Portland Harbor Update

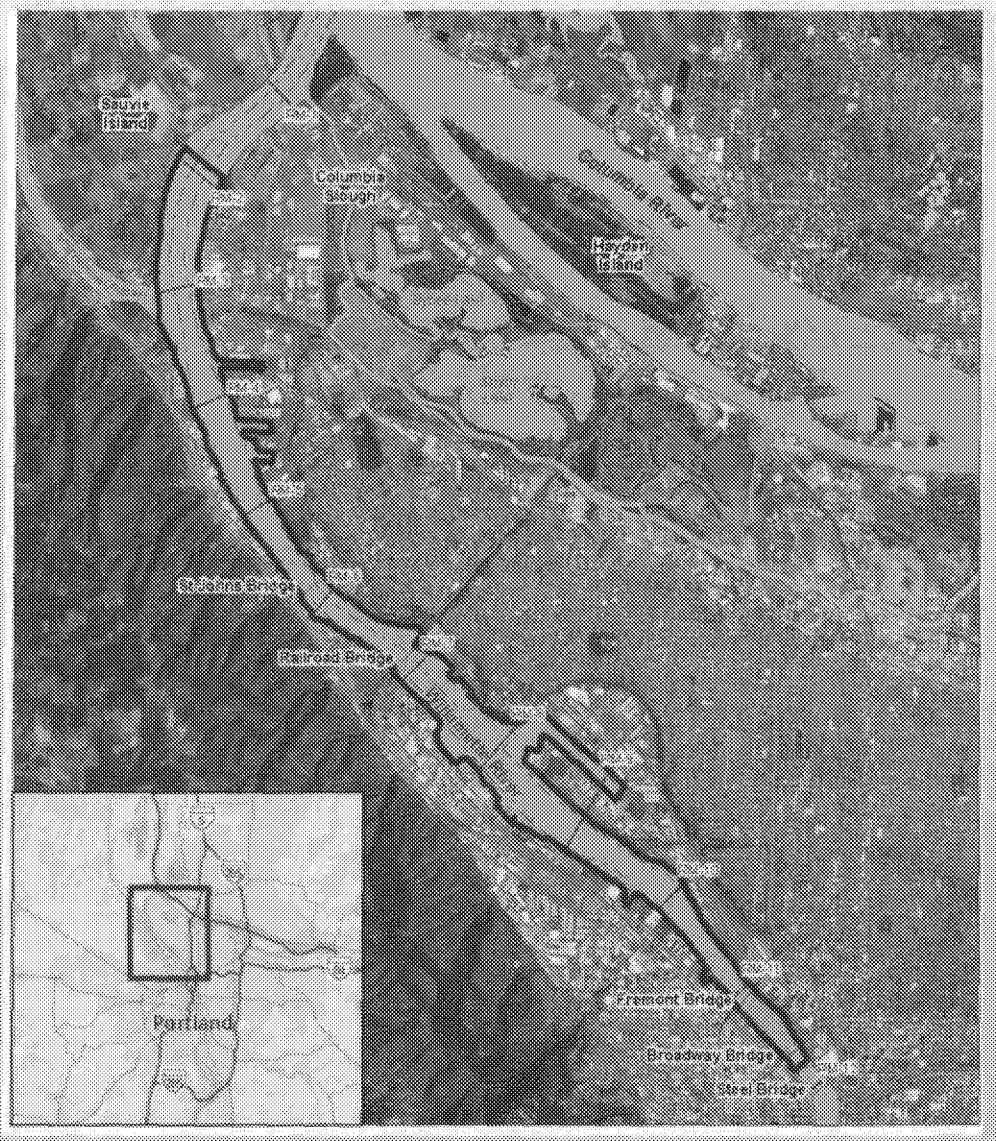
Presentation on behalf of the PCI Private Business Group*

February 2018

The Portland Harbor PCI Private Business Group is a group of businesses in and around the Portland Harbor Superfund Site which span a range of industries across different sectors of the economy. The PCI Private Business Group does not include the City of Portland, Port of Portland, State of Oregon, or the United States. The statements made and views contained in this presentation are those of the PCI Private Business Group and no statement or view expressed in this presentation is made on behalf of the identified public entities.

