2005-2014 Active & Completed Projects

By Green/Duwamish & Central Puget Sound Watershed (WRIA 9) and their Partners

NO.	PROJECT NAME	PROJECT SPONSOR	LOCATION/ RIVER MILE (RM)	ESTIMATED TOTAL COST/ALLOCATED TO DATE	PROJECT SUMMARY
UPPER SUBWATERSHED					
UG-1	**Sawmill Creek Acquisition (completed)**	Tacoma Public Utilities, Forterra	Green River, RM 85.0	1,813,00/1,813,00	Acquisition of 344 acres of mature and old-growth forest in the Sawmill Creek sub-basin to protect salmon habitat.
UG-3	**Gale Creek Culvert Replacement (completed)**	Tacoma Public Utilities/ USACOE	Green River, RM 67.0	211,790/211,790	Restore fish passage to two tributaries and reduce the sedimentation threat to Gale Creek.
UG-4a	**Upstream Fish Passage Facility (completed)**	Tacoma Public Utilities	Green River, RM 61.5	To be determined	Continue Upstream Fish Passage Facility project with monitoring and evaluation of 17.5 mainstem miles and 10 tributary miles. Acquisition of 344 acres at Sawmill Creek and additional fish barrier corrections will improve conditions.
UG-4b	**Downstream Fish Passage Facility (active)**	U.S. Army Corps of Engineers (USACOE)	Green River, RM 64.0	To be determined	If completed, the facility will provide safe downstream passage for juvenile salmon. This would allow reintroducing Chinook salmon above Howard Hanson Dam, which would increase the spatial structure and genetic diversity of the Green River Chinook population.
MIDDLE GREEN SUBWATERSHED					
MG-2a	**Kanaskat Acquisition (completed)**	King County	Green River, RM 59.0	1,700,000/390,000 received after 2005	Acquired remaining parcels of a 75 acres property along a remnant historic side channel to the middle Green River just below the Tacoma headworks near one of the highest density Chinook spawning areas in the Green River.
MG-2b	**Middle Green Wood Supplementation Program (ongoing)**	USACOE/Tacoma Public Utilities/King County	Green River, RM 60.0	33,034/33,034	Annual wood placement in the river is intended to create better habitat for juvenile salmon.
MG-2c	**Middle Green River Gravel Supplementation Program (ongoing)**	USACOE/Tacoma Public Utilities/King County	Green River, RM 60.0	142,286/ 142,286	Annual gravel placement in the river is intended to make up the deficit resulting from four decades of operation of Howard Hanson Dam.
MG-6	**Lower Newaukum Restoration (completed)**	King County	Newaukum Creek – Enumclaw Plateau	940,000/940,000	Placed large woody debris and planted native trees along the lower 4.3 miles of the creek and reconfigured the lower 1,800 feet of the creek near the mouth.
MG-7	**Big Spring Creek Restoration (Phases 1 and 2 completed)**	King County/USACOE	Tributary to Newaukum Creek – Enumclaw Plateau	6,842,248/5,457,248	Restored 4,000 feet of stream channel and wetland habitat and planted 16 acres of stream-side vegetation to improve this cold-water source for Newaukum Creek.
MG-8	**Newaukum Creek Revegetation (completed)**	King County	Newaukum Creek – Enumclaw Plateau	2,000,000/900,000	Enhance and expand the degraded plateau wetlands adjacent to Newaukum Creek by constructing wetlands and removing invasive plants and replanting with native vegetation.
MG-17	**Porter Levee Setback (active)**	King County	Green River, RM 34.0	5,400,000/891,000	Reconnect the river to 45 acres of its floodplain and allow channel migration. Other improvements include the addition of logjams and stream-side vegetation, and removing development potential from adjacent flood hazard areas.
MG-18a	**Fenster Levee Setback and Floodplain Restoration Phase 1 (completed)**	City of Auburn	Green River, RM 32.0	811,400/811,400	Removed 700 feet of rock armoring to form a low, vegetated bench and gently sloping river bank to provide shade and overhanging cover, better accommodate floodwater, and attenuate floodwater velocities.
MG-18b	**Fenster Levee Phase 2 (active)**	City of Auburn	Green, River, RM 31.0	$1,231,456/1,231,456	The City of Auburn set back the final 880 feet of Fenster Levee; after construction, the site was replanted. The project increases storage of floodwaters, reducing the risk of downstream flooding.
MG-18c	**Pautzke Levee Setback (completed)**	King County	Green River, RM 32.5	1,263,986/1,263,986	19 acres of Green River floodplain and 1,200 feet of river bank and channel are now exposed to channel migration. Planted over 1,200 native trees and shrubs.

