



# KING COUNTY

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

## Signature Report

### FCD Resolution

**Proposed No.** FCD2020-19.1

**Sponsors**

1                   A RESOLUTION relating to the operations and finances of  
 2                   the King County Flood Control Zone District; authorizing  
 3                   the expenditure of District funds for projects and activities  
 4                   in accordance with the Flood Reduction Grants.

5                   WHEREAS, the King County Flood Control Zone District ("the District") adopts  
 6                   an annual work program, budget, operating budget for King County, capital budget and  
 7                   six-year capital improvement program pursuant to chapter 86.15 RCW, and

8                   WHEREAS, in 2014, the District created the Flood Reduction Grant fund to  
 9                   provide grant funding for projects with flood reduction benefits, including, but not  
 10                  limited to, surface water overflows, near shore flooding, lake flooding due to outflow  
 11                  blockage, or the clearance of clogged agricultural drainage systems, and

12                  WHEREAS, the District desires to continue funding projects in the Flood  
 13                  Reduction Grant fund, and

14                  WHEREAS, in establishing the District's 2020 budget, the District provided  
 15                  \$3,343,574 in funding in the Flood Reduction Grant Fund, and

16                  WHEREAS, a selection committee composed of the director of the water and land  
 17                  resources division of the King County department of natural resources and parks, the  
 18                  District's executive director and a former Burien city council member reviewed the 2020  
 19                  applications for grant funds and made a recommendation regarding them to the District,

FCD Resolution

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20 and

21 WHEREAS, the District's executive committee reviewed the selection  
22 committee's recommendations, and

23 WHEREAS, based on the recommendation of the selection committee, as  
24 considered and modified by the District's executive committee, the board of supervisors  
25 desires to approve the 2020 grant fund applications and projects;

26 NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF  
27 SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:

28 SECTION 1. The board of supervisors approves the 2020 King

FCD Resolution


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29 County Flood Reduction Fund Grant Projects described on Attachment A  
30 to this resolution.  
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FCD Resolution was introduced on and passed by the King County Flood Control District on 9/9/2020, by the following vote:

Yes: 9 - Ms. Balducci, Mr. Dembowski, Mr. Dunn, Ms. Kohl-Welles, Ms. Lambert, Mr. McDermott, Mr. Upthegrove, Mr. von Reichbauer and Mr. Zahilay

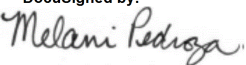
KING COUNTY FLOOD CONTROL ZONE  
DISTRICT  
KING COUNTY, WASHINGTON

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Dave Upthegrove, Chair

ATTEST:

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Melani Pedroza, Clerk of the Board

**Attachments:** A. 2020 Flood Reduction Grant Recommendations

## Attachment A - 2020 Flood Reduction Grant Recommendations

APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Bellevue, City of	<i>148th Ave SE South of Main St. Flood Control</i>	Conduct a site assessment and initiate preliminary design of best drainage treatments to reduce roadway flooding on 148th Avenue SE and improve high water flow capacity for Larsen Lake/Lake Hills Greenbelt to Kelsey Creek where it floods 148th Avenue SE.	Kelsey Crk/ Mercer Slough/WRIA 8	6	\$ 400,000	\$ 40,000	Include on FCD CIP List
Delridge Neighborhoods Development Association	<i>Delridge Wetland Restoration &amp; Stewardship</i>	This project involves restoring an urban wetland, constructing a system of bioswales to intercept storm water before it enters the wetland, constructing pathways to provide public access to the park and developing an outdoor classroom for local students. To decrease flooding in this neighborhood, DNDA continues to work in partnership with SDOT, SPU to improve existing green storm water infrastructure (gsi) and create a safe route to school connection between Delridge Wetland Park and K-8 STEM School at Louisa Boren.	Longfellow Creek/ WRIA 9	8	\$75,346	\$299,466	\$80,000
Drainage Improvement District #7	<i>Levee Rebuilding in Cherry Valley - Design, Permits and Construction, Phase B</i>	This proposal builds on completed levee project elements -- the feasibility phase and the first phase of construction work (Phase A) on the first levee segment. This second phase of construction (Phase B) will be coordinated with the nearby Cherry Creek Restoration Project by Wild Fish Conservancy. The levee project will include final design, permit acquisition, and constructed levee improvements along about 2,000 feet of the left bank of Cherry Cheek.	Cherry Creek/ WRIA 7	3	\$398,000	\$250,000	\$325,000
Drainage District #13	<i>Repair Main Drainage Ditch</i>	The District 13 main drainage ditch was originally built in 1921. The rockery needs repair due to erosion and collapse over time. Grant money will be used to repair & restore approximately 10,000 sq. ft. of the most critical portion of this ditch and ensure continued water conveyance through the plateau of District 13, (the "Krain Valley").	Bass & Beaver Lakes/ WRIA 9	9	\$300,704	\$0	\$15,000
ECOSS	<i>Green-Duwamish Business Green Stormwater Infrastructure Solutions</i>	ECOSS will provide Green Stormwater Infrastructure technical assistance and construction support to five manufacturing or commercial properties in the Duwamish Valley, resulting in reduced flooding, polluted runoff and sewer overflows in the area. This builds on successes at the Equinox GSI demonstration site.	Duwamish River Watershed / WRIA 9	8	\$100,000	\$60,000	\$100,000

