

### 1/13/10 Portland Harbor CAG Meeting

# State's Role in Cleaning Up the Willamette River: Upland Sites and Source Control

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http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/Index.htm



### Portland Harbor Agencies' Roles

#### Portland Harbor MOU Signed 2/01

- Identifies roles & responsibilities of EPA
   & DEQ
  - EPA Lead Agency overseeing in-water work
  - DEQ Lead Agency overseeing upland SC
- Establishes inter-governmental project team
  - EPA, DEQ, 6 tribal governments, & 3 NRT agencies



### DEQ Efforts in PH Source Control

- 17 cleanup sites in PH in 1998
- Currently >50 active cleanup sites in various stages of investigation &/or cleanup
- Goal of source control is to identify, evaluate & control upland sources of contamination threatening the river
- Continue to identify additional sites in area that may be sources of contamination



# Objective of PH Source Control

• Control upland sources posing unacceptable risk to in-water receptors.

• Prevent recontamination from uncontrolled upland sources



#### Portland Harbor Source Control

#### Achieving PH Source Control

• DEQ uses State Removal or Remedial authority to achieve source control

 Typically perform source control actions under Removal authority to meet PH ROD schedule



## Contaminant Transport Pathways

- Overland run-off & bank erosion
  - Soil to sediment
- Stormwater
  - Water & solids to river/sediment
- Groundwater
  - Dissolved & free phase to river/sediment



#### Portland Harbor Source Control

#### 3 types of Source Control Decisions

- 1) Is there a source & complete contaminant pathway to the river?
- 2) What source control measure is needed to control the source?
- 3) Has the source control measure adequately controlled the source?



# Joint Source Control Strategy

- Developed jointly by DEQ & EPA & finalized 12/05
- Establishes regulatory & technical framework for controlling on-going upland sources of contamination threatening the river
- http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm



#### Portland Harbor Source Control

Joint Source Control Strategy (JSCS)

- -JSCS is a screening-level risk assessment
- -Upland contaminant concentrations are compared to Screening Levels Values (SLVs) protective of the river
- -Sources exceeding SLVs are further considered for Source Control Actions



### Focus of Source Control

- Implement effective Source Control Measures (SCMs) at all High Priority sites by PH ROD (late-2012)
- Complete Source Control Evaluations (SCEs) at all Medium & Low Priority sites by 1/11
- Stormwater

# Portland Harbor Source Control Map

http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/docs/PortlandHarborMap.pdf





#### Source Control Status

#### • 16 High Priority Sites

- SCE completed or to be completed in 2010 at 14 sites
- Interim SCMs implemented at 12 sites

#### • 16 Medium Priority Sites

- SCE completed or to be completed in 2010 at 12 sites
- Interim SCMs implemented at 8 Medium Priority sites
- http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm



#### High Priority Contaminant Transport Pathways

- 1) Evraz Oregon Steel Mills
  - -Bank erosion
  - -Stormwater
- 2) <u>City Stormwater Outfalls</u>
  - -Stormwater
- 3) Premier Edible Oils
  - -Groundwater
- 4) **Burgard Industrial Park** 
  - -Stormwater

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#### High Priority Contaminant Transport Pathways

- 5) <u>Schnitzer Steel</u>
  - -Stormwater
- 6) Kinder Morgan Linnton
  - -Groundwater
- 7) Arco/BP Terminal
  - -Groundwater
- 8) Exxon/Mobil Terminal
  - -Groundwater



#### High Priority Contaminant Transport Pathways

#### 9) MarCom South

-Overland runoff

#### **10) Gasco**

- -Groundwater
- -Bank erosion

#### 11) Gasco (Siltronic)

-Groundwater

#### 12) Siltronic

-Groundwater

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#### High Priority Contaminant Transport Pathways

#### 13) Rhone Poulenc

-Groundwater

#### 14) Arkema

- -Groundwater
- -Bank erosion
- -Stormwater

#### 15) Willbridge

-Groundwater

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#### High Priority Contaminant Transport Pathways

#### 16) Gunderson

- -Groundwater
- -Stormwater
- -Bank erosion



# Source Control Challenges

- Stormwater
- Upriver source control
- Source control triggers & performance standards
- Loading
- DEQ staffing level