

Pierce County Lead Entity (WRIA 10/12) 2011 3-year Work Program																							5/13/2011
Puyallup/White and Chambers/Clover Watersheds																							
Project Information and How it Relates to the Recovery Plan											Project Planning							Project Cost and Sponsor					
Project Type	Plan Category	Project Name	Project Description (brief description)	Priority tier of project	Limiting Factors	Reference for limiting factor (Recovery Plan, Chapter 3 - Habitat)	Type (HWS items - i.e. riparian, estuary, river delta, nearshore, etc.)	Type (HWS items - i.e. fish passage, instream flow, sediment)	Project Performance (restore 30 acres of floodplain)	Primary Species Benefiting	Secondary Species Benefiting	Status (Conceptual, Feasibility completed, land acquisition completed, design completed)	2011 Activity to be funded	2011 Estimated Cost	2012 Activity to be funded	2012 Estimated Cost	2013 Activity to be funded	2013 Estimated	Likely End Date	Likely Sponsor	Total Cost of Project	Local share or other funding	Source of funds (PSAR, SRFB, other)
Capital Projects																							
Habitat																							
Restoration	Capital	Boise Creek Golf Course Segment Restoration	Relocate/restore channel to historical course against south hillside.	1	1, 3, 5	Strategy Table 4: LWD, riparian restoration	Instream, riparian,	Instream, riparian	0.5 miles stream restored	Chinook and Steelhead	coho, pink, chum, cutthroat trout	Feasibility; 35% design funded in 2008 Round	Survey, Design, Engineer	\$150,000	Construction	\$2,050,000			2010	PTF, PRP, King County, Enumclaw	\$2,200,000	\$330,000	\$1,870,000
Restoration	Capital	Boise Creek fish passage project (above golf course) - Design	Create fish passage project at the cascades above the golf course on Boise Creek.	1	7	Strategy Table 4: LWD, riparian restoration	fish passage	fish passage	open up 1.2 miles of spawning habitat	Chinook and Steelhead	coho, pink, chum, cutthroat trout	Feasibility; 35% design funded in 2008 Round	Feasibility, Scoping, and permit ready design	\$100,000	Permitting and Construction	\$450,000			2010	King County, Puyallup Tribe	\$550,000	\$100,000	\$450,000
Restoration	Capital	Puyallup River Setback Levee at South Fork (RM 17.8-18.4)	Remove existing levee/construct setback levee along 0.6 miles of Puyallup River (left bank) to reconnect 45 floodplain acres, establishing natural riverine processes.	1	1,3	Strategy Table 3: setback levees, floodplain reconnection	Instream, riparian, upland, wetland	Instream wetland, riparian	0.6 miles of levee setback; 45 acres floodplain/off-channel habitat reconnected	Chinook	Steelhead, bull trout, coho, pink, cutthroat	30% design complete; 100% design funded	Design, permitting	Costs covered by 2007 PSAR; local match	Permitting, Final Plans, Funding	\$200,000	Construction	\$4,500,000	2011	Pierce County Surface Water Management	\$4,700,000	\$1,570,000	\$3,130,000
Restoration	Capital	Installation of fish screens at Electron Dam Diversion	Install inclined floor screen structure on flume at the Electron Dam diversion to reduce juvenile mortality during outmigration	1	7	Strategy Table 3: Need adequate screening on diversion canal	Instream	Fish passage, fish screen	N/A	Chinook	Steelhead, bull trout, coho, pink, cutthroat	Feasibility	Conceptual design, scoping	\$100,000	Design, permitting	\$250,000	Construction	\$5,650,000	2011	SPSSEG, Puyallup Tribe, PS Energy	\$6,000,000	\$1,000,000	\$5,000,000
Restoration	Capital	Sequalitchew Creek Beach and Riparian Restoration	Remove derelict creosote pilings and bulkhead structures, restore natural beach profile, remove invasive plants and restore native, marine riparian corridor	2	2	Strategy Table 4: WRIA 12 intertidal habitat	Nearshore Beaches	Nearshore Restoration	N/A	Chinook	coho, chum, pink and forage fish	Conceptual	Preliminary Design	\$20,000	Permitting/Construction	\$200,000	Implementation, monitoring and maintenance	\$130,000	2012	SPSSEG	\$350,000	\$20,000	\$297,500
