

Albert Jensen & Son Shipyard Port of Friday Harbor

May 30, 2018

John Evered, Leonard Machut



DEPARTMENT OF
ECOLOGY
State of Washington

MTCA and SMS Cleanup Laws

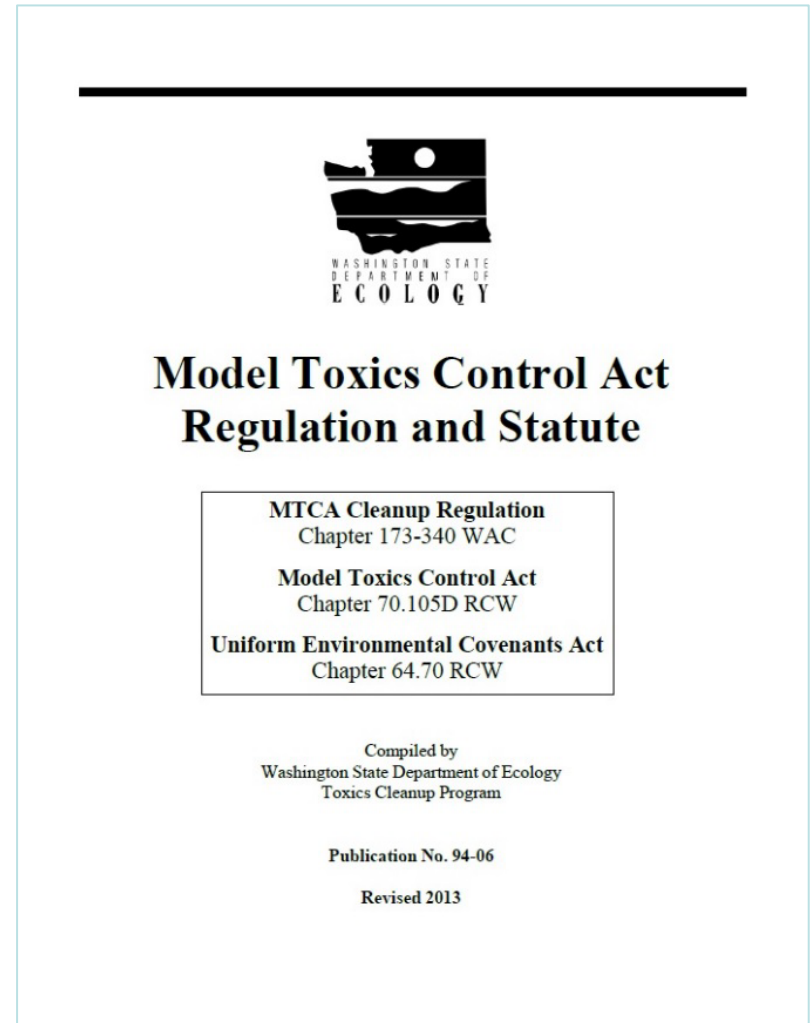


Model Toxics Control Act (MTCA)

MTCA establishes administrative processes and standards to identify, investigate and clean up facilities where hazardous substances have come to be located. Soil and upland focus.

Key principles of cleanup law:

- Streamlines cleanup approach
- Permanent remedies
- Joint & several liability
- Polluter pays
- Public participation



