# Ausable Bayfield Conservation Authority

Presentation to South Huron Council Draft Shoreline Management Plan Update January 21, 2019



### **Presentation Outline**

- brief history of SMP / updates / process
- development Guidelines
  - Existing guidelines
  - Process to update guidelines
  - Shoreline hazards
  - Mapping
  - Draft guideline examples
- questions



### History

- first SMP released 1994
- updated SMP 2000
  - 1997 PPS
- provincial technical guidelines
- Conservation Authorities Act amended
  - new local regulation 2006
- started update process 2015
  - update recession rate
  - technical guidelines
  - change in use



### Lakeshore Development Guidelines

- Provides direction with regard to development proposals within lakeshore hazard areas
- Used for planning and for regulations



#### CHAPTER THREE / PLAN COMPONENTS: SECTION 3.3

#### LAKESHOKE DEVELOPMENT GUIDELINES, CONTINUED

SECTION 3.3.7 - Lakeshore Development Guidelines Summary

Development Activity	Lak	eshore A	rea I 🕈	Lakeshore Area 2 🕈		
Existing Developed Lots	Dune	Flood	Bluff	Dune	Bluff	
Repairs/maintenance	V	V	~	V	V	
Interior alterations	~	~	~	~	V	
Minor additions *	×	×	Conditional <sup>1</sup>	rovided no encroachment into Lakesh	ore Area I 🖌	
Major additions *	×	×	×	landward of foredune	design is movable	
Unattached garages	×	×	×	landward of foredune	design is movable	
Rebuilding of dwelling destroyed by forces other than flooding & erosion		size and utiliz (most landwa	zes maximum ard location)	✓ dune - if design minimizes dune impact	✓ bluff - if structure is movable *	
Rebuilding of dwelling destroyed by flooding and/or erosion	×	×	×	x	×	
Relocation of dwelling away from shoreline		on the part of recommen	of the owner; ded	Owner should consider this as a fi depending on severity of the haza		
Minor Structures *	×	×	Conditional <sup>2</sup>	Conditional <sup>3</sup>	Conditional <sup>2</sup>	
Swimming pools	×	×	X	Conditional <sup>3</sup>	✓ Provided drainage is address	
New septic systems	×	×	×	Conditional <sup>4</sup>	Conditional <sup>4</sup>	
Decks (existing)	-	2.75				
Repair and maintenance	V	~	V	~	V	
Decks (new)	×	×	No closer than 3m to top of bank and not connected to dwelling	If landward of the foredune (see Figure 17)	~	
Existing Vacant Lots (infilling)					5	
New dwellings	×	×	×	Conditional <sup>5</sup>	Conditional <sup>5</sup>	
Septic systems	×	×	×	Conditional <sup>4</sup>	Conditional <sup>4</sup>	
New Development						
Creation of New Lot(s)	×	×	×	×	×	
(i.e. severances, subdivisions)						
Technical Severance	V	V	~	~	~	
Lot Consolidation	V	V	~	~	~	
Land use designation/zone changes	Support changes to planning documents to Hazard, Natural Environment or Open Space designations			Support changes to planning do a lakeshore overlay (subscript "L		
	Do not : which fu	support prop rther intensif	osed zoning, land use de y land use, i.e. seasonal n	signation or official plan changes esidential to multi-unit dwelling.		

#### LEGEND

#### ✓ allowed × not allowed

- on a site-specific basis/study, where calculated erosion rates are low (less than 0.3 m/yr); these boundaries may be adjusted
- \* refer to Glossary (Appendix A) for full definition
- a minor addition is equal to less than 30% of total existing foundation area
   a major addition is equal to or greater than 30% of total existing foundation area
- a minor structure is a portable building (storage shed, gazebo) with no utilities and maximum size 14 sq.m.
- DOES NOT INCLUDE SHORE PROTECTION DEVICES.
- a technical severance is a boundary adjustment where no new lot is created
   movable design considerations are only necessary where long-term erosion rate calculations apply

NOTE: Please refer to text in the previous section (3.3.6) for a complete description. All of the above is subject to appropriate setbacks and maximum lot coverage requirements as listed in municipal zoning by-laws.