Restoration	Capital	Titlow Estuary Restoration	Replace culvert/tidegate through BNSF railroad to improve connectivity and fish passage between Titlow lagoon and Puget Sound; enhance lagoon and beach habitat functionality	2		Fish Passage, riparian, nearshore foraging, rearing and migration	estuary, riparian and nearshore	fish passage, nearshore restoration	6 ac riparian and 5.5 acres of estuary	Chinook	Chum, coho and pink	Conceptual completed, feasibility started	feasibility and design	80,000	Final Design and permitting	150,000	Construction & Planting	7,470,000	2013	SPSSEG, People for Puget Sound, Metro Parks	\$7,700,000	\$1,155,000	SRFB, ESRP, NFWF, Metro Parks, BNSF
Restoration	Capital	East Hylebos Ravine Habitat Restoration	Extends the habitat restoration actions just north of the West Milton Nature Preserve (located on the east fork). Stream bank stabilization in the most productive area on the East Fork of the Hylebos.	Unrated	1,3	N/A	Instream, riparian, upland	Upland-wetland, sediment reduction	N/A	Chinook	coho	N/A	Scoping, design, permitting	50,000	Construction	685,000	Monitoring, maintenance	15,000	2014 - Monitoring	Friends of the Hylebos	\$750,000	\$250,000	\$500,000
Restoration	Capital	Calistoga Setback Levee	Setback levee to reconnect approximately 50 acres of floodplain to the river, allowing for floodplain habitat	1		Loss of floodplain off-channel habitat for fry colonization and juvenile rearing	Instream, Riparian, Wetland	Levee Setback to provide Side-Channel, Off-Channel, and rearing protection.	Reconnect 50 acres of floodplain to river channel.	Chinook	Bull Trout, Coho, Cutthroat Trout	Conceptual completed, working on feasibility and design	Preliminary Design (30%)	\$150,000	90% Design	\$200,000	Acquisition/Construction	N/A	2012 Funding Dependant	City of Orting	\$350,000	\$150,000	City of Orting, SRFB
Restoration	Capital	South Prairie Creek Restoration (RM 2-4.6)	South Prairie Creek instream and riparian restoration, including LWD placement, removal of rip rap streamside revegetation on over 300 acres and 2 miles of public land	Unrated		WRIA 10/12 Lead Entity strategy, Table 4 near-term priority	Instream, Riparian	Instream, Riparian	Up to 2 miles riparian restoration; placement of 6-10 LWD jams; floodplain connection	Chinook, steelhead trout	Coho, pink	Conceptual; 60% design funded			Final Design & Permitting	\$40,000	Construction	\$650,000	2011	Pierce County	\$690,000	\$100,000	Pierce Co. SWM fee; PSAR/SRFB
Restoration	Capital	South Prairie Creek Japanese Knotweed Control - Phase 1 (RM 0-10)	Survey, control and treatment of Japanese knotweed in riparian areas and floodplain of South Prairie Creek on public and private land	Unrated		WRIA 10/12 Lead Entity strategy, Table 4 near-term priority	Instream, Riparian	Instream, Riparian	Up to 10 miles of riparian restoration; 60-100 acres treated	Chinook, steelhead trout	Coho, pink	Conceptual	Conduct "top-down" survey	\$15,000	Control and Treatment	\$100,000	Control and Treatment	\$150,000	2013	Pierce County	\$265,000	\$50,000	Pierce Co. SWM fee; PSAR/SRFB

Restoration	Capital	Boise Creek Restoration (RM 1-3)	Purchase conservation easements to restore Boise Creek between RM 1 and 3. Improve aquatic/terrestrial habitat while providing increased drainage capacity.	Unrated		riparian function, LWD, sediment	Recovery Plan	Riparian	Instream, Riparian	Restore 80 acres of riparian habitat and 10,560 linear feet of stream channel, Increase fluvial meander and drainage capacity	Chinook	Steelhead, bull trout, coho, cutthroat	Landowner outreach and feasibility	Landowner outreach, Feasibility, Conceptual design, Purchase of conservation easements	\$75,000 for feasibility and conceptual design; \$250,000-\$400,000 for conservation easements	Formal design, permitting, construction (first phase)	\$1,000,000	Construction, monitoring, maintenance	\$100,000	2012	King County	\$1,575,000	\$37,500 (KC SWM, possibly additional sources to reach a total of \$60K for feasibility/conceptual design)	KC SWM, PSAR, SRFB
