



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

FCD Resolution FCD2022-06

Proposed No. FCD2022-06.2

Sponsors

1 A RESOLUTION relating to the operation and finances of
 2 the King County Flood Control Zone District; adopting a
 3 revised 2022 budget, operating budget, capital budget, six-
 4 year capital improvement program for 2022-2027; and
 5 amending Resolution FCD2021-12.2.

6 WHEREAS, the King County Flood Control Zone District ("the District")
 7 adopted its 2022 work program, budget, operating budget, capital budget, and six-year
 8 capital improvement program in Resolution FCD2021-12.2, and

9 WHEREAS, the annual carry-forward budget resolution is necessary to provide
 10 budget authority for unspent appropriations from the prior year and to reinstate contract
 11 encumbrances, and

12 WHEREAS, the carry-forward amount for unspent appropriations from 2021 to
 13 2022 is \$197,952,425, and

14 WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the
 15 proposed carry-forward amount and a supplemental budget on May 10, 2022, and

16 WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
 17 has determined that the flood control improvements adopted by this resolution generally
 18 contribute to the objectives of the District’s comprehensive plan of development, and

19 WHEREAS, the Board desires to adopt amendments to the District’s 2022
 20 budget, operating budget, capital budget, and six-year capital improvement program;

FCD Resolution FCD2022-06

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

23 SECTION 1. The Board adopts a revised 2022 budget for the District, as set forth
24 in Attachment B to this resolution, titled "2022 Reallocation Budget May 5, 2022," and
25 amends Section 1 of FCD2021-12.2 accordingly.

26 SECTION 2. The Board adopts a revised 2022 operating budget for the District,
27 as set forth in Attachment C to this resolution, titled "2022 Reallocated Operating Budget
28 May 5, 2022," and amends Section 1 of FCD2021-12.2 accordingly.

29 SECTION 3. The Board adopts a revised 2022 capital budget for the District,
30 consisting of the projects and expenditures Attachment D to this resolution, titled "2022
31 Reallocated Capital Budget May 5, 2022," and amends Section 1 of FCD2021-12.2
32 accordingly.

33 SECTION 4. The Board adopts a revised six-year capital improvement program
34 for the District, as set forth in Attachment E to this resolution, titled "2022-2027
35 Reallocated Six-Year CIP May 5, 2022," and amends Section 1 of FCD2021-12.2
36 accordingly.

37 SECTION 5. The Board adopts a revised 2022-2027 capital budget project list, as
38 set forth in Attachment H to this resolution, titled "2022-2027 Six-Year CIP Project
39 Allocations + Carryover May 5, 2022," and amends Section 1 of FCD2021-12.2
40 accordingly.

41 SECTION 6. A. The Board authorizes the extension, enlargement, acquisition or
42 construction of improvements, as applicable, as set forth on Attachments B, C, D, E and
43 H of this resolution.

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44 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as
45 amended, serves as the comprehensive plan of development for flood control and
46 floodplain management, and has been prepared for the streams or watercourses upon
47 which the improvements will be enlarged, extended, acquired or constructed. The
48 improvements authorized herein generally contribute to the objectives of the Flood Plan.

49 C. For improvements that are to be constructed, preliminary engineering studies
50 and plans have been made, consisting of one or more of the following: the 2006 Flood
51 Plan, as amended, preliminary feasibility analyses, conceptual designs and design

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52 manuals, and such plans and studies are on file with the county engineer.

53 D. Estimated costs for acquisitions and improvements together with supporting

54 data are set forth on Attachments B, C, D, E and H.

FCD Resolution FCD2022-06 was introduced on and passed as amended by the King County Flood Control District on 5/10/2022, by the following vote:

Yes: 9 - Balducci, Dembowski, Dunn, Kohl-Welles, McDermott, Perry, Upthegrove, von Reichbauer and Zahilay

KING COUNTY FLOOD CONTROL DISTRICT
KING COUNTY, WASHINGTON

DocuSigned by:
Dave Upthegrove
E76CE01E07B14EF...

