

**Three-Year Watershed Implementation Priorities - Puget Sound Salmon Recovery Plan
WRIA 9 Habitat Work Schedule for Green/Duwamish and Central Puget Sound Watershed**

Project Name	Priority Tier	Project Description	Likely sponsor	Total cost of first three years/phases	Local Share	SRFB/PSAR	Source of Funds	Primary Limiting Factors	Habitat Type	Activity Type	Primary Species	Secondary Species	2013		2014		2015		Likely end date
													Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope	Year 3 Cost	
Capital Projects																			
Duwamish Subwatershed: Enlarge Duwamish estuarine transition zone habitat by expanding shallow water and slow water areas, and expand/enhance the estuary, particularly vegetated shallow subtidal and intertidal habitats and brackish marshes. VSP parameters for this subwatershed focus on productivity.																			
North Wind's Weir (Project, DUW-10) COMPLETED!	1	Shallow Water Habitat Rehabilitation at RM 6.3: Create two acres of off-channel, shallow water habitat in the transition zone	King County	\$3,200,000	\$1,974,000	\$950,000 (2007)	King County \$325,000; US ACOE \$1,600,000; KCD \$325,000	Reduced habitat capacity. Competition with Hatchery origin juveniles.	Transitions zone estuary.	Shallow water habitat restoration.	Chinook	Steelhead, Bull trout, Orca	Monitoring	\$20,000	Monitoring	\$20,000	Monitoring	\$20,000	2014
Duwamish Gardens Shallow Water Habitat Creation at RM 7.0 Project DUW-7) Acquisition Completed!	1	Acquire land within transition zone in order to create shallow-water habitat.	Tukwila	\$2,846,000	\$1,000,000	\$1,500,000		Reduced habitat capacity. Competition with Hatchery origin juveniles.	Transitions zone estuary.	Shallow water habitat restoration.	Chinook	Steelhead, Bull trout, Orca							
Duwamish Gardens Shallow Water Habitat Creation at RM 7.0 Project DUW-7) Restoration in design phase; final design expected Fall 2012	1	Restore estuarine transition zone habitat to provide critical habitat for juvenile salmon in the Duwamish Transition Zone.	Tukwila	\$3,300,000	\$150,000	\$1,000,000	SRFB 2010 \$197299; KCD \$150,000 (2010),	Reduced habitat capacity. Competition with Hatchery origin juveniles.	Transitions zone estuary.	Shallow water habitat restoration.	Chinook	Steelhead, Bull trout, Orca	Permitting		Construction	\$3,300,000	Construction / Revegetation	\$0	2015
Duwamish Revegetation (Program WW-5)	1	Plant native trees in the riparian zone/floodplain of the Green River and Soos Creek	King County	\$150,000	\$150,000 (Project had been proposed for 2011 KCD funding)	\$0	\$150,000	Loss of Habitat	Riparian	Riparian	Chinook	Steelhead	Construction (revegetation)	\$200,000	Construction (revegetation)	\$0	Construction (revegetation)	\$0	2015
Subtotals				\$9,496,000	\$3,124,000								\$220,000		\$3,320,000		\$20,000		
Lower Green River Subwatershed: Protect/restore refuge, habitat complexity and connectivity for juvenile salmon over range of flow conditions and variety of locations. VSP parameters for this subwatershed focus on productivity.																			
