



Port Angeles Rayonier Mill Public Comment Period

Marian Abbett, P.E., Section Manager TCP-SWRO and Site Manager Connie Groven, P.E., UST/Technical Support Unit Supervisor Abby Zabrodsky, Public Involvement Coordinator July 8, 2025

Rayonier Mill Public Review

Consent Decree, Draft Interim Action Plan, SEPA Determination of Non-significance

Schedule of Events

5:00-6:00 Open House

6:00-7:15 Presentation and Q&A

7:15-8:00 Open House

Public Comment Period

Comments accepted until August 12, 11:59 PM

Submit comments online:

go.ecology.wa.gov/comment2270



Ecology's Rayonier Mill Webpage



Submit your comments online

Ecology Project Team Bobbak Talebi Southwest Region Director Nhi Irwin Toxics Cleanup Program Manager Marian Abbett Section Manager/Project Manager Connie Groven **Unit Supervisor** Nancy Davis **Environmental Planner** Thomas Praisewater **Environmental Engineer** Valerie Chu **Toxicologist** Public Involvement Coordinator Abby Zabrodsky **Public Involvement Coordinator** Carolyn Subramaniam Sarah Miller Public Involvement Coordinator

Introductions



Documents Available for Comment

We are accepting comments on:

- Consent Decree
- Draft Interim Action Plan
- State Environmental Policy Act Determination of Nonsignificance and Checklist



In-person document review

Port Angeles Main Library

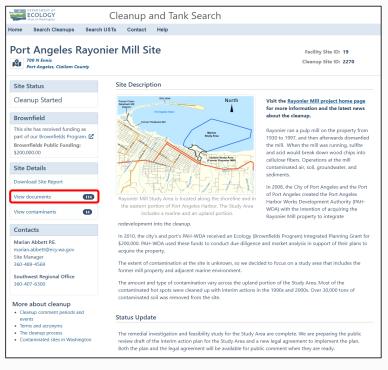
Ecology Lacey Office (by appointment)

- PublicDisclosureSWRO@ecy.wa.gov
- or 360-407-6365



Visit go.ecology.wa.gov/2270









Comment period will close Tuesday, August 12 at 11:59 PM

How to Comment





Submit comments online

go.ecology.wa.gov/comment2270





Or by mail or email

Marian Abbett, Site Manager

WA State Department of Ecology

PO Box 47775

Olympia, WA 98504-7775

Marian.Abbett@ecy.wa.gov



Comment Response

After the comment period, we will:

- Consider your comments
- Update the documents as needed
- Respond to comments in a comment responsiveness document

Presentation Overview

1 Washington's Cleanup Process

- 2 Rayonier Mill Study Area Cleanup
 - Draft Interim Action Plan
 - Cleanup, Structure Removal, and Restoration
 - Consent Decree

3 Next Steps

Port Angeles Cleanup Sites

Western Port Angeles Harbor

Terminals 5 6 & 7 Uplands

Port Angeles Harbor

6874

4. K Ply

W.Lauridsen Blvd

- 5. Marine Trades Area
- 6. Unocal Bulk Plant 0601
- Pettit Oil Company Tumwater Truck Route

W-Eautidsen-Blvd-

8. Former Shell Oil Bulk Plant

Rayonier Mill

Colympic
Medical
Center

https://go.ecology.wa.gov/portangelescleanup

Cleanup Process



Remedial Investigation and Feasibility Study (RI/FS) Process



1. Collect Data

- What?
- Where?
- How much?



3. Set Cleanup Standards

- Cleanup Levels
- Points of Compliance



2. Evaluate Risk

Pathways



4. Evaluate Remedies

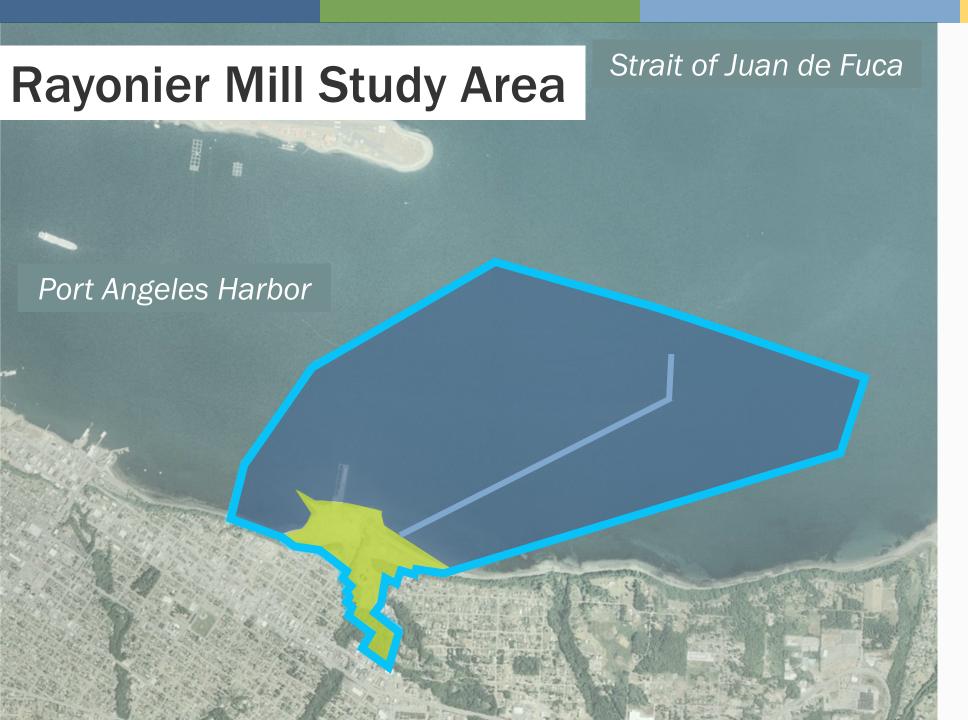
- Benefits
- Cost
- Permanence



Rayonier Mill Study Area



Rayonier Mill and floating log ponds while in operation.



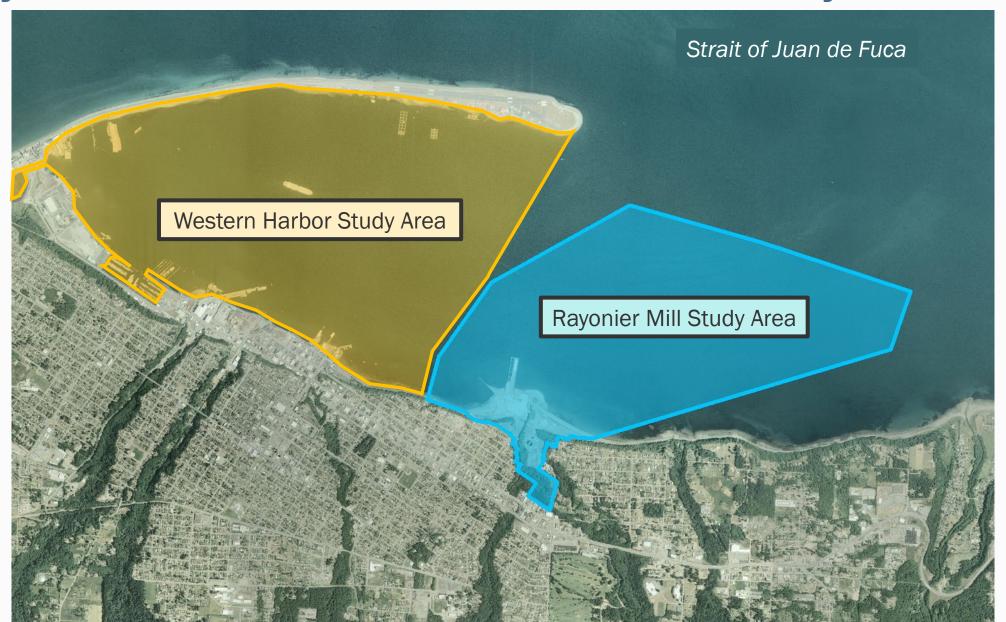
Study Area

Marine

Upland

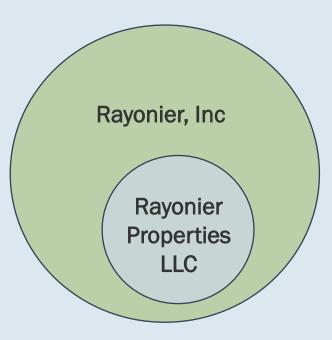
Deep WaterOutfall Line

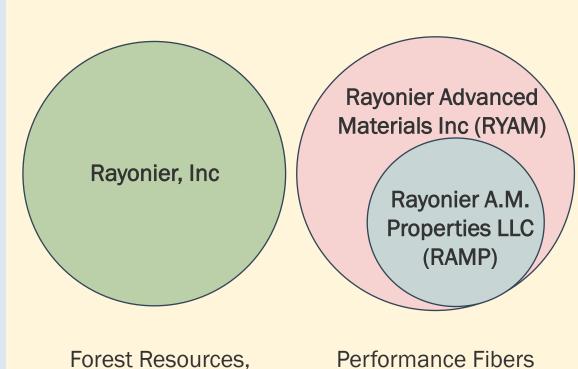
Rayonier Mill and Western Harbor Study Areas



Rayonier – What's In a Name...