Dave Upthegrove, Chair

ATTEST:

DocuSigned by:
Melani Pedroza
8DE1BB375AD3422...

Melani Pedroza, Clerk of the District

Attachments: B. 2022 Reallocation Budget 5-5-22, C. 2022 Reallocation Operating Budget 5-5-22, D. 2022 Reallocated Capital Budget 5-5-22, E. 2022 - 2027 Reallocated Six-Year CIP 5-5-22, H. 2022 - 2027 Six-Year CIP Project Allocations + Carryover 5-5-22

King County Flood Control District

2022 Reallocation Budget

Attachment B

May 5, 2022

Program	2022 Approved	2021 Carryover	2022 Reallocation	2022 Revised
Flood District Administration	2,338,637	0	0	2,338,637
Maintenance and Operation	16,313,808	275,000	150,000	16,738,808
Construction and Improvements	144,903,015	197,677,425	(5,462,478)	337,117,962
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	163,555,460	197,952,425	(5,312,478)	356,195,407
Projected Capital Reserves - Cash Fund Balance ¹	65,636,041			51,481,572
Projected Capital Reserves - Budgetary Fund Balance ²	(134,855,676)			(230,741,205)

¹ The cash fund balance assumes an expenditure rate of 18% of the capital budget in 2022, informed by prior year actuals.

² The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

King County Flood Control District

2022 Reallocated Operating Budget

Attachment C

May 5, 2022

	2022 Approved	2021 Carryover	2022 Reallocation	2022 Revised	Comments
Annual Maintenance	\$2,533,518			\$2,533,518	
Flood Hazards Plan, Grants, Outreach	\$575,653	\$275,000		\$850,653	Carryover expenditure authority for the Flood Plan Update.
Flood Hazard Studies, Maps, Technical Services	\$5,065,964			\$5,065,964	
Flood Preparation, Flood Warning Center	1,048,487		\$150,000	\$1,198,487	Flood Warning Program upgrades
Program Management, Supervision, Finance, Budget	\$1,971,187			\$1,971,187	
Program Implementation	\$1,921,599			\$1,921,599	
Overhead / Central Costs*	3,197,399			\$3,197,399	
Total	\$16,313,808	\$275,000	\$150,000	\$16,738,808	

* A portion of these overhead costs are reimbursed by the capital fund for staff time loaned out to capital projects.

King County Flood Control District

2022 Reallocated Capital Budget

Attachment D

May 5, 2022

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$8,671,619	\$8,419,912	\$13,387,299	\$0	\$30,478,830
Cedar River Basin	\$6,336,840	\$8,966,120	\$39,796,920	\$0	\$55,099,880
Green River Basin	\$38,972,529	\$85,021,330	\$42,142,590	\$0	\$166,136,448
White River Basin	\$177,497	\$1,994,913	\$546,480	\$0	\$2,718,890
Effectiveness Monitoring	\$0	\$1,649,370	\$0	\$0	\$1,649,370
Countywide Miscellaneous	\$0	\$0	\$350,008	\$1,300,000	\$1,650,008
Opportunity Fund	\$0	\$0	\$22,679,070	\$0	\$22,679,070
Grant Funds	\$0	\$0	\$56,705,466	\$0	\$56,705,466
Total	\$54,158,485	\$106,051,645	\$175,607,833	\$1,300,000	\$337,117,962