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Conditional<sup>2</sup>

Conditional<sup>3</sup>

Conditional

Conditional<sup>5</sup>

Conditional<sup>1</sup> - yes, provided calculated erosion rate is less than 0.3 m/yr,

yes, provided structure is inland from primary dwelling

- yes, provided dune restoration is implemented and/or

& conforms to setbacks as required under Building Code

to dunes is minimized, and provided that more than 50%

of existing lots/parcels in the residential/cottage area are

yes, provided that building is movable by design, impact

if calculated erosion rates are greater than 0.3 m/yr

provided no encroachment into Lakeshore Area I yes, and it is recommended to be landward of primary dwelling

slope stability is addressed

developed

Ausable-Bayfield Conservation Authority ~ Shoreline Management Plan, 2nd Edition (2000)

#### Create Draft Development Guidelines

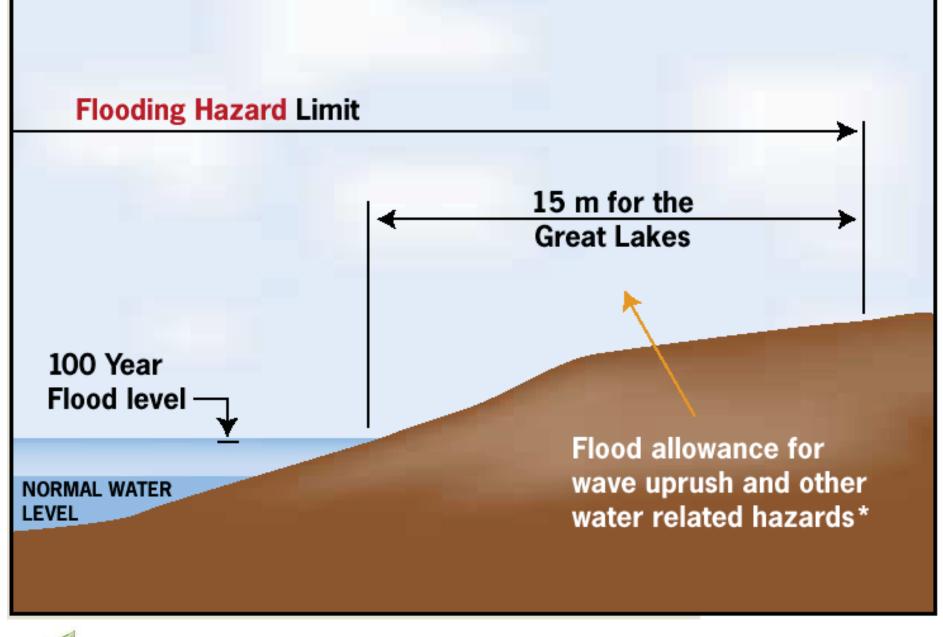
Form a committee of CA staff and municipal planning staff to review the information from the summer meetings and make recommendations on development policies that need to be updated to account for changes to development pressures since the original SMP was developed.



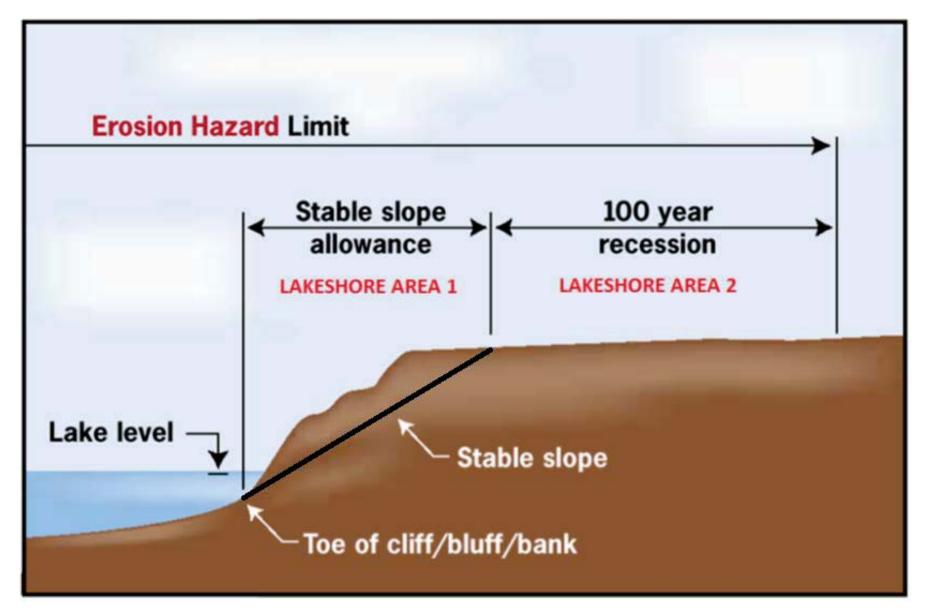
### Planning Group Composition

- planning staff representing:
  - Central Huron, Bluewater, South Huron and Lambton Shores, Counties of Lambton and Huron
  - Maitland Valley Conservation Authority
  - Ausable Bayfield Conservation Authority
  - identified challenges
    - moveable
    - landuse along the shore has changed substantially i.e. recreational vs. full time etc.
    - the 2000 SMP update primarily to address the amended 1997 Provincial Policy Statement
    - release of provincial shoreline technical Guidelines (2001)
  - group discussed each of the categories in the existing development chart
  - expanded discussions to include redevelopment and shore protection and septic





