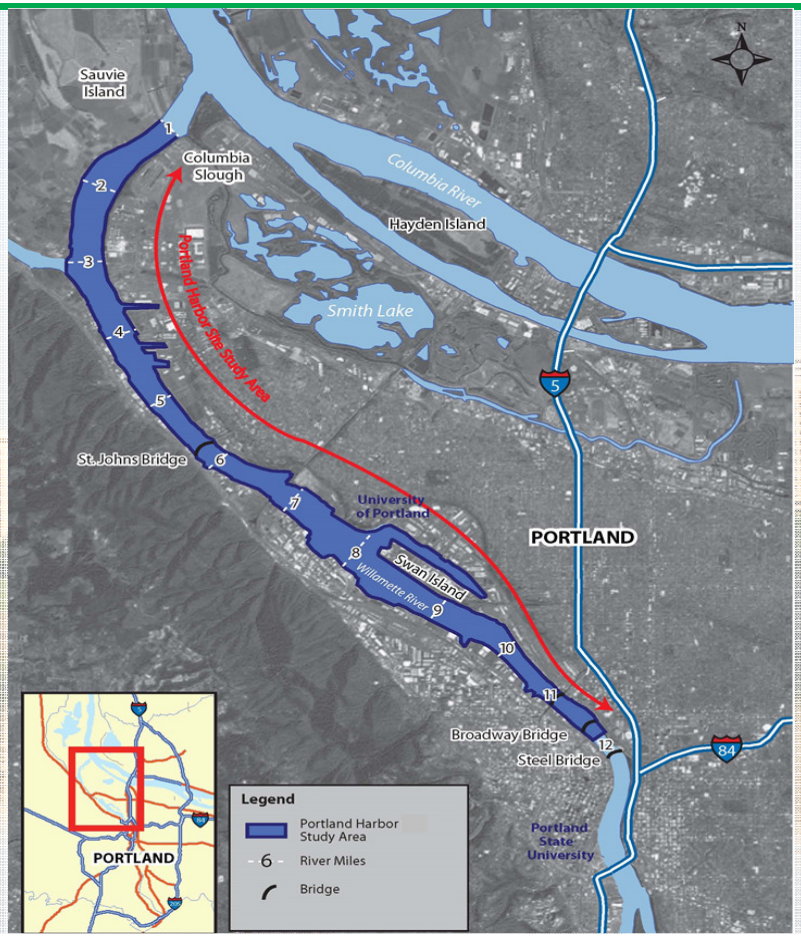
Portland Harbor Superfund Site

- Where is it?
- Superfund Process
- Site Information
- Process Moving Forward

Where is Portland Harbor?



- Industry
- Recreation (boating, swimming, camping)
- Fishing
- Shipping/Navigation
- Ecological habitat
- Tribal fishing and ceremonial practices
- Migratory corridor for salmon

Where is Portland Harbor in the Superfund Process?

We are here

*Estimated dates

2000 - - - - -> 2010 | 2011 | 2015 | 2016* | end of 2016*

There Is A Problem

Portland Harbor Listed as Superfund Site (2000)

Sampling, Analysis, Early Actions, Uplands Cleanup (2000-)

What and where are the risks?

Remedial Investigation (RI) and Risk Assessment

Human Health & Ecological Risk Assessments 2013

How could it be cleaned up?

Feasibility Study (FS)

EPA's Proposed Clean-up Plan

Proposal for formal public comment

•Tribal Consultations

•***Formal Public Comment Period***

Final Decision: How It Will Be Cleaned Up

EPA's Record of Decision (ROD)

Harbor Cleanup

What are the pollution issues?

- 65 contaminants of concern
  - Metals
  - Pesticides/Herbicides
  - Dioxins/Furans
  - PCBs
  - PAHs
- "Persistent organic pollutants"
  - not readily broken down in the environment
- Widespread vs. local contamination

What are the impacts to wildlife and fish?

