

LOWER DUWAMISH WATERWAY

FINAL CLEANUP PLAN

(also known as the Record of Decision, or ROD)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 28, 2015

Why Clean Up the Duwamish Waterway?

- Over 100 years of industrial and urban use has polluted waterway mud (sediments)
- Mud is contaminated with harmful chemicals
- Resident fish and shellfish (like perch, sole, crabs) are unsafe to eat



Cleanup Objectives

Reduce risks to:

- 1. People who eat resident fish and shellfish.
- 2. People coming into contact (skin contact and ingestion) with contaminated sediments.
- 3. Bottom-dwelling organisms, such as crabs and clams.
- 4. Fish, birds, and mammals.



Clean Up Early Action Areas

- Will be completed by the end of 2015
- Address 29 acres of the most contaminated areas in the waterway
- Remove approximately 280,000 cubic yards of contaminated sediments
- Projected to reduce surface sediment PCB concentrations by 50%

Coordination with Source Control

- Ecology will revise their approach to controlling sources to the Waterway. Industrial activity, rain runoff, and combined sewer overflows are all sources of pollution in the Duwamish.
- When will sediment cleanup begin? When Ecology determines on-going sources to the river are unlikely to or cause recontamination of the sediments.

Monitored Natural Recovery (MNR)

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Remedy	Area	Time	Cost	Follow-Up
Dredging	105 Acres		\$342 Million	<section-header></section-header>
Chen bard Chen bard Common Copy Common Copy Copy Common Copy Copy Common Copy C	24 Acres	7 Years		
Enhanced Natural Recovery (ENR)	48 Acres			
Monitored Natural Recovery (MNR)	235 Acres	10 Years		
	412 Acres	17 Years		

What has changed in the Cleanup Plan (based on public comment?

- Requires more dredging of contaminated mud.
- Work with waterway businesses and users to ensure that the cleanup will be as compatible as possible with all uses of the waterway.
- Uses new sampling data to update dredging volumes and cost estimates

Together, the Final Cleanup Plan and cleanups in the Early Action Areas will...

- Dredge, cap, and enhance natural recovery for over 206 acres;
- Remove over 1.2 million cubic yards of contaminated sediments; and
- Reduce PCB concentrations in the river by at least 90%

Community Involvement

- Community input on the Proposed Plan helped shape changes in the Final Plan
- Fishers Study to learn about who fishes, cooks and eats resident fish and shellfish
- Revise the Community
 Involvement Plan
- Design of the Cleanup Remedy

Questions?