Riverside Estates Levee Setback Project (LG-1) - (Reddington Levee)	1	Levee setback, revegetation, benching, LWD.	King County Flood Control District (KCFCD)	\$3,038,983	\$3,038,983	\$0	KCFCD	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Intream	Instream flow	Chinook	Steelhead, Bull Trout, Orca	Construction	\$290,268	Construction	\$2,748,715			2014
Riverview Park Restoration (Project LG-7) UNDER CONSTRUCTION	1	Provide summer rearing habitat and high flow winter refuge through excavation of an off-channel area combined with placement of large wood structures.	Kent	\$7,613,571	Kent (\$1,696,742)	\$150,000 (2006); 500,000 (2009);	ACOE (\$4,500,000) KCD (\$840,000), Kent (1,696,742)	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Intream	Instream flow	Chinook	Steelhead, Bull Trout, Orca	Monitoring	Funded	Monitoring	\$0	Monitoring & Adaptive Management	\$20,000	2015
Downey Farmstead Restoration Project (formerly Lower Green River Acquisition) (Project LG-7) ACQUISITION COMPLETE	1	Acquire three properties immediately upstream of the Mullen Slough confluence and demolish buildings on one. A feasibility study will determine options for modifying Frager Road, reconnection of the upland to the river, and restoration of riparian habitat.	Kent	\$1,205,085	\$230,000	\$975,085 (2003)	Kent \$180,000; King County \$25,000; Green River Flood Control Zone District \$25,000	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Intream	Instream flow	Chinook	Steelhead, Bull Trout, Orca							
Lower Green Acquisition (Downey Farmstead) (Project LG-7)-DESIGN AND CONSTRUCTION	1	The current conceptual design for this project is to excavate a perennial side channel connected to the Green River mainstem at both ends. This concept would require Frager Road S to be relocated to a location adjacent to SR 516. The channel would contain anchored large wood installations in the wetted channel. Stream banks would be shaped to create a stable angle of repose and be planted with native vegetation.	Kent	\$5,400,000	\$810,000	\$4,750,000	Green River Flood Control District, King Conservation District, City of Kent, King County	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Intream	Instream flow	Chinook	Steelhead, Bull Trout, Orca	Final design and permitting	Funded	Construction	\$4,750,000	Construction/ Revegetation		2015

CAVEAT: Subwatersheds listed in order of priority. Projects prioritized 1 through 3.

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Capital Projects																				
Mill Creek Floodplain Wetland and Off-Channel Habitat Rehabilitation (Project LG-7) - Leber Property - DESIGN AND CONSTRUCTION	2	Restore lower 0.3 miles of Mill Creek and adjacent segments of currently armored riverbank.	Kent	\$3,000,000		\$100,000 (2006), \$200,000 (proposed 2010)	APPROVED: CFT: \$100,000 (2005 or 2006); City of Kent: \$100,000 (2005 or 2006)	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Intream	Instream flow	Chinook	Steelhead, Bull Trout,Orca	Complete Design & Permitting	\$0	Construction	\$3,500,000				2014
Teufel/Rosso Nursery Off-Channel Rehabilitation and Riparian Restoration Between RM 20.8 and 20 (LG-9) - ACQUISITION	1	Acquire property and rehabilitate habitat by constructing an outlet at RM 20.1. Actions would include removing fill, excavating off-channel flood refugiaum for juvenile rearing habitat ,a nd planting native wetland and riparian vegetation.	KCFCD,	\$3,500,000	KCFCD, CFT/Parks Levee,		KCFCD	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Instream		Chinook	Steelhead, Bull Trout,Orca								
Teufel/Rosso Nursery Off-Channel Rehabilitation and Riparian Restoration Between RM 20.8 and 20 (LG-9) - RESTORATION	1	Acquire property and rehabilitate habitat by constructing an outlet at RM 20.1. Actions would include removing fill, excavating off-channel flood refugiaum for juvenile rearing habitat ,a nd planting native wetland and riparian vegetation.	KCFCD,	\$2,500,000	KCFCD, King Conservation District		KCFCD	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Instream		Chinook	Steelhead, Bull Trout,Orca	Design	\$300,000	Design		Construction	\$2,000,000	2013	
Mainstem Maintenance (Project LG-10) - Boeing Levee Setback-	1	Boeing Levee Setback and Restoration between RM 18 and 17.1 to enable extensive habitat rehabilitation.	Kent & King County	\$12,000,000	\$4,000,000	\$8,000,000	GRFCZD, KCD, Kent, ACOE	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Instream	Instream flow	Chinook	Steelhead, Bull Trout,Orca	Construction	\$12,000,000	Complete Construction/Monitoring	\$50,000			2016	
Desimone Levee (Project LG-13) -	1	Levee setback, revegetation, benching, LWD.	King County	\$2,844,256			KCFCD	Altered stream flow, channel structure& complexity, riparian areas, LWD.	Intream	Instream flow	Chinook	Steelhead, Bull Trout,Orca	Design	\$80,607	Engineering, design, permitting.	\$898,673	Construction	\$1,864,976	2015	

Subtotals				\$11,518,586	\$3,781,256	\$1,225,085							\$12,380,607		\$9,198,673		\$3,884,976	
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Nearshore Subwatershed: Protect, restore, or rehabilitate: sediment transport processes by reconnecting sediment sources and removing shoreline armoring; pocket estuaries, lagoons, and spits; and sediment quality, particularly in Elliott Bay. VSP parameters for this subwatershed focus on productivity.

