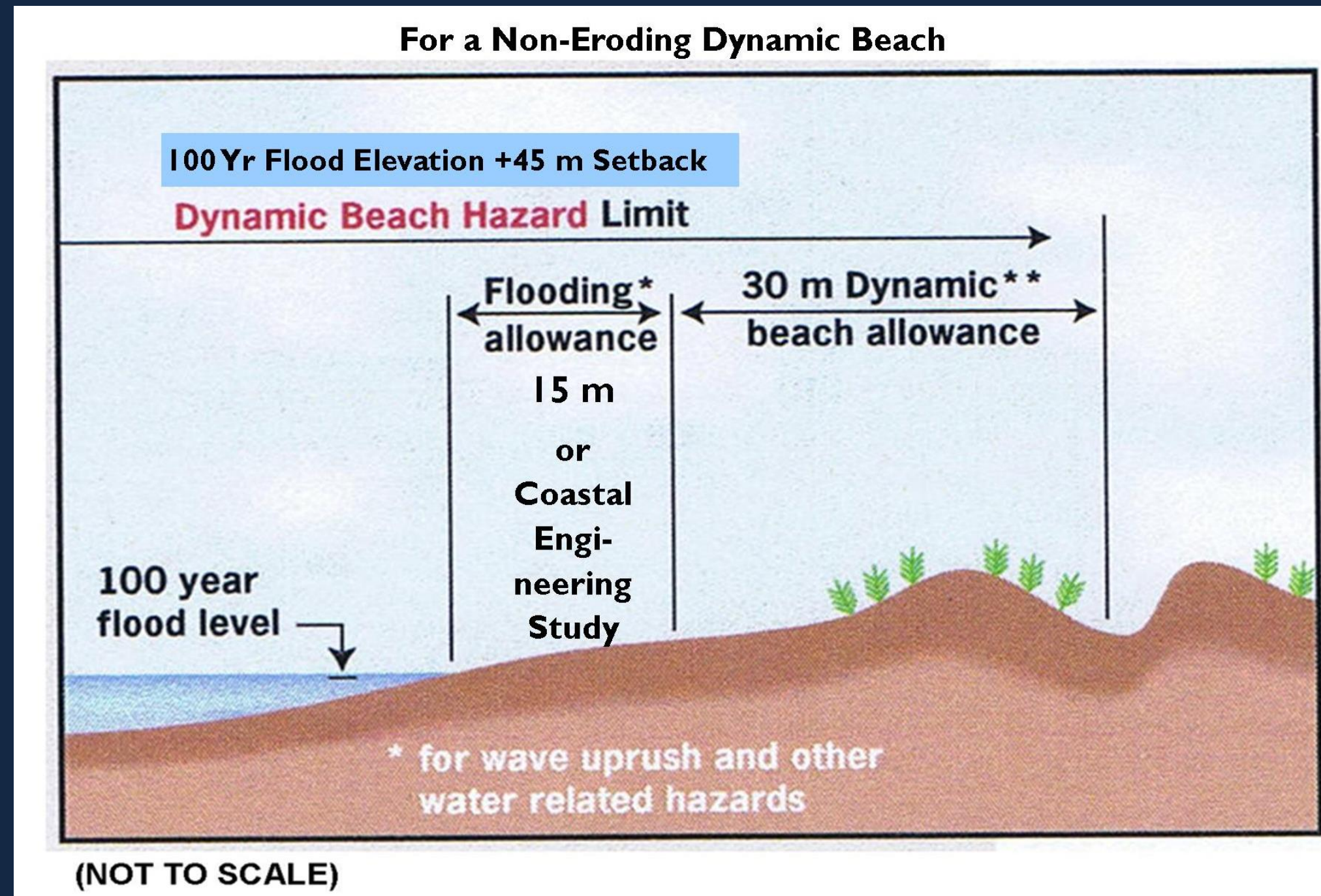
Where the arc extends 60 Degree on either side of line Perpendicular to SL