WRIA 9 Salmon Habitat Plan • Implementation Progress Report 2005-2014

2005-2014 Active & Completed Projects

By Green/Duwamish & Central Puget Sound Watershed (WRIA 9) and their Partners

NO.	PROJECT NAME	PROJECT SPONSOR	LOCATION/ RIVER MILE (RM)	ESTIMATED TOTAL COST/ALLOCATED TO DATE	PROJECT SUMMARY
LOWER GREEN SUBWATERSHED					
LG-2	**Olson Creek Restoration (completed)**	City of Auburn	Green River, RM 28.5	32,000/32,000	Restoration of Olson Creek habitat includes removal of non-native plants and planting riparian revegetation.
LG-7a	**Mill Creek - Leber Homestead Off-Channel Habitat Restoration (active)**	City of Kent	Mill Creek at Confluence with Green River at RM 23.7	2,337,313/477,187	Construct a side channel off Mill Creek to provide two acres of floodplain habitat. Project includes 670 linear feet of new off-channel habitat, 37 log structures, two acres of stream-side vegetation, and six acres of upland plantings.
LG-7b	**Riverview Park Ecosystem Restoration (completed)**	U.S. Army Corps of Engineers/City of Kent	Green River, RM 23.0	7,613,571/7,613,561	Constructed an 800 linear foot flow-through side channel to the Green; added woody debris and extensive riparian plantings.
LG-9a	**Teufel/Rosso Nursery Off-Channel Rehabilitation and Riparian Restoration (active) Acquisition Only**	King County/Flood Control District	Green River, RM 20-20.8	2,025,000/2,025,000	Construct an outlet at RM 20.1, remove fill, and excavate off-channel flood refuge for juvenile rearing habitat.
LG-9b	**Downey Farmstead Restoration Construction (active) Acquisition (completed)**	City of Kent	Green River, RM 21.5	6,605,085/1,655,085	Create off-channel rearing and refuge habitat and create additional flood storage to alleviate damage in nearby urban and agricultural areas. Lower Green Acquisition costs in 2007 were $1,205,085.
DUWAMISH SUBWATERSHED					
DUW-8.6	**Codiga Farm Park (completed)**	City of Tukwila/USACOE	Duwamish River, RM 8.6-8.4	To be determined	In 2009, 100 feet of shoreline was revegetated on this project built in 2014.
DUW-5.1	**Kenco Marine Restoration (completed)**	Muckleshoot Indian Tribe	Duwamish River, RM 5.1	635,578/635,578 (restoration and design)	In 2006, an old building, dock, and grounded barges were removed; fill material was removed to push back the shoreline. Marsh and riparian vegetation were planted.
DUW-7.8	**Duwamish Revegetation (active)**	King County	Duwamish River, various RM from 5.8 – 10.0	150,000/121,129	King County is removing invasive weeds and planting native trees and shrubs along three miles of the Duwamish River in partnership with public and private property owners. Ongoing monitoring and maintenance is required to ensure survival.
DUW-6.8	**Duwamish Gardens Restoration (active)**	City of Tukwila	Duwamish River, RM 6.9	4,035,941/4,035,941	Create shallow water habitat and native forest on a 2.4 acre site in the Duwamish "transition zone." Excavate to create mudflat and marsh essential for juvenile salmon on their way to Puget Sound.
DUW-6.7	**Chinook Wind Acquisition (active)**	King County/City of Tukwila	Duwamish River, RM 6..6 – 6.7	8,200,000/1,553,616	Acquisition approved December 2014 using a combination of Conservation Futures Tax and mitigation credits. Estimated costs include acquisition, demolition, soil remediation, cultural resources management and construction.
DUW-6.6	**Riverton Creek Flapgate Removal (design completed)**	City of Tukwila	Duwamish River, RM 6.6	To be determined/ 42,500	At the mouth of Riverton Creek on this 3.4 acres site two flapgates will be replaced with self-regulating tidegates to allow normal tidal flushing while reducing flooding on Riverton Creek during high flows in the Duwamish. Removal of the flapgates and associated creek restoration will restore and enhance salmonid habitat.
DUW-10	**North Wind's Weir (completed)**	King County/USACOE	Duwamish River, RM 6.3	5,500,000/5,500,000	The project contributes 2.5 acres towards reducing a critical shortage of "transition zone" habitat in this watershed. Expanded shallow water habitats and marshes result in a larger, healthier Duwamish estuary.
DUW-4.2	**Terminal 117 (completed)**	Port of Seattle	Duwamish River, RM 4.5-4.1	TBD	Structures will be removed to restore over three acres of shallow ater habitat and 3500 feet of shoreline bank. A pier will provide river access for nearby residents and businesses.