Pier 90 Shallow Water Habitat Rehabilitation (NS-1)	1	Protect and expand that area of shallow water habitat. The land comprising shoreline east of Pier 90 would need to be purchases. The riprap and fill would be moved in order to create additional shallow water habitat and the shoreline planted with riparian vegetation.	City of Seattle	\$2,500,000				Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Feasibility, Technical Design	\$500,000	Design and permitting	\$750,000	Construction	1,250,000	2015
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Capital Projects																			
Myrtle Edwards Park Small Pocket Beaches/Shallow Water Habitat Rehabilitation (NS-2)	1	Create pocket beaches in Myrtle Edwards Park on Elliott Bay in Seattle. Riprap armoring would be removed and the slopes would be graded back to create natural slopes. Pocket beaches have a mix of sediments placed on them. Riparian area would be planted with native vegetation. A shallow water bench may also be	City of Seattle	\$6,000,000				Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Feasibility, Technical Design	\$500,000	Design and permitting	\$750,000	Construction	\$4,000,000	2015
Elliott Bay Shoreline Enhancements(Project NS-4) -	1	Create shallow water habitat benches and fish friendly structures along the waterfront, install a shoreline beach. This would open up a migration corridor and increase the amount of shallow water are for juvenile Chinook foraging.		\$56,000,000	unknown	unknown	unknown	Loss of habitat	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Design and Pre-Construction Monitoring	\$5,600,000	Construction	\$500,000,000	Construction/Monitoring		
Beaconsfield-On-The-Sound (project NS-11) - Acquisition	1	Purchase and restore one of the last major privately-held undeveloped feeder bluffs along the mainland marine shoreline.	Normandy Park	\$500,000	\$70,500	\$50,873 (2005-2006); \$100,000 (2006), \$380,739 (2007)	Cascade Land Conservancy \$2,977 (2005), KCD \$64,500 (2006); Normandy Park \$6,000 (2005), CFT (2008 submitted)	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Feasibility, Technical Design	\$100,000	Acquisition	\$150,000	Construction	\$250,000	
Piner Point Restoration Bulkhead Removal (Project NS-17) - Restoration	1	Remove creosote bulkhead,	King County	\$243,894	\$243,894		0 King Conservation District \$180,000 (2010) and King County (63,894)	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish							
Dockton Heights- Restoration -	3			\$490,000	490,000		0 Dalco Oil Spill Mitigation Funding	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Design		Construction		Construction		
Maury Island Gravel Pit Acquisition (NS-17) - completed!	1			\$39,000,000	19,000,000		0 \$19,000,000 Conservation Futures, \$18,000,000 WA ASARCO settlement, \$2,000,000	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish							
Maury Island Fill Removal (NS-20) - (remnant dock footing)	2			\$150,000	80,000		\$80,000 SWM	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish			Design and permitting	\$80,000	Construction	\$200,000	2016
Burien Seahurst Park Shoreline Restoration, Phase II (Project NS-5) - CONSTRUCTION TO BEGIN OCTOBER 2012 with utility and fish ladder relocation, opening a 500ft section of seawall, removing several hundred feet of rip rap from the beaches, restores the beaches with the gravels and sand, and creates the marsh. Additional Corps funding will be needed to complete remaining portion of project.	1	Continue shoreline restoration actions conducted in southern portion of Seahurst Park in Burien by removing a portion of shoreline armoring in the central area of the park, restoring natural beach slopes, and adding riparian vegetation.	Burien	\$5,675,000	\$4,225,000	\$750,000 (2010)	KCD (\$510,000), ESRP (\$700,000), SRFB 2009 (\$750,000), USACE (\$3715,000)	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Construction	\$2,000,000	Construction	\$3,000,000	Monitoring	\$100,000	Construction complete in 2014, monitoring complete in 2017