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APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
<b>Enumclaw, City of</b>	<i>Battersby Culverts Replacement</i>	This project will replace two aging culverts that drain a large area of the City of Enumclaw. The existing culverts are failing and cause frequent flooding between SR 410 and Battersby Avenue. A supplemental benefit of this project are improvements to fish passage in Watercress Creek.	Green River/ WRIA 9	9	\$225,685	\$436,825	\$150,000
<b>Federal Way, City of</b>	<i>S. 356th St. Culvert Replacement</i>	This project will replace two failing 48" CMP culverts, listed as a partial WDFW fish barrier, in conjunction with the street widening of S 356th St. The culverts are under a critical east-west arterial for South King County and Northwest Pierce County residents, as well as Federal Way residents. This location has a history of flooding, overwhelming culvert capacity during high intensity rainfall events.	Hylebos Creek/ Puget Sound/ WRIA 10	7	\$200,000	\$167,500	\$200,000
<b>Issaquah, City of</b>	<i>E. Lake Sammamish Parkway - 56th St. to 51st St. Drainage Improvements Construction</i>	The existing stormwater conveyance along East Lake Sammamish Parkway between SE 56th Street and SE 51st Street is underperforming, and causing street flooding. The City will upsize two culverts, one under SE 51st Street and one under the East Lake Sammamish Trail to improve ditch conveyance and hydraulic capacity, ultimately reducing the likelihood of flooding along this corridor. The City will also remove invasive species in the channel, plant natives, and improve conveyance pipes and catch basins. This will reduce the ongoing maintenance currently required to keep the ditch system functioning while also improving fish habitat and enhancing an active stream and wetland system.	Park Hill Crk Drainage Basin/ WRIA 8	3	\$500,000	\$1,385,000	\$200,000
<b>King County DNRP, Parks &amp; Recreation Division</b>	<i>Derby Creek Flood Reduction and Habitat Enhancement</i>	Alleviate seasonal flooding in the Northshore Athletic Fields by reconstructing approximately 800 feet of sediment-laden stream channel and replacing a failing, undersized, fish barrier culvert under the Sammamish River Trail and another in the athletic fields. Similar stream channel reconstruction has already occurred in Derby Creek upstream. This project would complete the downstream portion of Derby Creek connecting it all the way to the Sammamish River, allowing high flows and the associated sediment load to pass through the system.	Derby Creek/ Sammamish River/ WRIA 7	6	\$400,000	\$1,824,922	\$200,000

