



# Portland Harbor Source Control

## Portland Harbor CAG Meeting

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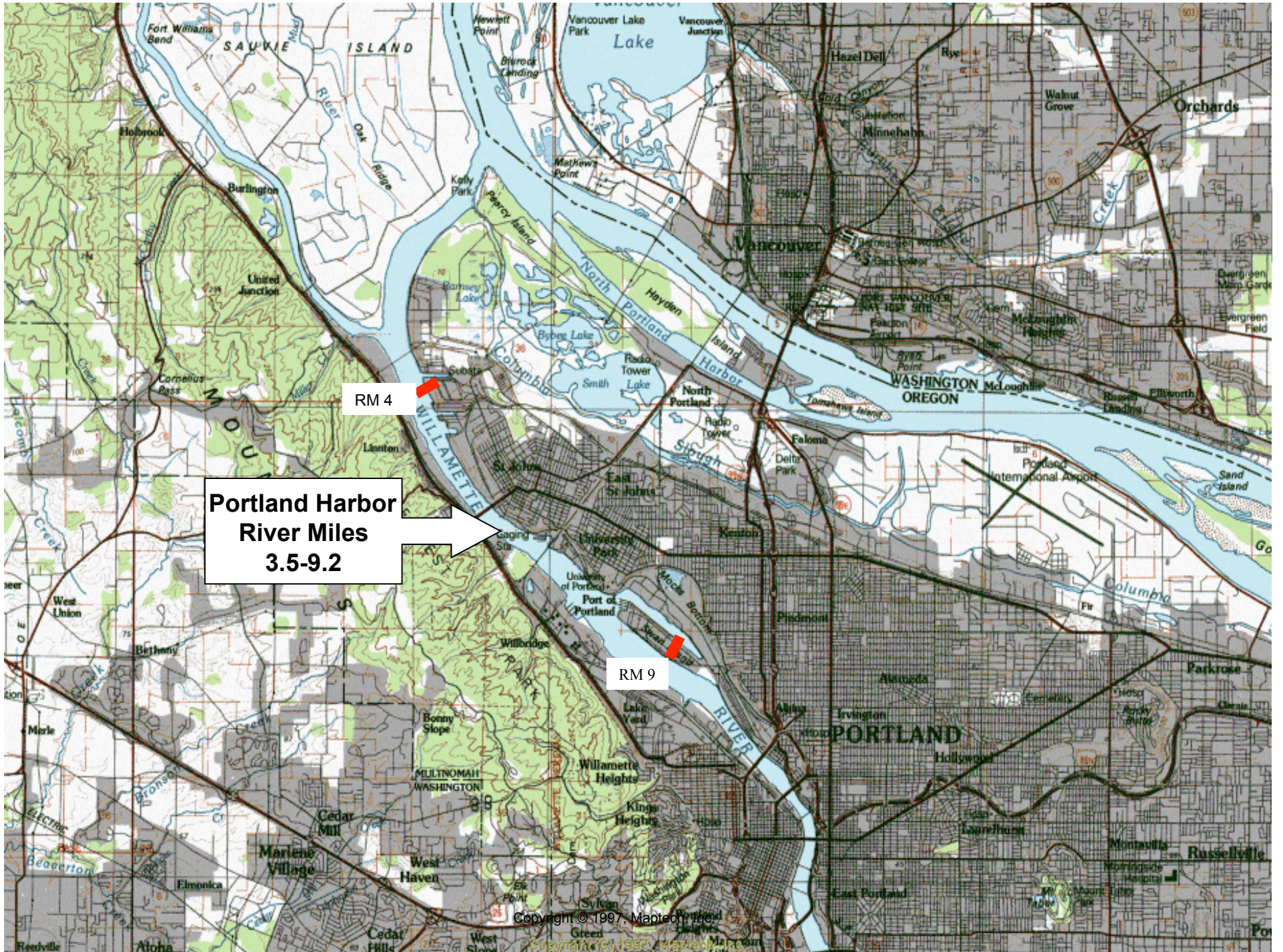
January 14, 2009

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



# Presentation Outline

- **Portland Harbor Agencies' Roles**
- **Goals & Objectives of Source Control**
- **Implementing Source Control**
- **Source Control Challenges**



Portland Harbor  
River Miles  
3.5-9.2

RM 4

RM 9



# 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's Role in PH Source Control

- **Identify upland sources of contamination threatening the river**
- **Oversee upland RP's source control work**
- **Coordinate upland source control work with PH in-water RI/FS**



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# Portland Harbor Source Control

- **In 1998, there were 17 cleanup sites in the Harbor.**
- **Now DEQ is working at over 50 active sites along the banks of the Harbor in various stages of investigation & cleanup.**



# Goal of PH Source Control

- **“Identify, evaluate, & control sources of contamination that may impact the Willamette River in a manner that is consistent with the objectives & schedule for the Portland Harbor RI/FS.”** (12/05, JSCS)



# Objective of PH Source Control

- **Control upland sources posing unacceptable risk to in-water receptors**
- **Prevent recontamination from uncontrolled upland sources**
- **Continue to identify additional sites that may be sources of contamination**