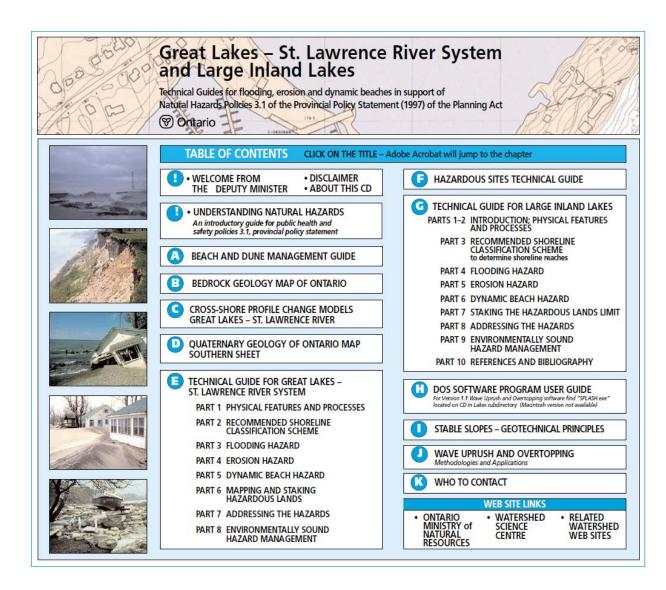




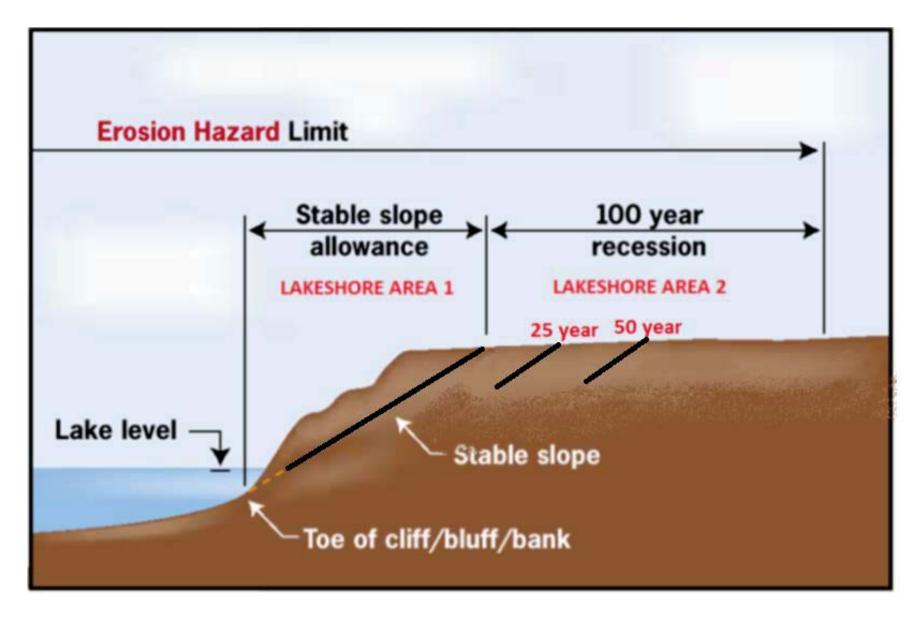


### **Provincial Technical Guidelines**

- Consolidated and released 2001
- natural hazard areas pose risk to health and safety therefore they are of provincial interest
- provincial direction for implementation of natural hazard policies
- Used for planning and for regulations



