King County

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

September 30, 2014

FCD Resolution

Proposed No. FCD2014-11.1 **Sponsors**

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; authorizing the expenditure of District funds for projects and activities in Water Resource Inventory Areas 7 (the King County portion), 8, 9 and 10 (the King County portion).

WHEREAS, the King County Flood Control Zone District's ("District") comprehensive plan prioritizes expanded partnerships and collaborations with watershed forums; and

WHEREAS, the District's comprehensive plan emphasizes the consideration of fish and wildlife habitat when managing flood-risk; and

WHEREAS, the District seeks to protect public safety and promote the recovery of native salmon species; and

WHEREAS, the District adopts an annual work program, budget, operating budget for King County, capital budget, and six-year capital improvement program pursuant to chapter 86.15 RCW; and

WHEREAS, the District desires to continue funding watershed resource inventory area ("WRIA") activities and projects, that are identified using a process for awarding WRIA grants in which the WRIA forums make grant recommendations to the District and the King County water and land resources division administers the grant processes; and

WHEREAS, in establishing the District's 2014 budget, the District provided $4,023,674 in funding for projects and activities in WRIA 7 (the King County portion), WRIA 8, WRIA 9 and WRIA 10 (the King County portion); now, therefore

BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

Section 1. The Board authorizes the funding of water quality and water resources and habitat restoration projects and activities, as follows:

A. WRIA 7 (King County portion) Snoqualmie Forum 2014 - $798,862, as shown on Attachment A of this resolution;

B. WRIA 8 Lake Washington -Cedar-Sammamish Watershed 2014 - $1,294,558 with carryover to 2015 of $225,283, as shown on Attachment B of this resolution;

C. WRIA 9 Green-Duwamish Watershed 2014 - $1,508,845, as shown on Attachment C of this resolution; and

D. WRIA 10 (King County portion) Puyallup & Chambers-Clover Watersheds 2014 - $207,120, as shown on Attachment D of this resolution.

FCD Resolution was introduced on and passed by the King County Flood Control District on 9/29/2014, by the following vote:

Yes: 9 - Mr. Phillips, Mr. von Reichbauer, Mr. Gossett, Ms. Hague, Ms. Lambert, Mr. Dunn, Mr. McDermott, Mr. Dembowski and Mr. Upthegrove
No: 0
Excused: 0

KING COUNTY FLOOD CONTROL DISTRICT
KING COUNTY, WASHINGTON

Reagan Dunn, Chair

ATTEST:

Anne Noris, Clerk of the District

Attachments: A. WRIA 7 (King County portion) Snoqualmie Forum 2014, B. WRIA 8 Lake Washington -Cedar-Sammamish Watershed 2014, C. WRIA 9 Green-Duwamish Watershed 2014, D. WRIA 10 (King County portion) Puyallup & Chambers-Clover Watersheds 2014