2004-2014

2014-present

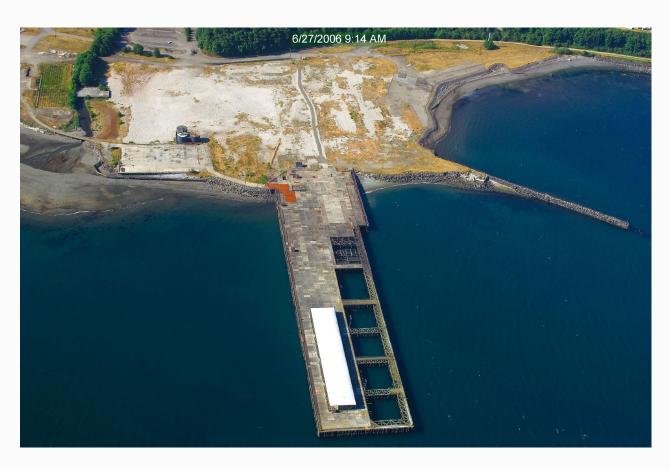
Real Estate

Before 2004

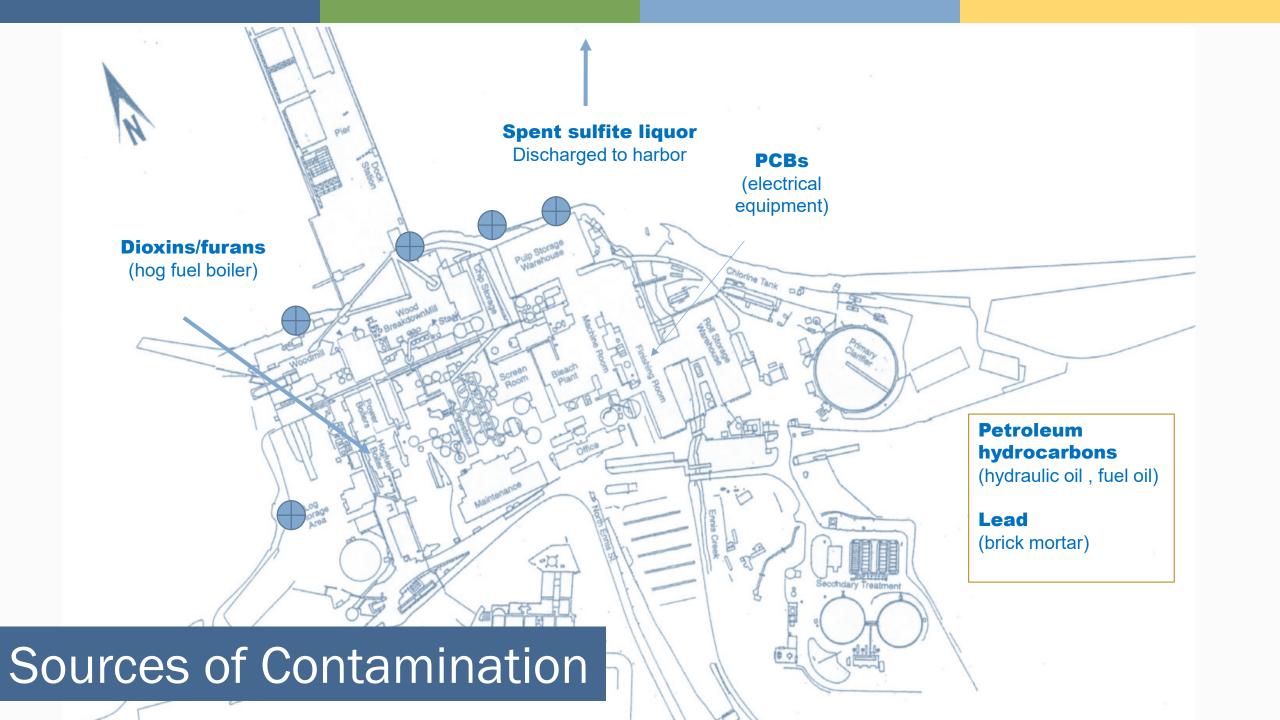
Rayonier Mill Background



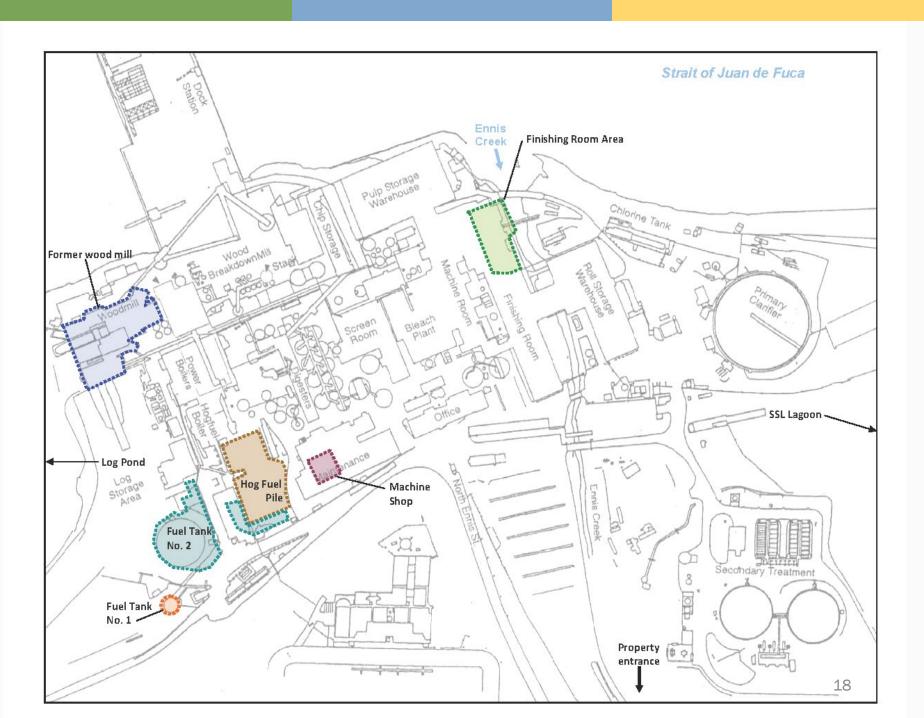
Mill in operation, 1994



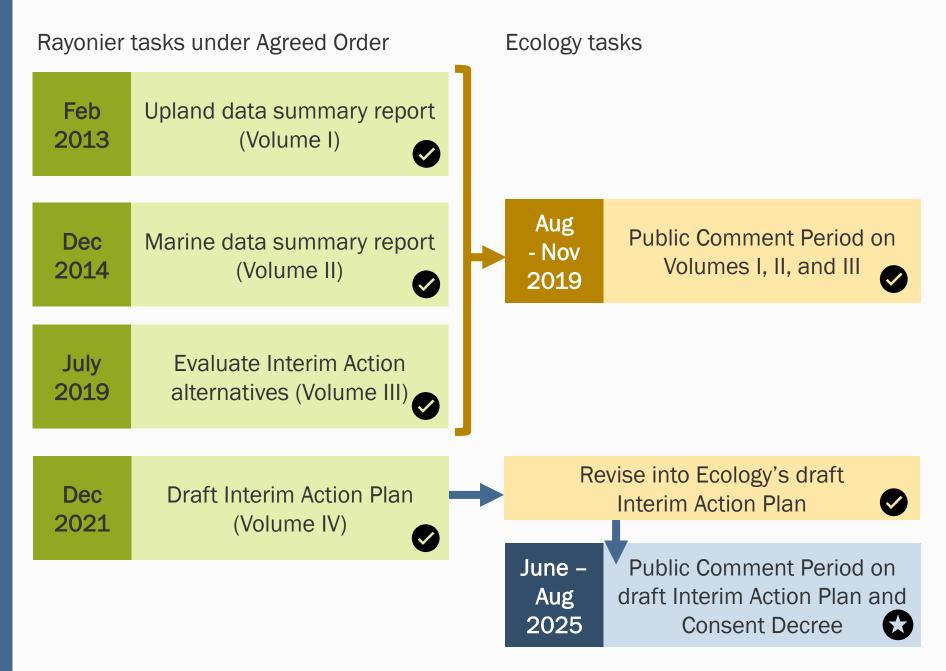
Dismantled mill site, 2006



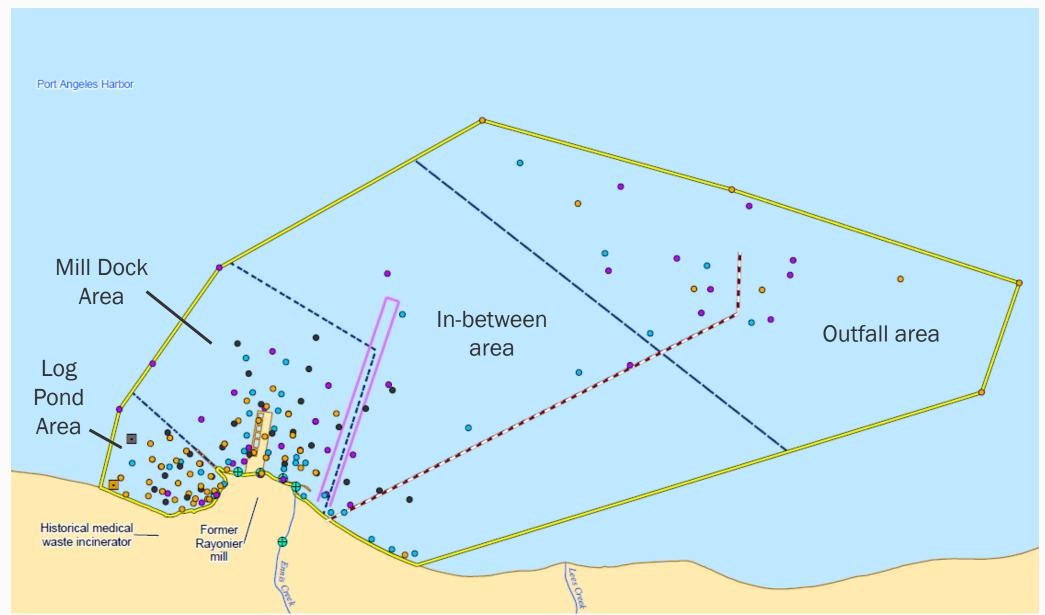
Interim Action Areas



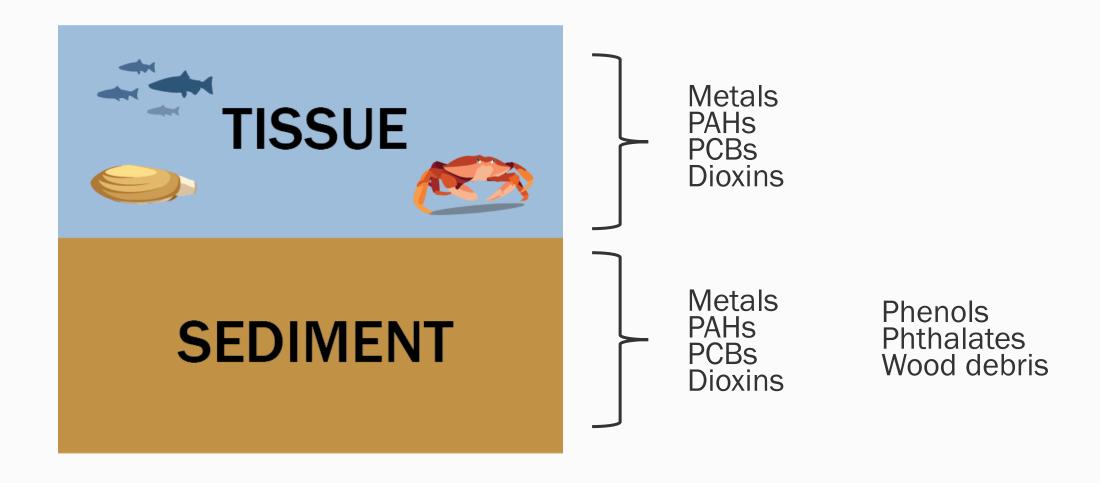
Study Area Cleanup Progress

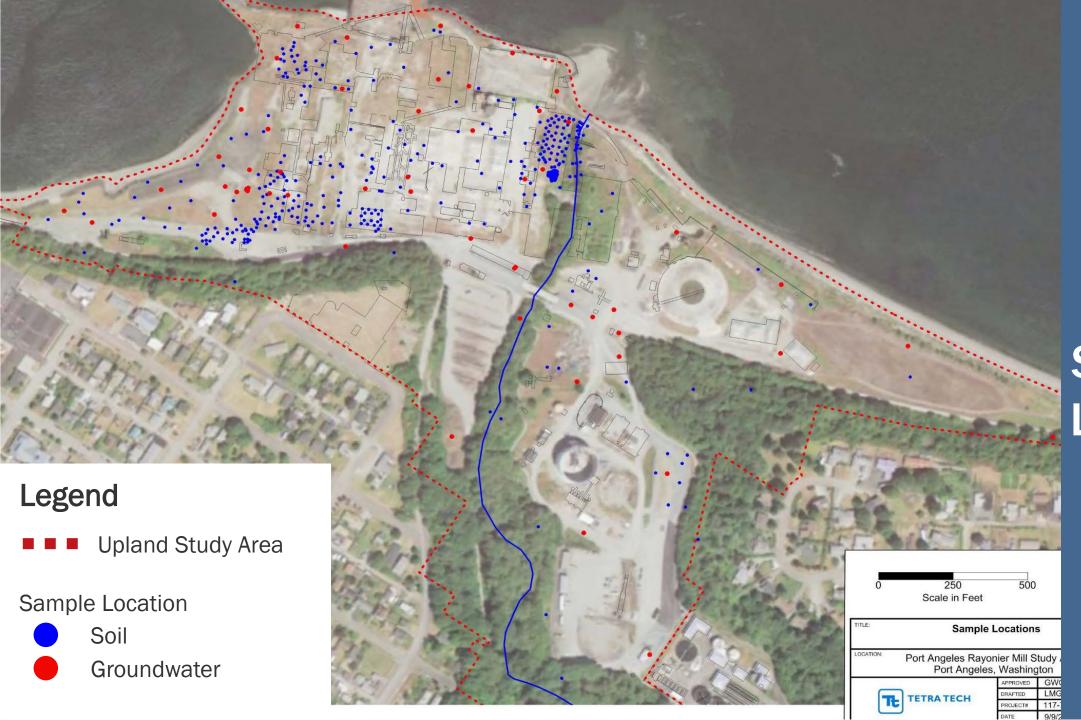


Marine Sampling Locations



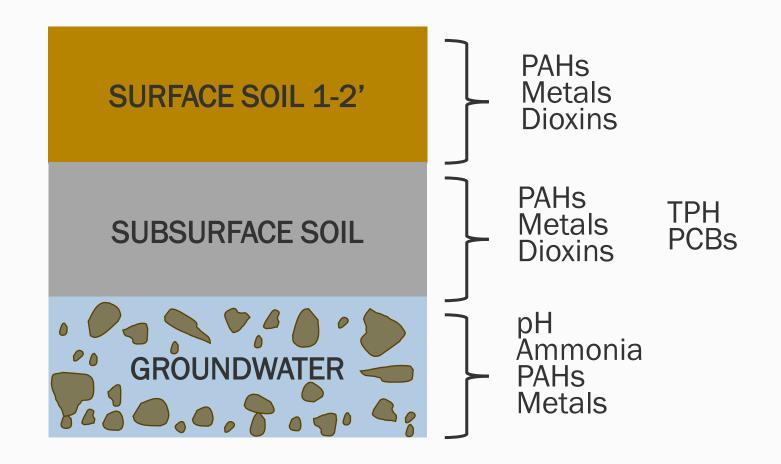