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APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
King County DNRP, Water & Land Resources Division	<i>Raging River Property Acquisition (Ralphs)</i>	During a large flood in February 2020, the Raging River eroded into its bank, causing a dangerous landslide hazard on this residential property. The proposal is to purchase a 3.58-acre parcel that has approximately 500 feet of river frontage, demolish any structures on site and revegetate the property with native plants. The successful implementation of this project will protect the water quality of the Raging River by preventing structures, debris, or utilities (septic/well) from falling into the river.	Raging River/ Snoqualmie Basin/ WRIA 7	3	\$913,840	\$0	\$20,000
King County DNRP, Water & Land Resources Division	<i>Tolt River Property Acquisition (Matteo/Reimer)</i>	Acquire 9.5 acres of property near the Tolt River, 3.7 acres of which are in a moderate or severe channel migration hazard area and include a potential avulsion path. King County will use secured Conservation Futures Tax (CFT) funds to purchase the property and is seeking additional funding for demolition of the all structures on site, decommissioning of septic/well/fuel and revegetation.	Tolt River/ Snoqualmie Basin/ WRIA 7	3	\$189,000	\$522,800	\$189,000
King County Road Services Division	<i>NE 138th Drainage Improvement</i>	Replace the existing 36" diameter CMP cross culvert under NE 138th Street with a new fish passable four-sided concrete box culvert. Evaluate if NE 138th St. will need to be raised over the culvert crossing location due to the shallow crossing elevation. Improve the creek channel carrying capacity upstream and downstream of the new concrete box culvert.	Snoqualmie Basin/ WRIA 7	3	\$682,500	\$0	\$0
Kirkland, City of	<i>NE 132nd Street Pipe Replacement</i>	Replace and lower 380 feet of stormwater pipe and outfall to Juanita Creek to alleviate potential surcharging that would impact a major arterial street.	Juanita Creek/ WRIA 8	6	\$400,000	\$185,000	\$185,000
Maple Valley	<i>SE 254th Pl. and Witte Road Culvert Replacement</i>	As part of the larger Witte Road expansion project, these funds will go towards replacement of an existing 24-inch corrugated metal culvert that conveys South Fork Jenkins Creek under SE 254th Place with an adequately sized box culvert to pass 100-year design flows and allow fish passage. Replacement of this existing culvert will remove the last significant flow barrier along this section of South Fork Jenkins Creek, which is expected to reduce flooding and restore passage for a fish bearing stream.	South Fork Jenkins Creek/ WRIA 9	9	\$350,000	\$445,000	\$150,000

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APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Newcastle, City of	<i>Newcastle Railroad Embankment Phase 2 (S-017)</i>	Newport Hills Creek flows through standpipe rise and a 24" clay vitrified pipe at the bottom of a railroad embankment, which is classified as a dam (55 feet tall and 150 feet long). The embankment has unknown construction records, and has recently experienced sinkholes. If the ponded impoundment were to breach, this could release up to 120 acre-feet of water. The project proposes to remove the railroad embankment partially or in its entirety to reduce flood hazard.	Newport Hills Creek/ WRIA 8	9	\$100,000	\$110,000	\$100,000
Redmond, City of	<i>Gun Club Creek Culvert Replacement at Willows Road</i>	The culvert where "Gun Club Creek" flows under Willows Road will be replaced with a 10' wide x 4' high, 105' long concrete box culvert, meeting current standards for capacity and fish passage. The culvert will be bedded with cobble and streambed sediment engineered to remain stable in modelled flows. The existing "Gun Club Creek" culvert is an old and undersized (36" wide x 22" high) corrugated metal pipe arch culvert.	Sammamish River/ WRIA 8	3 & 6	\$228,500	\$655,500	\$175,000
Renton, City of	<i>Monroe Avenue NE Storm System Improvement</i>	Design and construction of a permanent solution to replace the existing temporary stormwater overflow from Monroe Ave NE into a private property at 301 Monroe Ave NE. The preferred solution alternative would consist of a stormwater infiltration facility at the 301 Monroe Ave NE site or trunkline to convey stormwater from the drainage basin to the Cedar River	Cedar River/Lake Washington Watershed / WRIA 8	9	\$200,000	\$0	\$100,000
SeaTac, City of	<i>S. 180th St. Flood Reduction</i>	Re-construction of an existing drainage channel and wetland to alleviate flooding at the termination of S. 180th St. Other improvements include raising a small section S. 180th out of the flood plain, and conveyance pipe upgrades to improve capacity for large storm events. An alternative analysis was performed to determine these improvements and many factors were considered, including available space within the ROW and the size of the tributary upstream basin.	Des Moines Creek Basin / WRIA 9	5	\$500,000	\$0	\$320,000

