

Welcome to the Lower Duwamish Waterway Roundtable Meeting

WEDNESDAY, NOVEMBER 10, 2021



Với âm thanh tiếng Việt, gọi 206-456-6050 và bấm Mật Mã: 35583#
Para escuchar en español, llamar al 206-456-6050 código de acceso: 15297#
សម្រាប់សំឡេងជាភាសាខ្មែរ សូមទូរស័ព្ទមកលេខ 206-456-6050 លេខកូដ: 05513#

Do you have your meeting materials?

Meeting materials (English, Vietnamese, Spanish, and Khmer) can be found on the Lower Duwamish Waterway Roundtable Website: <https://www.duwamishwaterwayroundtable.org/meetings>

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You will need:

- Today's meeting agenda
- Today's meeting slides
- You can also reference the previous Roundtable meeting summary



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Facilitator's Notes



Keep yourself on mute unless you are speaking.



Balance speaking time and stay on the agenda topic.



Introduce yourself when speaking: “This is (name) with (affiliation, caucus/seat)”



In disagreements, share the reason why you feel as you do, and ask questions to find out how other feel.



Be respectful and courteous.



Be patient with potential internet connectivity issues - we will do our best to create a seamless experience!

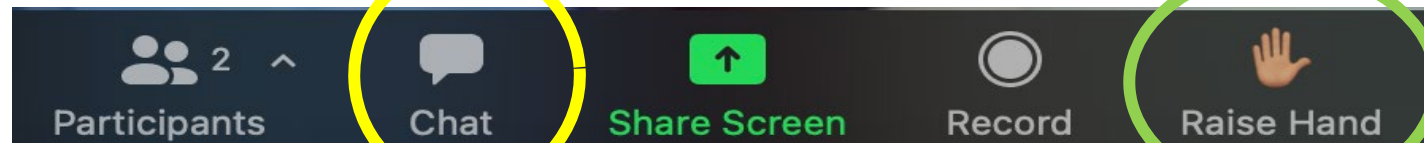
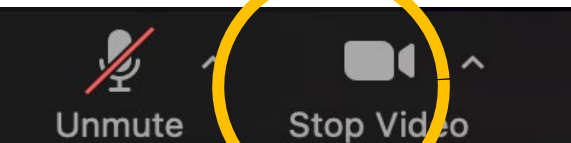


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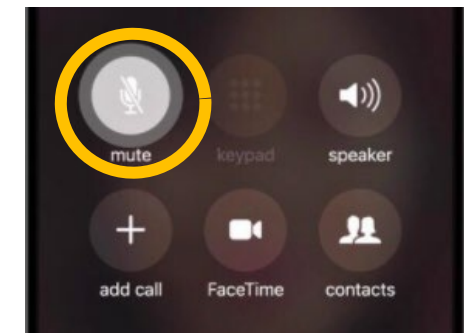
Tips for Using Zoom

If you have a **technical problem** or want to **type a question**, please type them in the chat! Or, ask your interpreter to type for you.

If you want to **comment** or ask a **question verbally**, please click 'Raise Hand' and we will call on you.



Please **keep yourself on mute** unless you are speaking. By phone only? Use your mute button or “*6”



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Multilingual Meeting Best Practices

