Green/Duwamish and Central Puget Sound Watersheds 2011

Three-Year Work Plan

Watershed Questions to Answer for Three-Year Work Programs

What are the actions and/or suites of actions needed for the next three years to implement your salmon recovery chapter as part of the regional recovery effort?

- Delicy MS-1 in the WRIA 9 habitat plan recommends distributing funding to 40% in the transition zone, 30% for rearing habitat, and 30% for spawning habitats. Rearing habitat is provided in the Middle Green River, Lower Green River, Duwamish River and Marine Nearshore. Spawning habitat is provided in the Middle Green River and upper Lower Green River
- Efforts in the transition zone have focused on Duwamish Gardens restoration design at Rivermile 6.9 This project complements the North Wind's Weir project located downstream. In addition, a revegetation project is proposed for King Conservation District funding in 2011 for \$150,000 of invasive plant removal and native plantings in the riparian zone along the Green River within the transition zone. The goal of the revegetation is to improve stream shading and for food and shelter for macroinvertebrates which then become a food source for juvenile salmonids.
- The goal for the Duwamish sub-watershed by the end of year 5 (2010) is restoration of 10 acres of shallow water habitat. The combined restoration of North Wind's Weir and proposed work at Duwamish Gardens will not still meet this intended goal. The difficulty and expense of acquiring property in the Duwamish is proving delay restoration efforts. One way that this has been addressed has been to fund a landowner willingness outreach in this area using 2007 Puget Sound Acquisition and Restoration Capacity Funding. Several landowners in the area have expressed an interest in further discussions however, the funding for acquisitions is currently not available.
- ₱ Projects within the Lower Green include the Mill Creek (Wetland 5K), Mill Creek Kent, Riverview Park, Downey Farmstead, and Rosso/Teufel Nursery. These projects, located within a reach of the Lower Green, will create a combined benefit when constructed. Riverview Park is expected to go to construction in partnership with the US Army Corps of Engineers in late 2011. Mill Creek (Kent), Downey Farmstead, and Mill Creek (Wetland 5K) are in the design phase. Rosso/Teufel Nursery has recently been acquired by the King County Flood Control District and will be seeking funding for design in 2012.
- Major accomplishments in the nearshore environment include the Vashon-Maury Gravel Pit acquisition, Piner Point Creosote Bulkhead Removal, and Beaconsfield on the Sound Acquitions. The Point Heyer Drift Cell Preservation project has been focusing efforts on the northern portion of the drift cell and the project sponsor has received over \$2 million in local funding towards these efforts.

- ⊕ Four projects currently being designed and constructed through the King County Flood Control Zone District (KCFCZD) are included, although the project is completely funded through the district. Coordination with WRIA 9 staff is ensuring that the projects include benefits to salmon.
- The WRIA 9 Implementation Technical Committee has completed analysis and is currently writing a report on adaptive managements. In addition, the goal is to develop a strategy for monitoring project effectiveness for the mainstem river and nearshore projects. Once this strategy is reviewed and adopted by the Implementation Technical Committee and Forum, monitoring will be coordinated with other organizations and funding pursued. Currently, \$123,000 has been set aside for King Conservation District funding towards studies in the Lower Green River to assist with project design.

What is the status of actions underway per your recovery plan chapter? Is this on pace with the goals of your recovery plan?

We are behind our 5-year benchmark for implementing transition zone projects. This is primarily due to: lack of funding, property expense and availability, and inability to compete against private sector offers. Otherwise, efforts have made and are making progress on main stem levee setback projects, and marine nearshore acquisition and restoration projects. Major projects in the upper watershed sponsored by Tacoma Public Utilities (TPU) and the Army Corp of Engineers (ACOE) are also making progress.

What is the general status of implementation towards your habitat restoration, habitat protection, harvest management, and hatchery management goals? Progress can be tracked in terms of 'not started, little progress, some progress or complete' or in more detail if you chose.

Habitat Restoration and Protection

We have adopted a project prioritization and sequencing methodology that was used to evaluate all of the WRIA 9 priority projects. The highest priority projects from this effort will be the focus of future restoration and acquisition efforts. As current projects on the 3-Year Workplan are completed, this prioritized list is being used to draw projects for addition to the workplan. An example is the Porter Levee Setback Design project which is proposed for the 2011 SRFB funding. This project is part of the Middle Green River Reach project; this project is the highest priority within the Middle Green River for both WRIA 9 and King County. The WRIA 9 prioritization methodology has been posted on Sharepoint on the WRIA9 site in order to make it accessable to the SRFB Review Panel Members, RCO staff, and other interested individuals.

