



BEACH GROINS AND BEACH RETAINAGE STRUCTURES

A groin is a rigid structure built from a shore that interrupts water flow and limits the movement of sediment. A groin creates a wide area of beach or sediment on its updrift side, and reduces sediment on the downdrift side.

IS THIS RESILIENT?

Sand naturally moves up and down the Great Lakes shoreline. Groins can capture and add sediment to a beach on their updrift side, but this can cause severe erosion on shorelines downdrift from the groin. This can then lead to a proliferation of groins, as property owners downdrift from the original groin install their own structures in an attempt to preserve their own beaches. This has provided incentive for communities to contemplate and plan structures like this at a broader community level rather than at the individual property level.

These structures also may eliminate the ability of beachgoers to pass from one side to the other, due to the elimination of beach on the downdrift side, elevation differences between updrift and downdrift sides, and difficulties in getting over/around the structure itself.

COMMUNITY INPUT

What we heard..
Residents are concerned about long-term erosion

TEMPERATURE CHECK



How do you feel about this idea?

POSITIVES + OPPORTUNITIES

NEGATIVES + CONCERNS

REGULATORY CONSIDERATIONS

POSSIBLE LOCATIONS

Please place a sticker under the response you'd like to leave.

I'm open to considering this idea

I'm unsure if this is right for Bridgman