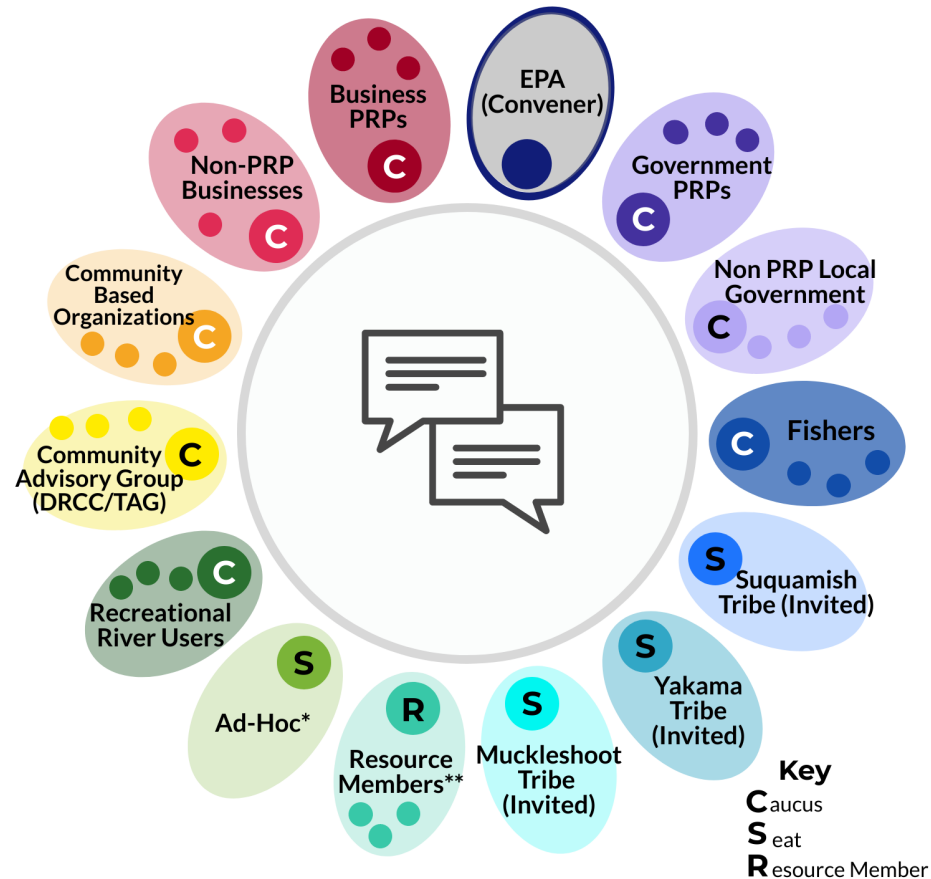
English participants should...

1. Speak slowly!
2. Take pauses every 2-3 sentences
3. Avoid acronyms
4. Use common language



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Purpose of the Roundtable



The Lower Duwamish Waterway (LDW) Roundtable is a forum for those affected by the cleanup of the *Lower Duwamish Waterway Superfund Site* to make **recommendations** to the U.S. Environmental Protection Agency (EPA) during the **design and construction** of the cleanup.

* Non-governmental community members or interest groups not represented in the Community caucus.

** Government entities that contribute information but do not develop recommendations, including but not limited to the WA Dep't of Ecology and others

Today's Meeting Purpose



- Discuss community involvement for the LDW Community related to the East Waterway Superfund Site.
- Hear brief technical updates from EPA on the status of the cleanup.
- Hear updates from Roundtable members.

Today's Agenda



- Optional Technology Testing *30 minutes prior*
- Welcome, Introductions, and Where We Left Off *Facilitator*
- East Waterway Superfund Site *EPA*
- Informational Technical Updates *EPA*
- Announcements from Roundtable Caucuses *All Caucuses*
- Observer Comments and Questions
- Wrap Up and Next Steps
- Breakout Rooms for Optional Debrief and Informational Networking *Optional*

Welcome and Roundtable Introductions



Elly Hale
Remedial Project Manager
U.S Environmental Protection Agency
(EPA)



Kay Morrison
*Community Involvement
Coordinator*
U.S Environmental Protection Agency (EPA)

Piper Peterson
Institutional Controls Coordinator
U.S Environmental Protection Agency (EPA)

Welcome and Roundtable Introductions

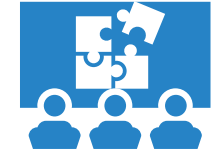
The facilitator will review the Roundtable caucuses and caucus leads.



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Roundtable Steering Committee



Coordinates with EPA to guide the work of the Roundtable, including soliciting agenda topics, drafting meeting agendas, and developing Roundtable work plans.

Includes members from three interest groups:

- Residents (Primary: James Rasmussen, DRCC; Alternate: Edwin Hernandez Reto, community member)
- Business/Industry/Labor (Primary: Pat Jablonski, Nucor; Alternate: Jonathan Hall, La Farge)
- Fishers (Rotating: Sophorn Sim, Emma Maceda, Quan Phan)