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Capital Projects																			
Point Robinson Estuary Restoration	1	Salt Marsh Reconnection and Improvements	King County	\$500,000				Loss of habitat,	Estuary and salt marsh	Nearshore.	Chinook	Orca, forage fish	Design and Pre-Construction Monitoring	\$100,000	Construction	\$400,000	Monitoring		2015
Cove Creek - Restoration (NS-7)	1	Fish blockage removal and pocket estuary restoration. Project would restore the mouth of Cove Creek and move the stream crossing upstream. The northern half of the bulkhead would be removed and stream mouth area replanted.	King County	\$487,000.17				Loss of habitat,	Estuary and fish blockage removal	Nearshore.	Chinook	Orca, forage fish	Design and Pre-Construction Monitoring	\$100,000	Construction	\$387,000.17	Monitoring		
Cross Landing Estuary (NS-17)	1	Restoration of the pocket estuary is dependent upon acquisition.	King County	\$500,000.00				Loss of habitat,	Estuary and fish blockage removal	Nearshore.	Chinook	Orca, forage fish	Acquisition (see separate project below)		Design and permitting	\$100,000.00	Construction (revegetation)	\$400,000	
Raab's Lagoon Restoration - Pocket Estuary Restoration (plant shoreline) (NS-17)	2	Revegetation	King County	\$100,000	\$0	\$0	King County SWM (\$100,000)	Loss of habitat	Nearshore estuary	Nearshore.	Chinook	Orca, forage fish	Construction (revegetation 2011 and 2012)	\$100,000	Monitoring and Maintenance		Monitoring and Maintenance		
McSorley Creek at Saltwater State Park - Design (NS-15)	2	Removal of nearshore armoring, enhance fish passage																	
Maury Island Marine Park (NS-17)	2	Invasive Removal and Revegetation.		\$1,200,000			King County SWM (\$1,200,000)												
Maury Island Revegetation	2	Revegetation at Glacier Pit.		\$500,000			King County SWM (\$10,000)	Loss of habitat	Nearshore estuary and riparian	Nearshore.	Chinook	Orca, forage fish	(revegetation 2011 and 2012)	\$30,000	Construction (revegetation)	\$40,000	Construction (revegetation)	\$100,000	
Marine Nearshore Acquisition Projects																	Weed removal and revegetation	COST	

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Capital Projects																			
Beaconsfield on the Sound (Project NS-11) - ACQUISITION	1	Protect sites with high habitat resource values - Southwest Drift Cell - South Shoreline	Normandy Park	\$1,100,000				Loss of habitat,	Nearshore beach.	Acquisition	Chinook	Orca, forage fish	Feasibility	\$125,000	Acquisition	\$2,000,000	Acquisition	\$4,500,000	2014
Functioning Nearshore Habitat Protection on Vashon/Maury Island-Inspiration Pt. (Project NS-17) (inholdings)	2	Protect sites with high habitat resource values - Inspiration Pt.	King County	\$500,000			Conservation Futures, NOAA	Loss of habitat,	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						2008
Functioning Nearshore Habitat Protection on Vashon/Maury Island-Neill Pt. (Project NS-17)	2	Protect sites with high habitat resource values - Neill Pt.	King County	\$500,000			Conservation Futures, NOAA	Loss of habitat	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						
Functioning Nearshore Habitat Protection on Vashon/Maury Island-Rabb's Lagoon (Project NS-17)	3	Protect sites with high habitat resource values - Rabb's Lagoon	King County	\$100,000	unknown	unknown	Conservation Futures, NOAA	Loss of habitat	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						