Marine Contamination



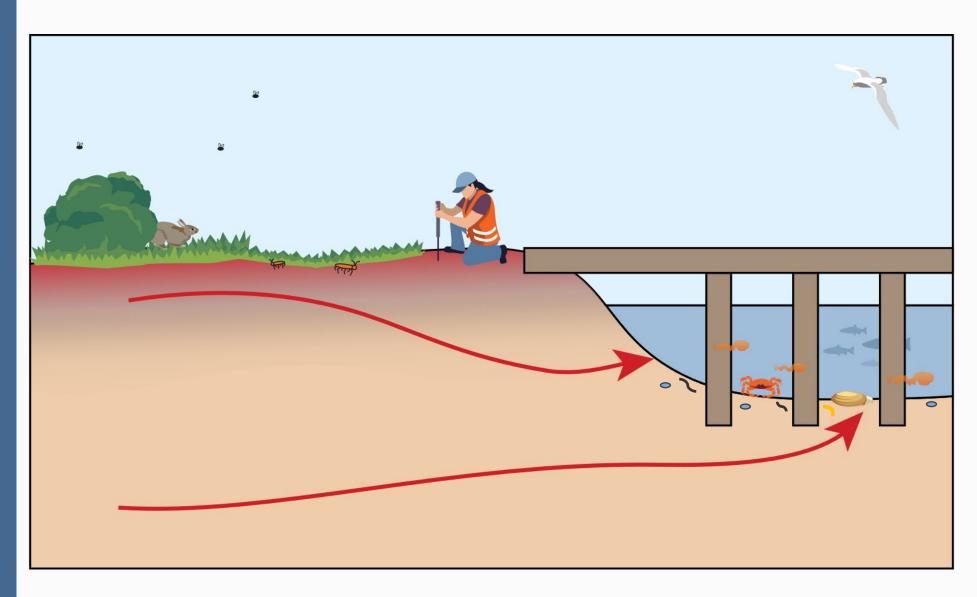


Upland Sampling Locations

Upland Contamination



Exposure Pathways



Selected Remedy

Media	Cleanup Actions	Cost (2019 \$)
Sediment	SMA1 – fill berth, EMNR SMA2 – dredge intertidal; EMNR subtidal SMA3 – contingent (EMNR or thin- layer cap or dredge) SMA4 – contingent (EMNR or thin- layer cap or dredge)	\$10.9M - \$13M
Soil	Consolidate and cap where soil exceeds unrestricted use cleanup levels	\$10M
Groundwater	Air sparging in phased approach	\$5.7M
	Total	\$26.6M - \$28.7M

