

Presented to the U.S. - Taiwan Sustainability Symposium

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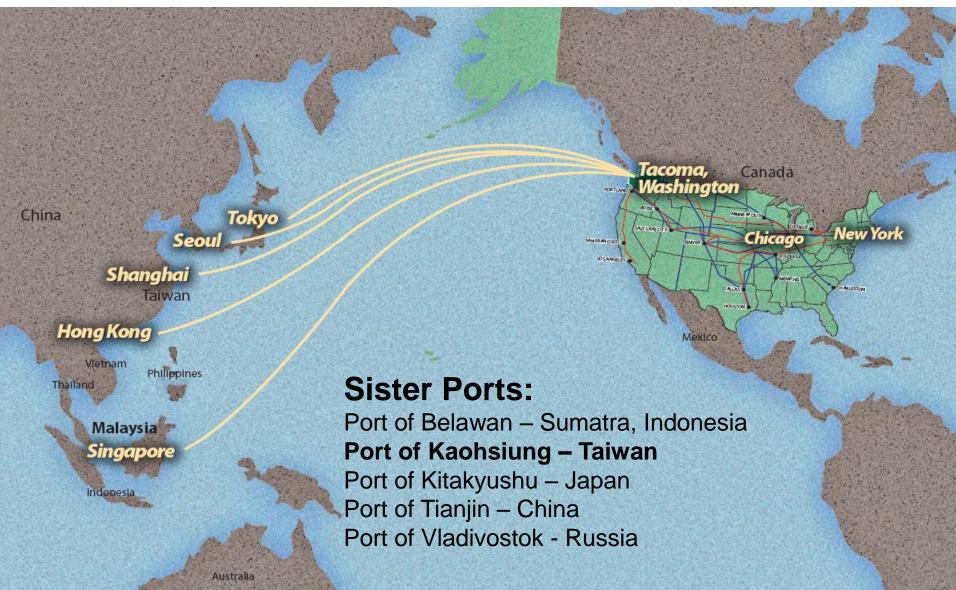
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People. Partnership. Performance.

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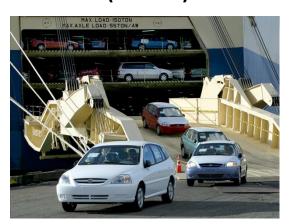


2011 Cargo Activity





Breakbulk = 154,378 Short Tons (+68.2%)



Autos = 162,434 Units (+34.2%)



Rail Lifts = 338,958 (+0.3%)

Total Tonnage = 17,270,252 ST (+4.5%)



Logs = 103,781,800 Board Feet (+48.4%)



Containers = 1,488,799 TEUs (+2.3%)



Grain = 5,930,022 Short Tons (-3.6%)

Source: Internal Port Statistics

Carrier Services









Evergreen Line



Wallenius Wilhelmsen Line

Scheduled Carrier Services

International Container Carriers

- Evergreen Line
- Yang Ming Line
- Hanjin Shipping Co
- Hamburg Sued
- Hapag-Lloyd
- Hyundai Merchant Marine
- "K" Line

- Mitsui OSK Line
- NYK Line
- ♦ OOCL
- US Lines*
- COSCO
- ❖ ZIM

* From August, 2012

Domestic Carriers

- Horizon Lines
- Totem Ocean Trailer Express

Breakbulk Carriers

- World Logistics
- Wallenius Wilhelmsen Line

Sustainable Habitat Stewardship



Three-Pronged Approach to Sustainable Stewardship:

- **≻**Economic
- **≻**Social
- >Environmental

Objectives:

- ✓ Understand core mission:
 - Preserve working waterfront, plan for growth, economic engine, waterfront land as a resource, grow domestic/international trade.



- ✓ Public outreach, engagement, and input:
 - Civic / Government / Business community / Labor / Tenants / Maritime Business / Non Government Organizations / Neighbors.
- ✓ Create habitat strategy:
 - Location (buffers, other habitat, flood storage), partnerships, largescale/expandable, focus on endangered species (Salmon), cost-effective, high return on investment and ecological functions and plan for public access.