Functioning Nearshore Habitat Protection on Vashon/Maury Island-Piner Pt. (Project NS-17) Acquisition Completed!	2	Protect sites with high habitat resource values - Piner Pt.	King County				SRFB	Loss of habitat	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						
Functioning Nearshore Habitat Protection on Vashon/Maury Island-Northilla (Project NS-17) - put down as active, seeking Asarco funding	2	Protect sites with high habitat resource values - Northilla	King County	\$1,100,000			Conservation Futures, NOAA	Loss of habitat	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						
Functioning Nearshore Habitat Protection on Vashon/Maury Island- Pt. Heyer (Project NS-17) -	1	Protect sites with high habitat resource values - Pt. Heyer Drift Cell	King County	\$10,000,000	\$2,450,000	\$360,000	KC SWM; CFT (2008, submitted); RCO ALEA (2008, 2010 submitted; KC Park Levy	Loss of habitat,	Nearshore beach.	Land acquired	Chinook	Orca	Acquisition	\$1,500,000	Acquisition	\$1,500,000	Acquisition	\$1,500,000	
Cross Landing - Acquisition (NS-17) -	2	Protect sites with high habitat resource values	King County	\$1,000,000	\$800,000	\$0	Conservation Futures and Parks Levy	Loss of habitat,	Nearshore beach.	Land acquired	Chinook	Orca					Acquisition	\$1,000,000	
Subtotals				\$4,636,000	\$220,500	\$531,612								\$10,655,000		\$505,657,000		\$6,300,000	
Middle Green River Reach (Projects MG-12, MG-13, MG-14, MG-15, MG-16) -	1	Reconnect floodplain area of the Green River allowing natural processes to be re-	King County																
Porter Levee Setback and Floodplain Reconnection (Project MG-17) - DESIGN AND PERMITTING. Project is funded to 30% design, additional funding will be sought in 2013/2014 for final design	1	Remove (modify) existing levee to facilitate river connection to floodplain. LWD placement and riparian revegetation would be included	King County	\$650,000		\$200,000 (2011)	\$1,000,000 KCD; \$500,000 SWM	Loss of Habitat	Floodplain, riparian	Riparian, intream flow	Chinook	Steelhead	Design & Permitting	\$200,000	Design & Permitting	\$450,000			2014
Porter Levee Setback and Floodplain Reconnection (Project MG-17) - CONSTRUCTION	1	Remove (modify) existing levee to facilitate river connection to floodplain. LWD placement and riparian revegetation would be included	King County	\$2,400,000		\$200,000 (2011)	\$1,000,000 KCD; \$500,000 SWM	Loss of Habitat	Floodplain, riparian	Riparian, intream flow	Chinook	Steelhead				\$1,000,000	Construction	\$2,400,000	2014

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Capital Projects																				
Newaukum Creek Mouth Restoration Between Creek Miles 0.0 and 4.3 (Project MG-8) - Completed!	1	Place large woody debris and plant native trees along the lower 4.3 miles of the creek, and reconfigure the lower 1,800 feet of the creek near the mouth.	King County	\$1,175,000			\$788,581 (2004)	King County, ACOE	Riparian areas and LWD recruitment	Intream, riparian	Riparian, intream flow	Chinook	Steelhead, bull trout	Design & Permitting	\$100,000	Construction	\$1,075,000	Monitoring/Adaptive Management		
Newaukum Creek Restoration Between Creek Miles 0.0 and 14.3 - Both Banks (Project MG-6)		Restore process-based ecological functions that include wetland and riparian restoration along Newaukum Creek (Enumclaw Plateau).	King County	\$300,000				\$200,000 KCD; \$100,000 SWM	Loss of Habitat	Riparian	Riparian, intream flow	Chinook	Steelhead	Construction	\$100,000	Construction	\$100,000	Construction	\$100,000	Ongoing
