

# WRIA 8 Salmon Habitat Project List

## Cedar River

Monday, October 02, 2017

### APPLICABLE STRATEGIES LEGEND:



Protect and restore floodplain connectivity



Protect and restore cold water sources and reduce thermal barriers to migration



Protect and restore forest cover and headwater areas



Protect and restore marine water and sediment quality, especially near commercial and industrial areas



Protect and restore functional riparian vegetation



Improve juvenile and adult survival at the Ballard Locks



Provide adequate stream flow



Improve water quality



Protect and restore channel complexity



Reduce predation on juvenile migrants and lake-rearing fry



Restore sediment processes necessary for key life stages



Integrate salmon recovery priorities into local and regional planning, regulations, and permitting (SMP, CAO, NPDES, etc.)



Restore shallow water rearing and refuge habitat



Remove (or reduce impacts of) overwater structures



Restore natural marine shoreline



Continue existing and conduct new research, monitoring, and adaptive management on key issues



Reconnect and enhance creek mouths




Remove fish passage barriers






Reconnect backshore areas and pocket estuaries






Increase awareness and support for salmon recovery



Cedar River Stewardship-in-Action			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-0-21-BB		Control invasive plants and replant the riparian corridor throughout the Lower Cedar River, with a specific focus on private properties and educating landowners on ways to become streamside stewards.		 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
Yes	Lower Cedar River				
Estimated Project Costs					
Acquisition	Restoration	Total			


Restore Riparian Habitat in Reach 1			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-0-1.1-RB		Focus on knotweed control throughout the reach, as well as riparian restoration where possible, especially along the right bank. Explore additional opportunities to reduce the effects of artificial nighttime lighting beyond the mitigation requirements for the 2016 dredging project.	Habitat restoration opportunities in this reach are limited due to the flood protection requirements of the Corps 205 project. The US Army Corps of Engineers will have to be consulted on any habitat restoration done in this area. Strict restrictions on planting along levees in this area, but there may be opportunities for planting on the right bank.	 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			



Renton Senior Center Habitat Improvement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-1.1-RB		<p>Create a shallow alcove with large wood in the lawn area between the Renton Senior Center and the existing river bank (right bank). Plant the lawn with riparian vegetation.</p>	<p>Will create shallow, low velocity edge habitat with overhanging native vegetation that supports juvenile Chinook rearing and refuge from high flows in the river. Project developed through Renton’s Lower Cedar River Restoration Assessment (Site #1).</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Riparian Vegetation</p> </div> <div style="text-align: center;">  <p>Channel Complexity</p> </div> </div>
Four-Year Work Plan?	Project Location				
Yes	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			
	276000	276000			



Cedar River Trail Relocation			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-1.1-1.45-RB		<p>Relocate the Cedar River Trail along the right bank between RM 1.1 and RM 1.45 from its current riverside location to Bronson Way N. Create a shallow habitat bench in the footprint of the existing trail.</p>	<p>Will create shallow, low velocity edge habitat with overhanging native vegetation that supports juvenile Chinook rearing and refuge from high flows in the river. Project developed through Renton’s Lower Cedar River Restoration Assessment (Site #2).</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Riparian Vegetation</p> </div> <div style="text-align: center;">  <p>Channel Complexity</p> </div> </div>
Four-Year Work Plan?	Project Location				
Yes	Renton – Senior Center to Bronson Way				
Estimated Project Costs					
Acquisition	Restoration	Total			
	1230000	1230000			


Cedar Reach 2 Left Bank Vegetation Improvement Project			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-1.1-1.6-LB		Remove invasive vegetation and plant native riparian vegetation on left bank in areas where mature trees do not exist between Houser Way N and Logan Ave N. Potential for large wood placement at toe of bank in selected locations.	Relatively low Chinook benefit but also low cost, low permitting complexity, and high ecological and implementation benefits when combined with nearby site opportunities. Project refined through Renton's Lower Cedar River Restoration Assessment (Site #4).	 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
Yes	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			
	252000	252000			


Right Bank Habitat Enhancement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-1.5-RB		Remove soft surface trail and invasive vegetation on right bank (area currently fenced off) and create shallow habitat bench with large wood and native riparian vegetation where there is room to excavate without removing mature trees.	High Chinook benefits at relatively low cost and with low permitting complexity. Project identified in Lower Cedar River Restoration Assessment (Site #5).	 <p>Riparian Vegetation</p>  <p>Channel Complexity</p>
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			


