

# Mutiny Bay 2022 flooding

The Photos are captured from videos and photos taken that day

The following three images are of The Erickson Home where they have a home spun shoreline protection that did not work



The Tide water Flooded under the Ericksons Home. This property is experiencing flooding and Island County Turned them down for an Anchored Log soft shore protection that is on both sides of them. The South Whidbey Shoreline Group as demonstrated that the erosion over time is a result of Island County's Boat ramp dredging operation.



MutinyBay\_Reach  
Report\_Compiled  
\_Final\_20210729.  
pdf



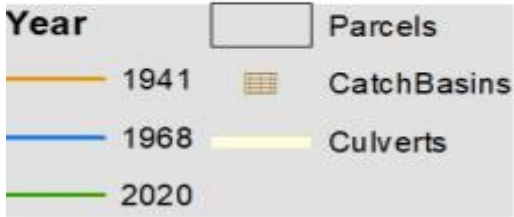
FINAL Report  
C&H Soft shore  
study.pdf



**Conclusions based on these two reports.**

- Both reports document the erosion
- The Erosion north of the T-Diffuser is a direct result of the Island County boat ramp dredging operation
- The boat ramp dredging was stopped in 2019.
- Since the Anchored Log soft shore was installed in 2013 the shoreline erosion has abated. The shoreline north of the installed soft shore (Anderson Property) has continued to erode. The property south of the installed softs shore (Erickson) continued to erode.

**Mutiny Bay Shorel**



As the tide breached the shoreline protection the tide water free flowed back to Cedar Steet



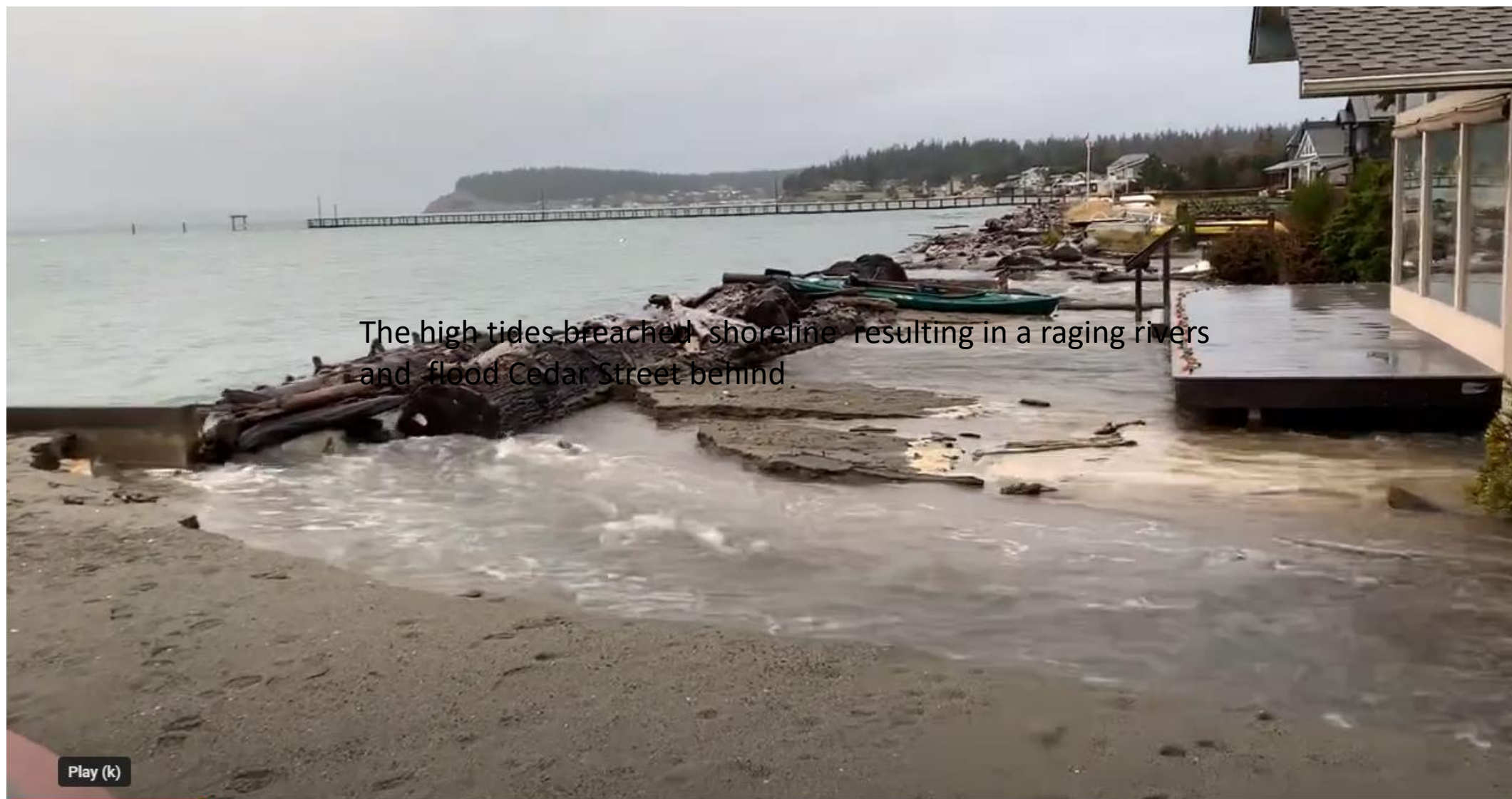
Looking south from the Erickson Home the high tides breach one lot and two houses.  
The lot next to the Ericksons is an undeveloped Community lot that aided in the breach to Cedar Steet. This illustrates that every shoreline lot either developed or not plays an important role in the flooding of Nearshore homes