Restoration	Capital	White River Corridor (Pacific) Phase 1: Abernethy	Acquire 13 acres of wetland and agricultural lands to allow wetland restoration and side-channel reconnection to the mainstem White River.	Unrated		Off-channel habitat, LWD	Recovery Plan, Chapter 3	Instream, Riparian, Wetland	Instream wetland, riparian	of floodplain, remove fill, reconnect side channels, restore 3-5 acres of wetland, restore riparian vegetation, increase salmon refuge and rearing	Chinook	Steelhead, bull trout, coho, pink, cutthroat	Scoping and property appraisal	Property acquisition, outreach, design development (30%)	\$600,000	Permitting (70% design), construction	\$400,000	Monitoring and maintenance	\$50,000	2012	King County	\$1,050,000	(1) \$225,000.00 (2) \$112,500.00 (3) \$712,500.00	Conservation Futures Trust (proposed - determined early summer '09) (2) KC Parks Levy (proposed - determined)
Restoration	Capital	White River Corridor (Pacific) Phase 2: Setback Berm	Acquire 14 houses (White River Estates) in Pacific, remove the houses, restore 1000 lf of riparian buffer, construct a setback berm to provide flood protection to City of Pacific	New		Off-channel habitat, LWD, riparian habitat	Recovery Plan, Chapter 3	Instream, Riparian, Wetland	Instream wetland, riparian	Restore 1000 lf of riparian vegetation, acquire and remove development in the floodplain, create and restore side channel habitat and flood	Chinook	Steelhead, bull trout, coho, pink, cutthroat	Conceptual	Landowner negotiations and property acquisitions	\$1.5 - 7 million	Landowner negotiations and property acquisitions; Phase I construction (out of water)	\$1.5-7 million (acquisition) ; \$2 million (construction)	Phase II construction	\$2 million	2012	King County	\$7,000,000 +	(a) grant sources TBD (b) KC Flood Control District Funds 2010 - 2014	cost share TBD
	Capital	Setback Levees in and near City of Sumner Jurisdiction (White River - 24th Street; Puyallup River - Sumner Setback left bank)	After a feasibility study is used to futher a couple of the projects in and adjacent to Sumner we would like to move forward with any aquisition and construction	Unrated	1,3		Strategy Table 3: setback levees, floodplain reconnection	Instream, riparian, upland, wetland	instream, wetland, raparian	Reconnect 22 acres of floodplain to river channel.	Chinook	Steelhead, bull trout, coho, pink, cutthroat	Conceptual with preliminary feasibility coming shortly	Finalize Feasibility and start property aquisition	\$1,000,000	Design and Construction	\$2,500,000	Finish Construction	\$3,192,320	Aug 2011	Sumner, Puyallup, Pierce County	\$7,289,320	597,000 (Sumner); ? (Puyallup); ? (Pierce Co.)	PSAR, SRFB
Restoration	Capital	Chambers Bay Estuarine and Riparian Enhancement	Restore and enhance estuarine and riparian habitat within Chambers Bay, through removal of the dam, daylighting of Garrison Springs, removal of shoreline armor and fill, salt marsh/riparian plantings and addition of woody structure.	Unrated		Nearshore foraging, rearing and migration, riparian	WRIA 10/12 Salmon Habitat Protection and Restoration Chapter 4	estuary, riparian and nearshore	nearshore restoration	6 ac riparian, 115acre estuary,	Chinook	Chum, coho and pink	Conceptual completed, feasibility started	feasibility and design	\$11,670	Final Design and permitting	\$377,330	Construction & Planting	\$1,711,000	2013	SPSSEG	\$2,100,000	\$315,000	SRBD, PSAR, ESRP
Restoration	Capital	Clearwater LWD Project	Strategic placment of several large wood debris strutures/engineered log jams in the Clearwater River	1		LWD, instream habitat	WRIA 10/12 Salmon Habitat Protection and Restoration Chapter 4	instream	instream habitat restoration	up to three miles of instream habitat	Chinook, coho	pink, steelhead, bull trout and cutthroat	Conceptual	Feasibility and preliminary design	\$15,000	Final Design and permitting	\$195,000	Construction & Planting	\$440,000	2011	SPSSEG	\$650,000	\$97,500	SRFB, PSAR
