

## **APPENDIX A**

### **Attachment A-1: Figure Notes**

## Figure Notes

The figures provided with each Completion Summary are intended to orient readers to the basin and to present information regarding upland sites and source controls. Data displayed in the figures were obtained from the City of Portland (City), Bureau of Environmental Services (BES), unless otherwise noted. To minimize the need for footnotes in each figure, descriptions of the legend elements are provided below. Note that all elements may not be relevant to all basins.

### General



Tax Lot. Data displayed obtained from county tax information. Data available online at [www.portlandmaps.com](http://www.portlandmaps.com).



River Mile (RM)



Discharges to City Outfall. This shading (used in basin location inset figures) denotes areas within the Portland Harbor hydrologic boundary (hydroboundary) from which stormwater discharges to the river via a City outfall.



Portland Harbor Hydroboundary. This shading (used in basin location inset figures) denotes areas within the Portland Harbor hydroboundary that do not discharge to a City outfall.

Aerial Photos Unless otherwise noted, aerial photos reflect conditions in 2012.

### Land Use/Zoning

Land use/zoning information displayed in the figures primarily represents zoning obtained from the City of Portland, Bureau of Planning. With the exception of the Major Transportation category, zoning categories were compressed into the set of land use designations listed below. In areas where there were significant disparities between zoning and land use, refinements were made to more closely reflect actual land use (e.g., areas within Forest Park that are zoned residential). See Appendix B for a description of data sources used to create the land use/zoning map.



Heavy Industrial



Light Industrial



General Employment. This designation is a Portland zoning category that allows a range of employment opportunities, but emphasizes industrial and industrial-support uses.



Commercial



Residential




Parks and Open Space
















Major Transportation. There is no zoning classification for Major Transportation. Shaded areas represent state highways and freeways. Rights-of-way outside of the major transportation category are included in each respective land use.

## Conveyance System


-  Basin Boundary. Basin boundary lines delineate the current stormwater drainage area for a given outfall. Delineations were developed by BES for the Portland Harbor Program, based on available property records, conveyance system information, topography, and field observations. Basin boundaries are subject to change as new information becomes available.

Features that constitute the basin conveyance system are displayed by the following symbols.



Data are available online at [www.portlandmaps.com](http://www.portlandmaps.com)

-  Catch Basin
-  Storm Line
-  Culvert
-  Ditch
-  Channel
-  Water Quality Swale
-  Channel Planter
-  Lined Pipe. This symbol represents storm line segments in which cured-in-place pipe (CIPP) lining has been installed to reduce infiltration, improve structural integrity, and/or increase flow capacity.
-  Site Connection. This symbol represents the private line connecting to the City conveyance system. Site connections are not routinely mapped by the City, but in a few basins mapping was completed by the Portland Harbor Program during the course of the source investigation.
-  Sediment Removal Structure. This symbol represents vaults or other structures designed to capture and retain sediment to reduce suspended sediment loading to the outfall.
-  Water Quality Swale System. This symbol is used to indicate the location of water quality swales that cannot be depicted at the scale shown.
-  City Outfall. Outfalls to the Willamette River that are owned and maintained by the City.
-  Non-City Outfall. Outfalls to the Willamette River that are owned and maintained by other public or private entities.











## Upland Site Source Controls

-  DEQ ECSI Site. Symbol denotes sites included in the Oregon Department of Environmental Quality's (DEQ) Cleanup Program's Environmental Cleanup Site Information (ECSI) database of sites with known or potential contamination from hazardous substances.  
Source: <http://www.deq.state.or.us/lq/ECSI/ecsi.htm>

Status of source control evaluations (SCE) for DEQ ECSI sites (Source: Figure 1b, Milestone Report, Upland Source Control at the Portland Harbor Superfund Site, DEQ, January 2013):

-  SCE Implemented or Pending. Shading (or pattern, used in some cases for clarity of presentation) denotes site tax lots for which the DEQ Cleanup Program has determined that an SCE has been completed or is in progress. Sites coded with this shading are displayed as green, orange, or red in the DEQ map summarizing the status of stormwater source control evaluations in the Portland Harbor Study Area.
-  SCE Not Needed or Low Priority. Shading (or pattern, used in some cases for clarity of presentation) denotes site tax lots for which the DEQ Cleanup Program has determined that an

SCE is not needed or is a low priority for an SCE, or still needs to determine whether an SCE will be required. Sites coded with this shading are displayed as blue or yellow in the DEQ map summarizing the status of stormwater source control evaluations in the Portland Harbor Study Area.

-  NPDES Stormwater Permit. Symbol denotes sites in DEQ's Water Quality Program with current National Pollutant Discharge Elimination System (NPDES) permits. The U.S. Environmental Protection Agency (EPA) delegated permitting authority to DEQ, and the City administers portions of the NPDES program under an Intergovernmental Agreement with DEQ. NPDES permittees displayed include those issued general industrial and individual permits to discharge stormwater to surface water via stormwater conveyance systems.
-  Tax Lots with NPDES Stormwater Permit Coverage. Tax lots associated with the site holding the NPDES permit are denoted with this outline.
-  NPDES No Exposure Certifications. Sites with current NPDES No Exposure Certifications (NEC) are identified with this symbol. Sites that are subject to NPDES regulations because of the nature of industrial operations, but which meet specific criteria relating to exposure of industrial operations to stormwater, can qualify for an NPDES NEC.
-  Tax Lots with NPDES NEC Coverage. Pattern denotes the tax lots associated with the site holding the NEC.
-  >50% of Site Area Redeveloped Under City SWMM. The City's Stormwater Management Manual (SWMM) was adopted in 1999. The requirements defined in the manual apply to all development and redevelopment projects on both private and public property and can include stormwater quantity and quality controls, and/or eliminating industrial activity exposure to stormwater. For sites designated with this pattern, more than 50% of the facility area *within the basin* has been redeveloped or developed in accordance with SWMM requirements. Sources: BES and the City's Bureau of Development Services (BDS).
-  Tax Lots for which a City Discharge Authorization, or Stormwater Control Measure (SWCM), has been issued under City Code authority. Examples include requirements to develop and implement a Stormwater Pollution Control Plan or Accidental Spill Prevention Plan.
-  Site Inspection - BES Industrial Stormwater Program. This symbol indicates that the BES Industrial Stormwater Program has conducted at least one inspection at a site to identify potential industrial exposures to stormwater. Where multiple symbols are displayed on a given tax lot, individual dots reflect inspections of different historical operators at the site and/or different current site operations (i.e., multiple tenants on a given tax lot are inspected independently).
-  Stormwater Treatment Facility. Site stormwater treatment facilities can include vegetated swales and planters, detention ponds, infiltration trenches and basins, oil/water separators, treatment systems, sedimentation manholes, sand filters, drywells, ecoroofs, stormwater harvesting, pervious pavement, and/or other stormwater treatment methods. This symbol indicates the location where a treatment facility has been implemented at a site. As shown in the figure, some sites may have more than one treatment facility. Sources: BES and BDS.
-  Offsite Stormwater Treatment. Symbol indicates sites that redeveloped under the SWMM, but that installed stormwater treatment offsite (i.e., in the shared municipal stormwater conveyance system) rather than onsite, to meet SWMM requirements.
-  Ecoroof. Symbol denotes locations where the BES Sustainable Stormwater Program has a record of an ecoroof being present.