Recap of Previous Roundtable Meeting and Webinars

Did you watch the Roundtable webinar series
(or read the summaries)? 😊

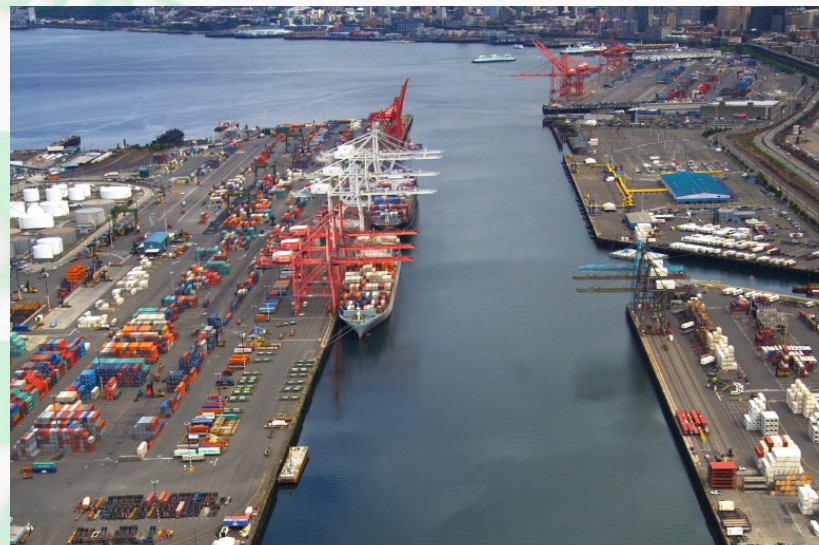
Roundtable webinar materials (English, Vietnamese, Spanish, and Khmer) can be found on the Lower Duwamish Waterway Roundtable Website:

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Harbor Island's East Waterway