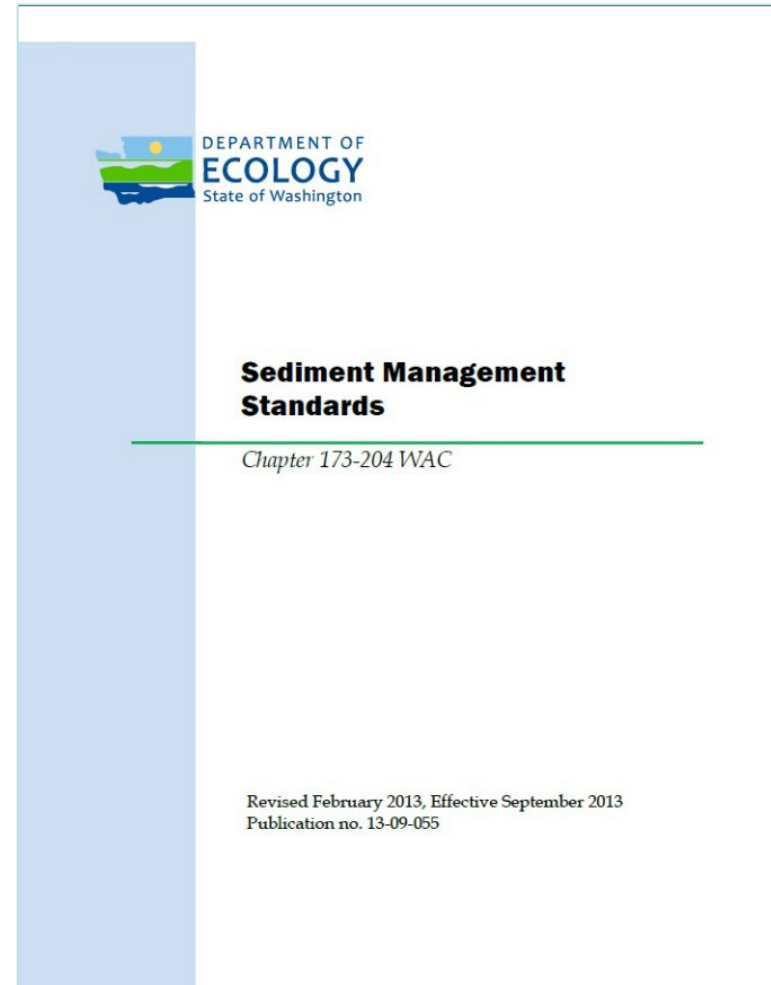
Sediment Management Standards (SMS)



DEPARTMENT OF
ECOLOGY
State of Washington

Chapter 173-204 WAC

Washington state's rule for
cleaning up contaminated
freshwater and marine
sediment



Sediment Management Standards

Why is it a separate rule from MTCA?



Sediment is unique

Risks from sediment contamination are different than upland:

- We eat a lot of fish and shellfish.
- We have thousands of miles of freshwater and marine shorelines (i.e. a lot of sediment).
- The majority of the population lives near water.

Clean sediment is important to:

- Protect people who eat fish and shellfish and recreate in water.
- Protect valuable natural marine and freshwater resources.
- Maintain attractive recreational opportunities and promote marine outdoor economic opportunities

Who is liable (Potentially Liable Person)?

- Owner and operator at the time of release
- Current owner or operator with any ownership interest or exercises any control
- For abandoned facilities, anyone who owned, operated or exercised control before abandonment
- Credible evidence that persons who owned the hazardous substance and arranged for disposal, treatment or transport (i.e. generators)

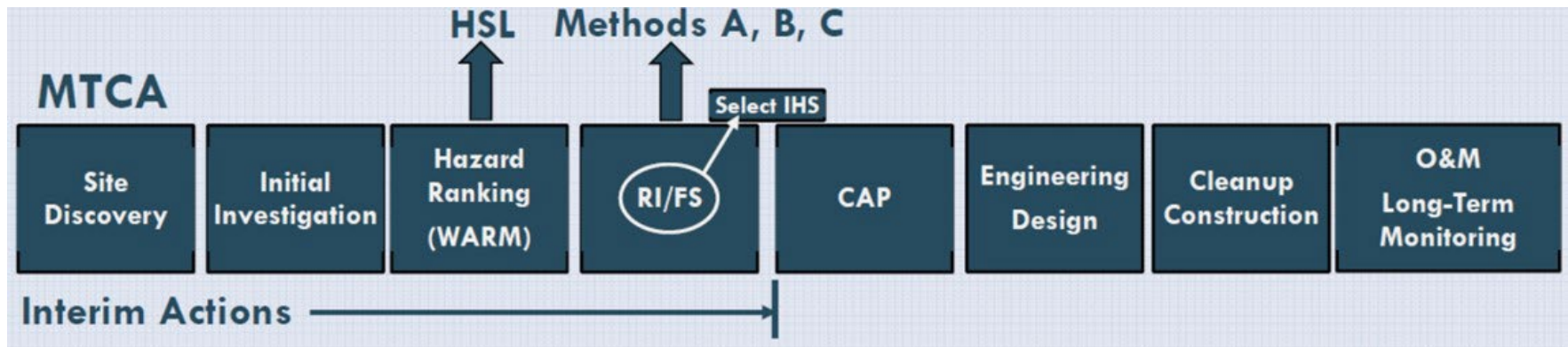
What is scope of liability?

