### **Community Meeting**

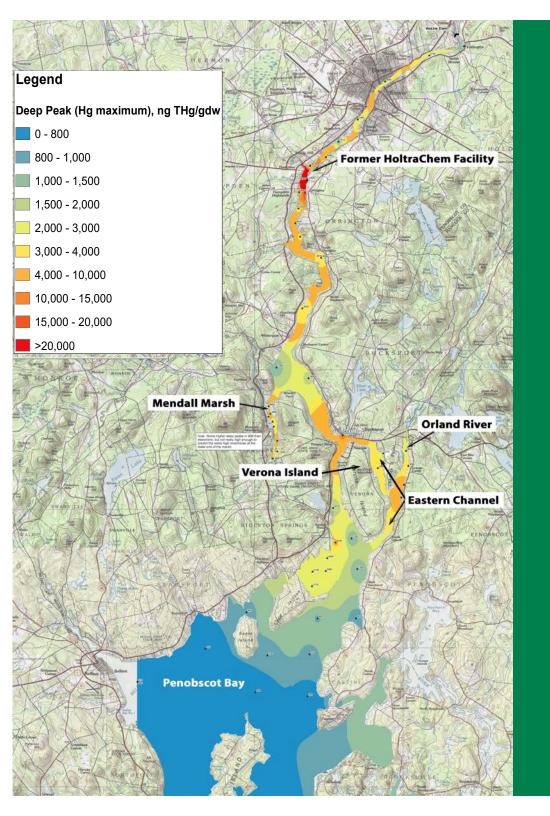
Introduction to Penobscot Estuary Mercury Remediation Trust



Greenfield Penobscot Estuary Remediation Trust LLC
Trustee of the Penobscot Estuary Mercury Remediation Trust
August 1, 2024
Frankfort, Maine

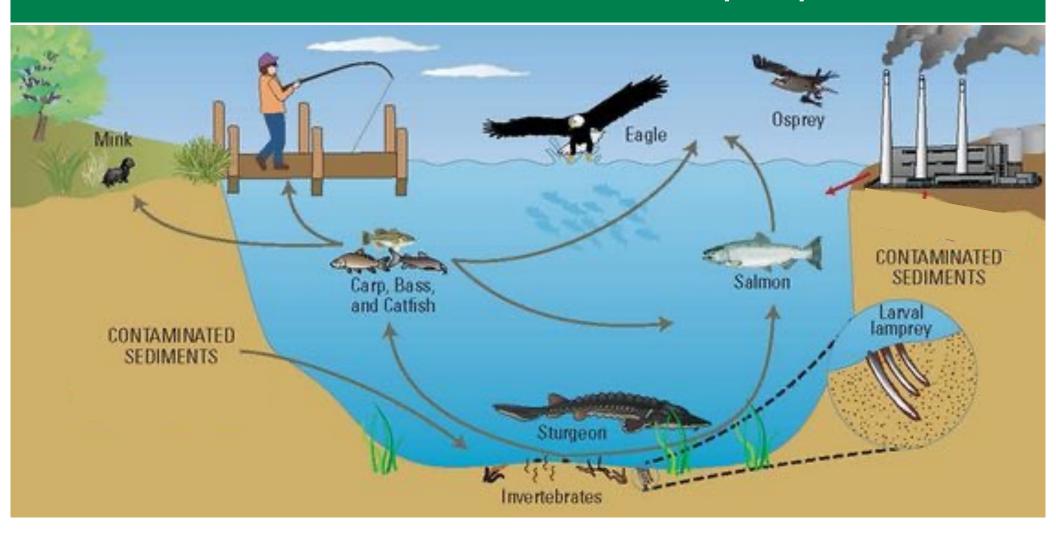
#### Welcome

- ✓ Introductions
  - ✓ Background
- ✓ Overview of Consent Decree Remedies
  - ✓ Questions and Discussion



Mercury discharged from HoltraChem in late 1960s and early 1970s contaminated sediment throughout Penobscot River Estuary