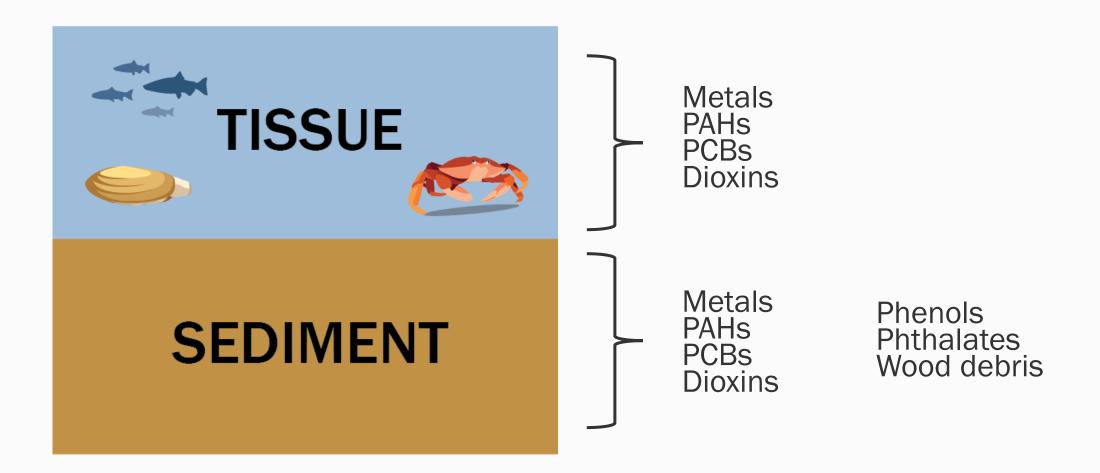


Sediment

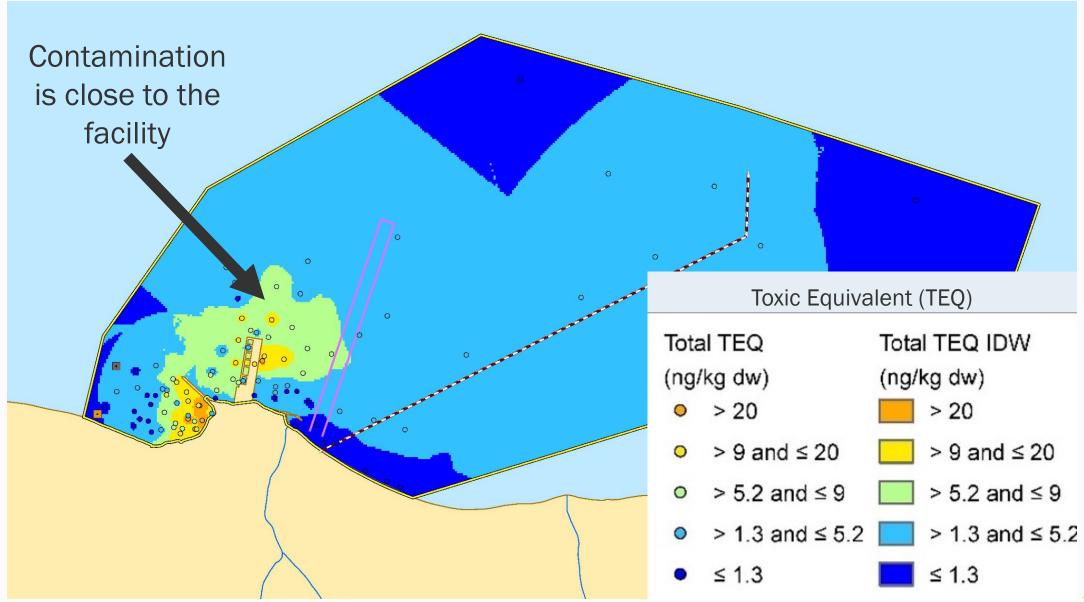


Beach looking east

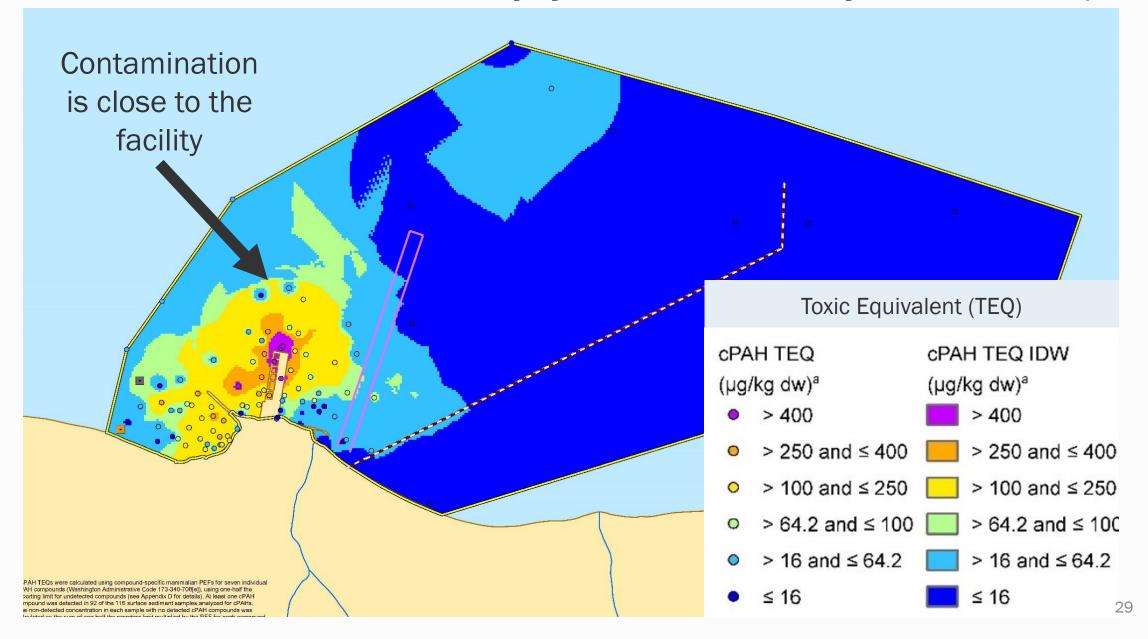
Marine Contamination



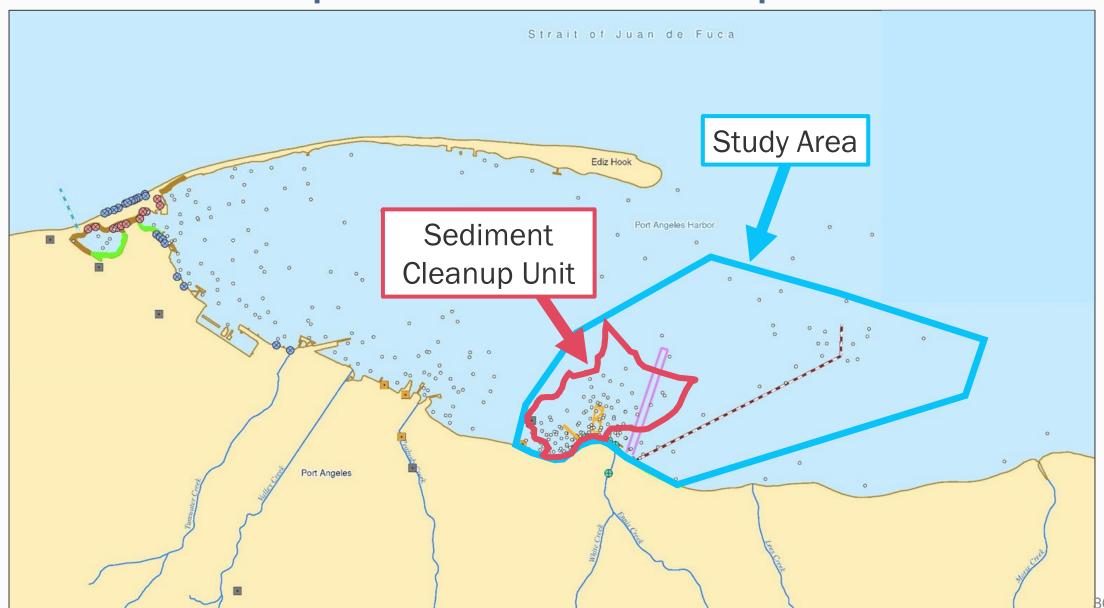
Sediment Contamination - PCB and Dioxin

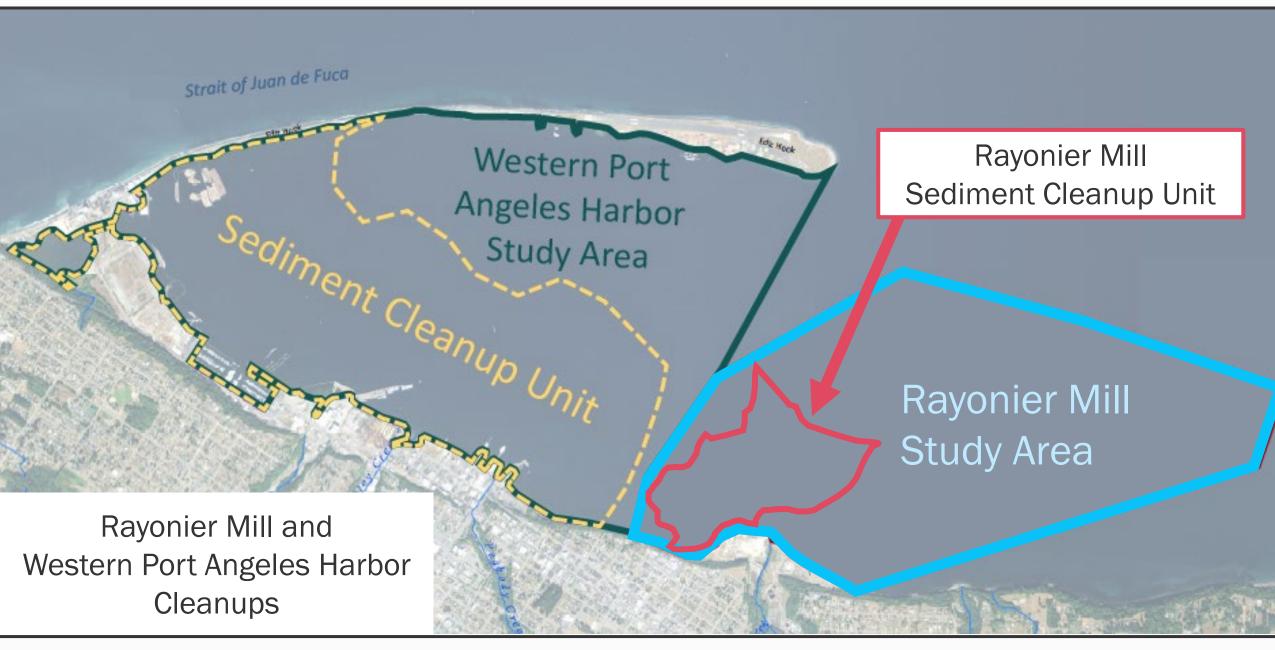


Sediment Contamination – Polycyclic Aromatic Hydrocarbons (PAHs)



Remediation Footprint - Sediment Cleanup Unit





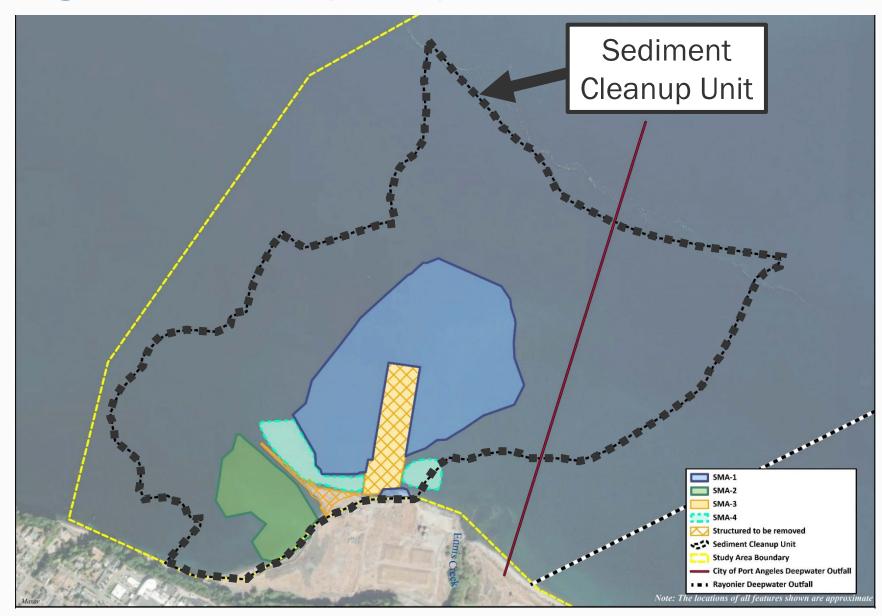
Sediment Management Areas (SMAs)