H-Integration Status in WRIA 9

The WRIA 9 Forum of Local Governments approved the creation of an Implementation Technical Committee (ITC) in January 2007 and the ITC has recently begun meeting again following a year-long hiatus. Importantly, the ITC includes representatives from both comanagers (Washington State Department of Fish and Wildlife and the Muckleshoot Indian Tribe), as well Tacoma Public Utilities. All four "H's" are therefore represented at the WRIA 9 table for the first time since work began on developing an ecosystem approach to recovering Chinook salmon in the Green-Duwamish system. A sub group of the ITC has been engaged since October 2007 in addressing H-integration, specifically the "6-Steps" and the H-integration tables. At this point (May 2009) drafts of the first 3 steps of H-integration have been completed for WRIA 9. A

significant ITC Work Program task for 2010 is developing an H-integration strategy for WRIA 9. Consistent with the Puget Sound regional H-integration approach, WRIA 9 will address goals, objectives, and steps for advancing H-integration as follows:

Goals of H-Integration Process

- Develop integrated strategies and suites of actions among the H-sectors that are consistent with predictions of moving salmon populations towards short, moderate, and long-term recovery goals
- Help decision-makers clearly see the interaction and cumulative effects of actions among the H-sectors

Six Steps in Advancing H-Integration...

We are following the six step H-integration process and are almost complete with the fifth step of documenting the rationale, implementation steps and expected outcomes. This step is expected to be completed in December 2010 when the WRIA 9 Implementation Technical Committee. Step 6, building and implementing a verification, effectiveness and accountability system is dependent upon additional funding.

What are the top implementation priorities in your recovery plan in terms of specific actions or theme/suites of actions? How are these top priorities being sequenced in the next three years? What do you need to be successful in implementing these priorities?

- The top implementation priorities in our recovery plan are focusing our efforts at the appropriate ecological scale. For the riverine environment, we are attempting to coordinate efforts at a larger scale in order to work at a scale to improve the habitat conditions. In the nearshore environment, the drift cell is being used as the appropriate unit for work.
- We are working with project sponsors to identify projects that are within our priority project list and then assisting them with developing a funding strategy so that the appropriate grants can be pursued. This ensures that projects move rapidly towards completion and do not risk losing existing grants while the required match is being sought.

Do these top priorities reflect a change in any way from the previous three-year work program? Have there been any significant changes in the strategy or approach for salmon recovery in your watershed? If so, how and why?

- ① Our focus has changed slightly based upon the project prioritization process by the Implementation Technical Committee in winter 2008. As currently active projects are completed, projects that rated high in the process will be added to future workplans.
- Tour projects currently being designed and constructed through the King County Flood Control Zone District are included, although the project is completely funded through the district. Coordination with WRIA 9 staff is ensuring that the projects include benefits to salmon.

- Recent flood events and concerns about Howard Hansen dam have accelerated levee setback and repair projects, particularly within Auburn, Kent, Renton and Tukwila. The repair of levees and removal of all vegetation on the levees is proposed to be mitigated by the planting of vegetation elsewhere in the sub-watershed. However, this results in a net decline of riparian vegetation and reduced quality of habitat.
- King County policies regarding salmon restoration projects in the Agricultural Production Districts is impeding restoration opportunities in the Lower and Middle Green. Unless these issues can be resolved, the Habitat Plan goals for restoring off-channel habitat and levee setbacks will not be met.

What is the status or trends of habitat and salmon populations in your watershed?

Based upon WDFW adult return-estimates of the Green River (Duwamish) Chinook spawning population, the recent total escapement appears to be consistent with estimates dating back to 1986. The total escapement for recent years is estimated to be 4,089 in 2005, 10,157 in 2006, and 7,186 in 2007. The range from 1986 to present is 1,840 (1982) to 21,402 (2001). See: http://wdfw.wa.gov/webmaps/salmonscape/sasi/full_stock_rpts/1160.pdf.