King County Flood Control District

2022 - 2027 Reallocated Six-Year CIP

Attachment E

May 5, 2022

Name	2022 Approved	2021 Carryover	2022 Reallocation	2022 Revised	2023	2024	2025	2026	2027	2022 - 2027 Total
Snoqualmie River Basin	\$15,108,271	\$17,531,051	(2,160,492)	30,478,830	23,223,953	23,574,604	29,724,212	24,703,408	9,183,026	140,888,033
Cedar River Basin	\$25,050,016	\$26,214,426	3,835,438	55,099,880	12,356,266	15,485,637	7,200,077	3,710,000	3,200,000	97,051,860
Green River Basin	\$74,650,373	\$99,048,232	(7,562,157)	166,136,448	34,673,525	90,794,032	33,440,065	9,746,756	15,667,592	350,458,418
White River Basin	\$821,941	\$1,324,366	572,583	2,718,890	2,450,752	8,057,482	7,051,257	135,941	1,000,000	21,414,322
Effectiveness Monitoring	\$850,701	\$798,669	-	1,649,370	1,191,950	1,064,100	815,500	628,200	608,500	5,957,620
Countywide Miscellaneous	\$100,000	\$1,697,858	(147,850)	1,650,008	350,000	350,000	350,000	350,000	350,000	3,400,008
Subregional Opportunity Fun	\$6,012,016	\$16,667,054	-	22,679,070	6,092,142	6,170,764	6,247,632	6,324,334	6,408,362	53,922,304
Flood Reduction Grants	\$22,309,697	\$34,395,769	-	56,705,466	22,870,776	23,445,966	24,035,621	24,640,106	25,259,794	176,957,729
Total	\$144,903,015	197,677,425	(5,462,478)	337,117,962	103,209,364	168,942,585	108,864,364	70,238,745	61,677,274	850,050,294

2022 - 2027 Six-Year CIP Project Allocations + Carryover

Attachment H

May 5, 2022

Capital Investment Strategy Project
Grant/External Revenue Awarded
Cost Share Contribution to Others
New Project - 2022 Revised