An introduction

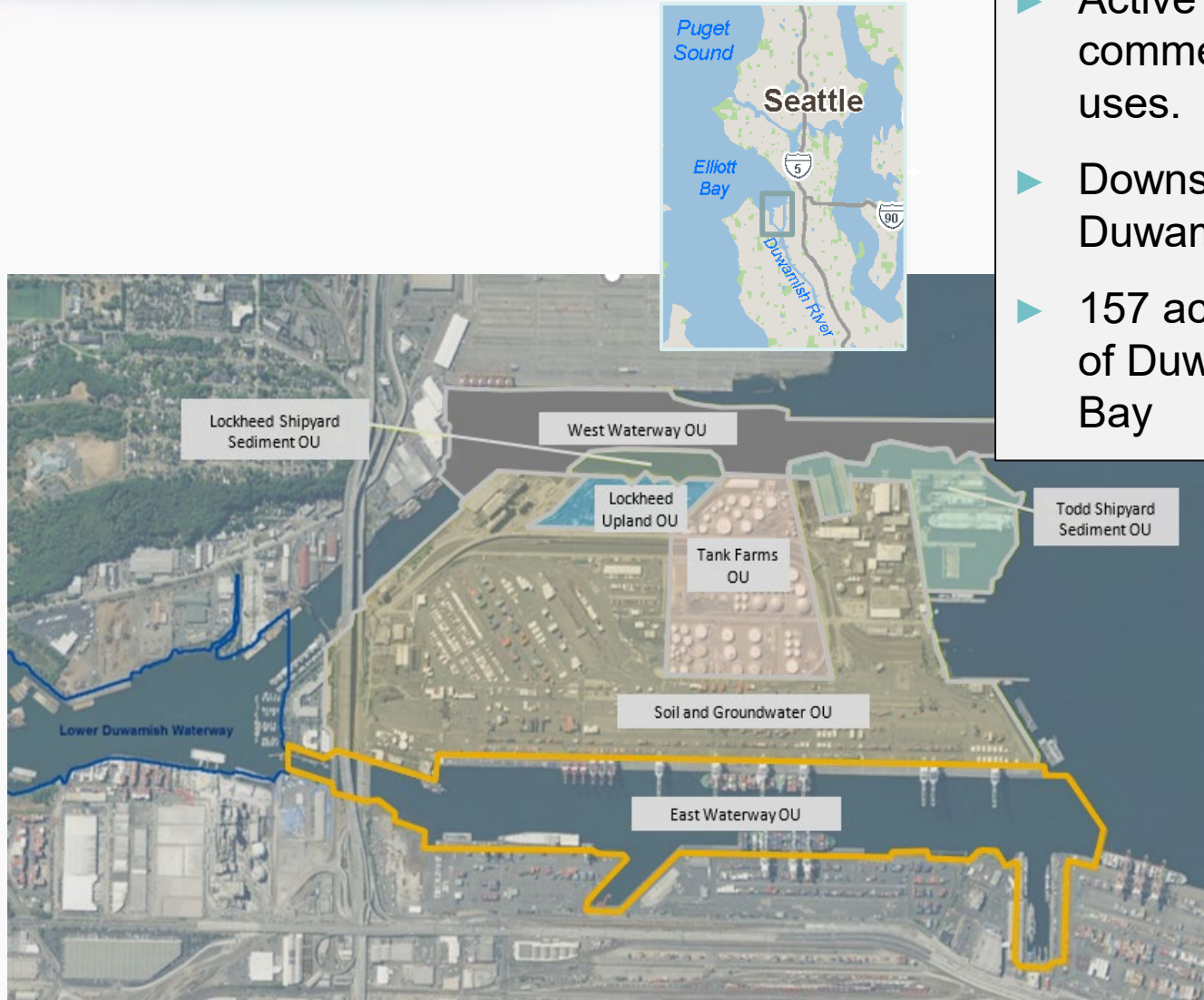


Harbor Island Superfund site, Seattle, Washington
Ravi Sanga, Project Manager



Site History

- ▶ East Waterway is an Operable Unit of the Harbor Island Superfund site.
- ▶ Active port with both commercial and industrial uses.
- ▶ Downstream of the Lower Duwamish Superfund site.
- ▶ 157 acre at the confluence of Duwamish River & Elliott Bay

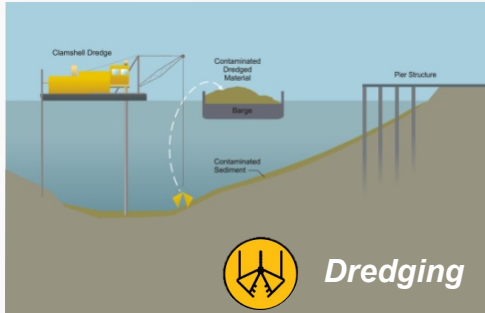


Contaminants of Concern

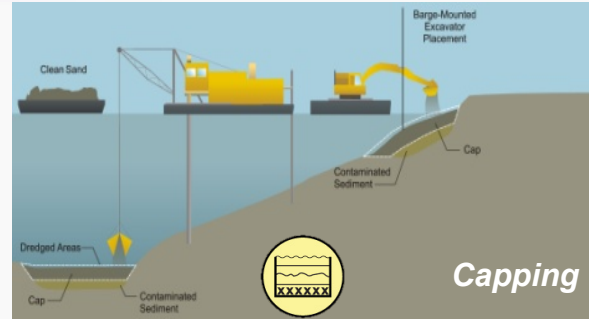


- ▶ Contaminants at East Waterway include PCBs, arsenic, PAHs, dioxins/furans, mercury, and tributyltin.
- ▶ Average depth of contamination is 3 feet; and up to 15 feet in two locations (Slip 27, Slip 36).
- ▶ Risk Assessment
 - ▶ The results of the human health risk assessment indicated that the highest risks to people are from eating resident fish and shellfish
 - ▶ Contaminant concentrations pose unacceptable risk to the environment.

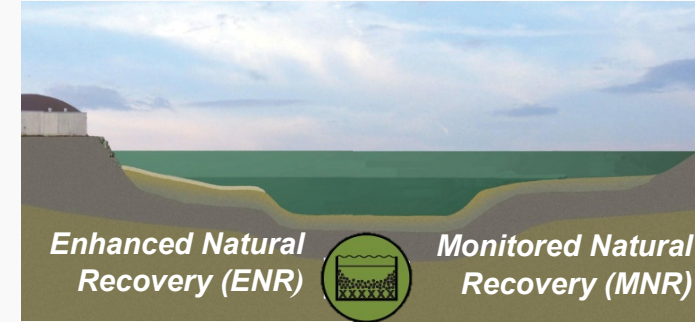
Technologies included in Alternatives considered in Feasibility Study