Portland Harbor Represents:

- Oregon's **largest** seaport
- Home to **30,000** direct jobs
- **$413 million** in state and local taxes (2015)
- Opportunities for **new** investments and job creation



Portland Harbor Superfund Site
Record of Decision (ROD)

- **The Portland Harbor Superfund Site (Site) was added to the National Priorities List in December 2000**
  - Contamination reflects 100 years of historical industrial, commercial, defense and municipal practices. EPA has identified over 150 PRPs.
  - RI/FS took 16 years and approximately $115 million dollars to complete.
- **EPA took over the FS in January 2016 and issued its ROD on January 6, 2017**
  - ROD includes dredging approx. 3,000,000 cubic yards, is estimated by EPA to cost $1.7 billion (undiscounted) with a construction duration of 13 years. More realistic cost estimated at $2.5 billion (undiscounted) and > 16 years.
  - Selected remedy represents a 40% increase in cost, 75% increase in dredge volume, and 90% increase in construction duration over EPA's Proposed Plan.
  - ROD relied on data that was over 10 years old and acknowledged the need to collect additional, current data

Recent Progress at the Site

Pre-Remedial Design Investigation Work ASAOC

- At the end of 2017, a group of PRPs reached agreement with EPA on a pre-remedial design investigation and baseline sampling plan.
- **PCI Private Business Group** endorses the Pre-Remedial Design Investigation (PDI) sampling plan and is contributing funding.

Early Action/Priority Sites

Other PRPs are also moving forward on design work for specific areas under individual agreements with the EPA:

- **Gasco/Siltronic**: Administrative Order in 2009 for remedial design; Remedial design is expected to take two to three years
- **River Mile 11 East**: Amendment to ASAOC executed January 11, 2018; Remedial design is expected to take two to three years
- **Terminal 4**: Negotiations to amend existing Administrative Order to include remedial design

Pre-Remedial Design Investigation (PDI) Work Program

Project Schedule

Represents New and Unprecedented Pace of Activity for Site

- Dec. 2017: ASAOC Executed
- Jan. 2018: 10 Project Plans Submitted to USEPA
- 1st Q 2018: Initiate Sampling in River
- YE 2018: Complete Field Investigation
- Jan. 2019: Submit Remedial Footprint Report
- May 2019: Submit PDI Evaluation Report
- Fall 2019: Complete Work

Pre-Remedial Design Investigation Work Program
Sampling Tasks & 2018 Field Schedule

Month 2018	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bathymetry Survey	X	X									
Surface Water Sampling		X				X				X	
Sediment Trap Deployment		X				X				X	
Sediment Grab Sampling			X	X	X						
Sediment Coring						X	X				
Fish Tissue Sampling							X	X			
Acoustic Fish Tracking			X	X	X	X	X	X	X	X	X+
Porewater Sampling						X	X				
Field Support Lab		X	X	X	X	X	X	X	X	X	X

Pre-Remedial Design Investigation Work ASAOC

Key Principles

- Defined Scope; Schedule Completion by Fall 2019; Estimated Cost $14 million
- Expedited and Fair Dispute Resolution Mechanism with Technical Expert Input
- No Limits on Use of the Data Collected
- Decision-Making Based on Current Data, Sound Science and Risk Management

Data Use Objectives

- Update existing site-wide data and refine the conceptual site model
- Contribute to development of baseline dataset for future long-term monitoring
- Assist in refining the scope/extent of the remedial actions including technology assignments consistent with ROD decision tree (Figure 28)
- Facilitate completion of the third-party non-binding allocation by PRPs
- Collect current data regarding upstream conditions and contaminant loading into the Site

Keys to Success

- Coordination/Cooperation with EPA Region and Program Staff
- Continued Headquarters Engagement and Stewardship to Achieve a Protective/Sustainable Remedy
- Use "New," Actionable Data to Refine the Scope/Extent of Remedial Actions and to Support Administrative Process
- Full Application of the Data Using Sound Science
- State, Local and Delegation Support
- Transparent Community Education/Outreach
- Fairly Distribute Costs

Appendix

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Overview of PDI Sampling Program

Sample Media	# of Stations	# of Samples	# of QC Samples	Full ROD COCs	Focused COCs	As and Mn
Surface Grabs – stratified random	428	428	44	X	--	X (n=12)
Surface Grabs - SMA targeted	238	238	24	--	X	--
Surface Grabs – D/U Reach	60	60	6	X	--	--
Subsurface Sediment	90	491	22	--	X	--
Surface Water	7	21	6	X	--	--
Sediment Traps	4	12	3	X (sediment COCs)	--	--
Fish Tissue (SMB)	135	135	--	X	--	--
Porewater	8	8	2	--	--	X