No.	Title	Basin	Type of project	2022 Adopted	2021 Carryover	2022 Reallocation Request	2022 Revised	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected	Total (Including 2021 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
1	WLFL0 SF SKYKOMISH REP LOSS MIT	SF Skykomish	FCD Acq/Elev	\$800,000	\$1,028,555	\$671,445	\$2,500,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$6,500,000			\$9,600,486	Baring. This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future flood events.
2	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const		\$64,599	(\$64,599)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$85,402	Skykomish. Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
3	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acq/Elev	\$340,000	\$500,000		\$840,000	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$4,840,000			\$6,812,095	Skykomish. This project will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as inundation in some places.
4	WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const		\$2,909	(\$2,909)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$13,131	Skykomish. Project will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike Team.
5	WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const		\$155,678	(\$147,678)	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000			\$553,246	Skykomish. Revetment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150 LF (needs verification). Failure has occurred previously in this section of revetment.
6	WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	Agreement		\$48,649		\$48,649	\$0	\$0	\$0	\$0	\$4,200,000	\$4,248,649			\$4,250,000	North Bend. Cost-share of \$8.4M levee setback project. The levee overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and roadways. Project would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant application for the remaining \$4.2 million.
7	WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	\$196,305	\$26,470		\$222,775	\$193,500	\$145,695	\$3,023,030	\$0	\$0	\$3,585,000			\$4,552,147	North Bend. This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
8	WLFL1 MASON THORSON ELLS 2022 REPAIR	Upper Snoq	FCD Const	\$105,000	\$0	\$50,000	\$155,000						\$155,000			\$155,000	Provide 20% local match to repair erosion to the downstream end of the Mason Thorson Ellis levee under the US Army Corps of Engineers (USACE) PL 84-99 Levee Rehabilitation and Inspection Program (RIP). The downstream 60-feet of the levee was damaged during the February 2020 flood event and the proposed project will repair the damage and reduce future erosion risk to the facility.
9	WLFL1 MF FLOOD CONVEYANCE N BEND	Upper Snoq	Agreement	\$150,000	\$148,915		\$298,915	\$1,500,000	\$0	\$0	\$0	\$0	\$1,798,915			\$1,800,000	North Bend. Overflow channels originating from the Middle Fork Snoqualmie River flow through neighborhoods and cross roads creating risk to homes and infrastructure. Potential solutions include channel modifications, enhancements, and culvert improvements.
10	WLFL1 MF RESIDENTIAL FLD MTGNT	Upper Snoq	FCD Acq/Elev	\$2,887,769	\$386,075	(\$1,000,000)	\$2,273,844	\$2,887,769	\$1,830,000	\$2,265,000	\$2,265,000	\$0	\$11,521,613			\$11,540,000	North Bend. Work with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project E in the draft Capital Investment Strategy)
11	WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq	FCD Const		\$145,382	(\$145,382)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,707,115	North Bend. Middle Fork Snoqualmie Corridor Planning, completed in 2020.
12	WLFL1 NF SNOQUALMIE RES FLD MIT	Upper Snoq	FCD Const	\$2,000,000	\$0		\$2,000,000						\$2,000,000			\$2,000,000	Acquire flood-prone properties in the North Fork Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage and secure footprints for future capital projects.
13	WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement		\$1,920		\$1,920	\$0	\$0	\$0	\$0	\$0	\$1,920			\$724,000	North Bend. Replace two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
14	WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement		\$0		\$0	\$350,000	\$750,000	\$0	\$0	\$0	\$1,100,000			\$1,100,000	North Bend. Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert.
15	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement		\$132,142		\$132,142	\$0	\$0	\$0	\$0	\$0	\$132,142			\$464,583	North Bend. Initiate feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigation strategies.
16	WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	Agreement		\$1,667,295		\$1,667,295	\$0	\$0	\$0	\$0	\$0	\$1,667,295			\$3,883,278	Snoqualmie. Repair downstream 200 lineal feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snoqualmie stormwater outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the City's planned "Riverwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2021.
17	WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	FCD Const		\$0	\$67,000	\$67,000	\$265,438	\$318,421	\$385,937	\$457,218	\$0	\$1,494,014			\$1,494,014	North Bend. Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.
18	WLFL1 REINIG RD ELEVATION	Upper Snoq	Agreement		\$0		\$0	\$0	\$50,000	\$100,000	\$0	\$0	\$150,000			\$150,394	Snoqualmie. Elevate low section of Reinig Rd to alleviate flooding that blocks roadway.