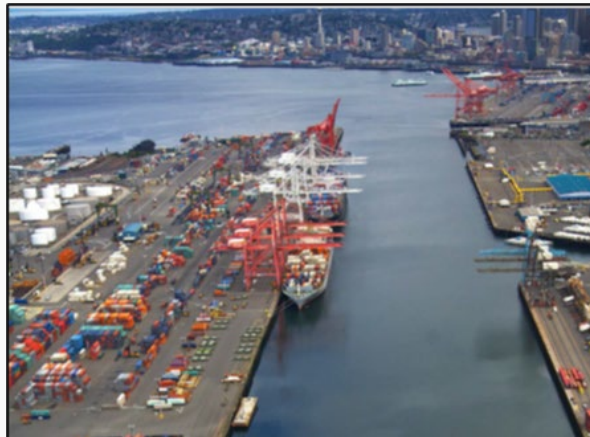
Removal



Containment

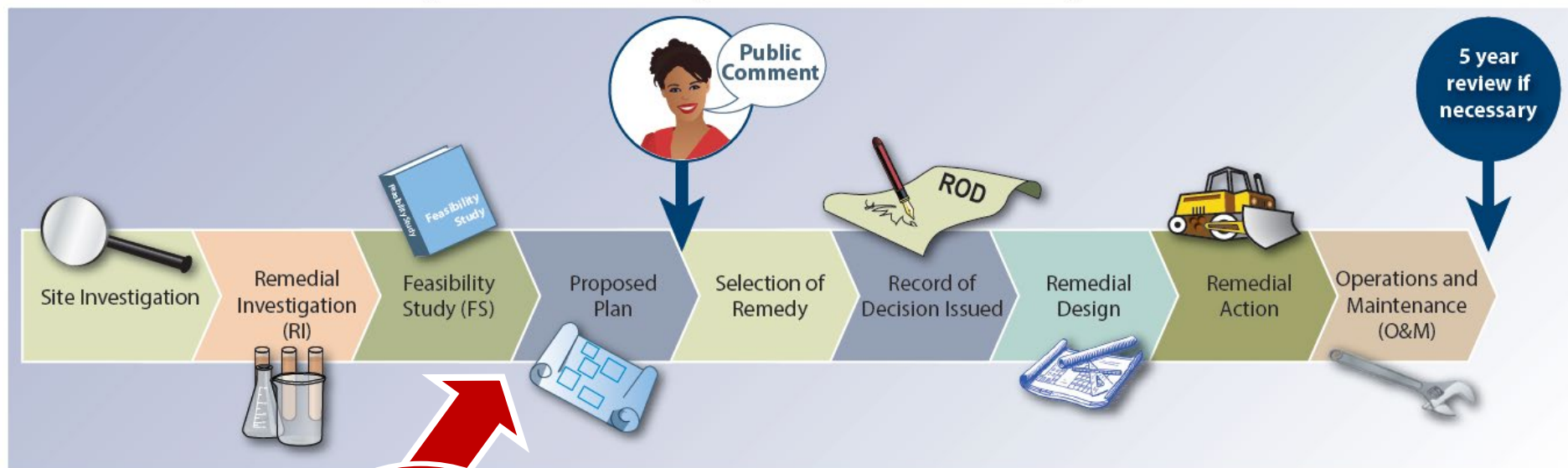


Natural Recovery



Amendments in some caps and sand covers

Steps in the Superfund Cleanup Process



**We
Are
Here**



Questions





Lower Duwamish Waterway Technical Updates



Lower Duwamish Waterway Technical Updates

- Scope and Schedule of the Middle Reach Remedial Design Agreement
- Phase 2 Fieldwork Summary
 - Phase 2 fieldwork conducted over the summer: sampling locations and results, when reports will be available, and how to access them
- Carbon Amendment Pilot – Year 3 Report
 - Summary of Carbon Amendment Pilot and Results
- Report on the Jorgeson Forge EE/CA (Engineering Evaluation/Cost Analysis) Comment Period
 - This comment period closed on Sept 27. EPA may be able to share initial information on the types and number of comments received.