Riparian Restoration in City-Owned Parks			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Restore riparian areas in city-owned parks upstream of I-405.	Work occurring from upstream of I-405 to area behind Ron Regis Park. Currently being led by Forterra in partnership with City of Renton.	 Riparian Vegetation
Project Number	CR-1.6-5.2-BB				
Four-Year Work Plan?	Project Location				
Yes	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			



Restore Shallow Water Habitat at Carco Theater			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
			Create shallow, sandy alcove; add large wood; and plant native riparian vegetation in lawn area in front of Carco Theater.	Area is heavily used for river access. An alternative could be to shift the location of the alcove upstream to the property corner, but this option could involve removing mature trees. Could offer relatively high Chinook benefit for a low cost. Project developed through Renton's Lower Cedar River Restoration Assessment (Site #6).	  Riparian Vegetation      Channel Complexity
Project Number	CR-1.7-1.8-RB				
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			



Left Bank Backwater/Alcove Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-1.9-LB		Excavate an alcove or backwater on the left bank at RM 1.85 – 1.9 to complement Tri-Park Plan site improvements. Retain mature trees, install large wood, and plant native riparian vegetation.	Could offer relatively high Chinook benefit for a low cost. Project developed through Renton’s Lower Cedar River Restoration Assessment (Site #9).	 Riparian Vegetation  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			

Reach 3 Right Bank Upland and Riparian Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-2.1-2.4-RB		Remove invasive vegetation and restore riparian buffer adjacent to Riviera Apartments. Explore opportunities to remove impervious surface area and bank hardening on site.	Apartment complex currently has extensive impervious surface area. Partial buyout would be necessary to achieve high benefits. Project refined through Renton’s Lower Cedar River Restoration Assessment (Site #8). Aligns with Cedar Corridor Plan Habitat Opportunity Area #2.	 Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			


Cedar Reach 3 Side Channel Enhancement Project			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-3.2-LB		Create flow through conditions at an existing backwater side channel. Improve habitat features within the channel and the adjacent riparian areas.	Project developed through Renton's Lower Cedar River Restoration Assessment (Site #10).	 Channel Complexity
Four-Year Work Plan?	Project Location				
Yes	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			
	488000	488000			


Maplewood Neighborhood Acquisitions and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-3.4-4.3-RB		Pursue buyouts in this neighborhood and study the feasibility of restoring the floodplain, including removal of bank hardening.	Corresponds in part with the Maplewood Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed near-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #3.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			


Restore Right Bank Side Channel			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-4.6-4.9-RB		Control invasive plants and replant native vegetation and conifers in vicinity of side channel on the right bank on property owned by Maplewood Heights Home Owners Association and City of Renton, across from golf course and downstream of landslide. Benefits could be gained by the upstream end of the side channel being reconnected; investigate whether to reconnect or allow the river to reconnect it on its own.		 Channel Complexity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			


Protect and Restore Habitat in Ron Regis Park			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-4.9-5.2-LB		Explore ways to restore habitat forming processes on the left bank adjacent to Ron Regis Park. Project elements could include removing bank armoring and installing large wood. Restoration options should include lower Madsen Creek.	Restoration in this area should be sequenced with restoration just upstream at the Elliot Bridge site.	 Floodplain Connectivity  Channel Complexity
Four-Year Work Plan?	Project Location				
No	Renton				
Estimated Project Costs					
Acquisition	Restoration	Total			






Elliot Bridge Acquisitions and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-5.2-5.6-BB		<p>Acquire parcels near the former Elliot Bridge site to enable floodplain restoration. Acquisition priorities include two parcels on the right bank just upstream of the Punnett Briggs revetment and up to four parcels on the left bank along the river and 149th Ave SE. Once property is acquired, restore the floodplain, including setting back or removing the Elliot Bridge levee, removing the old Elliot Bridge abutments and portions of 149th Ave., and potentially removing the toe rock from the Orting Hill revetment (left in place following a mitigation project). As part of this restoration, evaluate relocation of lower Madsen Creek to enhance habitat conditions in the creek.</p>	<p>Portion of area already in public ownership. Some enhancements already performed through King County Mitigation Reserves Program projects on left and right bank. Corresponds in part with the Elliot Bridge Reach Neighborhood Improvements in the Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #4, which identifies the potential for levee setbacks and riparian</p>	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Bucks Curve Buyout and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-5.7-6.3-RB		<p>Continue property acquisitions from RM 5.7 to RM 6.3 (all parcels between river and Jones Road). Once land acquired, remove Tobacco-Dotson, Lund, and Buck's Curve revetments and relocate Jones Road outside of the channel migration zone.</p>	<p>Corresponds in part to Lower Jones Road project in Flood Control District's Cedar River Capital Investment Strategy (proposed near-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #5.</p>	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Herzman Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
<b>Project Number</b>	CR-6.3-6.7-RB		<p>Acquire parcels and set back the Herzman levee to improve function of and access to floodplain on backside of levee. Additional actions include placement of large wood in the river and floodplain, planting native vegetation, and creation of side-channels and backwater areas where possible. Current acquisition efforts are focused on the parcels adjacent to the river, but over the long-term acquiring all parcels within the moderate channel migration zone would enable a larger area to be reconnected to the river.</p>	<p>Corresponds in part with the Herzman Levee Setback and Trail Stabilization project in the Flood Control District’s Cedar River Capital Investment Strategy (proposed near-term action). Portion of area already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #6.</p>	 <p>Floodplain Connectivity</p>
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
Yes	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			
		5900000			