19	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	\$655,000	(\$614,093)	\$485,093	\$526,000	\$20,000	\$0	\$0	\$0	\$0	\$546,000			\$6,891,008	North Bend. Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet. Construction is anticipated in 2021.
20	WLFL1 RIBARY CREEK	Upper Snoq	Agreement	\$316,168	\$613,796		\$929,964	\$1,170,761	\$4,998,233	\$0	\$0	\$0	\$7,098,957			\$7,121,653	North Bend. Address flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.
21	WLFL1 SF CIS LONG TERM	Upper Snoq	FCD Const		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$57,100,000	\$57,100,000	North Bend. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
22	WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$47,200,000		\$47,200,000	North Bend. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
23	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$5,022	\$0	(\$5,022)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$209,704	North Bend. Six levee deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in place.
24	WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const		\$202,109		\$202,109	\$0	\$0	\$0	\$0	\$0	\$202,109			\$3,139,161	North Bend. Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or infrastructure. Continued erosion could threaten 428th Ave embankment or bridge.
25	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	\$5,000	\$6,331		\$11,331	\$0	\$0	\$0	\$0	\$0	\$11,331			\$672,229	North Bend. Between 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60 feet of river bank. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE).
26	WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const		\$102,381	(\$102,381)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$294,373	North Bend. Repair approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. Si View Levee is a relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding.
27	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const		\$0		\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	North Bend. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie River and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
28	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement		\$0		\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000			\$150,000	North Bend. Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the current bridge does not provide enough hydraulic opening due to the transport of sediments and water overtops the approaches during floods.
29	WLFL1 UPR SNO RES FLD MITGNT	Upper Snoq	FCD Acq/Elev	\$3,714,000	\$976,540		\$4,690,540	\$1,957,361	\$2,016,081	\$2,076,564	\$2,138,861	\$2,203,026	\$15,082,433			\$27,412,242	Snoqualmie. This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the Riverwalk project.
30	WLFL1 USACE PL 84-99 SF SNO	Upper Snoq	FCD Const	\$378,458	\$149,537		\$527,995	\$0	\$0	\$0	\$0	\$0	\$527,995			\$663,594	North Bend. Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive future assistance from the Corps in the event of flood damage to the levees.
31	WLFL2 264TH AVE NE AT SR 202 FLD IMPRMNT	Lower Snoq	Agreement		\$0		\$0	\$0	\$0	\$540,000	\$0	\$0	\$540,000			\$540,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to eliminate over-topping during flood events.
32	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRMNT	Lower Snoq	Agreement		\$0		\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000			\$500,000	Fall City. Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
33	WLFL2 CITY SNOQ HOME ELEVATIONS	Upper Snoq	Agreement		\$1,468,000	(\$1,100,000)	\$368,000	\$0	\$0	\$0	\$0	\$0	\$368,000			\$368,000	City of Snoqualmie. Elevate several flood-prone homes in the areas around Walnut St and Northern St.
34	WLFL2 DUTCHMAN RD REVETMENT	Lower Snoq	FCD Const	\$484,752	\$122,308	\$161,735	\$768,795	\$1,479,035	\$6,404,174	\$19,000	\$0	\$0	\$8,671,004			\$9,023,097	Duval. Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duval. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
35	WLFL2 FALL CITY FLOODPLAIN RESTORATION	Lower Snoq	Agreement		\$299,934		\$299,934	\$0	\$0	\$0	\$0	\$0	\$299,934			\$300,000	Fall City. Project will reconnect floodplain, removing the aging Hafner and Barfuse facilities and replacing with modern flood and erosion protection features. FCD cost-share funding is intended for design of flood risk reduction features.
36	WLFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	FCD Acq/Elev		\$136,338		\$136,338	\$0	\$0	\$0	\$0	\$0	\$136,338			\$979,803	Carnation. This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads and elevation or flood proofing of agricultural structures.
37	WLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Snoq	Agreement		\$321,410		\$321,410	\$0	\$0	\$0	\$0	\$0	\$321,410			\$514,000	Duval. Strengthen the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to protect it against major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.
38	WLFL2 JOY 2020 REPAIR	Lower Snoq	FCD Const	\$500,000	\$535,791	(\$1,000,000)	\$35,791	\$2,620,000	\$0	\$0	\$0	\$0	\$2,655,791			\$2,720,000	Duval. Design and repair approximately 800 lineal feet of bank erosion along the Joy Revetment on the left bank of the Snoqualmie River across from the City of Duval. Bank erosion is undermining an existing road.
39	WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	Agreement		\$1,121,071		\$1,121,071	\$0	\$0	\$0	\$0	\$0	\$1,121,071			\$2,200,000	Fall City. The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway.