- Joint and several: Any PLP may be liable for entire cleanup
- Strict: PLPs are liable for cleanup regardless of who was responsible for pollution

MTCA Cleanup Process

- Site discovery
- Initial investigation
- Site hazard assessment & ranking
- Interim action (if necessary)
- Remedial Investigation/Feasibility Study
- Cleanup Action Plan

Our Goal:
Constructively work
with PLPs to move
efficiently through
this process to reach
mutual goals



Our interactions with other Ports

- Open communication
- Understanding economic development and a clean environment can coexist
- Public participation is key in efficient cleanups

Puget Sound Initiative

- Began in 2005 - 2020 goal
- Assessing contamination baywide: 7 priority bays
- Over 100 contaminated nearshore sites
- Restoring and preserving the health of Puget Sound
- Working with Tribes and partners on human and environmental health and natural resources



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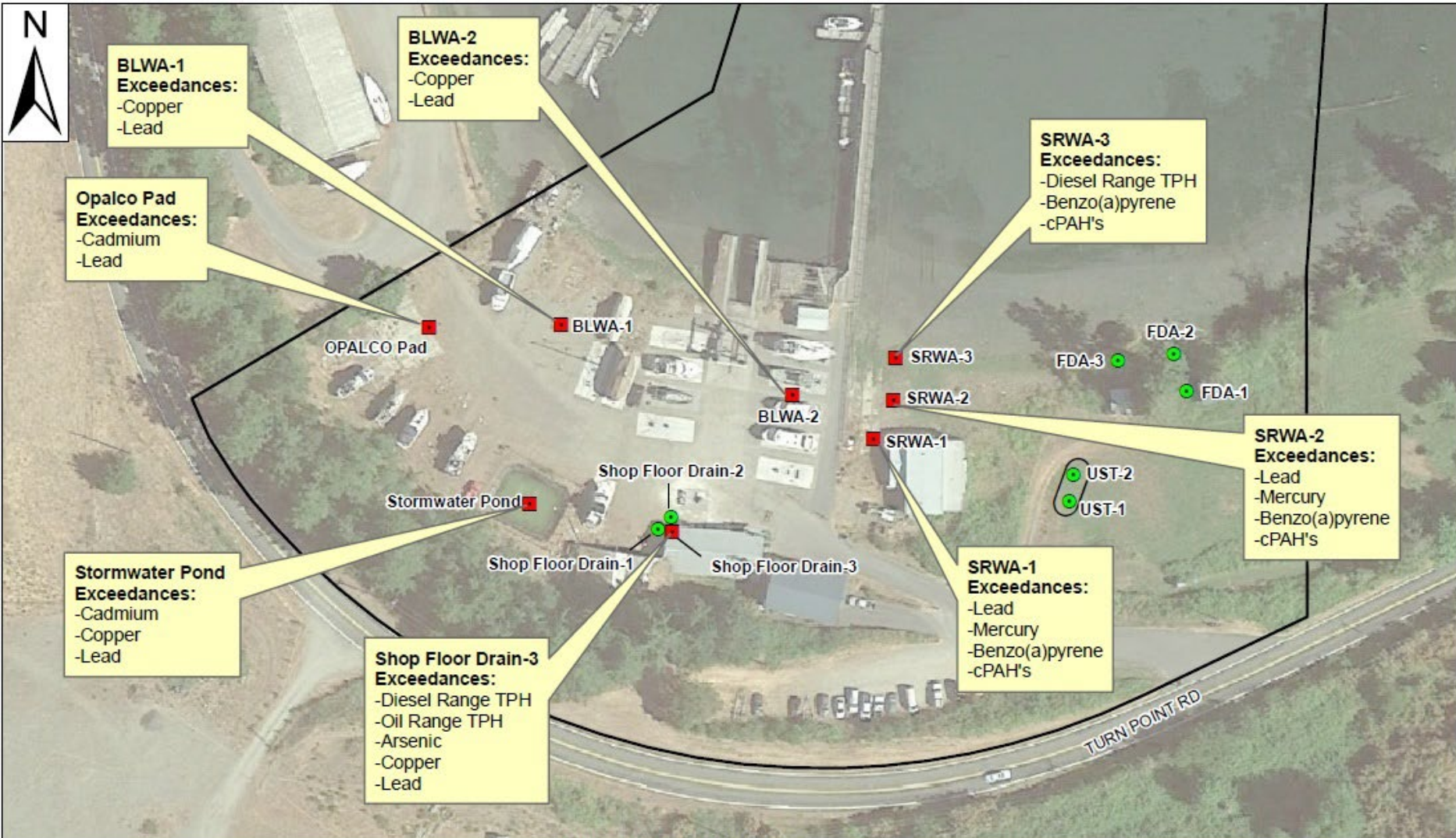
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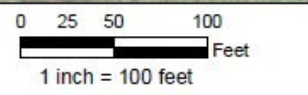