Riverbend Floodplain Restoration - Phase II			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
<b>Project Number</b>	CR-6.5-7.4-BB-P2		<p>Acquire parcels on the right bank across from the Riverbend site and remove additional portions of the left bank levee (which cannot be removed in Phase I due to potential right bank flood risks). Also, set back the Brassfield Maxwell Guth revetment on the right bank and restore the right bank floodplain.</p>		 <p>Floodplain Connectivity</p>
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			


Riverbend Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-6.5-7.4-LB-P1		Remove or relocate portions of the levees along the Riverbend property and Cavanaugh Pond Natural Area (left bank) to allow for floodplain reconnection to benefit multiple species. Include floodplain and mainstem habitat features, side channels, etc. Acquisition partially funded by King County Mitigation Reserves Program.	Already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #7.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			
	7500000	7500000			


Riparian Buffer Protection and Floodplain Restoration at Cook/Jeffries Levee			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-7.8-8.2-RB		Pursue easement or fee acquisition to protect the riparian buffer behind the Cook/Jeffries levee; with sufficient acquisition, setback the levee and restore the floodplain.		  Riparian Vegetation      Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Scott-Indian Grove Levee Riparian Protection and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-8.2-8.8-RB		Pursue easement or fee acquisition to protect the riparian buffer behind the Scott-Indian Grove levee; with sufficient acquisition, setback the levee and restore the floodplain.	Aligns with Cedar Corridor Plan Habitat Opportunity Area #8, which identifies levee setback and side channel creation in addition to riparian enhancement.	 Riparian Vegetation  Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Left Bank Public Land Forest and Riparian Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-8.2-9.3-LB		Protect and enhance forested riparian area on left bank owned by King County.	Forterra conducting lots of planting in this area. The site is otherwise in relatively good shape and not much additional enhancement is necessary.	 Riparian Vegetation
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Remove Progressive Investment Revetment			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-8.3-8.5-LB		<p>The lower portion of the original Progressive Investment revetment has been reclaimed by the river. Evaluate removal of the remainder of the revetment to restore natural processes.</p>	<p>Property behind revetment is owned by King County Parks. While part of the facility has been reclaimed by the river, the revetment still serves to direct the river away from the Cedar River Trail and SR 169. Removal would need to be accompanied by an assessment of whether new boundary protection is needed along the trail.</p>	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Jones Reach Acquisitions and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-8.6-9.4-RB		<p>Acquire parcels on right bank of the river behind the Scott-Indian Grove Levee upstream to the Jones Road crossing. Following acquisition, restore native vegetation. Full reach acquisition could enable future larger-scale restoration activities.</p>	<p>Not a high priority area for Chinook rearing, but opportunistic acquisitions remain a possibility. Aligns with Cedar Corridor Plan Habitat Opportunity Area #8, which identifies levee setback and side channel creation in addition to riparian enhancement.</p>	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Removal of Cummins and Littlefield Revetments			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-9.4-9.8-LB		Acquire remaining parcels not in public ownership and setback or remove the Cummins and Littlefield revetments. Restore and revegetate floodplain. May need to offer protection for the parking lot owned by KC Parks, which is outside of the channel migration zone.	Portion of area already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #9, which identifies levee setback, riparian enhancement, and side channel creation as restoration options.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Belmondo Reach Acquisitions			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-9.8-10.5-RB		Continue to acquire parcels within the moderate channel migration zone or floodplain in this reach to protect functioning habitat. Implement restoration actions where needed and as opportunities become available.	Portion of area already in public ownership. No levees in reach, numerous side channels, braided reach. Aligns with Cedar Corridor Plan Habitat Opportunity Area #10, which identifies levee setback, riparian restoration, and side channel creation as restoration options.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