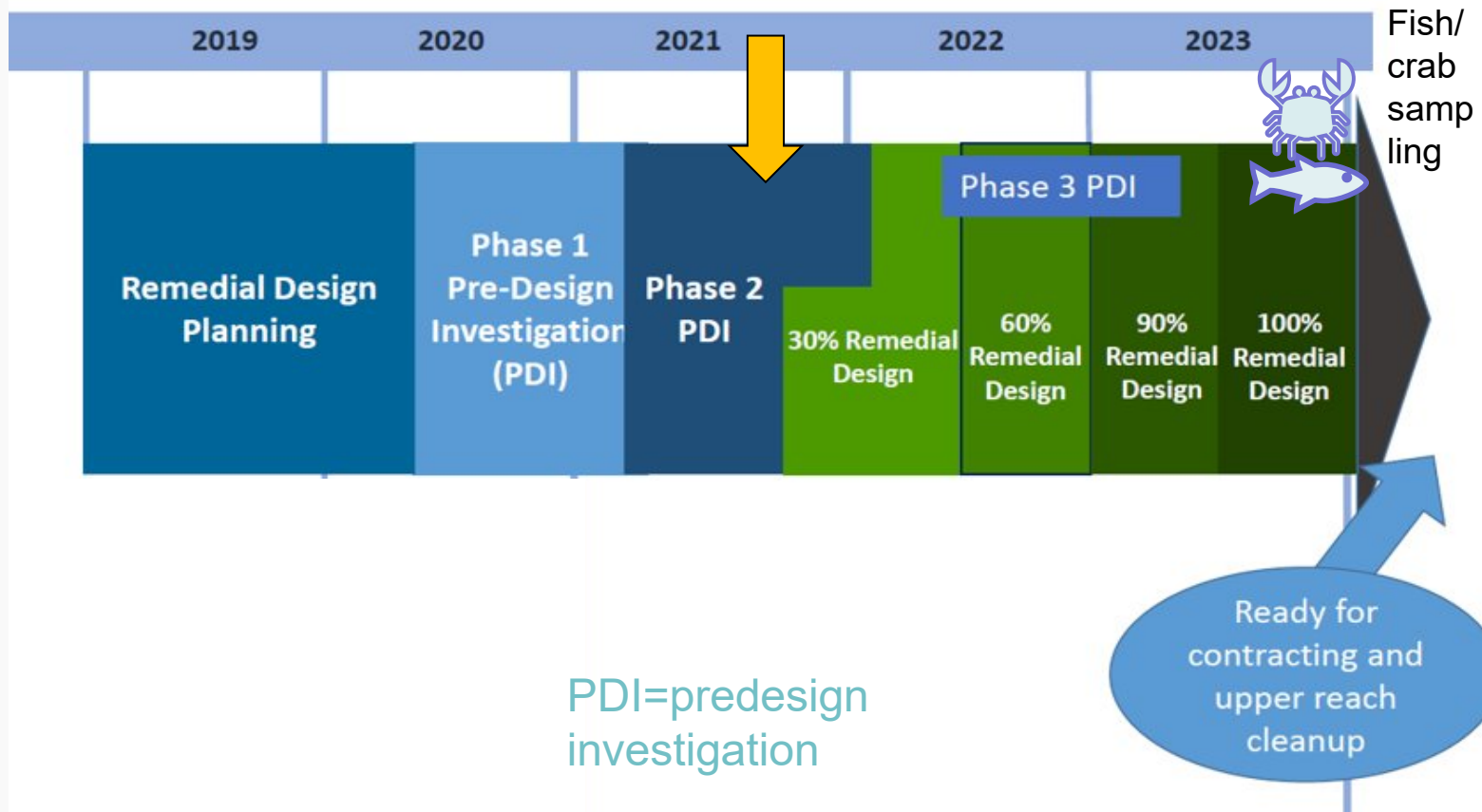


Scope and Schedule of the Middle Reach Remedial Design Agreement



