

Duwamish River Habitat Restoration Inventory

Can you
see it?

Duw-1 (Tier1) - Expanding & enhancing the Duwamish estuary, particularly vegetated shallow subtidal & intertidal habitats and brackish marshes, by restoring dredged, armored, & filled areas... +

Duw-4 (Tier2) – Protecting, creating, & restoring habitat that provides refugia (off channels), & habitat complexity (pools) for juvenile salmon... =

will enhance habitat quantity & quality, and lead to greater juvenile salmon residence times, greater growth, & higher survival

Where's the
habitat?



Presenter: Katherine Lynch, SPU
Dhira Brown, People for Puget Sound

Look closer...

North Winds Weir



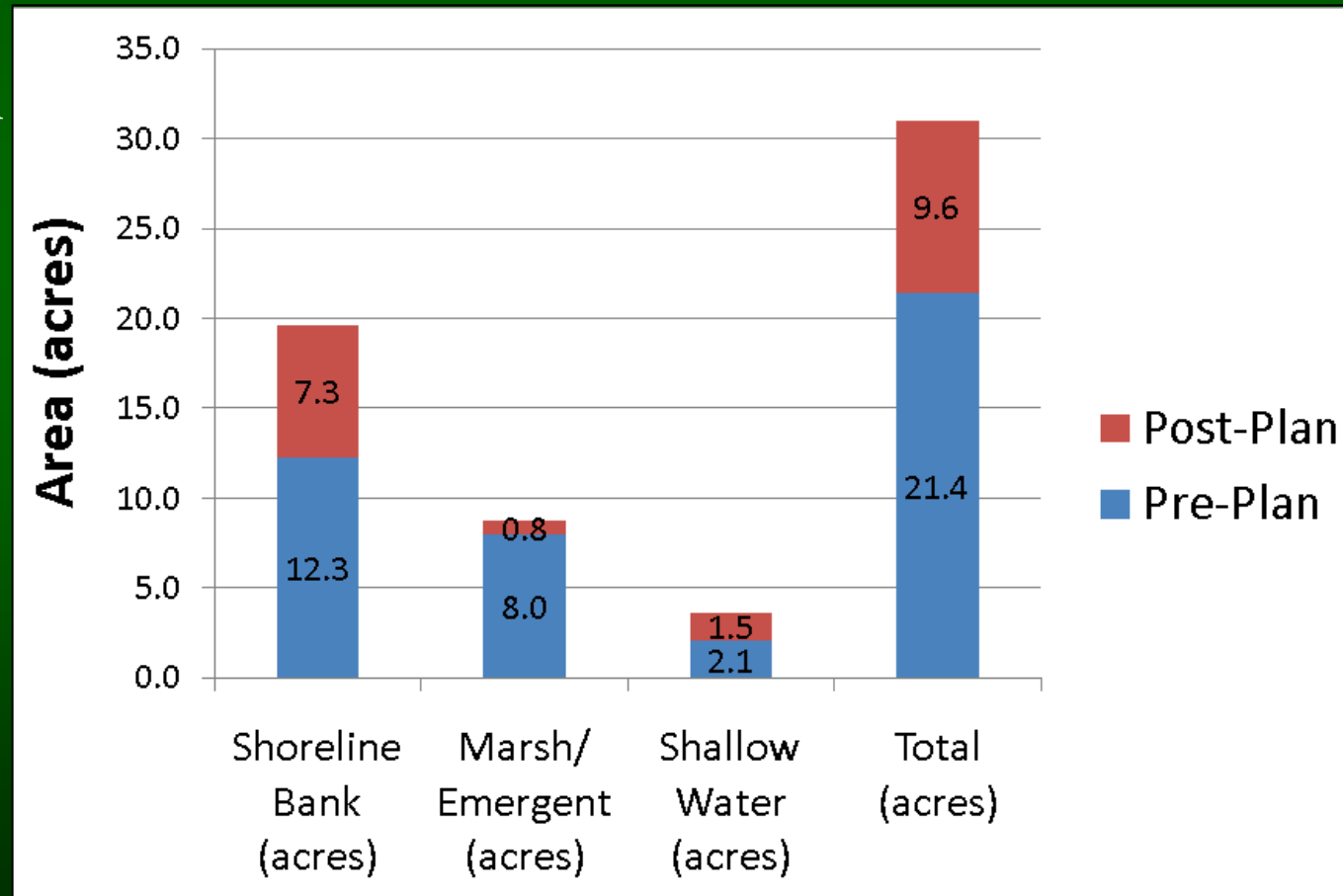
Tallied up restoration area, by habitat type, from project reports and planning documents (Port of Seattle, City of Seattle, Army Corps, EPA, and King County, others)

Pre-plan projects over 10 yrs
Post-plan projects over 5 years

Results

Duwamish Habitat Area Tally

31.0 ac total =
9.6 ac post-plan
21.4 ac pre-plan



19.6 ac shoreline
8.8 ac marsh
3.6 ac mudflat

Duwamish River Habitat Projects



Duwamish River Estuary Historical Conditions

420 ac estuarine wetland
420 ac riverine wetland
470 ac palustrine wetland
= 1310 acres

Estimates from Collins & Sheikh ,
2005. Historical reconstruction,
classification and change analysis of
Puget Sound tidal marshes