WPA Levee Removal			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
<b>Project Number</b>	CR-10.7-11-LB		Acquire remaining parcel not in public ownership and setback or remove the WPA levee. Restore and revegetate floodplain.	All but one needed parcel already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #11.	 Floodplain Connectivity
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			


McDonald Levee Acquisitions and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
<b>Project Number</b>	CR-11.5-11.7-LB		Acquire additional properties on left bank in vicinity of McDonald levee and remove or set back levee and restore floodplain.	Portion of area already in public ownership. SE 184th Street could be set back to open up more floodplain area. Aligns with Cedar Corridor Plan Habitat Opportunity Area #12.	 Floodplain Connectivity
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			



Byers Reach Acquisitions and Floodplain and Side Channel Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-12.2-12.8-LB		Acquire developed and undeveloped properties on right and left bank. Remove the Byer's Curve levee and restore the floodplain and side channel on left bank from ~ RM 12.5 to ~ RM 12.8.	Some of land for project already has been acquired. Final design and habitat benefits are dependent on available land area. Corresponds in part with the Byer's Road Neighborhood Improvements Phase I and II projects in the Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #14.	 Floodplain Connectivity  Channel Complexity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Lower Lions Reach Acquisitions			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-12-12.2-LB		Acquire up to 39 acres across 12 parcels on the left bank, including a large area of riparian forested floodplain between the Cedar River and SE 188th Street.	Portion of area already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #13.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			





Jan Road Levee Setback and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-13.1-13.4-RB		Acquire parcels to allow removing or setting back approximately 500 linear feet of the downstream end of the Jan Road Levee and restore the floodplain. Evaluate relocating all or portions of SE 197th Place, 218th Ave SE, and 221st Ave SE to maximize river/floodplain interactions.	Corresponds in part with the Jan Road Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed near-term action). Some of the needed land is already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Areas #15 and 16.	 <p>Floodplain Connectivity</p>
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Enhance 218th Place Side Channel			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-13.2-LB		Enhance the side channel on public land near 218th Place SE. Consider whether a connection at the upstream end is beneficial or whether enhancements to the existing backwater condition will provide the most benefit.	Connection at upstream end would require modification or removal of Rutledge-Johnson levee. Aligns with Cedar Corridor Plan Habitat Opportunity Areas #15 and 16.	 <p>Channel Complexity</p>
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Mouth of Taylor Creek Acquisitions			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-13.4-13.7-RB		Acquire approximately 40 acres of forested riparian floodplain associated with both the Cedar mainstem and the lower reach of Taylor Creek. The target parcels include approximately 1,000 feet of mainstem channel, nearly 1,300 feet of the lowermost reach and mouth of Taylor Creek, and one of the largest remaining floodplain wetlands adjacent to the mainstem.	Some land already in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #17.	 Floodplain Connectivity  Riparian Vegetation
Four-Year Work Plan?	Project Location				
Yes	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			






Rhode and Rutledge-Johnson Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-13.4-14-LB		Acquire remaining parcels along the left bank behind the Rhode and Rutledge-Johnson Levees and remove or setback the levees and restore the floodplain.	Corresponds in part with the Rhode and Getchman Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). More than half of necessary parcels are already in public ownership.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Getchman Levee Setback			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Remove or setback the Getchman levee to allow channel-floodplain interactions.			<p>Remove or setback the Getchman levee to allow channel-floodplain interactions.</p>	<p>Corresponds in part with the Rhode and Getchman Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Most or all land needed for this project appears to be in public ownership. Aligns with Cedar Corridor Plan Habitat Opportunity Area #18 and 19.</p>	 Floodplain Connectivity
Project Number	CR-13.7-14-RB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Royal Arch Reach Floodplain Reconnection and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Upon acquiring sufficient land along the right bank, remove bank armoring and reconnect and restore the floodplain in the reach.			<p>Upon acquiring sufficient land along the right bank, remove bank armoring and reconnect and restore the floodplain in the reach.</p>	<p>Aligns with Cedar Corridor Plan Habitat Opportunity Area #20 and 21.</p>	 Floodplain Connectivity
Project Number	CR-14-15-RB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Royal Arch Reach Acquisitions			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Acquire floodplain properties for future floodplain reconnection and restoration, from SR 169 to Hwy 18.	Some land already in public ownership (effort being led by Seattle Public Utilities). Aligns with Cedar Corridor Plan Habitat Opportunity Area #20 and 21.	 Floodplain Connectivity
CR-14-15-RB					
Four-Year Work Plan?					
Project Location					
Yes					
King County					
Estimated Project Costs					
Acquisition	Restoration	Total			