A. WRIA 7 (King County portion) Snoqualmie Forum 2014 Cooperative Watershed Manangement Funding List

WRIA	Project Name	Project Sponsor	Project Description	Matching Funds	CWM Request
7	2015 Snoqualmie Restoration and Project Assistance Program	King County WLRD	King County will provide project development assistance and regional coordination to implement the Snohomish River Salmon Conservation Plan in the King County portion of WRIA 7. Direct project assistance will include design review, site visits, grant writing and project coordination.	$17,456.00	**$100,000**
7	Raging River Knotweed Control, Final Phase	Mountains to Sound Greenway Trust	Final control of invasive knotweed along the Raging River and re-establish native vegetation through the floodplain and riparian corridor.	$ 10,000.00	**$ 40,000.00**
7	Camp Korey Riparian Restoration and Water Quality Improvement: Phase I	Stewardship Partners	Restore 3,000+ feet of riparian habitat along the mainstem Snoqualmie River.	$ 14,001.00	**$ 43,404.56**
7	Tolt-MacDonald Park Riparian Habitat Restoration Phase II	Snoqualmie Tribe	Implement at least a 5-acres of invasive plant control, establish 3.5 acres of native riparian vegetation, monitor success, as well as involve the public through community education and involvement.	$ 54,627.40	**$ 35,775.00**
7	Cherry Creek - design and construct	Sound Salmon Solutions	Remove 350 feet of riprap , install habitat features, create a habitat island at the mouth of the creek and create a farm pad with the dredged materials for the property owner.	$ 289,571.00	**$ 100,000.00**
7	Snoqualmie River Juvenile Salmon Outmigration Monitoring	Tulalip Tribes	Continue the monitoring of juvenile salmon outmigration in the Snoqualmie River by operating the screw trap located near Duvall to better understand our restoration progress.	$ 96,099.66	**$ 80,000.00**
7	Effects of Large Wood on a thermally stressed stream ecosystem	King County WLRD Science Section	Investigate the temperature and fish benefits of increased habitat complexity around an existing large wood installation that was undertaken in the Raging River in 2009.		**$ 78,260.21**
7	Snoqualmie Valley Watershed Education and Stewardship Project	Nature Vision	Deliver 150 hands-on, watershed education programs to the Riverview and Snoqualmie Valley School Districts. 10 education and stewardship projects will take place with field trips incorporating invasive plant removal and/or native planting.	$ 4,843.08	**$ 30,496.00**
7	Bunce Bank Restoration - Griffin Creek	Adopt-A-Stream Foundation	Stream restoration on a King County-owned Griffin Creek property will remove 180 feet of streambank armoring and improve 0.66 acres of habitat.		**$ 79,488.00**
7	Duvall Village Open Space	City of Duvall	Purchase 6.67 acres for permanent habitat and floodway protection. The parcel is a Category II wetland in the Snoqualmie River floodplain and would become part of the City's river 92 acres open space system.	$ 14,500.00	**$ 14,500.00**
7	Upper Snoqualmie Knotweed Control 2015	King County WLRD Noxious Weeds Unit	Continued control of knotweed in the riparian ecosystem in the Upper Snoqualmie River.	$ 25,206.35	**$ 63,332.00**
7	Tollgate Farm E. Bookend Weed Control Project, Final Phase	Mountains to Sound Greenway Trust	Conclude the initial invasive weed control and restoration efforts along the South Fork Snoqualmie River at the 103 acre forested Tollgate Farm East Bookend.	$ 20,000.00	**$ 80,000.00**
7	Restoration Ecology Youth Stewards	Sound Salmon Solutions	Implement education and outreach activities related to riparian habitat and the benefits of riparian ecosystems in the South Fork Skykomish River in King County.		**$ 16,096.00**

7	Thayer Creek Culvert Replacements – Feasibility Study and Design	City of Duvall	Conduct feasibility studies, design and permitting for the replacement of two culverts along Thayer Creek in Duvall which are identified as migration barriers to coho salmon.		$ 37,510.00
			Total Match Leveraged	$546,304	
			Recommended CWM Grant Request Total		**$798,862**