Are there new challenges associated with implementing salmon recovery actions that need additional support? If so, what are they?

- The continuing challenge of the lack of funding and capacity, for both the lead entity and project sponsors, continues to limit salmon habitat recovery efforts in the region. In addition, there is very limited funding for monitoring efforts, which is the key to adaptive management.
- ② Resolving the conflict with constructing restoration projects within agricultural areas is not unique to the Green River and this issue should be addressed state-wide.
- ① In addition, the increased design criteria for levee construction and requirement for vegetation removal by the Army Corps of Engineers is resulting in a decline in salmon habitat in the Lower Green River sub-watershed.

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

WRIA 9 Habitat Work			., Da Waiii.		. 4900 00411	u materonici	-				20:	12	201	.3	20:	14	
Project Name	Priority Tier	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	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope		Likely end date
<u>Duwamish Subwatershed:</u> Enlarge water areas, and expand/enhance t marshes. VSP perameters for this s	he estuary	, particularly veget	ated shallow subtid	panding shallow w al and intertidal ha	ater and slow bitats and brackish												
North Wind's Weir (Project, DUW-10) COMPLETED!	1	\$3,200,000	•	\$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
Riverbend Hill (Project DUW-6)	1	Habitat project costs to be determined		Unknown at this time	CFT (2008, submitted)	Reduced habitat capacity. Competition with Hatchery origin juveniles.	Transitions zone estuary.	Shallow water habitat restoration.	Chinook	Steelhead, Bull Trout, Orca	Design, engineering.		Permitting		Construction		unknown
Duwamish Gardens Shallow Water Habitat Creation at RM 7.0 Project DUW-7) Acquisition Completed!	1	\$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	1	\$3,300,000	\$150,000		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	funded through 2010 grant	Construction	\$3,000,000	Construction	Revegetation	(included in 2012 grants)
Duwamish and Newaukum Riparian Revegetation(Program WW-5)	1	\$250,000	\$250,000	\$0	\$200,000; SWM \$50,000	Loss of Habitat	Riparian	Riparian	Chinook	Steelhead	Construction (revegetation)	\$200,000	Construction (revegetation)	\$0	Monitoring		
Riverton Creek Flapgate Removal and Restoration - in feasibility phase	1	\$50,000	\$7,500	\$42,500	Tukwila \$7500	Reduced habitat capacity. Competition with Hatchery origin juveniles.	Transitions zone estuary.	Fish passage	Chinook	Coho	Design, engineering.	\$300,000	Construction		Monitoring/ Adaptive Management	\$100,000	2013
Subtotals		\$9,646,000	\$3,381,500									\$20,000		\$20,000		\$20,000	
Lower Green River Subwatershed: range of flow conditions and variety																	
Lower Green Levee Setback/Upper Green River Forest Road Restoration Study	1	\$1,000,000	amount unknown - seeking funding at this time			Altered stream flow, channel structure& complexity, riparian areas, LWD.		Instream flow	Chinook	Steelhead, Bull Trout,Orca	unknown		unknown		unknown		