Middle Green Riparian Revegetation(Program WW-5)		Plant native trees in the riparian zone/floodplain of the Green River and Soos Creek	King County	\$200,000				\$200,000; SWM \$50,000	Riparian areas and LWD recruitment	Riparian	Riparian	Chinook	Steelhead	Construction	\$150,000	Construction	\$150,000	Construction	\$150,000	Ongoing
Setback and Removal Pautzke Levees to Reconnect the Floodplain and Allow Channel Migration near RM 32(Project MG-18) Completed!	1	Fenster Levee Phase IA - Remove levees, lower the elevation of terraces and construct engineered logjams to reinstate floodplain connectivity and channel migration.	Auburn, King County	\$1,400,000			\$675,900 (2005-2006)	Green River Flood Control Zone District \$90,000; City of Auburn \$33,000	Channel structure/complexity.	Intream, riparian	Riparian, intream flow	Chinook	Steelhead, bull trout	Construction	\$1,225,000	Monitoring/Adaptive Management	\$75,000	Monitoring/Adaptive Management	\$75,000	2008
Setback and Removal of Fenster Levees _Phase 1 to Reconnect the Floodplain and Allow Channel Migration near RM 32 (Project MG-18) Construction completed!	1	Pautzke Levee - Remove levees, lower the elevation of terraces and construct engineered logjams to reinstate floodplain connectivity and channel migration. Phases A - E.	King County	\$3,500,000					Channel structure/complexity.	Intream, riparian	Riparian, intream flow	Chinook	Steelhead, bull trout			Design & Permitting	\$100,000	Construction	\$3,400,000	
Setback and Removal of Fenster Levees _Phase 2 to Reconnect the Floodplain and Allow Channel Migration near RM 32(Project MG-18) Currently in design Construction planned for 2013	1	Fenster Levee Phase IB - Remove levees, lower the elevation of terraces and construct engineered logjams to reinstate floodplain connectivity and channel migration.	Auburn, King County	\$600,000 - \$800,000			\$250,000 (2007)		Channel structure/complexity.	Intream, riparian	Riparian, intream flow	Chinook	Steelhead, bull trout			Design & Permitting	\$150,000	Construction	\$650,000	2010
Big Spring Creek Acquisition (Project MG-7) - Completed	1		King County	\$2,115,000					Stream flow patterns. High H2O temperature.	Intream, riparian	Water quality	Chinook	Coho							
Big Spring Creek Restoration (Project MG-7)	1	Construct new stream channel to replace ditch. Connect coldwater springs to Newaukum Creek.	King County	\$4,079,728	\$4,019,728		\$60,000	KCD:	Stream flow patterns. High H2O temperature.	Intream, riparian	Water quality	Chinook	Coho	Construction	\$1,973,000	Construction	\$785,000	Construction	\$285,000	2014
Subtotals				\$20,520,000																
Totals				\$39,924,586																
Non Capital Programs-Not Prioritized																				
Lead entity coordination			Lead entity	\$225,000										Staffing (1 FTE)	\$75,000	Staffing (1 FTE)	\$75,000	Staffing (1 FTE)	\$75,000	Ongoing
Adaptive management and monitoring			Multiple stakeholders	\$600,000										Staffing (3 FTEs)	\$200,000	Staffing (3 FTEs)	\$200,000	Staffing (3 FTEs)	\$200,000	Ongoing

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Capital Projects																			
Nearshore Habitat Workshop			King County	\$35,000															
Seahurst Environmental Learning Center (annual basis)			City of Burien and Environmental	\$30,000															
Create incentives Program to Remove Failing Septic Systems on Vashon/Maury Island			King County																
Project Management and Public Outreach			WRIA Staff																
Stewardship & Educational Outreach			WRIA Staff																
Water Conservation Incentive Programs			Multiple stakeholders																
Work with jurisdictions and Department of Ecology to support a			Multiple stakeholders																