Restoration	Capital	Sequalitchew Estuary Reconnection	Restore fish passage and tidal hydrology to the Sequalitchew Creek Estuary through installation of a large span bridge or trestle under the BNSF railroad across the mouth of Sequalithcew Creek	New		Fish Passage, riparian, nearshore foraging, rearing and migration	Strategy Table 4: WRIA 12 intertidal habitat	estuary, riparian and nearshore	Nearshore Restoration	32 acres of estuary	Chinook	coho, chum, pink and forage fish	Conceptual	Preliminary Design	\$20,000	Final Design and permitting	\$200,000	Construction	\$9,780,000	2013	SPSSEG	#####	\$1,500,000	SRBD, PSAR, ESRP
Restoration	Capital	Hauff Property restoration	Off-channel habitat, evaluation of site conditions, clean up site of, revegetation - Priority area in the estuary. Mouth of Hylebos Creek	Unrated	2	N/A	N/A	Nearshore embayment	off-channel habitat creation, revegetation, invasive species control	N/A	Chinook	coho	N/A	Scoping, design, permitting	\$250,000	Construction	\$2,725,000	Post-construction monitoring	\$25,000	2014 - monitoring	Friends of the Hylebos	\$3,500,000	\$2,000,000	\$1,500,000
Restoration	Capital	Olympic View Triangle - Commencement Bay	Tip of Foss and Middle waterways - salt marsh habitat - currently upland on DNR property- Eelgrass on bay side - Tim Goodman	Unrated	2	N/A	N/A	Nearshore embayment	nearshore restoration	N/A	Chinook	coho, pink, chum	Conceptual	Monitoring (Construction Complete in 2007)	\$40,000	Monitoring, maintenance	\$20,000	Monitoring, maintenance	\$40,000	Construction Complete 2007	WDNR	\$900,000	\$250,000 DNR, \$40,000 Ecology; \$500,000 NRDA	
Restoration	Capital	TransCanada setback levee	modification - Modify existing breaches and remove portions of levee on King County owned property to improve potential for overbank flow into existing side-channels	1	1, 3		Strategy Table 3: setback levees, floodplain reconnection	Instream, riparian, wetland, upland	Instream wetland, riparian	50 acres floodplain/off-channel habitat reconnected	Chinook	Steelhead, bull trout, coho, pink, cutthroat	Feasibility; permit-ready design funded in 2008 Round	Feasibility, Scoping, design	\$200,000	Property acquisition, design, and permitting	\$375,000	Construction, monitoring and maintenance	\$1,000,000	2010	King County	\$1,575,000	\$400,000	\$1,175,000

Restoration	Capital	Pocket Beach Enhancement/Nourishment Pilot: Sequelitchew to Solo Point	Target existing pocket beaches persisting waterward of the BNSF rail line between Sequelitchew Creek and Steilacoom for sediment enhancement and marine riparian planting pilot projects	1	2	WRIA 10/12 Salmon Habitat Protection and Restoration Chapter 4	riparian and nearshore	nearshore restoration	pocket beaches in a 5 mile reach	Chinook	Chum, coho and pink	Conceptual completed, feasibility started	feasibility, final design and permitting	\$109,683	Construction	\$365,610	Monitoring	\$80,000	2011	SPSSEG	\$602,300	\$90,345	\$511,955
Restoration	Capital	Commencement Bay - Puget Creek Estuary Restoration	Remove contaminated sediment, sediment replacement, softening of rip-rap shoreline with gravel/cobble mix, restore eelgrass beds, restore sand lance spawning	2	2	Strategy Table 4: WRIA 12 intertidal habitat	Nearshore beaches	Nearshore restoration	N/A	Chinook	Chum, pink, coho	Conceptual	Remedial Investigation / Feasibility Study	\$ 150,000	Design, permitting	\$ 75,000	Construction	\$1,225,000	2013	Pierce County, WDNR, PCRS	\$1,450,000	\$150,000	\$1,300,000
Restoration	Capital	Puget Creek Rearing Pond	Off-channel pond for rearing of juveniles & adult acclimatization. Just before stream goes into underground fish ladder-this area has some salt water intrusion at high tide.	2	2	Strategy Table 4: WRIA 12 intertidal habitat	Instream	Instream wetland, riparian	0.2 acres rearing habitat	Coho		Conceptual; 30% design funded	Design, Permitting	\$9,000	Construction	\$71,000	Monitoring & maintenance	\$2,000	2013 monitoring	Puget Creek Restoration Society	\$80,000	\$20,000	\$60,000