Strategic Planning - Public Outreach



Initial Public Engagement

Strategy: Reach out broadly to other stakeholders and the public

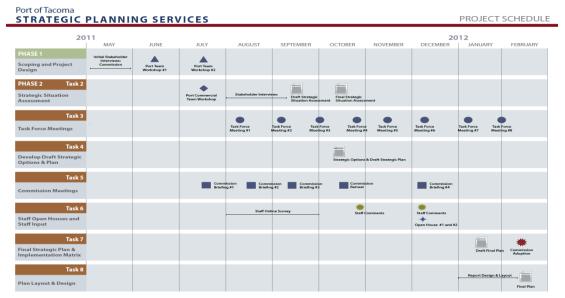
- ➤ Web pages with project information and "follow along" content
- ➤Online surveys
- ➤ Oversized postcards for handouts and mailings
- ➤ Open House Discussions
- ➤ Public Meetings

Three-Pronged Approach to Engagement:

- >Stakeholders
- **≻**Public
- ➤ Staff

Stakeholder Outreach:

- ➤ Civic / government / business community
- **≻**Labor
- ➤ Tenant / maritime business



Strategic Planning 2012-2022



Delivery prosperity by connecting customers, cargo and community with the world, Goals 1-6:

- Goal 1 Enhance the Port's Competitive Position.
- Goal 2 Provide Reliable & Efficient Regional & Local Infrastructure Connections.
- Goal 3 Improve the Port's Financial Performance.
- Goal 4 Increase Organizational Capabilities.
- Goal 5 Advance Environmental Stewardship.
- Goal 6 Strengthen The Port's Community Connections.
- ✓ Coordinated Outreach = Informed and Supportive Public



Goal 5: Advance Environmental Stewardship



- A. Identify and Address Environmental Issues in Advance of Planned Development
 - 1. Implement Clean-up actions on priority contaminated properties to support the Port's business opportunities
 - 2. <u>Implement a sustainable habitat mitigation strategy</u>
- B. Partner to Find Innovative Solutions to our Customers' Environmental Challenges
 - 1. Identify and develop maritime industrial stormwater treatment best management practices
 - 2. Develop a maritime industrial-focused Environmental Stewardship Sustainability Program
- C. Continuously Improve Operational Efficiency and Emission Reductions
 - Continue to implement the Northwest Ports Clean Air Strategy
 - Transit to the latest generation of efficient systems to save energy costs
 - 3. Promote cost effective, renewable energy use



Sustainable - Habitat Mitigation Strategy



- Preserve and enhance Tacoma's maritime industrial working waterfront.
 - Provide natural buffers between the Port and our neighbors.
- ☐ Be cost-effective by:
 - Understanding needs and solutions in advance and consolidate mitigation opportunities.
 - Considering opportunities to streamline permitting and project development.
 - Look for opportunities to:
 - maximize ecological and financial return on investment;
 - partner with other organizations through the community to leverage combined resources and reduce costs:
 - increase mitigation effectiveness and have single efforts serve multiple needs;
 - leverage natural buffers;
 - leverage public access needs.
- Maximize habitat value through a coordinated/planned approach.
- ☐ Provide a basis for decision-makers to determine when offsite, just in time and/or advance mitigation is preferred.