The high tides breached shoreline resulting in a raging rivers and flood Cedar Street behind



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This breach was Fixed with a permitted repair to the existing Soft shore, the sheet pile was left elevated with a cap on it. The primary shoreline protection is the anchored log soft shore. This fix protects Cedar street from 1 of the three breaches



Cedar Steet Flooding



## Cedar Steet Flooding



The Anchored Log Soft shore held the flood waters back



The Properties North of the properties with out any shoreline protection did not far so well the continue to get erosion



Erosion Caused by the Cedar street Pump station- This is just wrong  
Island County should be ashamed



Drone Footage of the Cedar street flooding the next day



Play (t)



Drone Footage of the Cedar street flooding the next day



This drone capture shows the erosion caused by the High tides – it when through 3 lots and created a raging flood water of Cedar street. High tides cause erosion. Note Island County Codes prevent these folks from putting in shoreline protection due to erosion caused high tide flooding.

Note State codes and all counties but King and Island county allow shoreline protection due to erosion cased by Tides Waves and Currents



The Anchored log soft shore protected the homes from the high Tides  
Note the permitted anchored logs have a sheet pile installed about 5 feet behind the soft shore logs  
This provides an additional layer of protection from erosion. This also provides a potential flood protection.



The homes north of the soft shore installation did not far as well. What is unfortunate is that Island County's Boat Ramp dredging process has driven this erosion. Island County has a liability here. They will not let the owner do any shoreline protection for the erosion they caused



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### Mutiny Bay Shoreline



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# Island County Really needs to rethink its Restrictive Criteria as to flooding and tides

- Flooding due to Tides is going to get worse
- The impacts to Near shore properties is as bad or worse the shoreline properties
- Anchored log Soft shore systems work for storms and minimize erosion
  - Work OK for Flooding – but will need help in the future
- The Flooding and erosion damage can be attributed in large part to Island County Mutiny Bays boat ramp dredging operations which drove the erosion north of the boat ramp. This erosion is documented in the following Studies



This presentation Proves that in this stretch of Shoreline Anchored log soft shore backed up by a sheet pile has prevented erosion and minimize flooding. In the future the sheet pile can be backed up by a higher sheet pile as tides become higher, but the primary erosion control is the anchored logs