Evaluated under calm conditions at an Average Annual Low Water Level





# Low Plain (mainland) Dynamic Beach Hazard Limits





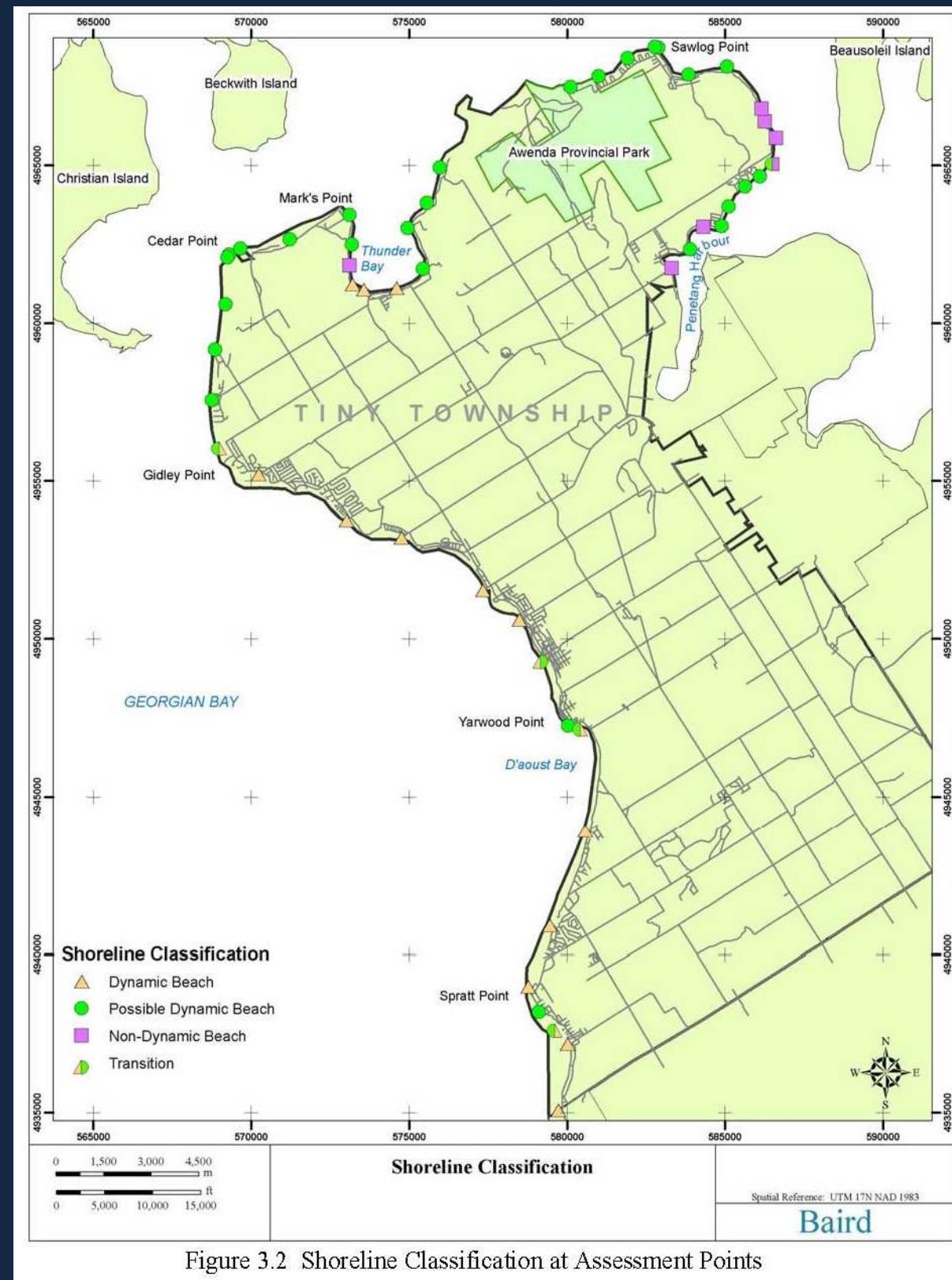


Figure 3.2 Shoreline Classification at Assessment Points

- “Much of the shoreline on the **west side**..., from Woodland Beach to Gidley Point is sandy beach with a well developed dune system
- Much of the **northwest** shore, adjacent to Awenda Provincial Park is cobble and boulder beach.
- The **east** shore in the vicinity of Penetang Harbour is sheltered to some degree and the beaches are typically narrow and comprised of cobble or sand.
- Each of these different beach types is dynamic to varying degrees. “ (page 5, 2005)





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# Options Report (Aqua Solutions 5 Inc.)

- Aqua Solutions 5 Inc. report dated March 1, 2023.
- Hazard Types – Flooding Hazard, Dynamic Beach Hazard, Erosion Hazard.
- Dynamic Beaches come in a number of different forms.
- Township has jurisdiction to pass By-laws to regulate shorelines.
- Multiple levels of government jurisdiction regarding shoreline management.
- Municipality can utilize Planning Act tools and Municipal Act tools to regulate buildings, structures and site alteration in shoreline areas.
- Aqua Solutions 5 Inc. prepared draft Dynamic Beach Management By-law – August 15, 2024.



# OPA Summary

## Proposed modifications to the Township Official Plan:

- Create a framework for the establishment of Zoning By-law provisions to manage buildings and structures within dynamic beach areas.
- Establish criteria within the Official Plan in order to evaluate applications for minor variance or Zoning By-law Amendment where permit buildings and structures are proposed within the Dynamic Beach Hazard Area.
- Create a framework for the establishment of a Dynamic Beach By-law that manages site alteration within dynamic beach areas and requires a permit from the Dynamic Beach Management By-law for the establishment of any building and structure or site alteration within Dynamic Beach Areas.



# ZBA Summary

## Proposed Modifications to the Township Zoning By-law:

- Establishes a framework for enlargement, repair, replacement or renovation of existing non-complying buildings or structures within Dynamic Beach Areas.
- Establishes setbacks from Georgian Bay for buildings and structures, including retaining walls with the Dynamic Beach Management Area Overlay Zone.



# Dynamic Beach Management By-law Summary

## Key components of the Dynamic Beach Management By-law:

- Recognizes and protects the dynamic nature of beaches, hazard impacts, their ecological value and the fact that many of these areas are developed.
- Establishes a permitting system that requires a permit for all site alteration, building and structures that are proposed in the Dynamic Beach Management Area.
- Permits to be issued by Township Staff, with appeals to Council or the Tribunal permitted where permits are denied.





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## Next Steps

- Complete 2 PIC's
- Compile feedback from PIC/E Mail
- Statutory Public Meeting – March 31, 2025
- Develop permits, Application and fee structure
- Present revised Draft By Law and OPA/ZBL Amendments to Council – April 2025
- Final By Law approval from Council – May 2025
- Annual review of By Law effectiveness and potential improvements.







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# Questions and Answers





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- Thank you for taking the time to attend and provide feedback
- Additional questions can be e mailed to:

[interimcontrol@tiny.ca](mailto:interimcontrol@tiny.ca)