B. WRIA 8 Lake Washington-Cedar-Sammamish Watershed 2014 Cooperative Watershed Management Funding List

8	Issaquah Basin Knotweed Control and Reforestation, Phase II	Mountains to Sound Greenway Trust	Continuation of a multi-year project to remove knotweed and reforest the riparian zone of Issaquah Creek and its tributaries.	**$50,000**	**$50,000**
8	Calkins Point Shoreline Restoration	City of Mercer Island	Restore the shoreline at Calkins Point by creating a gently sloping pocket beach with large woody debris and native shrubs and trees.	**$177,250**	**$150,000**
8	Little Bear Creek Knotweed Control and Reforestation, Phase II	Mountains to Sound Greenway Trust	Conduct knotweed surveys, perform invasive species control, and plant native vegetation along the lower two miles of Little Bear Creek.	**$10,000**	**$30,000**
8	Juniper Street Park - Issaquah Creek Restoration Design	City of Issaquah	Preliminary and final design and permitting for instream, floodplain, and riparian restoration along Issaquah Creek.	**$0**	**$130,000**
8	Issaquah Creek Restoration at Lake Sammamish State Park	Mountains to Sound Greenway Trust	Restore approximately 3.5 acres of riparian habitat along Issaquah Creek at Lake Sammamish State Park, including invasive plant removal and planting native trees and shrubs.	**$16,500**	**$50,000**
8	Beaux Arts Shoreline Restoration, Phase III	Western Academy of Beaux Arts	Lay back shoreline armoring and construct a cove of native substrate, supplemented with riparian plantings and lateral log installations.	**$0**	**$161,000**
8	Issaquah Creek Conservation	King County	Acquire 11 acre parcel with 900 feet of Issaquah Creek frontage to enhance and widen the riparian buffer.	**$260,000**	**$260,000**
8	Sammamish River Corridor Enhancement	Snoqualmie Tribe	Enhance 1.5 acre wetland/marsh habitat along river, control 5 acres of invasive plants, establish 3.5 acres of riparian vegetation, and build awareness and support for future stewardship.	**$42,658**	**$58,875**
8	Fish In / Fish Out Monitoring	King County	Continue the long-running effort in WRIA 8 to monitor Chinook salmon status and trends, which provides information to support capital project development and guides plan implementation.	**$97,000**	**$299,965**
8	Beach Naturalist Program	Seattle Aquarium	Train volunteer naturalists to work on beaches educating citizens about the vital role of the marine nearshore for salmon and to provide information on ways to protect the nearshore environment.	**$67,996**	**$13,200**
8	Mountains to Sound Forests and Fins Education Program	Mountains to Sound Greenway Trust	Support science-based curriculum for 4th - 12th grade students that provides classroom instruction on salmon habitat needs, a field study trip, and a hands-on restoration event.	**$2,500**	**$7,500**
8	Cedar River Salmon Journey	Friends of the Cedar River Watershed	Conduct interpretive programs at salmon viewing locations in the Cedar River Watershed and at the Hiram Chittenden Locks to educate citizens about salmon ecology and watershed health.	**$75,406**	**$38,422**

8	Salmon-Safe Puget Sound Urban Outreach	Stewardship Partners	Partner with Built Green and King County to provide Salmon-Safe education to land developers in the City of Redmond.	**$15,369**	**$16,000**
8	Salmon Watchers	King County	Educate and train citizen volunteers to document salmon presence in community streams and provide targeted outreach on salmon habitat conservation at key locations in WRIA 8.	**$35,532**	**$29,596**
				Total Match	$850,211
			Recommended CWM Grant Request Total		**$1,294,558**
			Requested CWM Carryover to 2015		**$225,283**

C. WRIA 9 Green-Duwamish Watershed 2014 Cooperative Watershed Management Funding List

WRIA #	PROJECT NAME	PROJECT SPONSOR	PROJECT DESCRIPTION	MATCHING FUNDS	CWM REQUEST
9	Vashon Maury Island Priority Nearshore Assessment and Implementation	Vashon Maury Island Land Trust	The Land Trust, working with King County, will advance the West Shoreline of Entrance to Quartermaster Harbor project. Funding will be used for landowner outreach and restoration scoping to remove up to 500 feet of bulkhead in front of feeder bluffs and two small creeks.	$1,400	**$19,500**
9	Puget Creek Backyard Watershed Restoration	Puget Creek Watershed Alliance via Sustainable West Seattle	Invasive plant removal and native plant restoration of backyard properties and adjacent right-of-ways in the Puget Creek watershed. The goal is to improve water quality and increase awareness and stewardship of property owners in the Puget Creek watershed, a tributary to the Duwamish River.	$0	**$5,500**
9	Porter Levee Setback	King County DNRP	The project will remove a 1,300 linear-foot rock levee in the Porter Levee Natural Area to facilitate the reconnection of 45 acres of the floodplain to the river, installing log structures in the floodplain, facilitating the creation of an off-channel stream, facilitating the formation of 10 pools, and planting 10 acres of floodplain with native trees and shrubs. The project would also include constructing protection measures along a King County road to prevent evulsion and erosion. This is a Corps of Engineers ERP project.	$5,200,000	**$300,000**
9	Mill Creek/Green River Confluence - Leber Construction	City of Kent	This project will construct a floodplain wetland off of Mill Creek, providing 1.8 acres of floodplain habitat below the ordinary high water mark and 5.4 acres below the 100-year flood height provide refuge habitat for juvenile salmonds and flood storage.	$1,390,007	**$787,846**
9	WRIA 9 Capital Implementation/ Outreach and Communication Products	WRIA 9	Funding would support the Green/Duwamish Habitat Project and Program Coordination, including coordination of priority capital projects and programs. This function supports the resources, tools, and evaluation needed for capital improvement implementation, outreach and education, and implementation of a community-based marketing strategy.	$440,000	**$225,000**
9	Improving Watershed Health Environmental Education	Environmental Science Center	This program will deliver programs and engaging activities, focusing on teaching students and the community about the concerns with watershed health and salmon recovery. These programs and events ask participants to take personal responsibility for their watershed by making positive behavior changes.	$51,202	**$30,000**
9	Beach Naturalist Program	Seattle Aquarium	The Beach Naturalist program is a public education and outreach program that uses local citizen volunteers to teach the general public about the importance of the nearshore environment.	$60,196	**$21,000**
9	Green River Smolt Trap	Washington Department of Fish and Wildlife	This funding will contribute towards operation of the Green River screw trap. The focus of this project is to estimate the number of naturally-produced Puget Sound Chinook originating from this river system and is part of a long-term monitoring effort.	$60,196	**$45,000**