No.	Title	Basin	Type of project	2022 Adopted	2021 Carryover	2022 Reallocation Request	2022 Revised	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected	Total (Including 2021 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
40	WFL2 L SNO SCOUR REPAIR 2017	Lower Snoq	Agreement		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$142,411	Fall City. The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
41	WFL2 L SNO/ALDAIR CORRDROR PLN	Lower Snoq	FCD Const		\$61,622		\$61,622	\$0	\$0	\$0	\$0	\$0	\$61,622			\$7,089,215	Fall City. Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie. Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
42	WFL2 LWR SNO RESDL FLD MITGTN	Lower Snoq	FCD Acqu/Elev	\$59,655	\$1,031,316	\$629,029	\$1,720,000	\$1,000,000	\$500,000	\$500,000	\$500,000	\$500,000	\$4,720,000			\$7,005,156	Carnation. This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads, elevations of homes, and elevation or flood proofing of agricultural structures.
43	WFL2 MUD CREEK SEDIMENT FACILITY	Lower Snoq	FCD Const		\$432,000		\$432,000	\$0	\$0	\$0	\$0	\$0	\$432,000			\$432,000	Snoqualmie. Design and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site.
44	WFL2 PUMP STATION REVETMENT REPAIR	Lower Snoq	FCD Const		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Snoqualmie. Reconstruct upstream 150 feet of the Pump Station Revetment to prevent scour damage to the facility which protects the City of Snoqualmie's Meadowbrook Pump Station.
45	WFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD Const		\$77,782	(\$77,782)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,838,512	Fall City. Rebuild revetment to protect road access to high value agricultural operations and lands. Construction is complete.
46	WFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	Agreement	\$151,000	\$226,160		\$377,160	\$99,000	\$0	\$0	\$0	\$0	\$476,160			\$500,000	Duval. Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.
47	WFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const		\$82,919	(\$50,000)	\$32,919	\$0	\$0	\$0	\$0	\$0	\$32,919			\$1,057,886	Carnation. This completed project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank Revetment on the Snoqualmie River, downstream of the City of Carnation.
48	WFL2 STOSSEL REVETMENT	Lower Snoq	FCD Const	\$86,598	\$303,282		\$389,880	\$2,968,000	\$12,000	\$0	\$0	\$0	\$3,369,880			\$3,516,598	Carnation. Placeholder costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE.
49	WFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const		\$33,032	(\$33,032)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$10,745,036	Carnation. This project will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revetment. Erosion along the right bank of the Snoqualmie River channel threatens to undermine the Seattle Public Utilities water supply line at this location south of Duval. Construction is complete.
50	WFL3 FREW LEVEE 2016 REPAIR	Tolt	FCD Const		\$191,480	(\$191,480)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$168,880	Carnation. Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood. Construction is complete.
51	WFL3 HOLBERG 2019 REPAIR	Tolt	FCD Const	\$200,000	\$50,000		\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$500,000			\$500,000	Carnation. Facility failure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to residences and property.
52	WFL3 HOLBERG FEASIBILITY	Tolt	FCD Const		\$59,100		\$59,100	\$0	\$0	\$0	\$0	\$0	\$59,100			\$412,149	Carnation. Feasibility study to determine the nature and extent of levee improvements necessary to remove four homes in unincorporated King County from the regulatory Channel Migration Zone as mapped in the March 2017 Draft Tolt River Channel Migration study
53	WFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	\$105,319	\$651,114		\$756,433	\$750,000	\$750,000	\$14,644,681	\$50,000	\$0	\$16,951,114			\$17,315,777	Carnation. Capital Investment Strategy. Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. Phase 2 construction estimated in CIS at \$14.5M-\$16.7M
54	WFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acqu/Elev	\$150,000	\$843,390		\$993,390	\$200,000	\$200,000	\$645,000	\$550,000	\$550,000	\$3,138,390			\$3,674,475	Carnation. Acquire high-priority flood risk reduction properties in the lower two miles of the Tolt River consistent with the adopted Capital Investment Strategy.
55	WFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const		\$167,967	(\$167,967)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$143,033	Carnation. Damage is approximately 60 lineal feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The damage is at the downstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger property. Construction complete.
56	WFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqu/Elev	\$397,128	\$1,415,008		\$1,812,136	\$1,750,000	\$1,750,000	\$1,750,000	\$0	\$0	\$7,062,136			\$8,717,331	Carnation. Capital Investment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds become available.
57	WFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev		\$153,211		\$153,211	\$346,789	\$0	\$0	\$0	\$0	\$500,000			\$5,546,463	Carnation. This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community access road, ultimately completing project initiated 20 years ago by others. Approximately 20 homes removed from high hazard areas within and just upstream and downstream of San Souci neighborhood.