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All data are approximate and should be used for relative location reference only.
 2017 Google Earth aerial photograph.



Upland Soil Sample Results Map

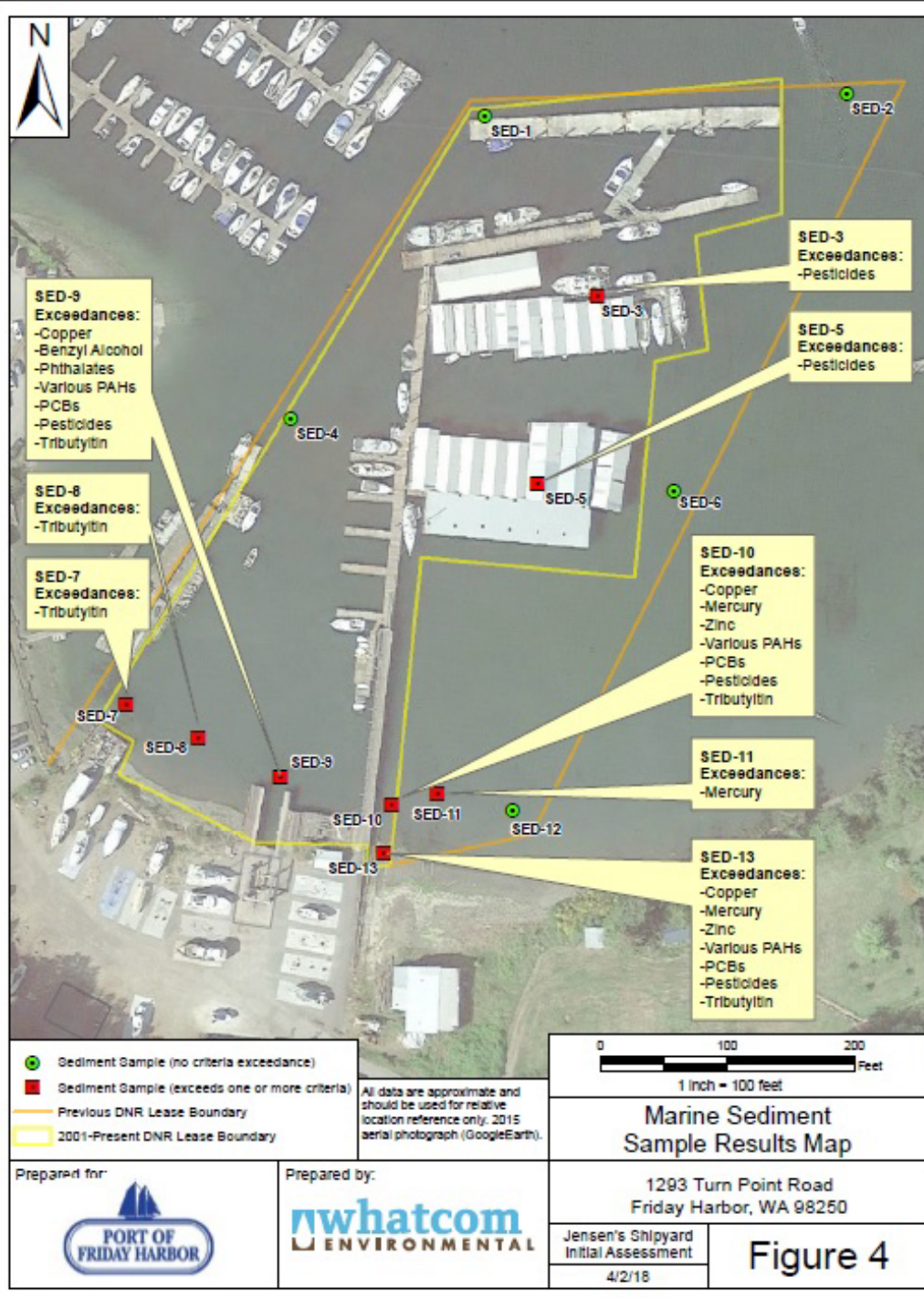
1293 Turn Point Road
 Friday Harbor, WA 98250

