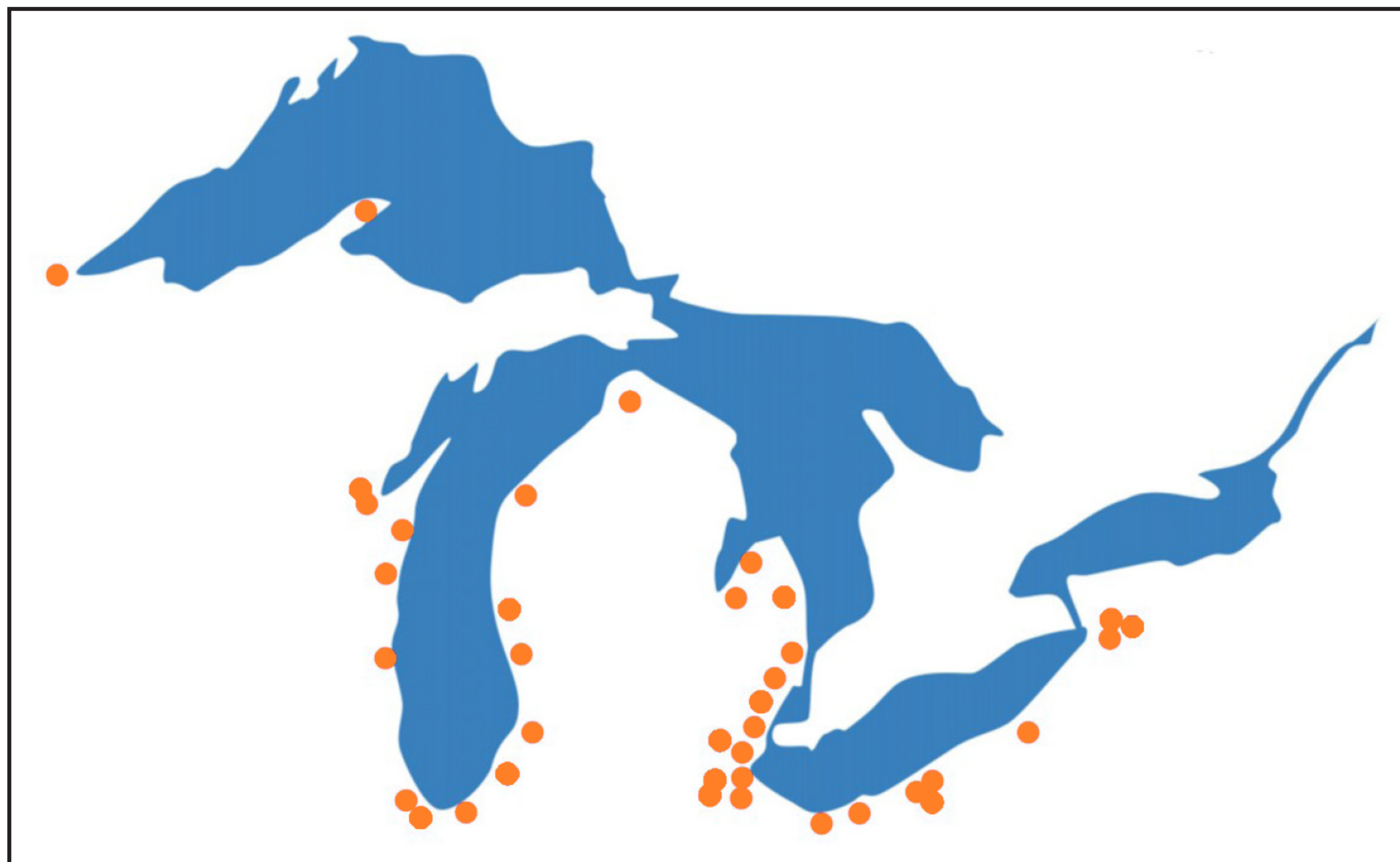


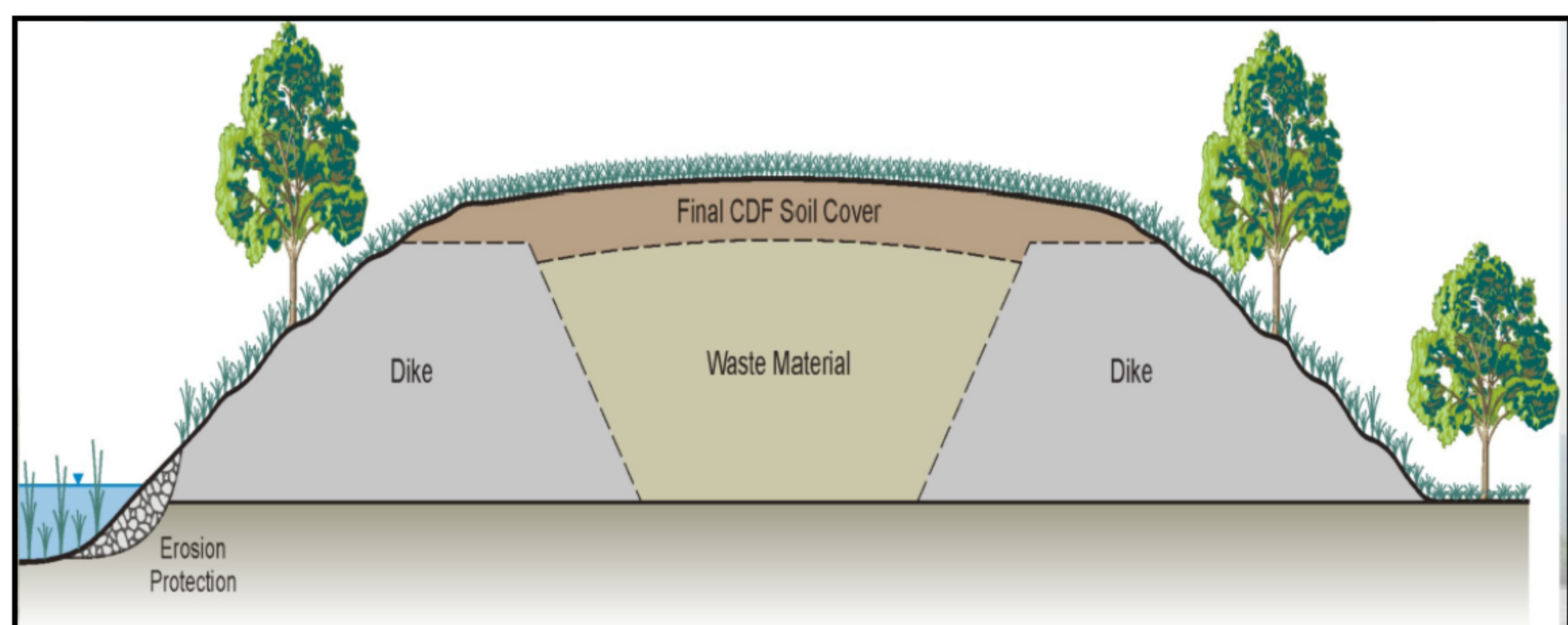
## What is a Confined Disposal Facility (CDF)?

- A CDF is a structure designed to contain impacted sediments.
- CDFs can be constructed on land or adjacent to water.
- The site clean-up includes two CDFs, both adjacent to Unnamed Creek.



Great Lakes CDF locations.