Project Name Tier Vear y Space Local Share SREB/PSAR Source of Funds Factors Habitat Type Activity Type Primary Species Species Vear 1 Cost Vear 2 Scope Vear 2 Cost Vear 2 Scope Vear 2 Cost Vear 2 Scope Vear 2 Cost Vear 3 Scope Vear 2 Cost Vear 2 Scope Vear 2 S												201	12	20:	13	20:	L 4	
Project Name Proj			Total cost of first															
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Provided Edition Level 50 1 13.08.00 20.00 2				(2006) PENDING: \$50,000, PENDING:	500,000 (2009);						Trout,Orca					Adaptive Management		
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Telefel/Rose Numery Off-Chance 1 \$2,500,000 KCCZD, Hing KCCZD Allered stream flow, Instrument Chimosk Sheelhead, Bull 9300,000 Construction 9300,000 Constru	Restoration Between RM 20.8 and						complexity, riparian											
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Downey, Farmstead Restoration Project (formerly Lower Green River Acquisition (Project LG-7) ACQUSITION Steelhead, Bull Trout, Orca	Restoration Between RM 20.8 and						complexity, riparian											
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River Acquisition (Project LG-7) ACQUSITION Construction Stock September Stock																		
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River Acquisition (Project LG-7) ACQUSITION Construction Stock September Stock																		
ACQUSITION River Flood Control areas, LWD. Zone District, \$25,000 Lower Green Acquisition (Downey Farmstead) (Project LG-7)- DESIGN River Flood Control areas, LWD. Altered stream flow, Intream Control District, City of Distri	Project (formerly Lower Green	1	\$1,205,085	\$230,000	\$975,085 (2003)	Kent \$180,000; King County	Altered stream flow, channel structure&	Intream	Instream flow	Chinook								
Lower Green Acquisition (Downey 1 \$5,000,000 \$250,000 \$4,750,000 Green River Flood Control District, King Conservation District, (Ity of areas, LWD.) Construction Steelhead, Bull Trout, Orca Trout, Orca District Trout, Orca District	River Acquisition) (Project LG-7)																	
Lower Green Acquisition (Downey Farmstead) (Project LG-7)- DESIGN \$5,000,000 \$250,000 \$4,750,000 Green River Flood Control District, King Conservation District, City of areas, LWD. Altered stream flow Chinook Steelhead, Bull Trout, Orca Permitting Final design and permitting Construction \$4,750,000 Green River Flood Control District, city of areas, LWD.	ACQUSITION					Zone District												
Farmstead) (Project LG-7)- DESIGN Control District, King Conservation District, City of areas, LWD. Control District, Annel structure & Trout, Orca Permitting Trout, Orca Permitting						\$25,000												
Farmstead) (Project LG-7)- DESIGN Control District, King Conservation District, City of areas, LWD. Control District, Annel structure & Trout, Orca Permitting Trout, Orca Permitting																		
Farmstead) (Project LG-7)- DESIGN Control District, King Conservation District, City of areas, LWD. Control District, Annel structure & Trout, Orca Permitting Trout, Orca Permitting																		
Farmstead) (Project LG-7)- DESIGN Control District, King Conservation District, City of areas, LWD. Control District, Annel structure & Trout, Orca Permitting Trout, Orca Permitting																		
Farmstead) (Project LG-7)- DESIGN Control District, King Conservation District, City of areas, LWD. Control District, Annel structure & Trout, Orca Permitting Trout, Orca Permitting																		
DESIGN King Conservation complexity, riparian District, City of areas, LWD.	Lower Green Acquisition (Downey Farmstead) (Project LG-7)-	1	\$5,000,000	\$250,000	\$4,750,000			Intream	Instream flow	Chinook		Final design and permitting				Construction	\$4,750,000	
District, City of Kent, King County Rent, King County	DESIGN					King Conservation	complexity, riparian					permeening						
						Kent, King County	areas, LWD.											
						, , , , , , , , , , , , , , , , , , , ,												

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Project Name	Total cost of first three years/phases	SRFB/PSAR	Source of Funds	Primary Limiting Factors	Habitat Type	Activity Type	Primary Species	Secondary Species	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope		Likely end date
Capital Projects															

1		T 1			1	T	_									
Desimone Levee Phases 1-4 (Project LG-13)	1	\$2,844,256		KC	FCZD Altered stream flow, channel structure& complexity, riparian areas, LWD.		Instream flow	Chinook	Steelhead, Bull Trout,Orca	Design	\$80,607	Engineering, design, permitting.	\$898,673	Construction	\$1,864,976	2011
Mill Creek Floodplain Wetland and Off-Channel Habitat Rehabilitation (Project LG-7)	2	\$1,500,000	\$2	(00,000 (proposed 100,000 (20 2006); City of \$100,000 (20	CFT: Altered stream flow, 05 or channel structure& Kent: complexity, riparian 05 or areas, LWD.		Instream flow	Chinook	Steelhead, Bull Trout,Orca	Complete Design & Permitting	\$0			Construction	\$3,500,000	2014
Mill Creek - Wetland 5K	2	\$3,500,000	\$1,210,000		Altered stream flow, channel structure& complexity, riparian areas, LWD.		Instream flow	Chinook	Steelhead, Bull Trout,Orca	Construction	\$700,000	Monitoring	\$20,000	Monitoring	\$200,000	2013
Mainstem Maintenance (Project LG- 10)	1	\$2,733,347		GRFCZD, KCD, Kent, ACOE	Altered stream flow, channel structure& complexity, riparian areas, LWD.		Instream flow	Chinook	Steelhead, Bull Trout,Orca	Design Restoration Construction, Permitting	\$150,000	Construction	\$1,075,211	Complete Construction	\$1,658,136	2012
Subtotals		\$11,518,586	\$3,781,256	\$1,225,085							\$1,520,875		\$2,761,521		\$16,294,190	
Nearshore Subwatershed: Protect, sources and removing shoreline arm	noring; poc	ket estuaries, lagooi	ent transport processons, and spits; and sed	es by reconnecting sediment liment quality, particularly in E	lliott											
Bay. VSP perameters for this subwa Pier 90 Shallow Water Habitat Rehabilitation (NS-1)					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
Renabilitation (NS-1)										recimical Design		permitting				