Restoration	Capital	Hylebos Creek Nearshore Restoration	NRDA alternative site. Mitigation - Construction of 2 acre restoration area. Located on the Hylebos Creek - tidal influence	Unrated	2	N/A	Nearshore embayment	Riparian, instream wetland	N/A	Chinook	coho	N/A	Construction	\$1,000,000	Monitoring	\$5,000	Monitoring	\$5,000	2013	Port of Tacoma/Tacoma	\$1,000,000		N/A
Restoration	Capital	Restoration - Hylebos Mouth	Restoration of property owned by WSDOT. Revegetation of tidal mud flats to encourage development of marsh habitat	Unrated	2	N/A	Nearshore embayment	Revegetation	N/A	Chinook	coho	N/A	Design, permitting, Acquisition, construction	\$90,000	Monitoring, maintenance	\$5,000	Monitoring, maintenance	\$5,000	2008 - construction 2010 - maintenance	Friends of the Hylebos	\$100,000	\$25,000	\$75,000
Restoration	Capital	Swan Creek restoration channel geometry at Pioneer Way	High potential for restoration according to modelling by EDT - Sediment detention pond upstream.	Unrated	1,3	N/A	Instream, riparian	Instream wetland, riparian	N/A	Coho	Chum	Conceptual		Design and Permitting	\$ 50,000	Construction	\$ 350,000		2010	Unknown	\$400,000	\$60,000	\$340,000
Restoration	Capital	Upper White - Greenwater River/Huckleberry Creek/West Fork White River	Road decommissioning and erosion control treatments (involves removing culverts, constructing cross-drain waterbars, removing hazardous fill from stream crossings and unstable slopes, and blocking roads to vehicles).	Unrated	4, 1, 3	Strategy Table 4: road management	Riparian, wetland, upland	Sediment reduction	N/A	Chinook, bull trout, steelhead	Coho, pink, cutthroat	Conceptual; several attempts for feasibility/planning in 2009 have failed	Basic road surveys for risk assessment	\$15,000	Feasibility, planning and permits for Phase I	\$100,000	Design for Phase 1	\$100,000	2015	USFS, SPSSEG, Puyallup Tribe	\$1,500,000	\$225,000	\$1,275,000
Restoration	Capital	Sequelitchew Creek Diversion and Streamflow Restoration	Re-route the Fort Lewis water treatment diversion and refit flood control structures to return flows to Sequelitchew Creek	Unrated	1, 3, 5, 6	N/A	Instream, riparian	Instream flow	N/A			Feasibility	Work with Fort Lewis to design retrofits to water treatment system	\$50,000	Design and permit	\$50,000	Construct and Revegetation restored stream channel	\$300,000	2010	SPSSEG	\$400,000	\$200,000	\$200,000
Restoration	Capital	Chambers Beach Reconstruction and Riparian Enhancement	Reconstruct a natural beach profile along Chambers Beach through removal of derelict structures, active nourishment of degraded areas and reconstruction of back beach berm where the bank is unstable. Restore a riparian corridor through removal of invasive species and planting of native vegetation.	Unrated		WRIA 10/12 Salmon Habitat Protection and Restoration Chapter 4	riparian and nearshore	nearshore restoration	1.5miles of beach, 9 ac riparian	Chinook	Chum, coho and pink	Conceptual completed, feasibility started	feasibility, final design and permitting	\$309,000	Construction	\$1,127,694	Planting	\$263,306	2013	SPSSEG	\$1,700,000	\$255,000	SRFB, PSAR, ESRP
Restoration	Capital	Implement Levee Setback Projects from the Levee Setback Feasibility Study	Implement projects from the Levee Setback Feasibility Analysis for the Puyallup River Watershed (this study identified 32 levee setback sites on the Puyallup, Carbon and White Rivers for potential future restoration to reconnect the river to the floodplain).	Unrated	1,3	Strategy Table 3: setback levees, floodplain reconnection	Instream, riparian, upland, wetland	instream, wetland, riparian	Variable acreage of floodplain reconnection per site	Chinook	Steelhead, bull trout, coho, pink, cutthroat	Conceptual	Select levee setback site		Feasibility and preliminary design	TBD	Final Design and permitting	TBD	2013	Pierce County, Sumner, Puyallup, Fife, Orting, King County	TBD		