9	Monitoring Baseline Conditions - Vegetation, Shorelines, and Shallow Water Habitat	King County DNRP	The intent is to track of key salmon attributes affecting salmonids which are identified in the WRIA 9 Habitat Plan. The first product is to expand current land cover/vegetation mapping efforts from the Lower Green River corridor to the Duwamish River. A second effort will create a data layer representing marine shoreline fill that has been placed for development or associated with armoring along the WRIA 9 marine shoreline. The third task is to develop a methodology to map the existing extent of shallow water habitat in the Duwamish, a critical habitat component for juvenile Chinook salmon, in collaboration with the Port of Seattle and other WRIA partners.	$77,999	**$40,000**
9	Programmatic Survey	WRIA 9	Conduct a survey to determine which programs and projects in the WRIA 9 Salmon Habitat Plan are being implemented by our partners and cities—with a particular focus on shoreline armoring and its impact on salmon habitat.	$0	**$25,000**
9	Green River Chinook Productivity Analysis	Washington Department of Fish and Wildlife	This project will analyze the long term time series of Chinook salmon productivity from the WDFW smolt trap. In particular, we will aim identify flow metrics that are both positively and negatively correlated with Chinook salmon productivity.	$10,000	**$10,000**
			Total Match Leverage	$7,291,000	
			Recommended CWM Grant Request Total		**$1,508,846**

D. WRIA 10 (King County portion) Puyallup & Chambers-Clover Watersheds 2014 Funding List

10	White River Juvenile Salmon Production Assessment Project	Puyallup Tribe of Indians	Monitor the outmigration of juvenile salmon on the White River to establish abundance estimates, run timing and biological characteristics for ESA listed Spring Chinook and other salmon species. The eight-foot screw trap will be built, installed and fished with two temporary employees hired by the Puyallup Tribe of Indians.	$19,451	**$150,000**
10	Middle Boise Creek Restoration - Vanwierengen	King County DNRP	Fund 50% of the cost of a conservation easement acquisition in order to restore a portion of Middle Boise Creek. The full restoration project (estimated cost $686,000) would expand and restore juvenile salmonid rearing habitat by creating additional channel area, placing instream LWD, and enhancing riparian buffers to benefit spring and fall-run Chinook, steelhead, bull trout, and other salmonid species.	$25,000	**$25,000**
10	White River Spring Chinook Radio Telemetry Project	Puyallup Tribe of Indians	Use radio telemetry to track the spawning distribution and success of 200 adult chinook which will be tagged at the Buckley Fish trap on the White River. This project will identify the extent of pre-spawning mortality in spring Chinook transported past Mud Mountain Dam.	$113,609	**$32,120**
				Total Match Leverage	$158,060
			Recommended CWM Grant Request Total		