-		_									20	12	20	13	20	14	
		Total cost of first															
Project Name	Priority Tier	three years/phases	Local Share	SRFB/PSAR	Source of Funds	Primary Limiting Factors	Habitat Type	Activity Type	Primary Species	Secondary Species	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope	Year 3 Cost	Likely end date
Capital Projects Myrtle Edwards Park Small Pocket	1	#6 000 000	ol			Loss of habitat	Noarchara hoach	Noarchara	Chinaak	Orea forage fich	Foodibility	#E00.000	Dosign and	¢750.000) Construction	#4 000 000	2015
Myrtie Edwards Park Small Pocket Beaches/Shallow Water Habitat Rehabilitation (NS-2)	1	\$6,000,000	0			Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish	Feasibility, Technical Design	\$500,000	Design and permitting	\$/50,000	Construction	\$4,000,000	2015
Elliott Bay Shoreline	1	\$56,000,000	0 unknown	unknown	unknown	Loss of habitat	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish							
Enhancements(Project NS-4)																	
Beaconsfield-On-The-Sound (project NS-11)	1	\$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		\$243,894	4 \$243,894	1	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		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 private donors	Loss of habitat,	Nearshore beach.	Nearshore.	Chinook	Orca, forage fish			<u> </u>				
Maury Island Fill Removal (NS-20)		\$280,000	0 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) - proposed for construction in 2011, funding secured	1	\$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	\$5,675,000	Construction		Monitoring	\$100,000	Construction complete in 2012, monitoring complete in 2017

											201	12	20	13	20:	14	
	Priority Tier	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	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope	Year 3 Cost	Likely end date
Capital Projects Dockton Road Removal and Feeder	2	¢17,000,000				Loss of habitat,	Nearshore	Nearshore.	Chinook	Orca, forage fish	Fooglibility						
Bluff Restoration on Vashon Island (Project NS-19)		\$17,000,000				Loss of Habitat,	embayment.	nearshore.	CHITOOK	Orca, lorage listi	Feasibility, Technical Design						
Ellisport Creek Fish Passage Improvements on Vashon Island (projet NS-9)	2	Acquisition \$20,000 Cleanup \$500,000 Culvert replacement \$500,000					Instream, riparian.		Chinook	Orca, forage fish	Acquisition	\$20,000	Cleanup	\$500,000	Culvert Removal	\$500,000	2011
						Altered stream flow.		Fish passage.									
Point Robinson	2	\$450,000	\$150,000	\$300,000	King County SWM (\$150,000)	Lost of habitat	Nearshore saltmarsh	Nearshore.	Chinook	Orca, forage fish	Feasibility, Technical Design	\$40,000	Design and permitting	\$110,000	Constuction	\$300,000	2017
Cove Creek (Project NS-7) -	1	\$510,000	\$100,000	\$410,000	King County SWM (\$100,000)	Loss of habitat	Nearshore estuary	Nearshore.	Chinook	Orca, forage fish	Feasbility and Design	\$100,000	Construction	\$410,000	Monitoring	\$20,000	2017
Raab's Lagoon Restoration	1	\$100,000	\$1,000,000	\$0	King County SWM	Loss of habitat	Nearshore estuary	Nearshore.	Chinook	Orca, forage fish	Construction (revegetation 2011 and 2012)	\$100,000	Monitoring and Maintenance		Monitoring and Maintenance		
Cross Landing - Restoration (NS- 17)	1	\$400,000	\$400,000	\$0	King County SWM (proposed)	Loss of habitat	Nearshore estuary	Nearshore.	Chinook	Orca, forage fish							
Maury Island Revegetation	2	\$500,000			King County SWM (\$10,000)	Loss of habitat	Nearshore estuary and riparian	Nearshore.	Chinook	Orca, forage fish	Construction (revegetation 2011 and 2012)	\$30,000	Construction (revegetation)	\$40,000	Construction (revegetation)	\$100,000	
Evaluate How to Improve Habitat Value of Raab's Lagoon/Pocket Estuary on Maury Island (Project NS-14)	3	\$100,000				Loss of habitat,	Nearshore embayment.	Nearshore.	Chinook	Orca, forage fish	Feasibility, Technical Design						