# Mercury found in food chain can affect health of fish, wildlife, and people



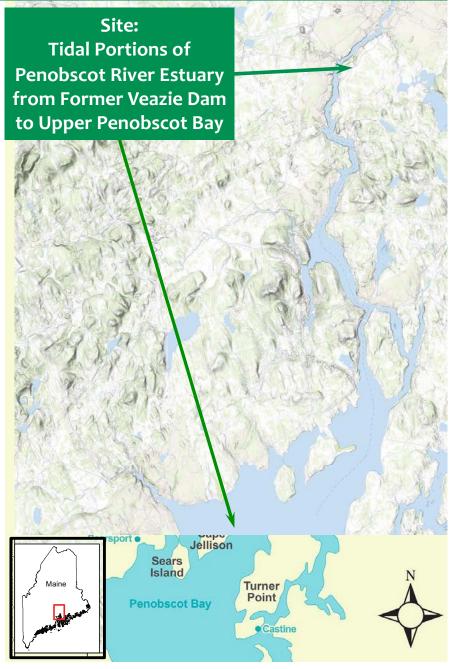
Natural recovery of estuary may take more than 100 years



#### **Mercury Facts\***

- Mercury in environment
  - Small amount occurs naturally
  - Discharged by industry to air and rivers
  - Does not completely degrade
- Microscopic organisms can turn mercury to methylmercury
- Methylmercury is highly toxic
  - Enters living tissue and bioaccumulates
  - Can cause neurological and reproductive disorders in humans and wildlife
- Mercury levels in Maine fish, loons, and eagles are among highest in North America
- Maine Department of Health and Human Services issued <u>statewide</u> <u>advisory</u> recommending limits on consuming certain types of fish
  - \* <a href="https://www.maine.gov/dep/mercury/">https://www.maine.gov/dep/mercury/</a> provides additional information

#### Consent Decree Specifies Remedies to Reduce Mercury Exposure and Accelerate Recovery

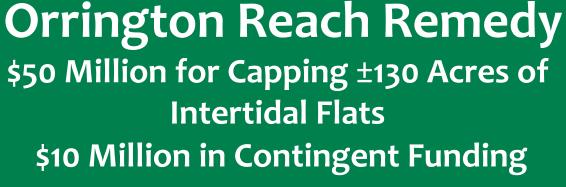


- ✓ Mallinckrodt to provide:
  - \$187 million for remedies and monitoring
  - Additional \$80 million in potential, contingent funds
  - Total funding: \$267 million
- Remedies include targeted removal, capping, beneficial projects, and long-term monitoring
- ✓ Creates two independent trusts
  - **Remediation Trust**
  - Beneficial Projects Trust
- Named Beneficiaries: NRDC/MPA and Mallinckrodt
- Larger Beneficiaries: Public, Citizens of 6 Maine, and Penobscot River Estuary

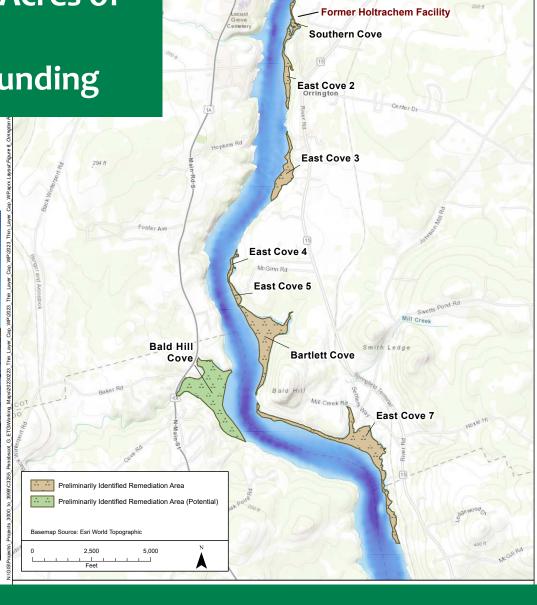
#### **Greenfield Penobscot Estuary Remediation Trust LLC**

- ✓ Independent Trustee for Remediation Trust
- ✓ Responsible for overseeing, managing, and performing Work required by Consent Decree
- ✓ Greenfield has 35 years of experience
  - Serving as court-approved environmental response and custodial trustee
  - Managing complex environmental cleanups around country