## Design Perspective



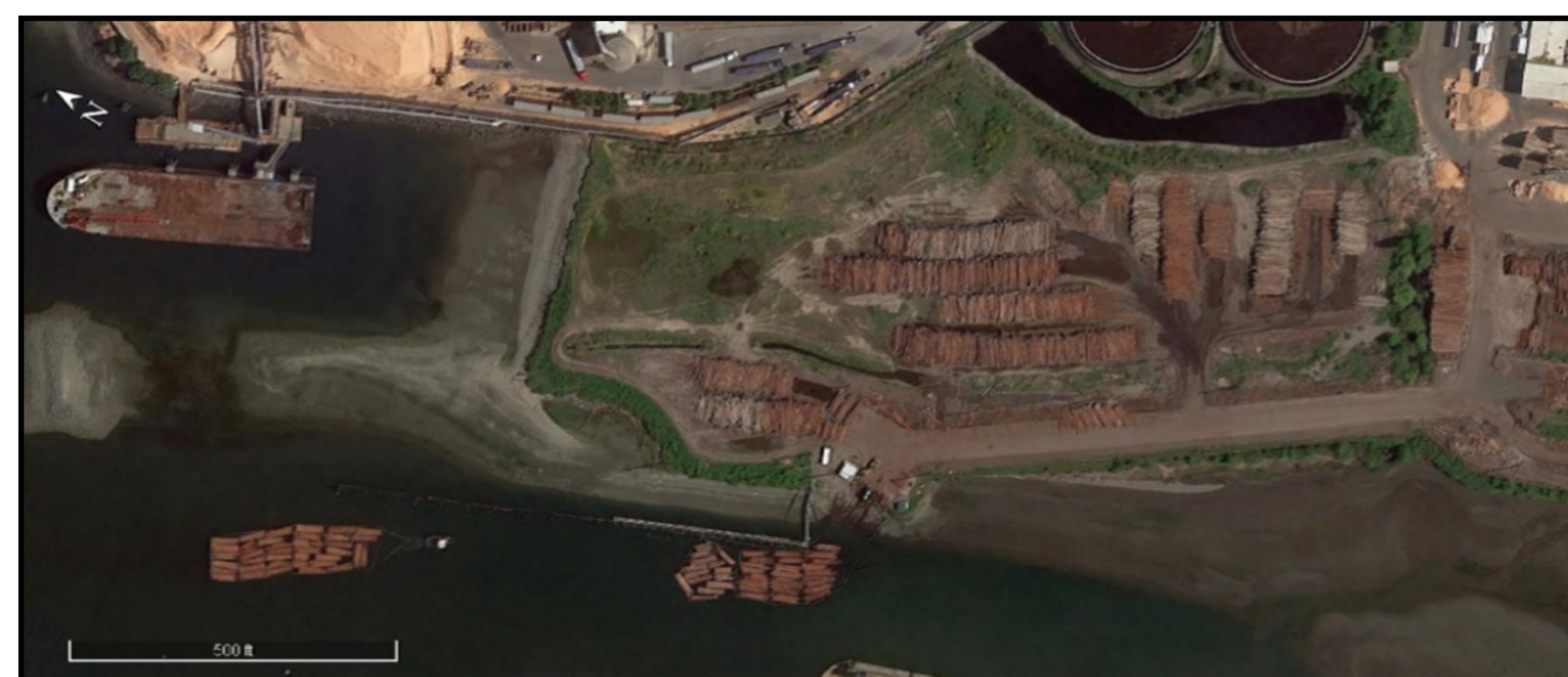
Conceptual example of a CDF design integrating shoreline habitat features.



Conceptual example of plantings to promote habitat restoration.

## Are CDFs Safe? Yes, CDFs are safe.

- CDFs have been used throughout the Great Lakes Region for over 50 years to manage and dispose of impacted sediments from Great Lakes harbors.
- 45 CDFs have been constructed and safely operated in the Great Lakes Region since 1970.
- Monitoring studies conducted at operational CDFs have shown that CDFs are extremely effective at containing impacted sediments with minimal risks.