Dorre Don Side Channel Enhancements			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number			Enhance protected side channels as needed in Reaches 13 and 14. Focus should be on invasive treatment and revegetation, as the channels themselves are in relatively good condition and function well.	Corresponds in part with the Rafter's Park - Dorris Creek Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #23, 24, and 25.	 Channel Complexity
CR-15.3-16.5-BB					
Four-Year Work Plan?					
Project Location					
No					
King County					
Estimated Project Costs					
Acquisition	Restoration	Total			


<b>Dorre Don Meanders Reach Acquisitions</b>			<b>Description</b>	<b>Opportunities, Constraints, and other Considerations</b>	<b>Applicable Strategies</b>
<b>Project Number</b>	CR-15.3-16.5-BB		Acquire rural residential, riverfront parcels from Hwy 18 to the Cedar River Trail bridge at RM 16.5. Includes an extensive floodplain riparian forest and numerous valley floor spring-fed features, such as side channel, stream, and oxbow habitats.	Corresponds in part to Rafter's Park - Doris Creek Neighborhood Improvements project in Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #23, 24, and 25.	 Floodplain Connectivity  Forest Cover   Channel Complexity
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
Yes	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			
<b>Protect Riparian Forest and Side Channel at RM 15</b>			<b>Description</b>	<b>Opportunities, Constraints, and other Considerations</b>	<b>Applicable Strategies</b>
<b>Project Number</b>	CR-15.5-LB		Protect forested riparian habitat and a side channel just upstream of Hwy 18 and Cedar River Trail bridge.		 Riparian Vegetation  Channel Complexity
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			


Banchero Barnes Revetment Removal and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-15.7-15.8-RB		Acquire property along Dorre Don Way, SE 224th St, SE 225th St, and SE 226th St to enable removing the Banchero Barnes revetment and restoring the floodplain and side channel in this area.	Corresponds in part to Rafter's Park - Doris Creek Neighborhood Improvements project in Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #23.	 Floodplain Connectivity  Channel Complexity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Doris Creek Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-15.8-16.2-RB		Acquire easements or fee and restore Doris Creek along Dorre Don Way SE.	Corresponds in part to Rafter's Park - Doris Creek Neighborhood Improvements project in Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #25.	 Channel Complexity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Lower Dorre Don Area Acquisitions and Floodplain Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-16.2-16.5-RB		Acquire developed properties along Lower Dorre Don Way and modify levees and restore floodplain where feasible (right bank).	Corresponds in part with the Dorre Don Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed medium-term action). Aligns with Cedar Corridor Plan Habitat Opportunity Area #26; could be expanded to include #27.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			



Orchard Grove Buyouts and Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-17-17.6-RB		Pursue buyouts in the Orchard Grove neighborhood and restore floodplain where possible.	Aligns with the Orchard Grove Neighborhood Improvements project in the Flood Control District's Cedar River Capital Investment Strategy (proposed long-term action). Corresponds to Cedar River Corridor Plan Habitat Opportunity Area #28.	 Floodplain Connectivity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Left Bank Protection in Reach 15			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Explore protection of left bank forested floodplain area adjacent and upriver of property already in King County ownership in this reach.					 <p>Riparian Vegetation</p>
Project Number	CR-17.1-17.4-LB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Riparian Restoration Downstream of BN Nose			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Restore the riparian corridor downstream of the BN Nose.					 <p>Riparian Vegetation</p>
Project Number	CR-17.6-18.1-LB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			






<b>Protect Left Bank Floodplain, Downstream of BN Nose and Upstream of Orchard Grove Revetment</b>			<b>Description</b>  Protect the floodplain along 244th Avenue SE.	<b>Opportunities, Constraints, and other Considerations</b>  High quality habitat and connected to river. Could benefit from protection. Conservation easement may be sufficient.	<b>Applicable Strategies</b>   Floodplain Connectivity
<b>Project Number</b>	CR-17.7-18.3-LB				
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			