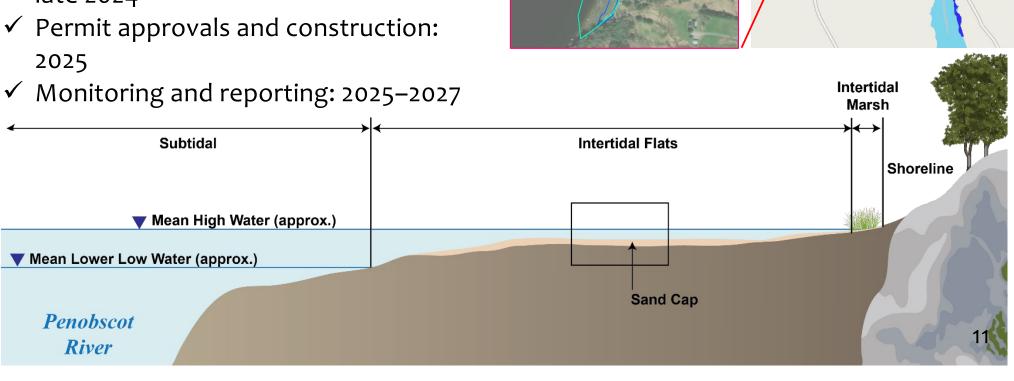


#### Thin Layer Cap Will Accelerate Natural Recovery

- ✓ Studies show natural recovery is slow
- ✓ Natural processes add ±0.2 inch of new sediment a year
- ✓ TLC will immediately add ±4 inches of clean sand
- ✓ New sediment will accumulate on cap surface over time

## Pilot Test Will Show TLC is Protective and Effective

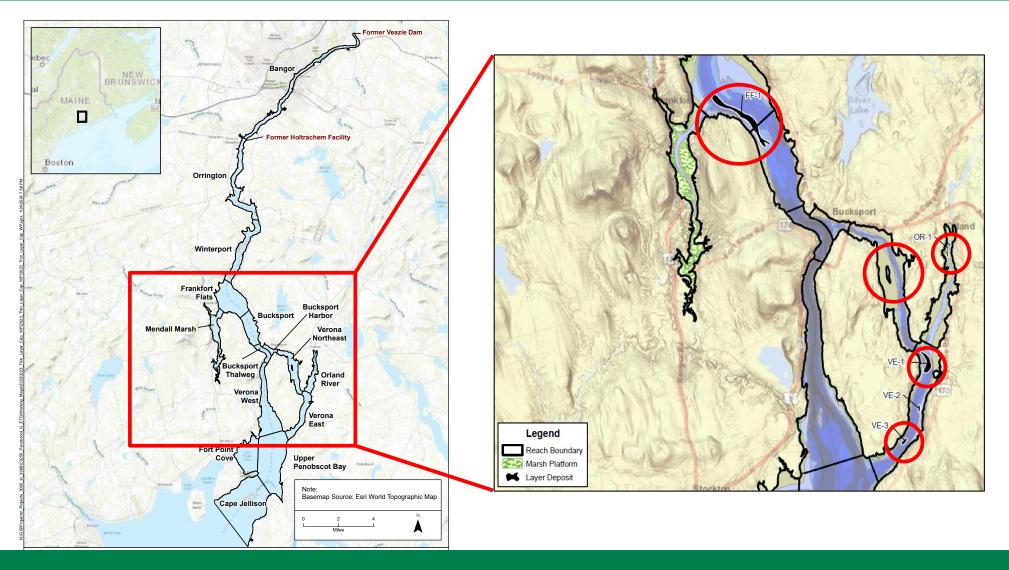
- ✓ Located on 6 acres in East Cove 3
- ✓ Pilot cap: ±4 inches of clean sand
- ✓ Monitored for at least 2 years
  - Cap stability
  - Effects on wildlife and organisms in sediment
- ✓ Natural Resources Protection Act (NRPA) permit application submitted: late 2024



