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Lake Superior North Watershed– 1W1P

Tettegouche State Park Conference Room 5702 Highway 61

Erosion Hazard Map Project Meeting

Silver Bay, MN 55614

Coastal Erosion Hazard Map Meeting – LSNW1W1P Implementation Meeting - Minutes
June 21, 2018 – 10:00 a.m. – 12:00 p.m. – Tettegouche State Park

Attendance: Sonja Smerud, Neva Widner, Christine McCarthy, Rich Sve, Justin Otsea, Charlie, Myron Bursheim, Tim Nelson, Ilena Hansel, Clinton Little, Erin Loffler

1. Welcome & Introductions – The group went around and introduced themselves.
2. What is the goal of the erosion map?

Initial thoughts:

- Promote shoreline development in a responsible manner
- Where are the hazards – identify these – Where are the needs?
- Specifics of the map – The maps will still need to ground truth them but having specifics is good as a place to start and to inform.

Five Main Goals of the Project:

- Defendable
- Metadata process
- Shoreline is one product area (measuring 1ft/year)
- Bluffs are a second product area
- Reset the benchmark data

Additional Potential Partners:

- Grand Portage – contact April McCormick
- St. Louis County – those with experience and expertise get involved
- UMD Folks – Clinton has a list
- Penn and OH folks – Clinton can help with this

End Goals/Outcomes:

- Commonality along the WHOLE shore of Lake Superior
- Specific database- at the parcel level, good detail and information
- Workable database – interactive – add information & ground truthed data into it
 - Updated information can be added it another time (product developed for ability to be updated)
- Ability to use the tool to determine if an area can or cannot be developed as identified in the Erosion Hazard Area – END RESULT

- Lake Superior Guide to living on the lake – similar to the Property Owners Resource Guide – Use other resources that have been done and build on it – END RESULT
- Accessibility of the EH to home/landowners/officials/decision makers – END RESULT
- A map based interface for erosion – North Shore Management Board do this as part of their website? - END RESULT

Financial/budget/funding:

- Cost estimate for all of this to be determined
- Future Funding – fund portions of it over time
 - Coastal program- coastal hazard focus is the currently the topic of choice
 - County priorities – coastal program – assisted with funding
- Plan -design update intervals
- Best management practices as part of the project/solutions with information
- Determine the amount of hours it will take to complete this from partners
- Budget – prioritize public land, service to landowners, existing information first

Data Layers Desired:

- Parcels
- Erosion information – erosion hazard information
- Photos – click and open up
- Incorporate FEMA maps – will need to get more information on this
- Determine how far the erosion hazard goes back
- Drone flight
- LiDar Mapping

Big Questions/ Can of Worms:

- What will be the setback for structures?
- How far inland is the data telling us?
- Issue – unbuildable lots
 - Relators
- Depending on science – what does it tell us? Is there a number that fits the area?
- How much land is developable along the north shore?

FEMA Maps:

- Great lakes shoreline data
- Distance in zones too great for differences in erosion
- Statewide Hydro – flood plain assistance
- Lack of parcel data
- Have as part of our map/project
- Need more specific information to make it work
- Does FEMA belong with Erosion Hazard Maps?
- What does the DNR have that relates to hazard and tie in with these maps?
- Insurance – fill defined – Role of LGU and insurance
- Erodibility areas versus man areas
- Transects

Data Have/Information:

- Slope – NRCS/LiDar Classification
- Soils – MGS/USGS
- Parcels
- LiDar
- Cook Pictometry
- Clay soils
- Slope/transects
- Gradient of slope
- Historical data
- Lake elevation data

Next Steps:

- Invite partners
- Drone inquiry – UMD
- Analysis – ground truthing and site visits
- Report and documents to support
- Story map
- Engage and Educate
 - BWSR (Erin) assist with applying for outreach and Backend GIS outreach
- Next meeting – end of July/early August
 - Invitees: Justin, Charlie, Clinton, Sonja, Ilena, Cook County GIS, Lake County GIS, St. Louis County folks, City of Duluth, Christine, Neva, Ross (they will decide between those three who will participate), Tim N. (will be kept in the loop)