Sustainable - Habitat Mitigation Objectives



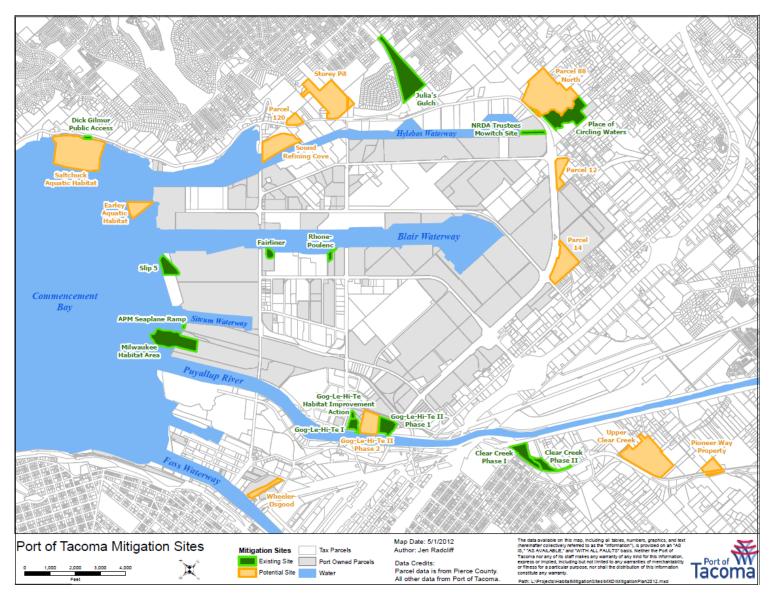
- Develop large-scale, highly ecologically functioning mitigation sites.
- ✓ Provide natural buffers between Port operations and our neighbors.
- ✓ Provide habitat for Endangered Species Act (ESA) salmon species, Essential Fish Habitat (EFH) for species of concern, migratory and shoreline bird species, public access and flood control.
- Build cost effective, sustainable and expandable habitat sites that meet multiple regulatory obligations, seek partnerships.
- Develop sound mitigation techniques based on ecological processes and best available science that promotes long-term habitat success.
- ✓ Strategically locate habitat restoration projects in areas that won't jeopardize the working waterfront expansion opportunities.





Existing Habitat Sites:





Existing Habitat Site:

Milwaukee Waterway





- Milwaukee Waterway Before
- Confined Disposal Facility
 - Sitcum/Blair/Milwaukee Waterway Sediments Clean Up
 - Metals
 - Polycyclic aromatic hydrocarbon (PAHs)
 - Polychlorinated biphenyl (PCBs)
 - Created 30 acres of marine terminal space
 - Enhance existing operations

- ✓ Built in 1995
- 21 acres of intertidal estuarine habitat
- Mitigation for Sitcum/Blair/Milwaukee Waterway remediation
 - Endangered Salmon habitat
 - Surf smelt spawning habitat
 - Shorebirds and waterfowl habitat
 - Wind/wave attenuation



Milwaukee Waterway After

Existing Habitat Site:

Place of Circling Waters





Place of Circling Waters Before (2010)



Place of Circling Waters After (2011)





- √ \$13.2 Million total project cost
 - \$100,000 public access costs
- 30 acres of intertidal riverine and forested wetland habitat
 - Salmon habitat
- √ 2.7 acres of advanced mitigation
- ✓ Public access
 - ✓ Wildlife viewing
- ✓ Neighborhood buffer
- Adjacent to other habitat sites
- √ Flood storage
- Native American participation