SMA 1

SMA 2

SMA 3

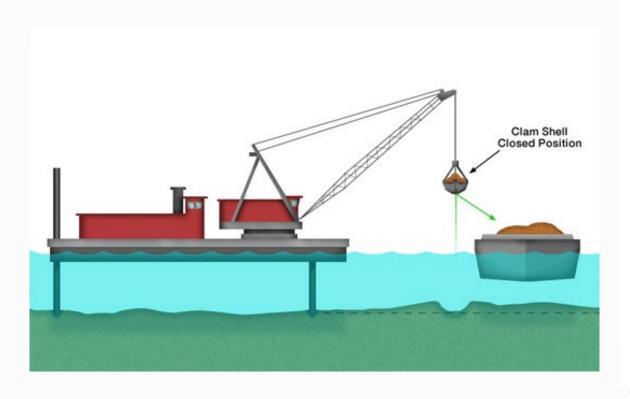
SMA 4



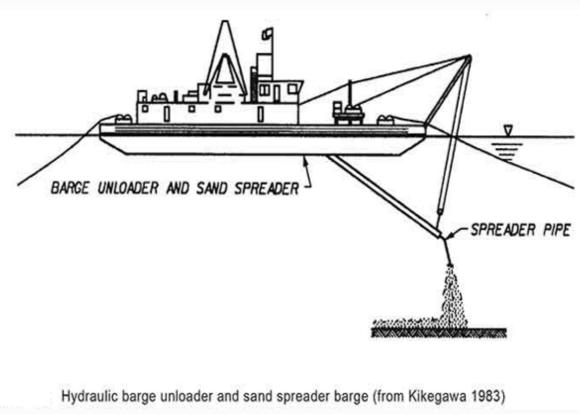
Sediment Cleanup Methods

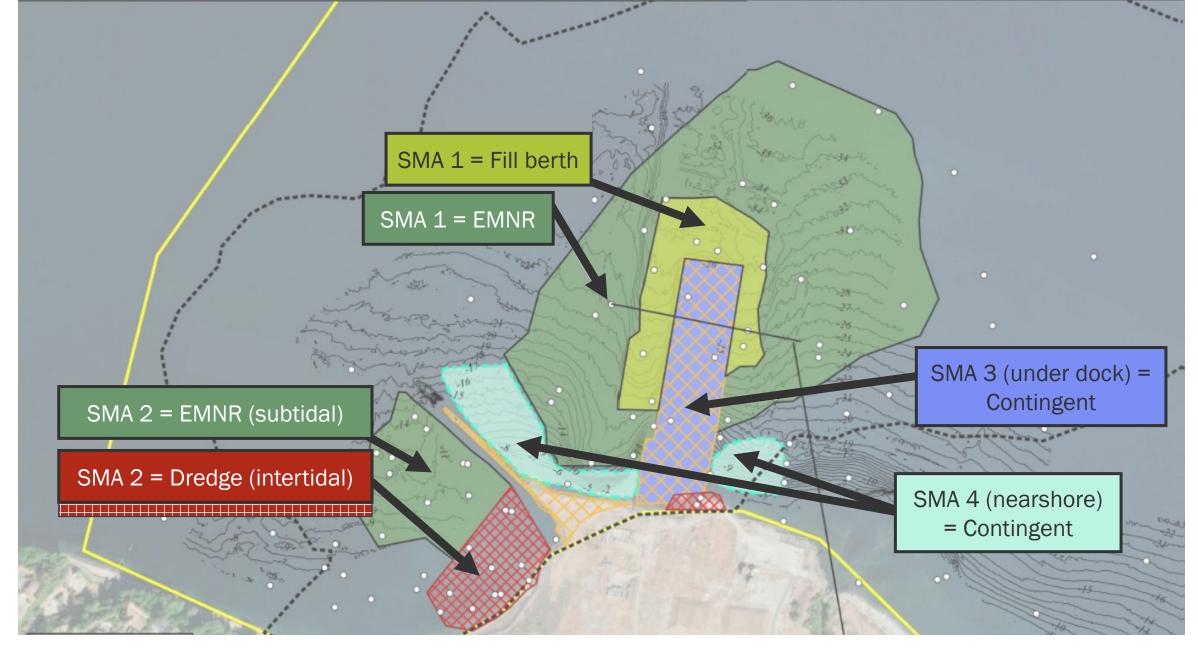


Dredging or Excavation



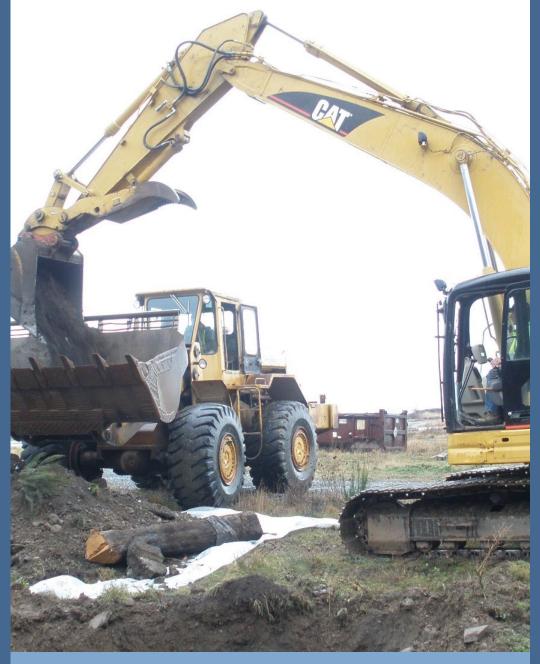
Enhanced Monitored Natural Recovery





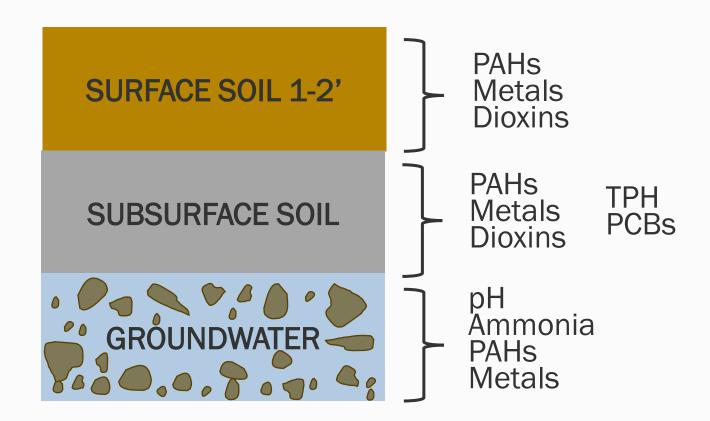
Sediment Selected Cleanup Action



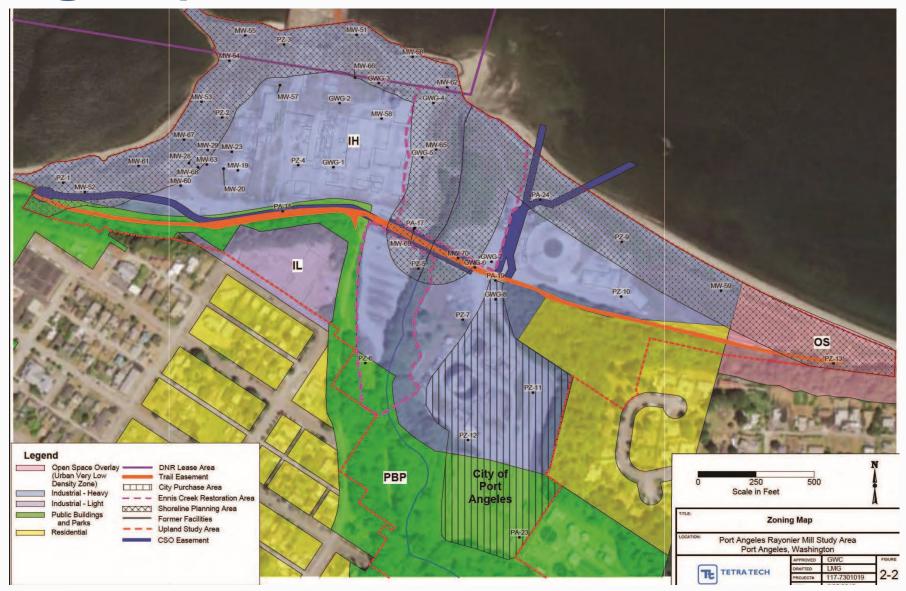


Test Pitting at Rayonier Mill

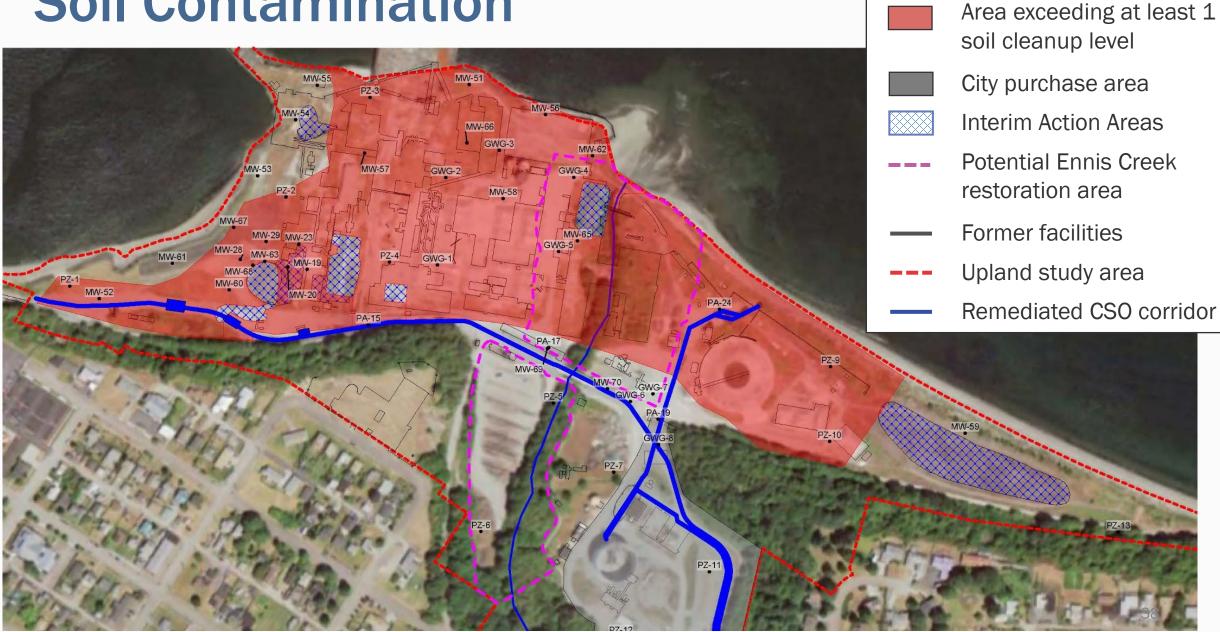
Upland Contamination



Zoning Map



Soil Contamination



Legend

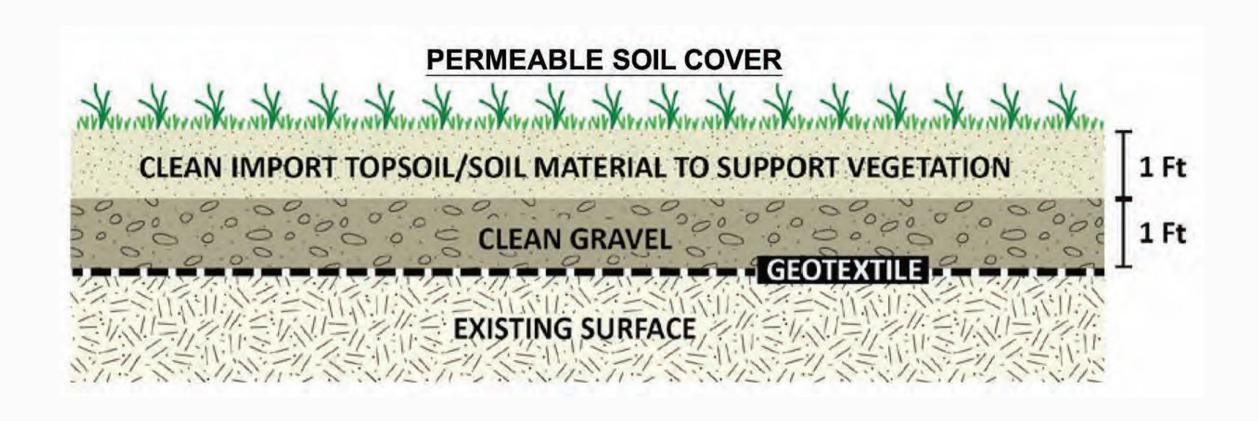