Prepared for:

Prepared by:

Jensen's Shipyard
 Initial Assessment
 3/27/18

Figure 3



Prepared for:



Prepared by:



Marine Sediment Sample Results Map

1293 Turn Point Road
Friday Harbor, WA 98250

Jensen's Shipyard
Initial Assessment
4/2/18

Figure 4



Everett Shipyard Bld.

Everett Engineering Buildings

Former Fish Processing/Storage

Former Net Dipping

Former Net Shed (Removed)

Travel Lift (Haul Out)

Marine Railway

Former Tidal Grid

- ▲ AST
- ◆ UST
- Approx. Outfall Locations

Everett Shipyard

- **Extent of contamination: 0.6 acres**

- **Sediment results**

Exceedances include:

- SVOCs
- Metals including arsenic, copper, lead, mercury, silver and zinc
- Tributyltin
- PCBs
- One bioassay failure

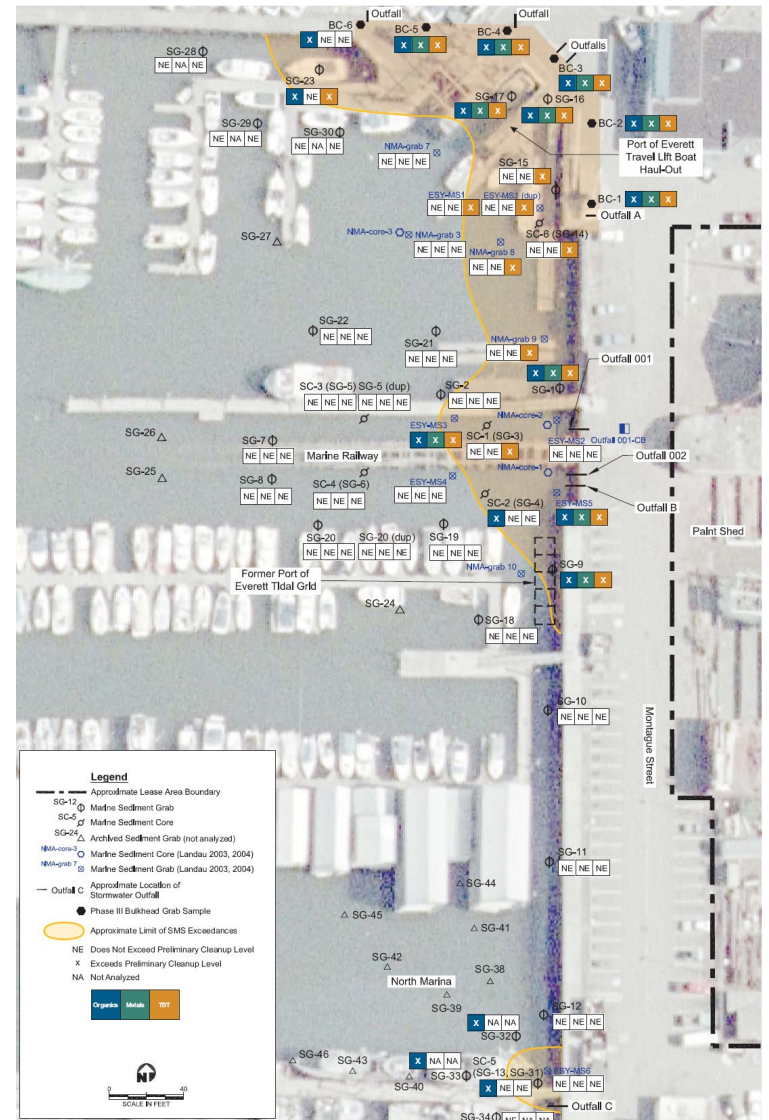


Figure 4-7

Area of SMS Exceedance in Shallow Sediment

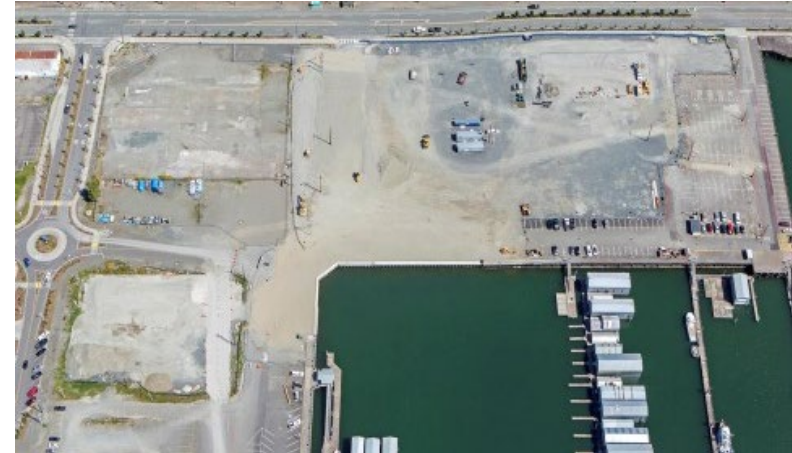
*Based on the results of the RI, four cleanup action alternatives were identified and evaluated for the **upland portion** of the Site: **1.8 to 5.4 Million***

- **Alternative 1**
 - Targeted excavation
 - (1,300 cubic yards)
 - Engineered-cap
- **Alternative 2**
 - Excavation (9,400 cubic yards)
 - Engineered-cap
- **Alternative 3**
 - Building demolition
 - Mass excavation
 - (18,800 cubic yards)
- **Alternative 4**
 - Limited building demolition
 - Bulk excavation (14,800 cubic yards)
 - Engineered-cap

*Based on the results of the RI, two cleanup action alternatives were identified and evaluated for the **in-water portion** of the Site: **2 Million for both***

- **Alternative 1**
 - Targeted dredging
 - Containment
- **Alternative 2**
 - Mass dredging

Before cleanup construction



After cleanup

Next Steps



- Update of current ownership
- Discuss additional upland/in-water sampling
- Transition from brownfield to cleanup site
- Discuss timeline moving forward
- Other topics

Contacts

- John Evered, Site Manager
jeve461@ecy.wa.gov , (360) 407-7071
- Leonard Machut, HQ Uplands Cleanup Supervisor
lema461@ecy.wa.gov , (360) 407-6923
- Barry Rogowski, HQ Cleanup Section Manager
brog461@ecy.wa.gov , (360) 407-7226

We're here to work with you