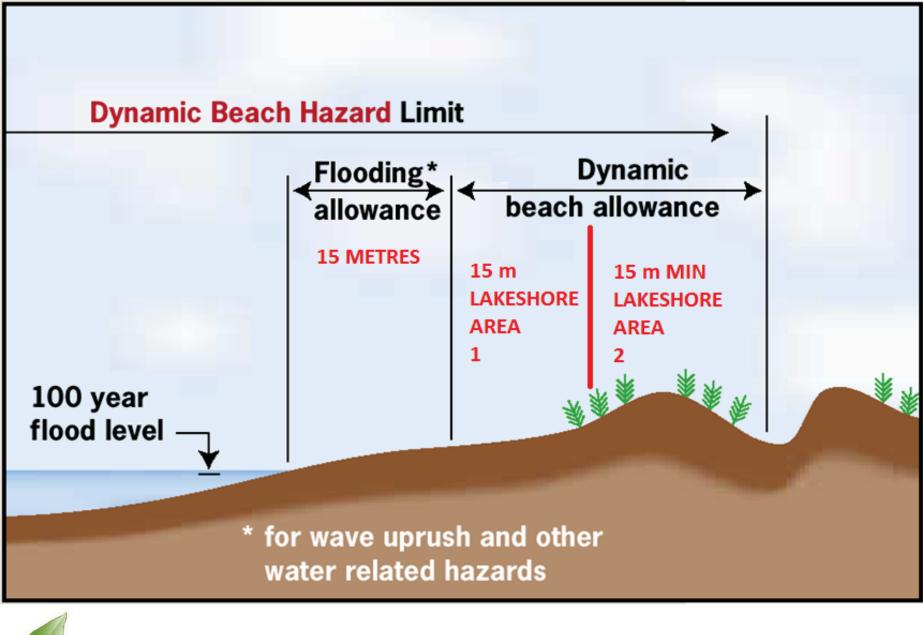




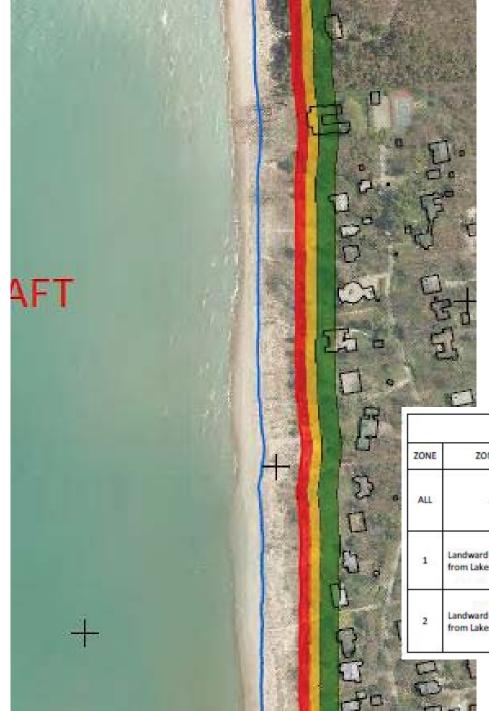


## Example of draft mapping

	GEN	ERALLY NO	COHESIVE BLUFF AREAS RTH OF AND INCLUDING MAPLE GROVE SUBDIVISION
ZONE	ZONE DEFNITION	MAP	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
1	Greater landward measurement of 7.5 m from Lakeshore Area 1 or the location of the 25 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling
2	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 50 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie)
3	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 60 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie) Lot re-development, new dwellings on existing vacant lots







# Example of draft mapping

		GENER	DYNAMIC BEACH AREAS ALLY SOUTH OF MAPLE GROVE SUBDIVISION			
E ZONE DEFNITION MAP COLOU			PERMITTED ACTIVITIES			
 5	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.			
	Landward setback of 7.5 m. from Lakeshore Area 1		Major additions, minor additions, swimming pool, non-habitable accessory structures greater than 10 sq. m.			
	Landward setback of 15.0 m. from Lakeshore Area 1		Major additions, minor additions, swimming pool, non-habitable accessory structures greater than 10 sq. m. Habitable accessory structures, lot re-development where insufficient room landward of Lakeshore Area 2, new dwellings on existing vacant lots where insufficient room landward of Lakeshore Area 2			

Development Activity		Lakeshore Are	ea 1	Lakeshore Area 2	
	Dune	Flood	Bluff	Dune	Bluff
Repairs / maintenance	Yes	Yes	Yes	Yes	Yes
Interior Alteration – where no change in use or increase in living space or occupancy - an increase in living space is considered an addition	Yes	Yes	Yes	Yes	Yes



Development Activity	La	keshore Area	1	Lakeshore Area 2		
	Dune	Flood	Bluff	Dune	Bluff	
Rebuilding of dwelling destroyed by other than flooding and / or erosion – where no change in use or increase in living space or occupancy	Yes – replacement structure shall be no larger than existing and it is moved as far landward as possible			Yes – if design minimizes impact to dune - replacement structure shall be moved as far landward as possible	Yes - replacement structure shall be moved as far landward as possible	
Rebuilding of dwelling destroyed by flooding and <u>/ or</u> erosion	No	Νο	No	No	No	



