Creative Solutions for Stormwater Management at Marine Terminals

By
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for
American Association of Port Authorities
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Our Region, Our Mission -

“To enhance the region’s economy and quality of life by providing efficient cargo and air passenger access to national and global markets.”
Port Properties

- Troutdale Reynolds Industrial Park
- Portland International Airport
- West Hayden Island
- Rivergate Industrial District
- Troutdale Airport
- Gresham Vista Business Park
- Swan Island
- Hillsboro Airport
- Terminal 2
- Terminal 4
- Terminal 6

Columbia River
Willamette River
Environmental Constraints

- NPDES Permits:
  - MS4
  - Industrial
- ESA
- Superfund
- Wetlands
- Green Ways
Terminal 5 – Stormwater Infiltration

- Columbia Grain
T5 Stormwater Infiltration
T5-Stormwater Infiltration
T5- Stormwater Infiltration

2014/09/10
T5- Stormwater Infiltration -West
T5 – Stormwater Infiltration
T5- Stormwater Infiltration
Terminal 6 – Porous Pavement
T6 - Porous Pavement
T-6 Porous Pavement

- Designed by – Century West, Green Works and Cahill Associates
T6 - Porous Pavement
T6 – Porous Pavement

- Adaptive management during construction.
- Compaction, compaction, but not too much compaction.
And breath…