											20	12	20:	13	201	4	
Project Name	Priority Tier	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	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope	Year 3 Cost	Likely end
Capital Projects Marine Nearshore															Weed removal	COST	
Acquisition Projects															and revegetation	C031	
unctioning Nearshore Habitat Protection on Vashon/Maury sland- <u>Dockton(</u> Project NS-17)	2	Adequate funding secured			Conservation Futures, NOAA	Loss of habitat,	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						200
Functioning Nearshore Habitat Protection - South Shoreline Project NS -11)	1	\$7,000,000	\$2,500,000			Loss of habitat,	Nearshore beach.	Acquisition	Chinook	Orca, forage fish	Feasbility	\$125,000	Acquisition	\$2,000,000	Acquisition	\$4,500,000	201
unctioning Nearshore Habitat Protection on Vashon/Maury Island- <u>Inspiration Pt.</u> (Project NS-	2	\$500,000			Conservation Futures, NOAA	Loss of habitat,	Nearshore beach.		Chinook	Orca, forage fish	Acquisition						200
								Land acquired									
Functioning Nearshore Habitat Protection on Vashon/Maury Island- <u>Neill Pt.</u> (Project NS-17)	2	\$500,000			Conservation Futures, NOAA	Loss of habitat	Nearshore beach.		Chinook	Orca, forage fish	Acquisition						
								Land acquired									
unctioning Nearshore Habitat Protection on Vashon/Maury Island- <u>Rabb's Lagoon</u> (Project NS- 17)	3	\$100,000	unknown	unknown	Conservation Futures, NOAA	Loss of habitat	Nearshore beach.		Chinook	Orca, forage fish	Acquisition						
								Land acquired									
unctioning Nearshore Habitat Protection on Vashon/Maury Island- <u>Piner Pt.</u> (Project NS-17) Acquisition Completed!	2				SRFB	Loss of habitat	Nearshore beach.	Land acquired	Chinook	Orca, forage fish	Acquisition						
Functioning Nearshore Habitat Protection on Vashon/Maury Island- <u>NorthIlla</u> (Project NS-17)	3	Adequate funding secured			Conservation Futures, NOAA	Loss of habitat	Nearshore beach.		Chinook	Orca, forage fish	Acquisition						
								Land acquired									
Functioning Nearshore Habitat Protection on Vashon/Maury Island- <u>Pt. Heyer</u> (Project NS-17)	1	\$13,000,000	\$2,450,000		KC SWM; CFT (2008, submitted); RCO ALEA (2008, 2010 submitted; KO Park Levy (2008, 2010 submitted)		Nearshore beach.	Land acquired	Chinook	Orca	Acquisition	\$1,500,000	Acquisition	\$1,500,000	Acquisition	\$1,500,000	
Cross Landing - Acquisition (NS- 17)	1	\$800,000	\$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								\$8,690,000		\$2,790,000		\$6,720,000	
Middle Course Direction																	
liddle Green River Subwatershed: almon over a range of flow condit ediment sources to river; protect naintain regional groundwater rec	tions and a and restor	variety of locations; e e spawning and rearin	enhance natural se ng habitat in lower	diment recruitment	t by reconnecting												