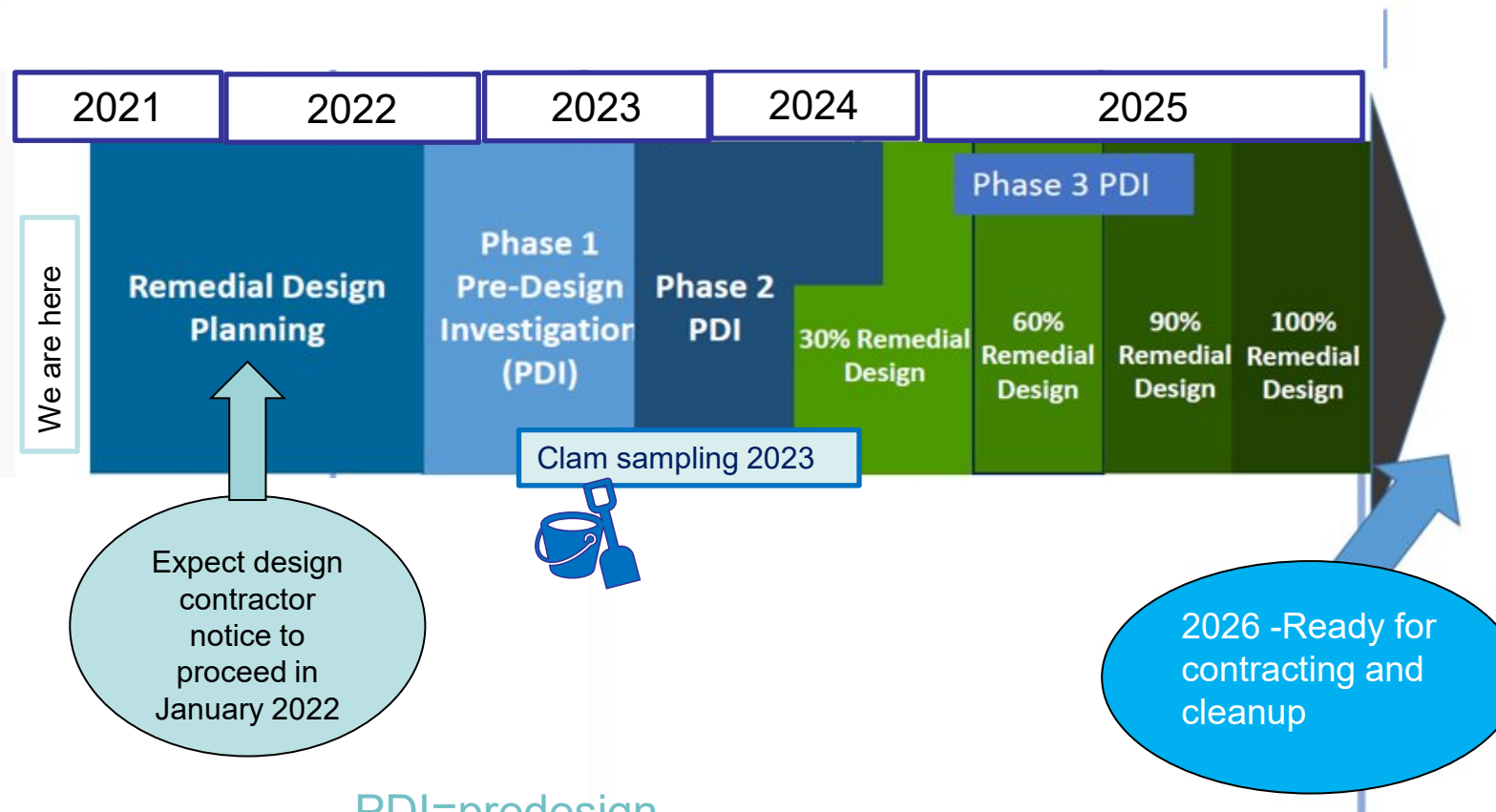


Upper Reach Remedial Design Schedule (may change)