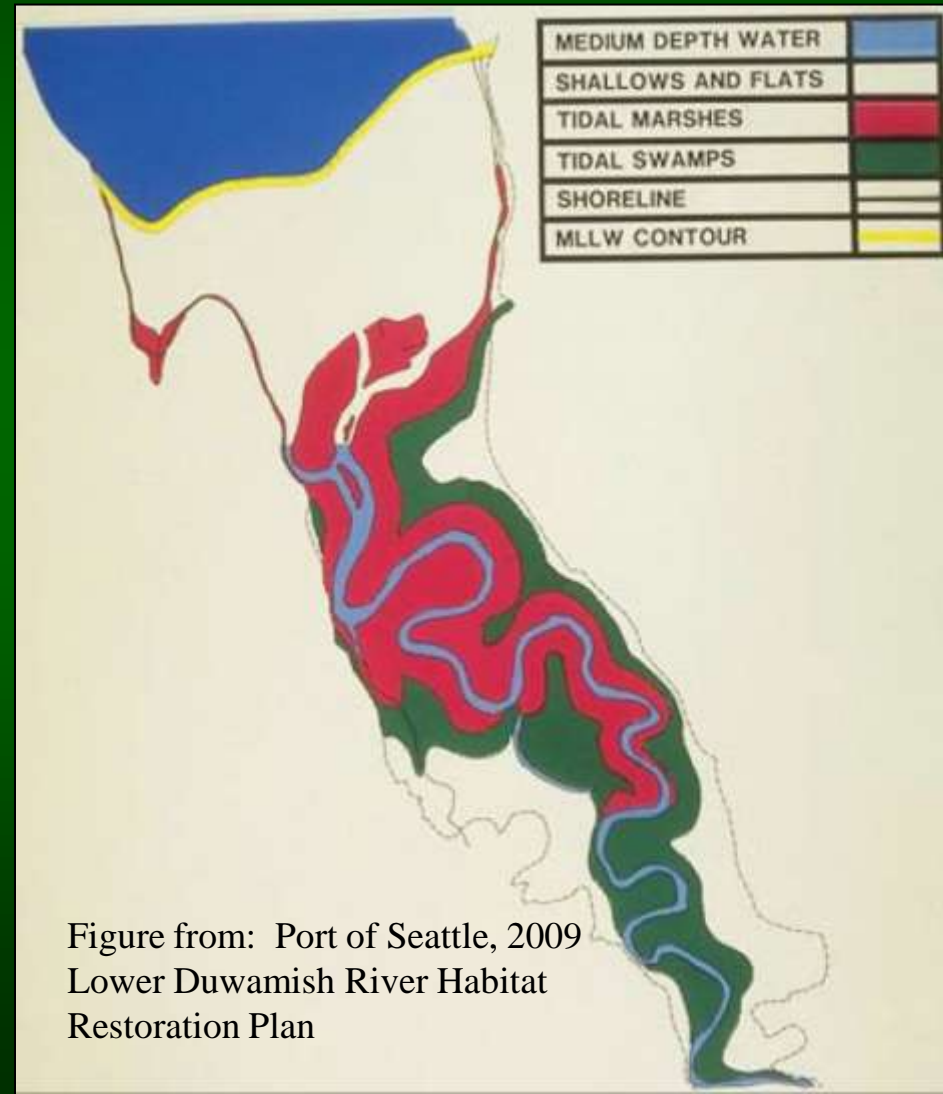


Figure from: Port of Seattle, 2009
Lower Duwamish River Habitat
Restoration Plan

Future Habitat Restoration

More to come – the Natural Resource Damage Assessment (NRDA) projects are coming up



North Winds Weir

Existing
31 acres
total inc.
9.6 acres
since 2005

Results

Post-2005 Duwamish Habitat Restoration Projects					
Site Name	Year Completed	Shoreline Bank (acres)	Marsh/ Emergent (acres)	Shallow Water (acres)	Total (acres)
Terminal 105 Expansion	2008	0.02			0.02
Terminal 107 Expansion	2009		0.04		0.04
Gateway Park South	>2006	0.4			0.4
Seattle Fleets & Facilities	2008/2009	2.1	0.36		2.46
North Wind's Weir (Site One)	2010	0.9	0.36	1.5	2.76
Codiga Park Riverbank	2009	2			2
T24/25	>2005	1.9			1.9
Totals		7.3	0.8	1.5	9.6

Post-2005 Projects

7 acres including:

1.5 acres mudflat

0.4 acres marsh

5.2 acres shoreline

Results

Pre-2005 Duwamish Habitat Restoration Projects					
Site Name	Year Completed	Shoreline Bank (acres)	Marsh/ Emergent (acres)	Shallow Water (acres)	Total (acres)
Terminal 105	1995	0.3	0.6		0.9
GSA Marsh	1995	0.18	0.31		0.49
Herring's House Park	2001	2.53	3.14		5.67
Terminal 107	2000	0.28	0.23	0.3	0.51
Puget Creek	1999	0.38	0.3		
Hamm Creek Estuary	1999	2.98	1.09		4.07
Turning Basin Number 3 (Kenco Marine)	1996	0.33	0.41		0.74
Turning Basin (including Coastal America site)	1999 (1994)	0.4	0.32	1.3	2.02
Cecil Moses Park	2003	3.2	1.02		4.22
Codiga Park inlet	2004	1.5	0.2	0.5	2.2
Duwamish/Diagonal Marsh	1988 and 2004	0.2	0.4		0.6
Totals		12.3	8.0	2.1	21.4

Pre-2005 Projects

21.4 acres including:

2.1 acres mudflat

8.0 acres marsh

12.3 acres shoreline