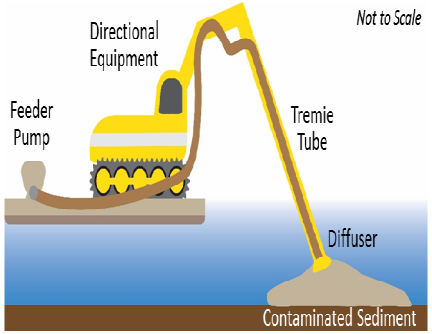
- Worms and bugs exposed to contaminants in river bottom
  - Survival, reproduction and growth
- Fish accumulate contaminants through food chain and exposure
- Birds and mammals feed on fish and bugs

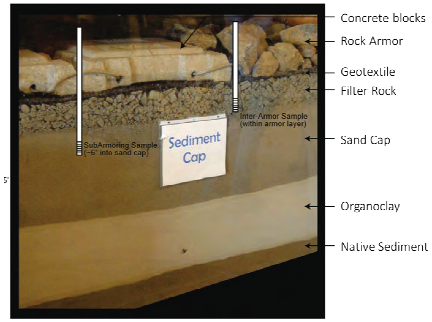
What are the risks to people?

- Mainly from eating contaminated fish
- Resident fish pose greatest risk
  - carp, bass, catfish
- Children and infants are most vulnerable

What are the cleanup methods?