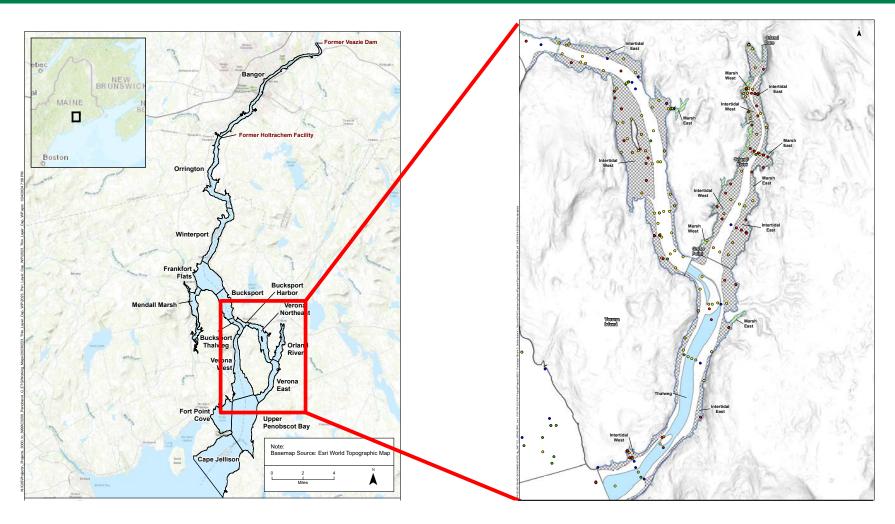
East Cove 3 Area
East Cove 3 Marsh
Area (Estimated)
Anticipated TLC Pilot

East Cove 3

#### Mobile Sediment and Surface Deposits Remedy \$70 Million for Dredging and Beneficial Reuse \$50 Million in Contingent Funds for Disposal



## Orland River and East Channel Around Verona Island Remedy \$30 Million to Select and Implement Remedy

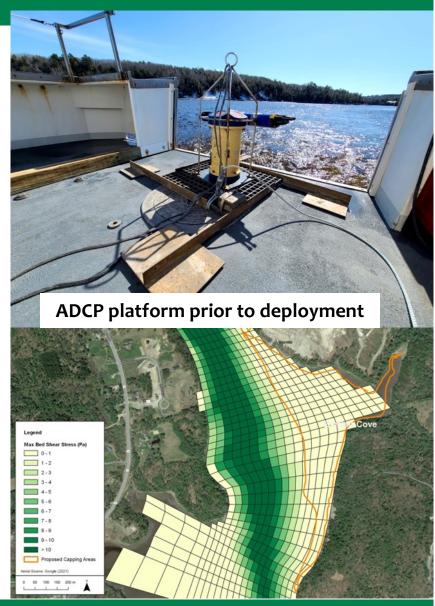


Capping and removal of contaminated sediment are being evaluated.



#### **Investigations Completed to Date**

- ✓ Estuary-wide
  - River Flow Velocity Monitoring
  - Bathymetric Survey
  - 2023-24 Long-Term Monitoring
- ✓ Orrington Reach
  - Coastal Wetland Assessment
  - Two Sediment Pre-design Investigations
  - Ice Scour Monitoring



## State and Federal Permitting Process Ensures Remedies Are Reviewed and Protective

- ✓ Natural Resources Protection Act (NRPA) permit
  - ✓ Primary permit
  - ✓ Issued by Maine DEP
  - ✓ Incorporates U.S. Army Corps of Engineers regulations
  - Reviewed by multiple state and federal agencies
- ✓ Other Regulations
  - Stormwater Management Rules
  - Solid Waste Rules, Beneficial Reuse
- ✓ Community Permits
  - Planning Board/Select Board
  - Shoreland Zoning



# Long-Term Monitoring \$10 Million to Monitor Fish and Wildlife for 30–45 Years \$10 Million in Contingent Funding







## Access to Flats is Needed for Long-Term Monitoring, Sediment Sampling, and Wetlands Evaluation



#### **Remediation Trust Contacts**

- ✓ Lauri Gorton, Remediation Trust Program Manager 414-732-4514 <u>lg@g-etg.com</u>
- ✓ Christine Amrhine, Community Involvement Coordinator 540-846-3163
   <u>ca@g-etg.com</u>
- ✓ Cindy Brooks, Managing Principal 617-448-9762 <a href="mailto:cb@g-etg.com">cb@g-etg.com</a>
- ✓ See: <a href="https://www.penobscotriverremediation.com">https://www.penobscotriverremediation.com</a>

### Questions?