Restoration	Capital	Narrows and Sequelitchew-Steliacoom Feeder Bluff Reconnection	Reconnect priority (historic) feeder bluffs along Nisqually to Point Defiance shoreline in the Tacoma Narrows and between Sequelitchew Creek and Steliacoom to restore lost process of sediment input. Feeder bluff reconnection could be accomplished by installing trestles under the BNSF railroad at key	New		WRIA 10/12 Salmon Habitat Protection and Restoration Chapter 4	riparian and nearshore beaches	nearshore restoration	Feeder Bluffs in 3, 2-4 mile drift cells	Chinook	Chum, coho and pink	Conceptual completed	feasibility, final design and permitting	\$300,000	Construction	1,000,000 to 10,000,000	Monitoring	\$100,000	2013	SPSSEG	#####	\$1,560,000	\$511,955

Restoration	Capital	Salmon Creek Culvert Replacement	Remove fish barriers and replace existing culverts along Salmon Creek, thereby increasing the hydraulic capacity which will sequentially reduce flooding as well as improve salmon habitat. Explicitly, the intent of the project is to design and upgrade two volumetrically inadequate culverts known as Parker Road Culvert and	New	1, 3, 4, 6, 7	N/A	instream, riparian	fish passage, instream flow, sediment reduction, riparian enhancement	replace 2 culverts, reconnect 3800 feet of stream habitat	Chinook	Chum, coho and pink	Conceptual	Design, permitting, construction	\$631,000					City of Sumner	\$631,000	\$94,650	\$536,350		
Restoration		Fish Passage, Ponce de Leon Creek	Build a fish passage on a 100 year old dam on Ponce de Leon Creek which empties into Steilacoom Lake. Coho are the primary salmon that would use the quarter mile of habitat that would be opened up. Ponce de Leon is a perennial stream fed by springs and some drainage for the Lakewood mall.	Unrated								Conceptual						South Puget Sound Salmon Enhancement Group, Al Schmauder						
	Restoration Projects	White River Knotweed Control Project Phase 1	The Pierce Conservation District is forming a partnership to collaborate across jurisdictions to remove knotweed. Immediate priorities include completing survey work in the basin, and eradicating knotweed found there. The project's plan is to: Complete surveys in White River and tributaries Begin eradication of Japanese Knotweed found in the basin, beginning at the furthest upstream occurrence Reestablish native riparian vegetation where necessary.	Unrated														12/31/2014	Pierce Co Co	530000				
Acquisition for Restoration	Acquisition/Restoration (Combination)	Matlock Farms Development Rights Purchase and In Stream Restoration	conserve this 155 acre working farm in order to preclude its conversion to non-farm uses in order to preserve the ecological values on-site and nearby. The property is in Alderton, near Puyallup, WA. 3,000 linear feet of Puyallup River frontage stretches	unrated				Type - Floodplain Restoration: Channel Connectivity /Rehabilitation/Creation - Floodplain									1/1/2015	Cascade Land Conservancy	1194000					
Acquisition for Restoration	Capital	Marine View Drive Acquisition and Nearshore restoration	In Commencement Bay in front of Marine View Drive. Create intertidal habitat adjacent to the Trustee's area. Foss Log storage - \$50K per acre	Unrated		2	Strategy Table 4: Commencement Bay inter-tidal habitat	Nearshore embayment	Nearshore Restoration	N/A	Chinook	coho, chum, pink and forage fish	Feasibility						Port of Tacoma	\$1,000,000				
Acquisition for Restoration	Capital	Puyallup River (Union Pacific) Setback Levee (RM 2.6-3.0)	Acquire up to 30 acres of floodplain and former intertidal habitat; construct setback levee and restore intertidal habitat in the transition zone for juvenile rearing		1	2	Strategy Table 3: create off-channel estuarine habitat	freshwater-estuary/transition zone	levee setback and excavation	Acquire and restore up to 30 acres	Chinook	chum, bull trout, steelhead, coho, pink	Conceptual	Acquisition	\$4,500,000	Design and permit	\$300,000	Construction	\$3,700,000	2011	Pierce County, PTF, Port of Tacoma	\$8,500,000	\$3,900,000	\$4,600,000