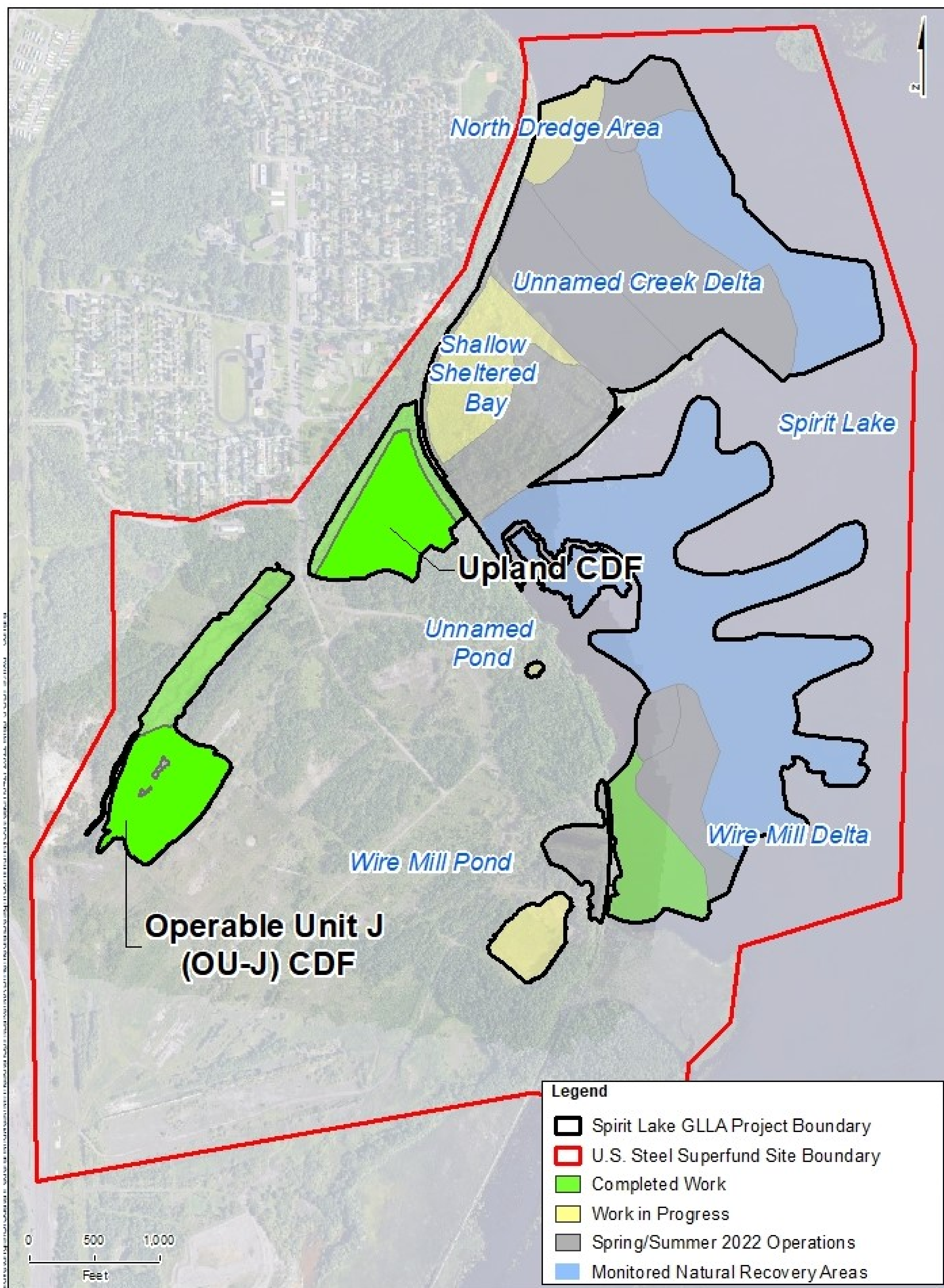


Conceptual example of a CDF with softened shoreline for habitat development.



Berm construction for the OU-J CDF at Spirit Lake.





## Examples of Completed Confined Disposal Facilities (CDFs)



Conceptual example- Port of Cleveland CDF (Cleveland Lakefront Nature Preserve).



Conceptual example- Times Beach CDF in Buffalo Harbor.

## Spirit Lake CDF Construction Process and Methods



During construction, high strength fabric is placed over the Upland CDF.



Dredge material is pumped into Geotubes® located in the Upland CDF. Geotubes® are specially engineered tubular, bag-like filters used to remove water from the dredge material before processing.



Processed material is placed directly in the OU-J CDF.