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Shoreline, City of	<i>Pump Station 26 Improvements</i>	Shoreline's Surface Water Pump Station 26 requires full replacement within five years to manage increased flooding risks due to age, lack of capacity, and ongoing failures of the current stormwater pumps. Pump Station 26 is located within the Sound Transit Lynnwood Link Light Rail 185th Street Station Sub-Area, which was recently up-zoned for a large increase in density; major redevelopment within the pump's contributing area is expected within the next five to ten years and has already begun. Increasing the detention capacity of the pond can provide runoff flow control mitigation for the impending increase in impervious surfaces.	McAleer Creek/ Puget Sound/ WRIA 8	1	\$400,000	\$2,407,193	\$250,000
Snoqualmie, City of	<i>Northern Street Culvert Design</i>	This project will provide bid-ready designs to enlarge a culvert and raise a street section to remove a 6ft roadway depression. Project design will support 2022 construction that will alleviate roadway section flooding during low-level events, supporting neighborhood access and public safety.	Kimball Creek, Snoqualmie River/WRIA 7	3	\$180,000	\$115,000	\$30,000
Snoqualmie Valley Preservation Alliance	<i>Floodzilla Gage Network</i>	This request is to adaptively manage and improve the existing backbone of the Floodzilla Gage Network, a network of community-managed gages on roads, waterways, and farm fields throughout the lower Snoqualmie Valley, which uploads real-time information about water surface elevations during flood events. During flood events, the USGS Gage at Carnation is simply insufficient for covering the 30+ river miles of the lower valley. The Floodzilla Gage Network, accessed through a free online webservice available to the public, provides land managers, flood planners, farmers, and commuting public with much needed information during floods, and analytics afterwards, which can aid in future planning.	WRIA 7	3	\$157,100	\$108,400	\$158,000



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<b>Snoqualmie Valley Watershed Improvement District</b>	<i>Drainage Improvement Program</i>	The SVWID's list of drainage maintenance activities within the Snoqualmie Agricultural Production District for 2021 are consistent with King County's 2006 Flood Hazard Management Plan policies, and 2013 Flood Plan Update goals for climate resiliency, preservation of agricultural soils, and conservation of salmon habitat. The SVWID plans to permit and install a modernized, agricultural drainage pump station near the King/Snohomish County line, and a channel enhancement project for the benefit of farms and fish in Cherry Valley, both in coordination with King County. The SVWID will work with King County Stormwater Services to implement agricultural drainage maintenance projects within the Snoqualmie APD, and identify and plan for future drainage maintenance and conservation activities within the Langlois, Tuck and Cherry Creek planning areas.	Lower Snoqualmie River/ WRIA 7	3	\$487,198	\$250,000	\$250,000
<b>Stewardship Partners</b>	<i>Carnation Public Library Green Infrastructure Implementation &amp; Outreach</i>	Stewardship Partners (SP) will perform green infrastructure assessments and install small demonstration rain gardens, cisterns and signage at the Carnation Public library and Miller's in Carnation WA to manage 15,000 to 20,000 gallons of storm water annually. In addition, SP will work alongside Carnation Public Library and Miller's staff to facilitate green infrastructure outreach events on a regular basis. This project builds on the success and is a direct result of our green infrastructure/rain garden projects at Carnation Elementary School over the past several years and it is an integral piece of SP's Snoqualmie Strategy efforts.	Snoqualmie Basin/ WRIA 7	3	\$39,561	\$9,000	\$40,000
<b>Tukwila, City of</b>	<i>S. 131st Place Drainage Improvements</i>	Southgate Creek overtops its banks approximately twice annually and flows down a private driveway resulting in nuisance flooding, debris cleanup, and minor property damage. This project will replace an undersized 48" culvert under S. 131st Place, raise the roadway along the creek or construct a concrete wall to provide additional freeboard to keep the creek in its bank, provide added water quality for the City roadway, and work with a downstream property owner on private stream maintenance.	Southgate Creek/ WRIA 9	8	\$300,000	\$950,000	\$60,000

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APPLICANT	PROJECT NAME	DESCRIPTION	WATER BODY/ WRIA	KC COUNCIL DISTRICT	REQUESTED AMOUNT	LEVERAGE	OFFER
Washington Shores I Home Owner's Association	<i>Drainage &amp; Site Improvements - Phase II</i>	The Phase II portion of this project is focused on installing the drainage, landscape and site improvement work designed in Phase I. The goals continue to be: protecting existing structure from further flood damage; improving site water drainage system; improving landscape at the site and waterfront.	Lake Washington/ WRIA 8	6	\$418,245	\$0	\$50,000
<b>TOTALS</b>					<b>\$ 8,145,679</b>	<b>\$10,221,606</b>	<b>\$ 3,347,000</b>

Available: \$3,349,574