Preservation and Public Access



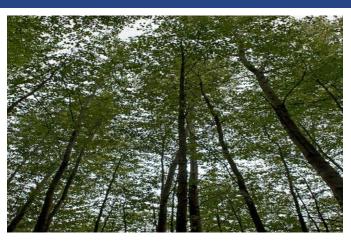




Dick Gilmur Public Access and Kayak Launch



Open Space



Orting Habitat Preservation



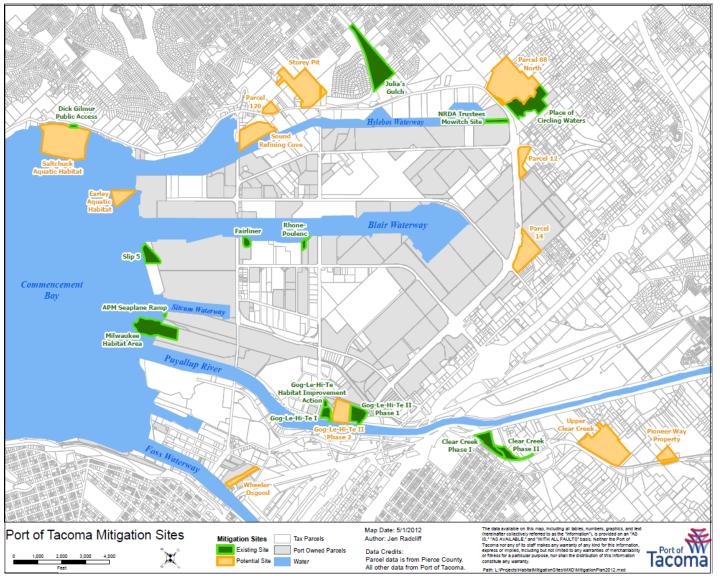
Public Access

Strategy:

- ✓ Location
 - Preserve working waterfront
- ✓ Neighborhood buffer
- ✓ Community needs
- Public access types:
 - Active/Passive
 - Wildlife Viewing
 - Boating
 - Fishing

Future Habitat Site:





Strategy:

- ✓ Location
 - Preserve working waterfront
- ✓ Salmon habitat
- Neighborhood buffer
- Public access
 - Active/Passive
 - Wildlife Viewing
 - Boating
 - Fishing
- √ Flood storage
- ✓ Cost effective
 - Return on investment

Draft Future Habitat Concepts Marine View Drive Neighborhood Update







- 1 Macro-algal or eel grass bed
- 2 Intertidal berm
- 3 Intertidal spit, forms embayment
- 4 Woody debris, both existing and proposed
- 5 Low bluff habitat area
- 6 Existing vegetation areas remain and are enhanced by new native vegetation
- 7 Coarse substrate added, forage fish spawning
- 8 Existing informal parking area to remain
- 9 New shoreline access
- 10 Gilmur Kayak Launch
- 1 Gilmur Kayak Launch parking area
- 12 Public picnic area
- 13 Interpretive element
- 14 Approximate location of property not owned by the Port of Tacoma

Draft Future Habitat Concepts Marine View Drive Neighborhood Update



- ✓ High/low bank beach environment
- ✓ Feeder bluff sedimentation
- ✓ Large woody debris
- ✓ Public access/use
- ✓ Fish forage habitat
- ✓ Location

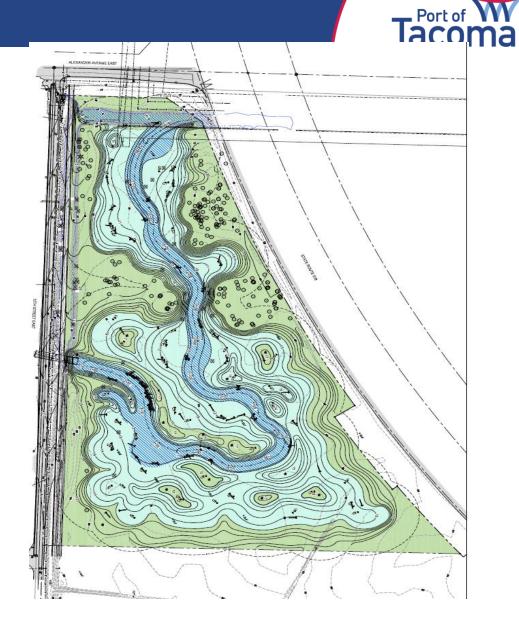


Future Habitat Site:

Wapato Creek (Parcel 14)



- ✓ Stream enhancement
- ✓ Culvert Upgrade tidal influence
- ✓ Forested wetland
- ✓ Public Access
- √ Fish Forage
- ✓ Location
- ✓ Flood Storage



Sustainable Habitat Stewardship



Three-Pronged Approach to Sustainable Stewardship:

> Economic - Social - Environmental

Objectives:

- ✓ Understand core mission
- ✓ Public outreach, engagement, and input
- ✓ Take action



Public Participation

Thank you

Public Access





Core Mission