											201	12	20	13	201	4	
Project Name	Priority Tier	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	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope		Likely end date
Capital Projects Middle Green River Reach	1									_							
(Projects MG 12, MG-13, MG-14, MG-15, MG-16)	1																
Porter Levee Setback and Floodplain Reconnection (Project MG-17)		\$1,500,000			\$1,000,000 KCD; \$500,000 SWM	Loss of Habitat	Floodplain, riparian	Riparian, intream flow	Chinook	Steelhead	Design & Permitting	\$250,000	Construction	\$1,000,000	Construction	\$250,000	2014
Newaukum Creek Mouth Restoration Between Creek Miles 0.0 and 4.3 (Project MG-8) - Completed!	1	\$1,175,000		\$788,581 (2004)	King County, ACOE	Riparian areas and LWD recruitmen		Riparian, intream flow	Chinook	Steelhead, bull trout	Design & Permitting	\$100,000	Construction	\$1,075,000	Monitoring/Adapt ive Management		
Newaukum Creek Restoration Between Creek Miles 0.0 and 14.3 Both Banks (Project MG-6)	-	\$300,000			\$200,000 KCD; \$100,000 SWM	Loss of Habitat	Riparian	Riparian, intream flow	Chinook	Steelhed	Construction	\$100,000	Construction	\$100,000	Construction	\$100,000	Ongoing
Duwamish and Newaukum Riparian Revegetation(Program WW-5)		\$200,000			\$200,000; SWM \$50,000	Loss of Habitat	Riparian	Riparian	Chinook	Steelhead	Construction	\$150,000	Construction	\$150,000	Construction	\$150,000	Ongoing
Setback and Removal oPautzke Levees to Reconnect the Floodplain and Allow Channel Migration near RM 32(Project MG- 18) Completed!	1	\$1,400,000		\$675,900 (2005- 2006)	Green River Floor Control Zone District \$90,000 City of Auburr \$33,000	e structure/complexit ; , n	Intream, riparian	Riparian, intream flow	Chinook	Steelhead, bull trout	Construction	\$1,225,000	Monitoring/Adapt ive Management	\$75,000	Monitoring/Adapt ive Management	\$75,000	2008
Setback and Removal of Fenster Levees _Phase 2 to Reconnect the Floodplain and Allow Channel Migration near RM 32(Project MG- 18) Construction planned for 2011/2012	1	\$600,000 - \$800,000		\$250,000 (2007)		Channel structure/complexit	Intream, riparian y	Riparian, intream flow	Chinook	Steelhead, bull trout			Design & Permitting	\$150,000	Construction	\$650,000	2010
Setback and Removal of Fenster Levees _Phase 1 to Reconnect the Floodplain and Allow Channel Migration near RM 32 (Project MG- 18) Construction completed!		\$3,500,000				Channel structure/complexit	Intream, riparian y	Riparian, intream flow	Chinook	Steelhead, bull trout			Design & Permitting	\$100,000	Construction	\$3,400,000	
Big Spring Creek Acquisition (Project MG-7) - Completed	1	\$2,115,000				Stream flow patterns. High H2O temperature.	Intream, riparian	Water quality	Chinook	Coho							

											201	12	20	13	20:	14	
Project Name	Priority Tier	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	Year 1 Scope	Year 1 Cost	Year 2 Scope	Year 2 Cost	Year 3 Scope	Year 3 Cost	Likely end date
Canital Businets																	
Capital Projects Big Spring Creek Restoration (Project MG-7)	1	\$4,079,728	\$4,019,728	\$60,000	0 KCD:	Stream flow patterns. High H2O temperature.	Intream, riparian	Water quality	Chinook	Coho	Construction	\$1,973,000	Construction	\$785,000	Construction	\$285,000	2015
Subtotals		\$20,520,000															
Totals		\$39,924,586															
Non Capital Programs-Not Prioritized																	
Lead entity coordination		\$225,000									Staffing (1 FTE)	\$75,000	Staffing (1 FTE)	\$75,000	Staffing (1 FTE)	\$75,000	Ongoing
Adaptive management and monitoring		\$600,000									Staffing (3 FTEs)	\$200,000	Staffing (3 FTEs)	\$200,000	Staffing (3 FTEs)	\$200,000	Ongoing
Nearshore Habitat Workshop		\$35,000															
Seahurst Environmental Learning Center (annual basis)		\$30,000															
Create incentives Program to Remove Failing Septic Systems on Vashon/Maury Island																	
Project Management and Public Outreach Staupadehin & Educational Outreach																	
Stewardship & Educational Outreach																	
Water Conservation Incentive Programs																	