# 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**



## 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?**

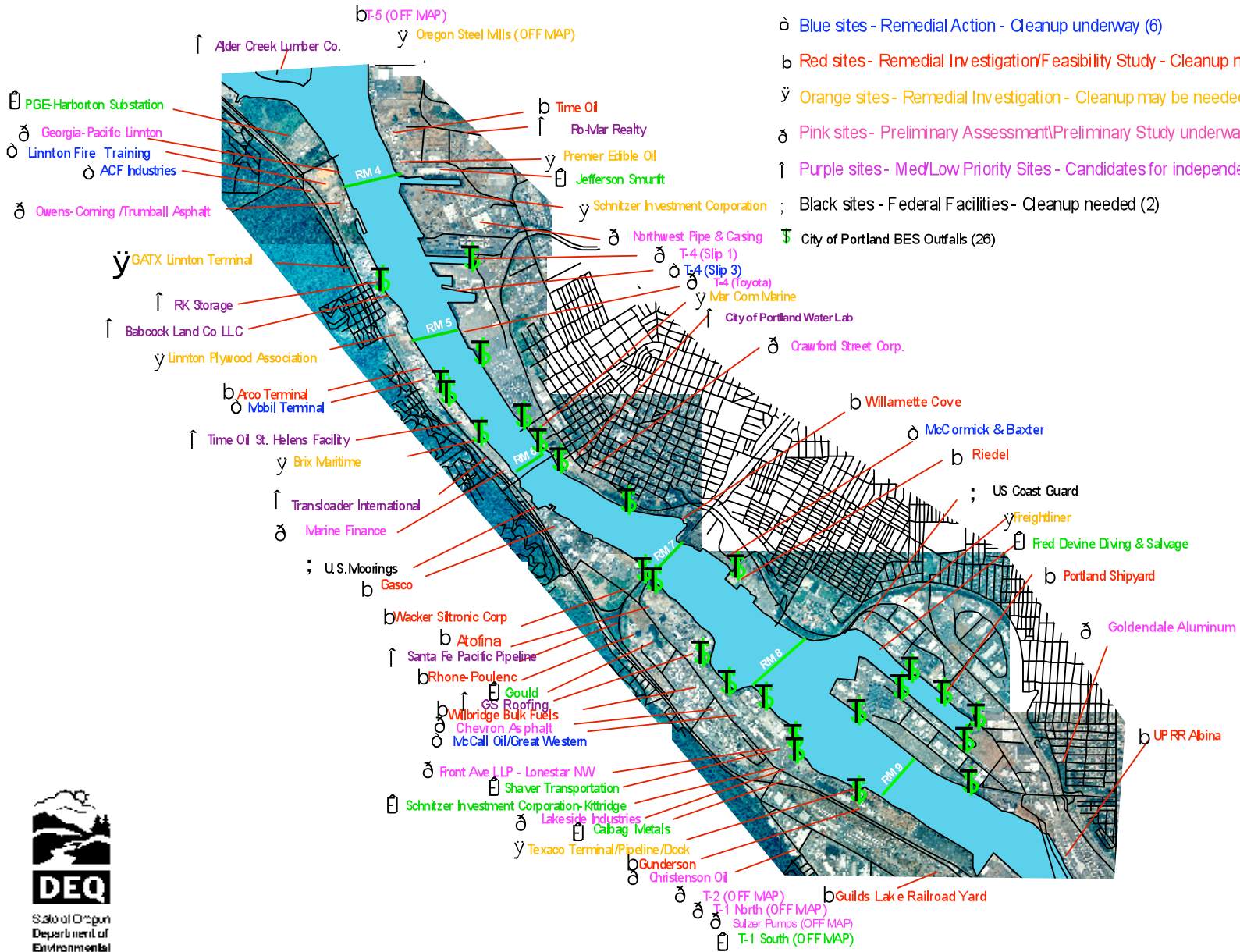


# EPA/partners' Review of Source Control Decisions

**DEQ submits all our draft source control decisions to EPA for their review & comment**

# Portland Harbor Upland Cleanup Sites

- ⊕ Green sites- No Further Action - Not a source of continuing contaminants to the river (8)
- ⊖ Blue sites - Remedial Action - Cleanup underway (6)
- ⊖ Red sites- Remedial Investigation/Feasibility Study - Cleanup needed (13)
- ⊖ Orange sites- Remedial Investigation - Cleanup may be needed (9)
- ⊖ Pink sites- Preliminary Assessment/Preliminary Study underway (17)
- ↑ Purple sites- Med/Low Priority Sites - Candidates for independent cleanup (9)
- ⊖ Black sites - Federal Facilities - Cleanup needed (2)
- ⊖ City of Portland BES Outfalls (26)



State of Oregon  
Department of  
Environmental  
Quality





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# Contaminant Transport Pathways

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



# 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>



# Joint Source Control Strategy

- 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**
- **Complete Source Control Evaluations (SCEs) at all Medium & Low Priority sites by 2010**
- **Stormwater**



# PH Milestone Reports

- **Submitted on bi-annual basis**
- **Provides status & schedule of DEQ's upland Source Control efforts**
- <http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm>



# High Priority Sites- SCMs

## **DEQ identified 8 sites as High Priority for Source Control Measures:**

- OSM
- Gasco
- Willbridge
- Siltronic (MGP)
- Exxon/Mobil
- Arkema
- Gunderson
- Siltronic (TCE)



# High Priority Sites- SCEs

## **DEQ identified 8 sites as Preliminary High Priority for Source Control Measures:**

- City OFs
- PEO
- Schnitzer Steel
- Kinder Morgan (GATX)
- Schnitzer Burgard-Arco/BP
- MarCom S
- Rhone Poulenc



# Source Control Status

- **16 High Priority Sites**
  - SCMs implemented at 3 High Priority sites & interim SCMs in-place at 11 High Priority sites
- **14 Medium Priority Sites**
  - SCEs implemented at 3 of the Medium Priority sites
  - Interim SCMs in-place at 7 Medium Priority sites



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# Source Control Challenges

- **Stormwater**
- **Upriver source control**
- **Source control triggers & performance standards**
- **Loading**
- **Schedule**