Acquisition for Restoration	Capital	West Hylebos acquisition	preservation, and restoration of the properties detailed in the recovery strategy. Project benefits coho and Chinook. It brings total of this restoration action to approx. 35 acres of the most productive habitat on this fork of the Hylebos.	Unrated		1,3	N/A	Instream, riparian, upland	Land protected/acquired	N/A			Conceptual	Property negotiations, Appraisals	Depends on property negotiations	Property negotiations, Appraisals, Purchases	Depends on property negotiations	Property negotiations, Appraisals, Purchases	Depends on property negotiations	2011	Friends of the Hylebos	\$1,500,000	\$500,000	\$1,000,000
Acquisition for Protection	Capital	South Prairie Creek Acquisition (RM 0-8)	Protect 60-120 acres of instream and riparian habitat along South Prairie Creek, primary tributary to the Carbon River and the most important salmonid spawning area in the Puyallup watershed		1	1, 3, 5	Strategy Table 4: protect functioning habitat	Instream, riparian, upland	Land protected/acquired	Preserve 60-120 acres	Chinook	Steelhead, bull trout, chum, coho, pink, cutthroat		Acquisition	\$400,000	Acquisition	\$400,000			2011	Pierce Co. Water Programs, Cascade Land Conservancy	\$800,000	\$200,000	\$600,000
Acquisition for Protection	Capital	Middle Puyallup River Acquisition	Acquire and restore approx. 250 acres along the Puyallup River		1		Floodplain connection, side channel access, riparian conditions and LWD	Recovery Plan, Chapter 4 - high priority areas for restoration and protection	Instream, Riparian (including floodplain, side channel and backwater habitats), Upland	Floodplain protection, off-channel access protection, riparian restoration	Chinook	BT, Coho, Chum, ST, Pink	Landowner interest secured	Acquisition and restoration	\$580,000	Acquisition, riparian restoration design, permitting and implementation	\$20,000	Follow up restoration (invasive plant control, native plant maintenance)	n/a	2011	Cascade Land Conservancy	\$600,000	\$100,000	

		Smolt trapping - White River	Operate smolt trap on the White River - \$150,000 per year - includes man on site (Initiate long-term screw trapping of White River)	Unrated							Chinook	Steelhead, coho, chum, pink, cutthroat		Install smolt trap	\$150,000	Ongoing	\$150,000	Ongoing	\$150,000	Ongoing			Tribes (PTI, MIT)	\$450,000		
		Smolt trapping - South Prairie Creek	Operate smolt trap on South Prairie Creek - \$150,000 per year - includes man on site	Unrated							Chinook	Steelhead, coho, chum, pink, cutthroat		Install smolt trap	\$150,000	Ongoing	\$150,000	Ongoing	\$150,000	Ongoing			Tribes (PTI, MIT)	\$450,000		
		Smolt trapping - Chambers Creek	Operate smolt trap on Chambers Creek - \$150,000 per year - includes manning site; monitoring also includes counting and identifying returning adult salmon	Unrated							Steelhead	Coho, chum, pink, cutthroat		Install smolt trap	\$150,000	Ongoing	\$150,000	Ongoing	\$150,000	Ongoing			WDFW, CCWC	\$450,000		
		Mud Mountain Dam mortality study	Assess the survival of adult and juvenile fish through Mud Mountain dam	Unrated																		Corps of Engineers	\$250,000			
		Fish tagging for Chinook Tracking	Fish tagging to track Chinook - trapping and tagging salmonid smolts for monitoring distribution and habitat usage and timing (POST tag) adaptive management [Increase telemetry and hydro-acoustic tagging of chinook and steelhead in system]	Unrated																		Tribes	\$90,000			
Research																										
Other																										
		Shoreline Program Updates	Update Shoreline Management Programs - will allow early adoption of updated shoreline programs. Currently Pierce County jurisdictions are not required to update until 2011.	Unrated																			Local Governments	\$800,000		
Total Non-Capital Need:																								\$4,785,000	\$528,500	\$1,105,000