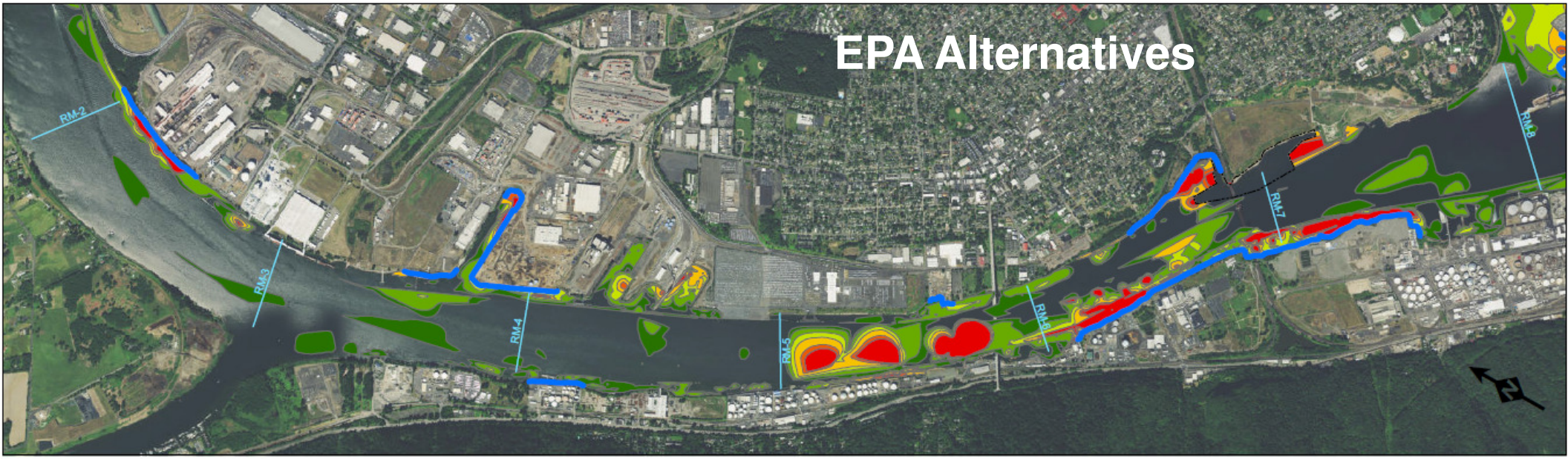
Dredging | **Capping** | **Treatment**

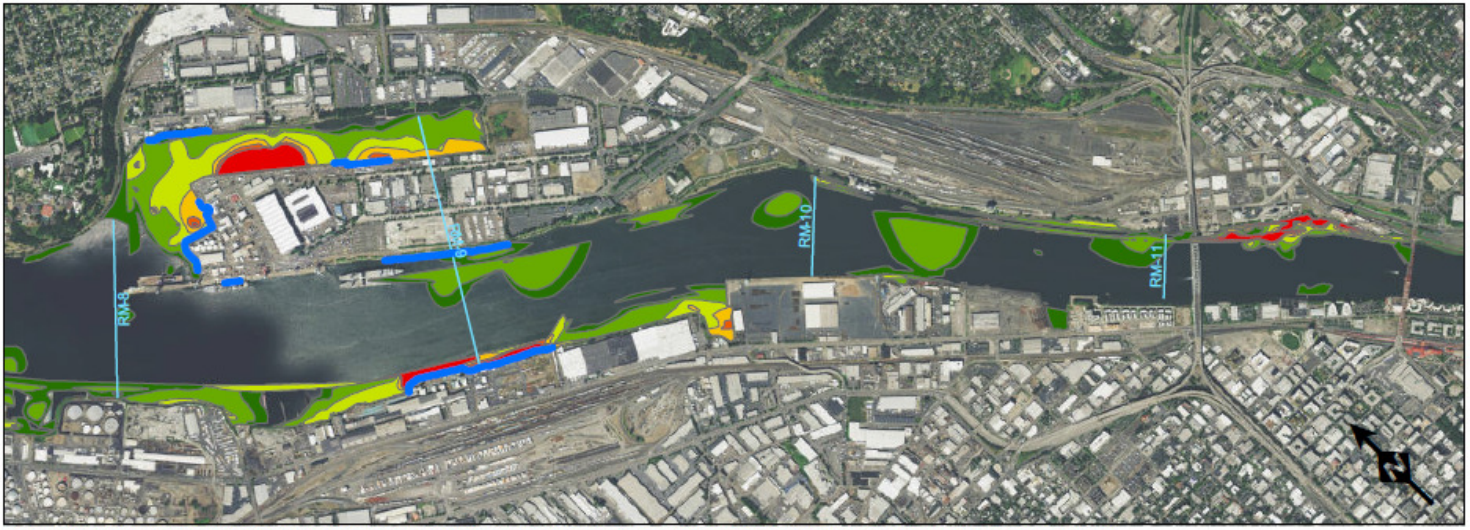




- **Dredging**
- **Capping**
- **In-situ Treatment**
- **MNR/EMNR**

EPA Alternatives





Legend

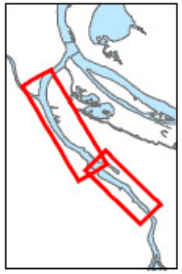
Site with Known Contaminated Riverbank

Alternative SMAs

- Alternative B
- Alternative C
- Alternative D
- Alternative E
- Alternative F
- Alternative G