<b>Increase Fish Access and Off-Channel Habitat in Lower Rock Creek</b>			<b>Description</b>  Explore improving fish passage in lower Rock Creek and evaluate feasibility of increasing off-channel habitat for juvenile rearing.	<b>Opportunities, Constraints, and other Considerations</b>  There is high quality riparian habitat in reach now, which should remain intact. Need to evaluate whether connecting left bank wetland in Reach 1 to channel would adversely affect hydrology of Rock Creek.	<b>Applicable Strategies</b>   Channel Complexity  Passage Barriers
<b>Project Number</b>	CR-18.5-LB-P2				
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	King County				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			


Enhance Wingert Side Channel			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Side channel located on left bank, upper end of reach. Currently connected only at higher flows (1000 cfs+); evaluate connecting upper end of channel at lower flows (200-300 cfs).			<p>Property is in King County ownership.</p>	 <p>Channel Complexity</p>	
Project Number	CR-20.1-20.4-LB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Cedar River Trail Site 8 Revetment Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Explore restoration options at CRT 8 revetment, including full or partial removal to reconnection the river and floodplain.			<p>Aligns with Cedar River Corridor Plan Habitat Opportunity Area #30.</p>	 <p>Floodplain Connectivity</p>	
Project Number	CR-20.5-20.6-LB				
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			


Reconnection of Wetland 69 and CRT 9 Revetment Removal			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-21.1-21.3-RB		Reconnect wetland 69 (oxbow) to river and remove all or portions of CRT 9 Revetment. Additional acquisition would be needed, and trail would need to be relocated behind wetland.	Need further input about feasibility and potential benefit - location of trail would make this very costly.	 Channel Complexity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Landsburg Reach Acquisitions			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-21-22-BB		Acquire rural residential, riverfront parcels, including forested floodplain and areas of unarmored, steep bank that contribute beneficial gravels to the river.		  Forest Cover      Channel Complexity
Four-Year Work Plan?	Project Location				
No	King County				
Estimated Project Costs					
Acquisition	Restoration	Total			

Upper Cedar River Riparian Enhancement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-21-34.5-BB		<p>Enhance riparian conditions on both sides of the river. Enhancement should occur through planting native vegetation and conducting ecological thinning to advance the seral stage of the riparian forest to provide improved wood recruitment, riparian food sources, and cover.</p>		 <p>Riparian Vegetation</p>
Four-Year Work Plan?	Project Location				
No	City of Seattle Municipal Watershed				
Estimated Project Costs					
Acquisition	Restoration	Total			
Rock Creek Large Wood Placement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
Project Number	CR-24.7-RB		<p>Add large wood to lower 2700 meters of Rock Creek.</p>	<p>Some wood placements already complete.</p>	 <p>Channel Complexity</p>
Four-Year Work Plan?	Project Location				
No	City of Seattle Municipal Watershed				
Estimated Project Costs					
Acquisition	Restoration	Total			

Taylor Creek Confluence Restoration			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
<b>Project Number</b>	CR-30.4-LB		Taylor Creek is the largest tributary to the Cedar River in the upper watershed, with about 0.5 mile of habitat accessible to fish (natural barrier). Restore the mouth of Taylor Creek by enhancing riparian vegetation and adding large wood.		 Channel Complexity
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	City of Seattle Municipal Watershed				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			

Lower Taylor Creek Railroad Trestle and Road 9 Bridge Replacement			Description	Opportunities, Constraints, and other Considerations	Applicable Strategies
<b>Project Number</b>	CR-30.4-LB-P2		The railroad trestle and Road 9 bridge confine the lower portion of Taylor Creek. Remove the railroad bridge and remove or reconstruct the Road 9 bridge to open up and increase 0.5 miles of large stream habitat.		 Channel Complexity
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	City of Seattle Municipal Watershed				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			

<b>Steele Creek Bridge Improvement and Road Decommissioning and Improvement</b>			<b>Description</b>  This reach has roads adjacent to the river which contribute sediment (through erosion) directly to the river. Roads that should be considered for improvement include Road 10, 20 and 12. The Steele Creek bridge should be reconstructed at the same time as any road improvements. The bridge should be improved to reduce riparian confinement, and coupled with efforts to limit fine sediment inputs through revegetation and other riparian enhancements.	<b>Opportunities, Constraints, and other Considerations</b>	<b>Applicable Strategies</b>   Channel Complexity
<b>Project Number</b>	CR-32.6-RB				
<b>Four-Year Work Plan?</b>	<b>Project Location</b>				
No	City of Seattle Municipal Watershed				
<b>Estimated Project Costs</b>					
<b>Acquisition</b>	<b>Restoration</b>	<b>Total</b>			