<b>Development Activity</b>	Lakeshore Area 1			Lakeshore Area 2		
	Dune	Flood	Bluff	Dune	Bluff	
Minor Additions (less than 30%) * Multiple additions permitted up to a maximum of 30% of the initial building size. Beyond 30% is considered a major addition.	No	No	No	Yes - Provided addition is no closer to the lake than the existing structure and has a minimum landward setback of 7.5m from Lakeshore Area 1	<ul> <li>Yes - Provided addition is no closer to the lake that the existing structure and has a minimum landward setback equal to the greater of:</li> <li>1) The 25 year erosion line as measured from Lakeshore Area 1</li> <li>2) 7.5m setback from Lakeshore Area 1</li> </ul>	
Major Additions (greater than 30% but less than 100% - greater than 100% shall be considered lot re- development) Multiple additions permitted up to a maximum of 100% of the initial building size. Beyond 100% is considered lot re- development	No	No	No	Yes – landward of the foredune Provided addition is no closer to the lake than the existing structure and has a minimum landward setback of 7.5m from Lakeshore Area 1	<ul> <li>Yes –Provided addition is no closer to the lake than the existing structure and has a landward setback equal to the greater of:</li> <li>1) The 50 year erosion line as measured from Lakeshore Area 1</li> <li>2) 15m landward setback from Lakeshore Area 1</li> </ul>	



Development Activity	Lakeshore Area 1			Lakeshore Area 2		
	Dune	Flood	Bluff	Dune	Bluff	
Lot redevelopment – i.e. existing structures removed and replaced	Νο	Νο	No	Yes Provided proposed development has regard to the size and location of the available developable area and has a minimum landward setback equal to the greater of: 1)The lakeward limit of the existing structure 2)The landward limit of Lakeshore Area 2 - where insufficient room outside of Lakeshore Area 2 exists, encroachment into Lakeshore Area 2 is permitted, but the development must be as landward as possible and in no instance shall development be less than 15 m to Lakeshore Area 1	Yes Provided proposed development has regard to the size and location of the available developable area and has a minimum landward setback equal to the greater of: 1)The lakeward limit of the existing structure 2)The landward limit of Lakeshore Area 2 - where insufficient room outside of Lakeshore Area 2 exists, encroachment into Lakeshore Area 2 is permitted, but the development must be as landward as possible and in no instance shall development be less than 15m to Lakeshore Area 1 3)The 60 year erosion line as measured from Lakeshore Area 1	



	Dynamic Beach Area	Bluff Areas
Shore	Permitted to protect primary building Must be landward of the location of the 100 year lake level plus 15m wave uprush allowance Protection works for non-essential structures and features, including but not limited to accessory	<ul> <li>Permitted</li> <li>Must be landward of the greater of the following:</li> <li>1) the location of the 100 year lake level or</li> <li>2) a line connecting the toe of the bluff and /or existing shore protection of the two abutting properties on either side of the subject property or</li> </ul>
Protection - new	structures (e.g., gazebos, sheds, bunkies, decks, stairs etc.), lawns and/or other landscaping features are not permitted.	<ul> <li>3) the toe of existing bluff</li> <li>Application shall include mandatory review / design by qualified</li> <li>Coastal Engineer which shows no negative impacts from the</li> </ul>
	Application shall include mandatory review / design by qualified Coastal Engineer which shows no negative impacts from the proposed protection works.	proposed protection works.



	Draft Development Guideline	es – Shore Protection
	Dynamic Beach Area	Bluff Areas
	Permitted to protect primary building.	Permitted
Shore Protection - replacement	<ul> <li>Must be landward of the greater of the following:</li> <li>1) the location of the 100 year lake level plus 15m wave uprush allowance</li> <li>2) the existing shore protection being replaced</li> <li>Protection works for non-essential structures and features, including but not limited to accessory structures (e.g., gazebos, sheds, bunkies, decks, stairs etc.), lawns and/or other landscaping features are not permitted.</li> <li>All previous shore protection must be removed from the site and disposed of</li> <li>Review / design by qualified Coastal Engineer which shows no negative impacts from the proposed protection works may be required.</li> </ul>	<ul> <li>Must be landward of the greater of the following: <ol> <li>the existing shore protection being replaced</li> <li>the location of the 100 year lake level</li> <li>a line drawn between the toe of the bluff and /or existing shore protection of the two abutting properties on either side of the subject property</li> <li>the toe of the existing bluff</li> </ol> </li> <li>All previous shore protection must be removed from the site and disposed of</li> <li>Review / design by qualified Coastal Engineer which shows no negative impacts from the proposed protection works may be required.</li> </ul>
Groynes	Not permitted	Not permitted