0 1,000 2,000 3,000 4,000

Feet



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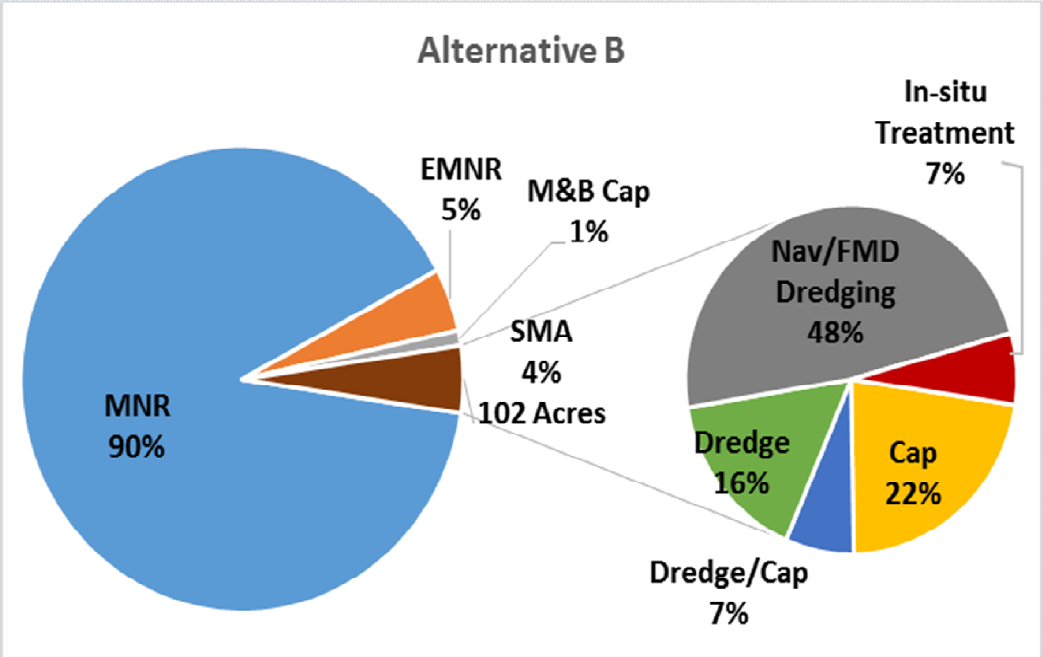
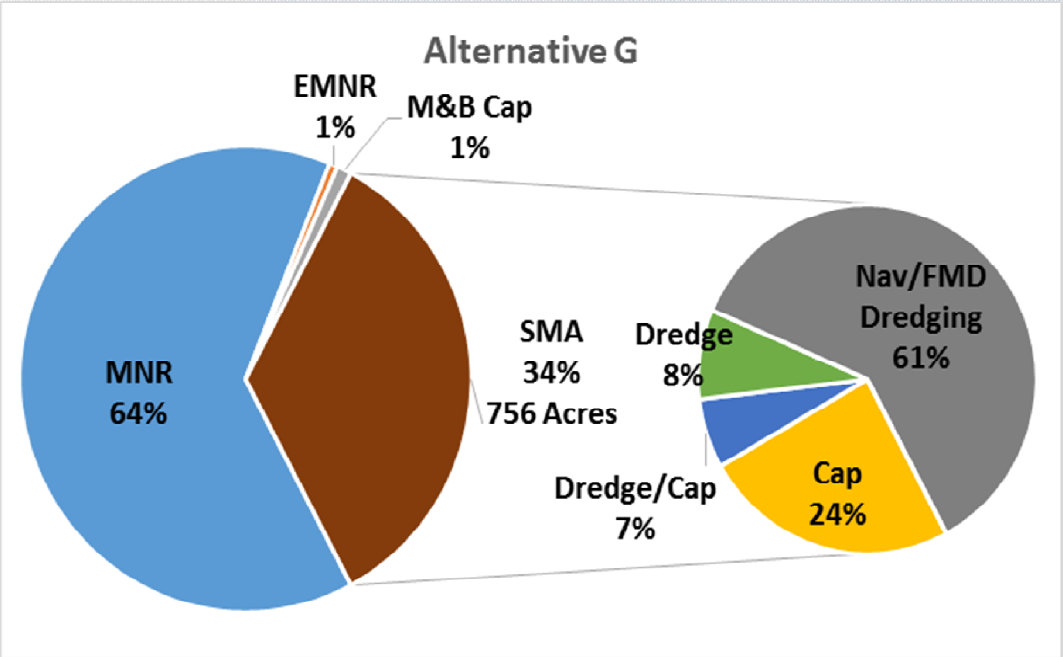
What are the Cleanup Options?





How and when should the community engage?

- **Participate in information sessions:**
  - ✓Feb 11th - 7pm, Matt Dishman Center
  - ✓Feb 18th - 6:30pm, Wilson HS Cafeteria
  - ✓March 3rd - 7pm Webinar – more info coming soon!
  - ✓March 17th - 7pm, SE Portland, Location TBD
  - ✓March 19th - 1pm, Matt Dishman Center
  - ✓March 26th - 12noon OMSI (OR Museum of Science and Industry)

- **April – Proposed Plan, Public review & comment**
  - ✓ Series of public meetings
  - ✓ Oral comments
  - ✓ Written comments
  - ✓ Email comments
  - ✓ Postal mail

EPA's Portland Harbor Web page: http://go.usa.gov/3Wf2B