2005-2014 Active & Completed Projects, continued

By Green/Duwamish & Central Puget Sound Watershed (WRIA 9) and their Partners

NO.	PROJECT NAME	PROJECT SPONSOR	LOCATION/ RIVER MILE (RM)	ESTIMATED TOTAL COST/ ALLOCATED TO DATE	PROJECT SUMMARY
MARINE NEARSHORE SUBWATERSHED					
NS-2	**Elliott Bay Seawall (active)**	City of Seattle	Mainland Nearshore	To be determined	Improve degraded habitat within the nearshore area of Elliott Bay by installing a habitat bench to form a shallow-water corridor for migratory juvenile salmon along the length of the seawall. Install light penetrating surfaces to provide light to the habitat bench below.
NS-3a (Policy)	**Walker Creek Headwaters Acquisition (completed)**	City of Burien	Mainland Nearshore	475,000/475,000	Support the implementation of the Miller-Walker and Salmon Creek Basin Plan by acquiring and protecting 21 acres of wetland.
NS-3b	**Olympic Sculpture Park (completed)**	City of Seattle	Mainland Nearshore	2,867,456/2,867,456	A pocket beach was excavated to provide shallow water habitat for juvenile salmon. Riparian vegetation and woody debris were placed on the beach uplands. Created shallow water habitat.
NS-5a	**Seahurst Park Shoreline Restoration - North Shoreline (completed)**	City of Burien	Mainland Nearshore	8,600,000/8,600,00	Restored 2,800 feet of marine shoreline including removal of an 1800 foot concrete seawall, rock riprap, groins, paving and fill. Restored beaches to replicate natural slopes. Added over 20,200 riparian plants and created a pocket estuary supported by three perennial streams.
NS-5b	**Seahurst Park Shoreline Restoration - South Shoreline (completed)**	City of Burien	Mainland Nearshore	5,900,000/5,900,00	Removed 1,000 linear feet of a gabion seawall that was failing; natural beach slopes were restored with clean gravel; riparian vegetation was installed in the upper beach and large drift wood was replaced.
NS-10	**Ellis Creek Estuary Acquisition and Restoration (completed)**	King County	Vashon-Maury Island Nearshore	230,688/230,688	Acquisition of the salmonid-accessible saltmarsh and riparian land at the mouth of Ellis Creek on Tramp Harbor, on the east side of Vashon Island. Project removed a dirt access road, increasing the saltmarsh area by approximately one-third.
NS-11	**Beaconsfield on the Sound (active)**	City of Normandy Park/ Forterra	Mainland Nearshore	1,260,000/552,920	Work with willing property and easement owners and the City of Normandy Park to protect an exceptional feeder bluff along the mainland marine shoreline. At this time not all owners of property or easements are willing sellers. The project may be affected by willingness to convey the necessary property rights.
NS-14	**Raab's Lagoon Pocket Estuary (active)**	King County	Vashon-Maury Island Nearshore	300,000/100,000	Acquisition and restoration in Raab's Lagoon; work with property owners around the lagoon to improve shoreline habitat.
NS-15	**McSorley Creek (active)**	Washington State Parks	Mainland Nearshore at Saltwater State Park	4,355,000/200,000 (design)	Remove 2500 feet of rocked marine shoreline; the fill that buried the original beach will be excavated and re-graded to a natural beach. Provide habitat for beach spawning smelt and sand lance, a much-needed food source for native fish.
NS-17a	**Piner Point Infill Acquisition (completed)**	King County	Vashon-Maury Island Nearshore	1,600,000/400,000	Connected the Piner Point and Northilla Natural Areas into a 3000 foot feeder bluff and restored shoreline. Restoration included removing cabins and bulkheads from an active landslide area.
NS-17b	**Dockton Restoration (completed)**	King County	Vashon-Maury Island Nearshore	470,000/470,00	Created a salt marsh and enhanced shoreline processes by removing 375 feet of marine shoreline armoring, fill material and approximately 100 pilings in the intertidal zone. New beach material was added to restore lost sediment supply from neighboring armored shoreline.
NS-17c	**Judd Creek Acquisition and Estuary Wood Placement (active)**	King County	Vashon-Maury Island Nearshore	To be determined/ 80,000	Worked with a private property owner to create habitat improvements to a pocket estuary at the mouth of Judd Creek on Quartermaster Harbor; installed large woody debris and native plantings.
NS-17d	**Glacier Mine Acquisition (completed)**	King County	Vashon-Maury Island Nearshore	36,000,000/ 36,000,000	Acquisition of 250 acres and 4800 linear feet of shoreline on Vashon Island to create a regional marine park and protect nearshore habitat.
NS-17e	**Neill Point Acquisition (active)**	King County	Vashon-Maury Island Nearshore	3,088,000/1,400,000	Acquisition of 52 acres of shoreline to creating a park with excellent spawning habitat for critical forage fish species like sand lance and surf smelt.
NS-17f	**Point Heyer Drift Cell Preservation (active)**	King County	Vashon-Maury Island Nearshore	12,800,000/2,773,989	Protect shoreline parcels through acquisition within the Pt. Heyer drift cell to assist in the recovery of salmonids and other important fish resources. This drift system is among the most intact drift cells in the WRIA 9 Marine Nearshore Sub-basin.
NS-17g	**Cove Creek Acquisition (active)**	King County	Vashon-Maury Island Nearshore	500,000/500000	Protect and improve riparian vegetation, improve tributary access, remove armoring and fill, increase vegetated shallow nearshore and marsh habitats, protect and enhance pocket estuaries and tributary stream mouths.
NS-20	**Maury Island Fill Removal (active)**	King County	Vashon-Maury Island Nearshore	150,000/100,000	The fill is inhibiting natural erosion of the adjacent bluffs onto the beach; this project would remove the fill and reestablish a natural grade to the shoreline. Protect and expand forage fish spawning areas.