Soil Selected Cleanup Action



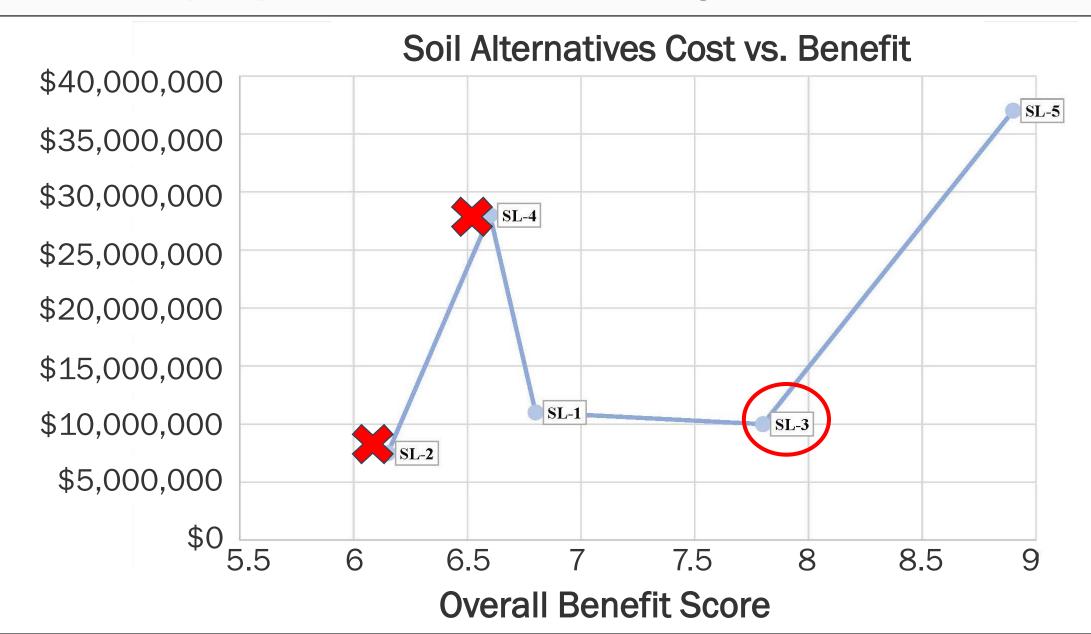
Upland study area
 Potential restoration area
 Shallow Excavation Area
 Deep Excavation Area
 Cap Area

Consolidate/Cap -Unrestricted Use Cleanup Levels

Soil Cap Example

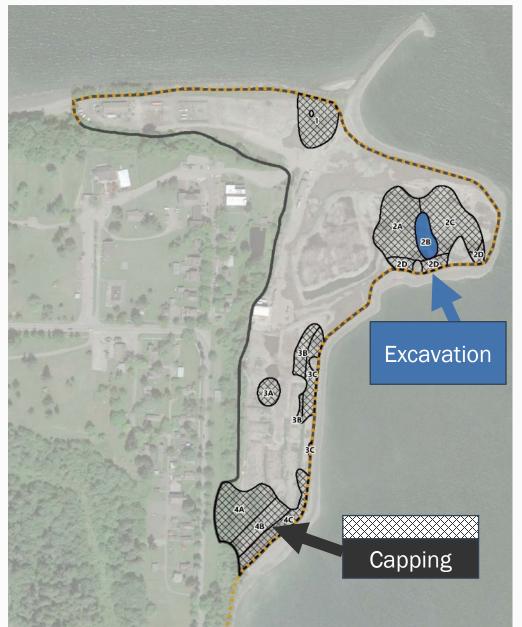


Soil - Disproportionate Cost Analysis



Port Gamble Bay and Mill Site

- Former Pope & Talbot sawmill
- 26,000 tons of contaminated soil previously removed as part of interim actions
- Elevated dioxins remain in soil
- Cap ~6 acres of property with elevated dioxins