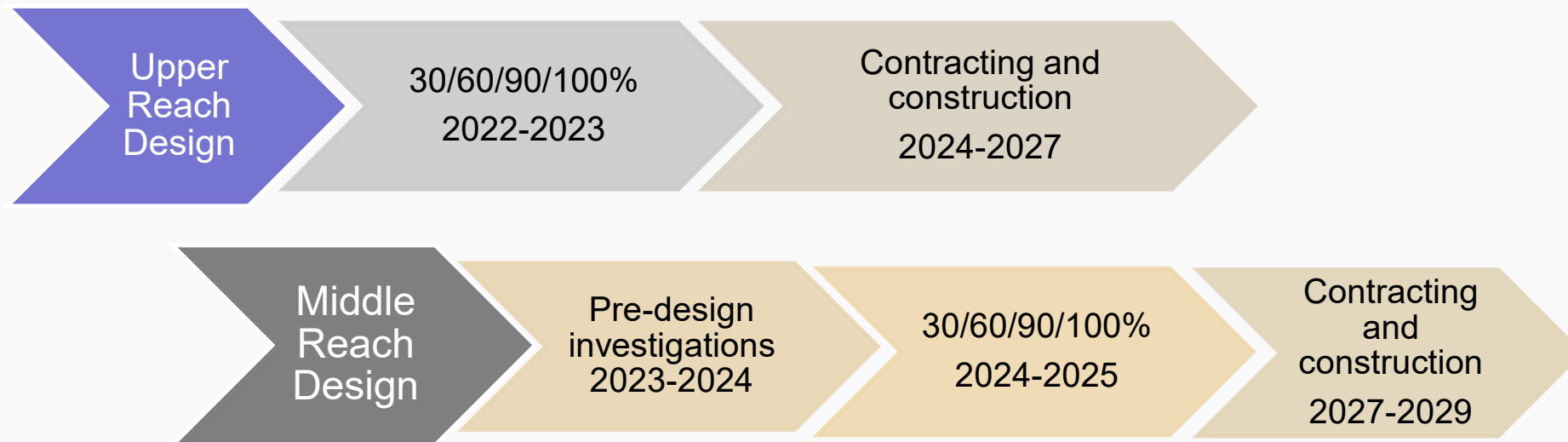
Middle Reach Remedial Design Schedule (may change)



PDI=pre-design investigation



Same steps, overlapping design schedules*



*will also coordinate with other work in/adjacent to waterway



Phase 2 Pre-Design Investigation 2021 Fieldwork Summary



Field work June 28 - August 10 (~7 weeks)

- Sediment – surface samples (three depths) and cores
 - 0-10 cm depth: 82
 - 0-45 cm depth: 43
 - 0-60 cm depth: 52
- Sediment core – 86 locations
- Geotechnical samples
- Land surveys of areas of bank





Most samples were collected from boats.

Some samples too shallow to access from boat were sampled at low tide.





Sampling boat and equipment



Sampling boats delivered samples to barge for processing.



Sample processing on barge

- Follow Health and Safety plan
- Set up clean surface, bowls, and spoons
- Prepare labels and forms
- Stir sampled sediments in bowl
- Scoop some into the labeled glass jar
- Put jar in Ziploc bag, on ice in cooler
- Ship coolers to lab at end of day

Processing cores

- Split core open
- Mark depth intervals
- Collect sediment from the required intervals
- Stir in bowl (and follow steps for sampling)



What comes next?

Expecting Tier 1 and 2 Phase II data to be **validated** by 12/25/21
assumes no lab delays.

Phase II data due to EPA January 4
due 10 days after validation

Phase II Data Evaluation Report (DER) is due 2/21/22
due 45 days after submittal of Phase II PDI data to EPA

Preliminary (30%) design expected 8/26/22
due 45 days after EPA approval of Phase II DER

Validated – quality assurance chemists review lab results to make sure they are usable (if not, the results are rejected).

Carbon Amendment Pilot – Year 3 Report

This study started before the Record of Decision (ROD). It will help EPA decide whether to add activated carbon (AC) to sand used for enhanced natural recovery (ENR) cleanup areas. PCBs stick to the carbon and become less bioavailable (less able to build up in fish, crabs, clams and mammals)

Year 3 Report summarizes three years of monitoring data, discusses whether the goals of the study were met, and what the study shows.

Study shows ENR was effective. Adding carbon did not make a significant difference.

Final report will be available on EPA's Lower Duwamish Waterway webpage.

Earle M. Jorgensen Forge (EMJ)

- Informational meeting (virtual) held Wednesday, August 25.
- Over 85 people attended the meeting to hear about options to complete the early action, described in an Engineering Evaluation/Cost Analysis.
- The public comment period ended on 9/27.
- EPA will consider comments, prepare a summary of comments and responses, and make a final decision.



Key Takeaways

- Upper reach design: Phase 2 pre-design field work is done
- Middle reach design: just starting, same process as upper reach
- Carbon amendment pilot: nearing completion
- EMJ engineering evaluation/cost analysis: Public comment ended 9/27



Other Site News and Updates

Brief updates from
Roundtable Members



Comments and Questions from Observers?



Thank you for
participating!

More questions? Contact:

Sophie Glass

914-420-9395

sglass@triangleassociates.com

Elly Hale

206-553-1215

hale.elly@epa.gov