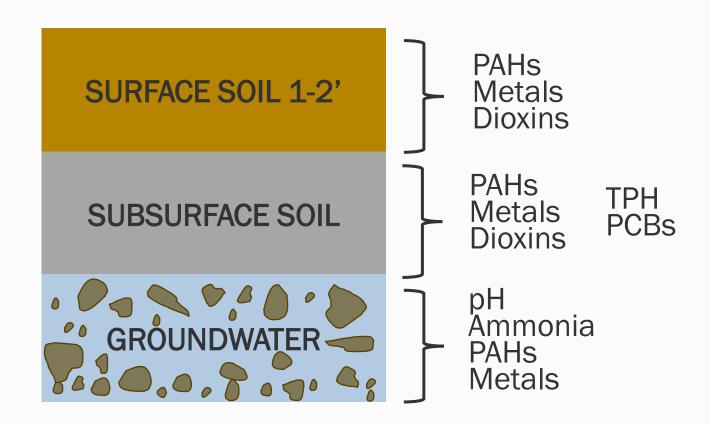


Groundwater

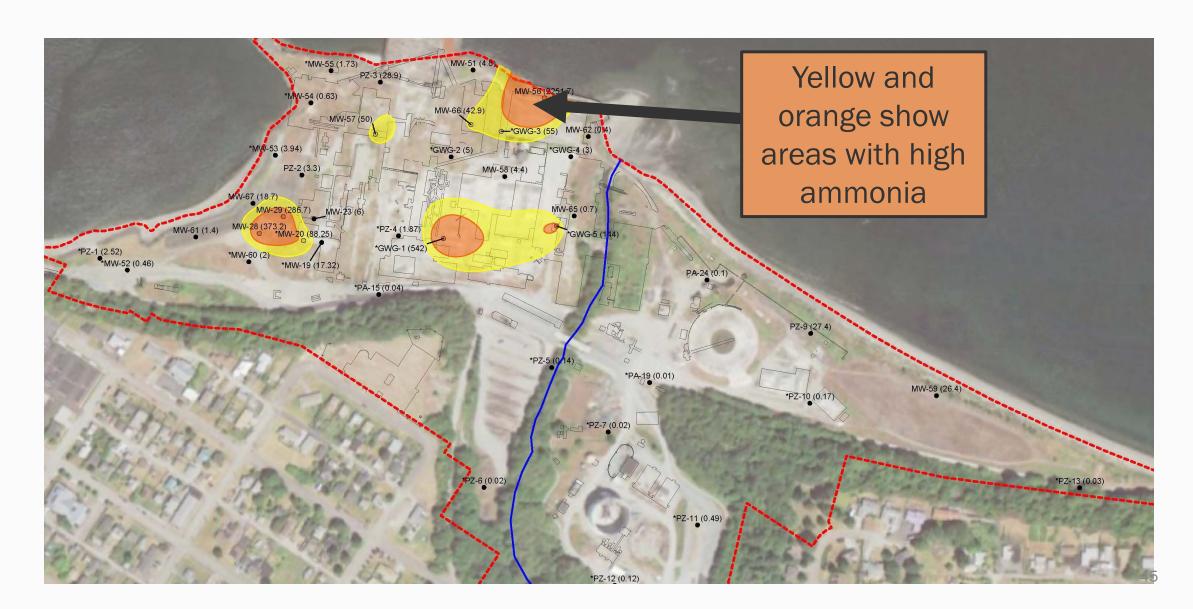


Drill Rig at Rayonier Mill

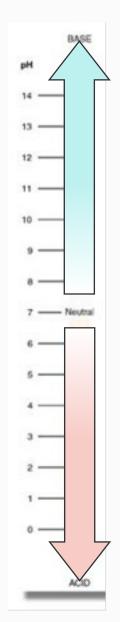
Upland Contamination

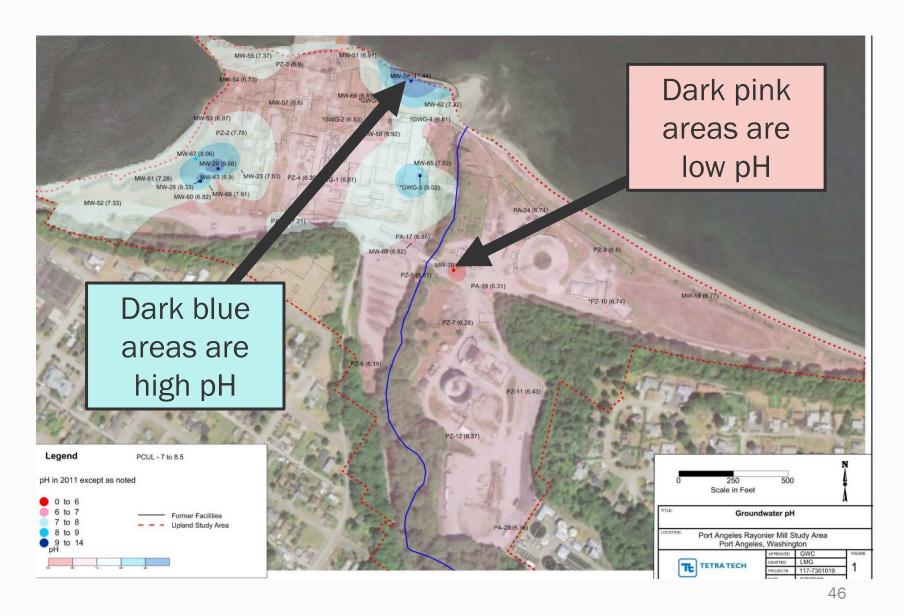


Groundwater Ammonia

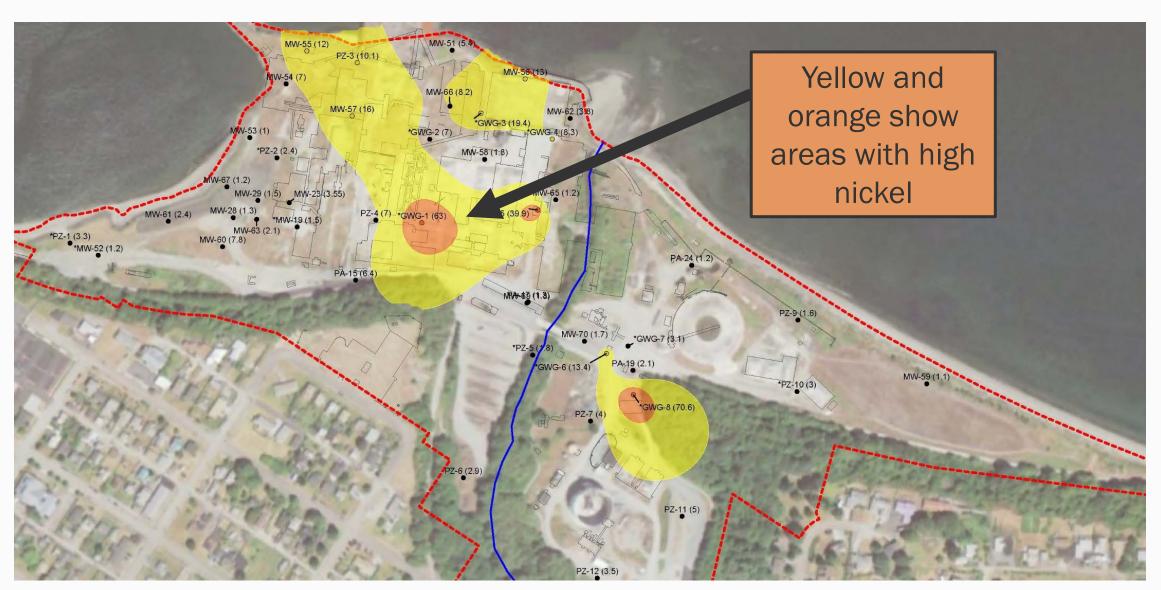


Groundwater pH

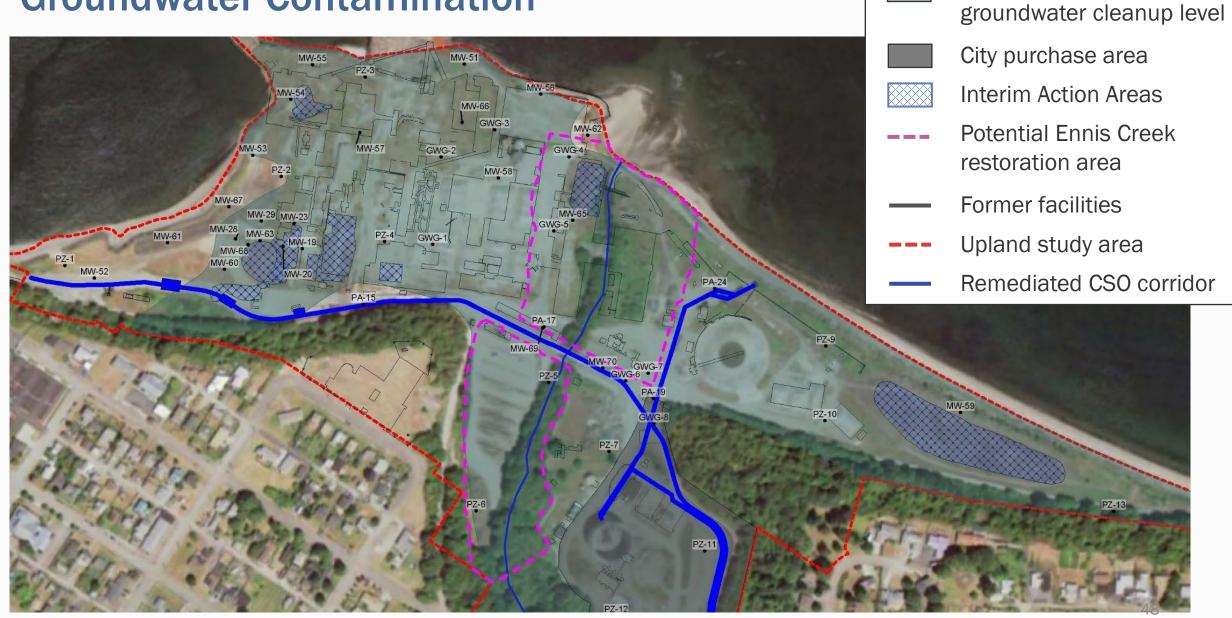




Groundwater Nickel



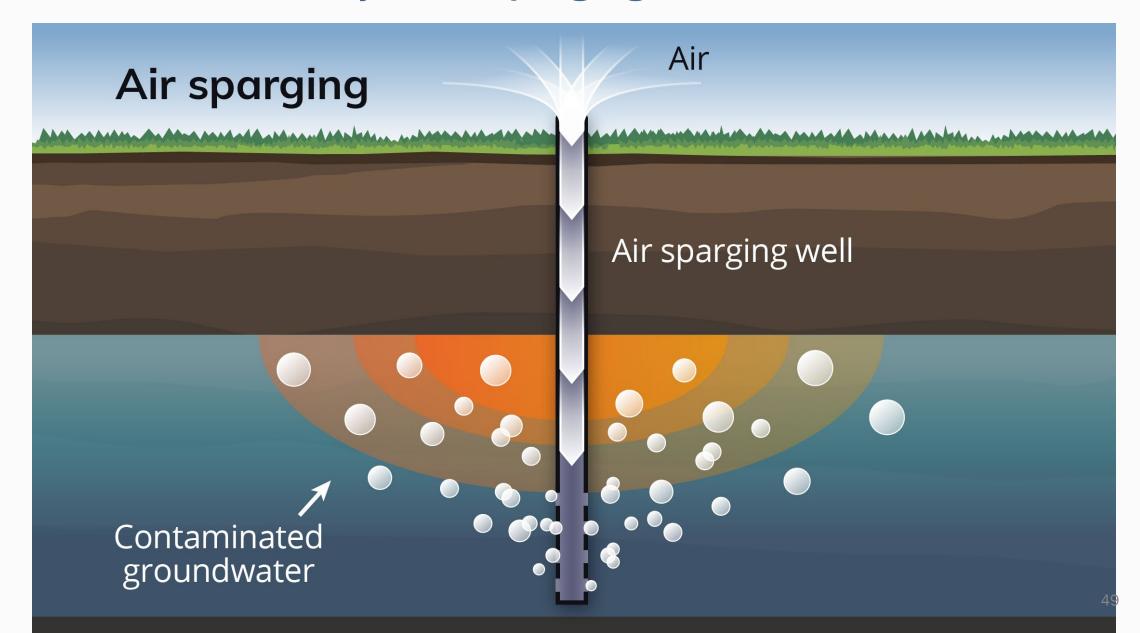
Groundwater Contamination



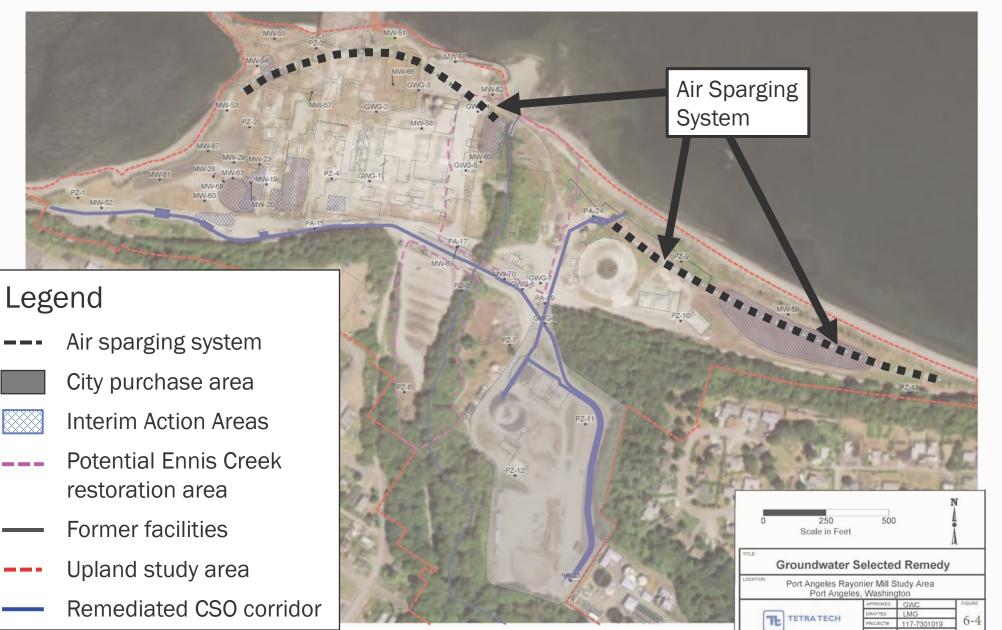
Legend

Area exceeding at least 1

Groundwater Remedy – Air Sparging

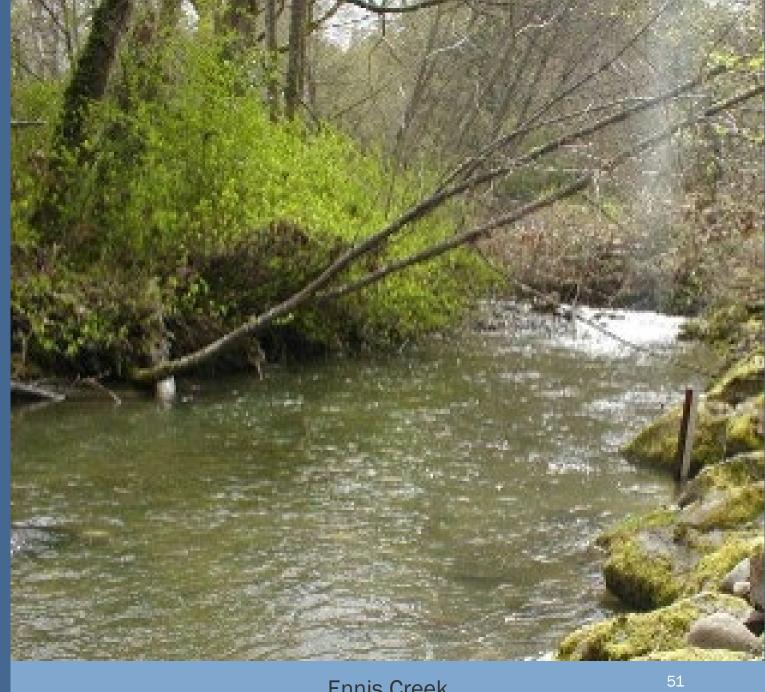


Groundwater - Air Sparging





Surface Water



Surface Water Sampling Locations

- 5 surface water sampling locations
 - 2 upstream (White and Ennis Creeks)
 - 3 downstream
- Metals detected below cleanup levels
- Dioxins detected above cleanup levels
- Dioxin levels were the same both upstream and downstream



Selected Remedy

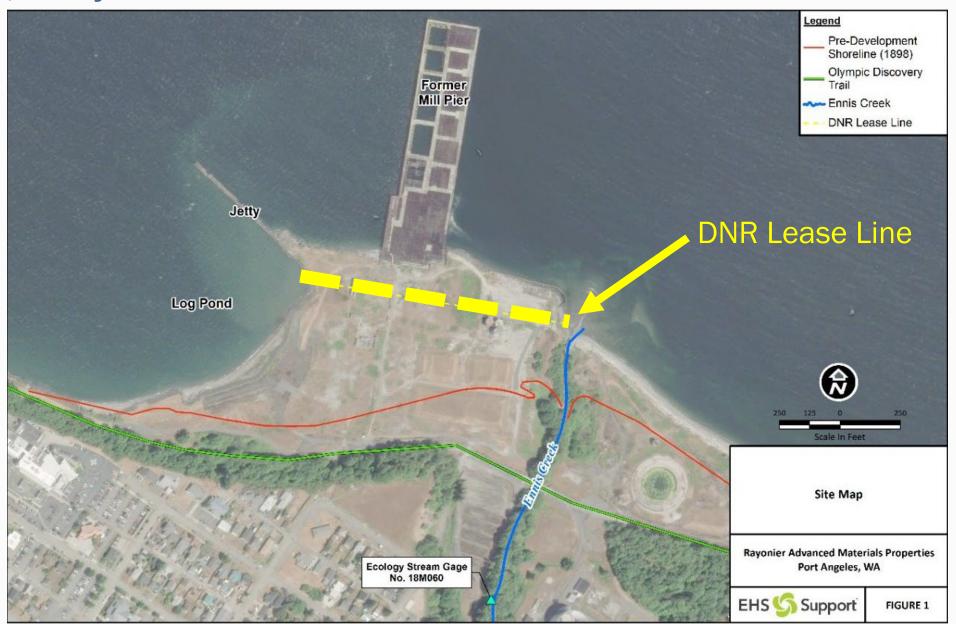
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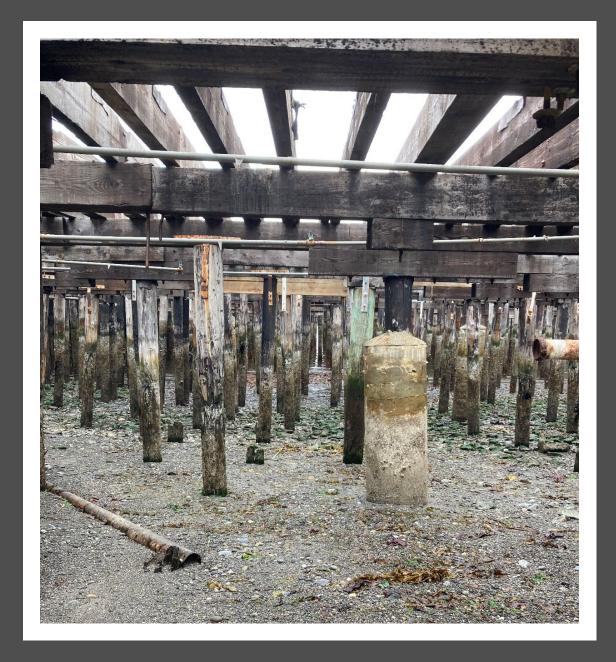
Cleanup, Structure Removal, and Restoration

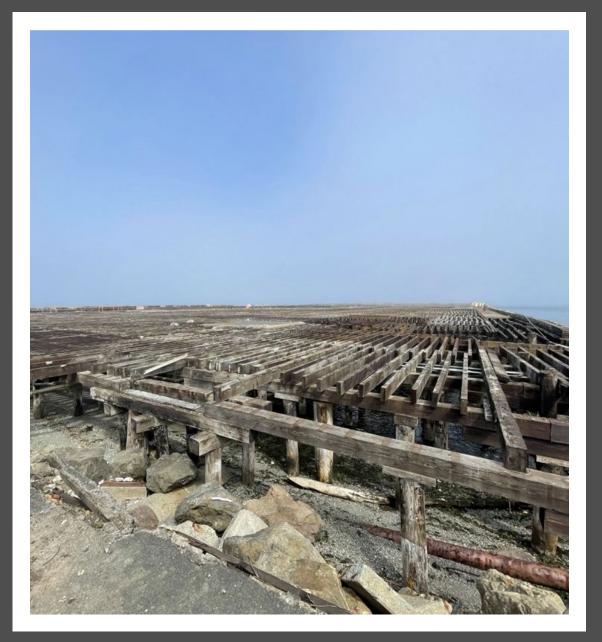


Dock, Jetty and Shoreline

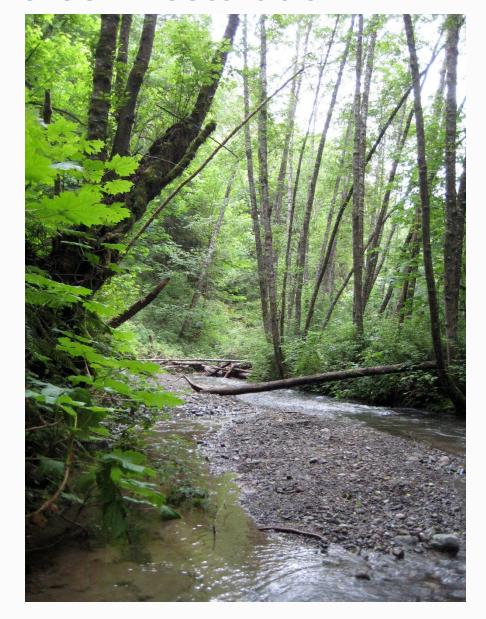








Ennis Creek Restoration







Rayonier Mill Consent Decree

STATE OF WASHINGTON CLALLAM COUNTY SUPERIOR COURT

STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY,	NO
Plaintiff,	CONSENT DECREE
V.	
RAYONIER A.M. PROPERTIES LLC and RAYONIER ADVANCED MATERIALS INC.	
Defendants.	

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360-586-6770

Consent Decree

- 29 sections (I XXIX)
 - 4 (IV) Definitions
 - 6 (VI) Work to be performed

- 3 Exhibits
 - Rayonier Mill Study Area Diagram
 - Interim Action Plan
 - Western Port Angeles Harbor Study Area Diagram



Next Steps



Soil excavation at Rayonier Mill during 2012/13 Interim Action

Remedial Design and Construction Steps

Hydrodynamic Modeling and sediment sampling	 Pre-Remedial Design Work Plan Data submittals Sediment & Hydrodynamic Modeling Results Report
Master Plan	 Master plan and Schedule Phases of design and construction
Data collection and engineering evaluations	Remedial Design Work PlanData submittals
Remedial design and permitting	Engineering Design ReportConstruction Plans and SpecsPermits
Construction	 Monthly Progress Reports Annual Progress Reports Cleanup Action Report
Long-term monitoring	 Monitoring Periodic Reviews

Thank you!

Q&A Session





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How to Comment





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WA State Department of Ecology

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Olympia, WA 98504-7775

Marian.Abbett@ecy.wa.gov