58	WFL3 SAN SOUCI ROAD ELEVATION	Tolt	FCD Const	\$700,000	\$14,448		\$714,448	\$700,000	\$800,000	\$25,000	\$0	\$0	\$2,239,448			\$2,250,000	Carnation. Capital Investment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souci neighborhood.
59	WFL3 SEDIMENT MGMT FEAS	Tolt	FCD Const		\$70,152		\$70,152	\$0	\$0	\$0	\$0	\$0	\$70,152			\$263,706	Carnation. Capital Investment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment production estimates.
60	WFL3 SR 203 BR IMPRVMTS FEAS	Tolt	FCD Const		\$311,866		\$311,866	\$0	\$0	\$0	\$0	\$0	\$311,866			\$395,900	Carnation. Capital Investment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King County Parks parking area.
61	WFL3 TOLT CIS LONG TERM	Tolt	FCD Const		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$28,800,000		\$28,800,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
62	WFL3 TOLT CIS MED TERM	Tolt	FCD Const		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,250,000		\$56,250,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
63	WFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const		\$14,430	(\$14,430)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,139,227	Carnation. The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions.
64	WFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const	\$54,357	\$206,263	\$59,295	\$319,915	\$0	\$0	\$0	\$0	\$0	\$319,915			\$1,055,467	Carnation. Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits.
65	WFL3 TOLT R NATURAL AREA ACQ	Tolt	FCD Acqu/Elev	\$107,740	\$1,068,172		\$1,175,912	\$700,000	\$0	\$0	\$0	\$0	\$1,875,912			\$5,622,258	Carnation. Capital investment strategy: acquire at-risk homes from willing sellers.
66	WFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	FCD Const		\$181,427	(\$181,427)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$68,573	Carnation. Reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road.
67	WFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const		\$0		\$0	\$91,301	\$250,000	\$150,000	\$2,342,329	\$30,000	\$2,863,630			\$2,863,630	Carnation. Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as funds become available.
68	WFL3 UPPER FREW LEVEE SETBACK	Tolt	FCD Const	\$159,000	\$50,000		\$209,000	\$175,000	\$1,200,000	\$1,500,000	\$14,800,000	\$0	\$17,884,000			\$17,884,000	Carnation. Capital Investment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
69	WFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqu/Elev	\$400,000	\$29,930		\$429,930	\$0	\$0	\$0	\$0	\$0	\$429,930			\$2,183,810	Preston. Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
70	WFL4 RAGING SCOUR REPAIR 2017	Raging	Agreement		\$54,938		\$54,938	\$0	\$0	\$0	\$0	\$0	\$54,938			\$80,000	Fall City. This bridge has a history of scour damage. One of the arch foundations is exposed. Repair scour mitigation measures to protect the footing. It serves only one house but is a designated King County Landmark.
71	Snoqualmie-South Fork Skykomish Subtotal			\$15,108,271	\$17,531,051	(\$2,160,492)	\$30,478,830	\$23,223,953	\$23,574,604	\$29,724,212	\$24,703,408	\$9,183,026	\$140,888,033			\$406,645,248	
72																	
73																	
74	WFL5 ALLEN LK OUTLET IMPRVMT	Samamish	Agreement		\$809,915		\$809,915	\$36,256	\$1,500,000	\$400,000	\$10,000	\$0	\$2,756,171			\$2,791,256	Samamish. To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-raising options; prepare Concept Development Report, analyze and select best options.
75	WFL5 BAYLESS 2020 REPAIR	Samamish	FCD Const		\$50,000	(\$50,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Issaquah. The Bayless Revetment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. The facility was flanked and/or overtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the revetment. Continued erosion may result in damage to the bridge and ongoing flooding to the neighborhood.
76	WFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Samamish	Agreement		\$400,000		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000			\$400,000	Samamish. This project will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment deposition.
77	WFL5 IRWIN R 2020 REPAIR	Samamish	FCD Const		\$63,761	\$424,739	\$488,500	\$15,000	\$0	\$0	\$0	\$0	\$503,500			\$739,739	Issaquah. Further damage to the facility could cut off the sole access to one resident (via a private road and bridge over the creek).
78	WFL5 ISSAQUAH CREEK CIS	Samamish	FCD Const	\$300,000	\$0	(\$200,000)	\$100,000						\$100,000			\$100,000	Issaquah: Identify and prioritize near-, mid-, and long-term capital projects for Flood Control District funding along Issaquah Creek.
79	WFL5 JEROME 2020 REPAIR	Samamish	Agreement		\$339,799		\$339,799	\$0	\$0	\$0	\$0	\$0	\$339,799			\$355,083	Issaquah. The Jerome Revetment protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to private utilities. Loss of bank in front of middle property. 70 linear feet (LF) of erosion.
80	WFL5 LK SAMMAMISH FLOOD MIT GRANTS	Samamish	Grant	\$1,000,000	\$0		\$1,000,000						\$1,000,000			\$1,000,000	Belleuve. Provide near-term grants to fund flood mitigation options for lakeside landowners, such as floating docks, relocation or elevation of outbuilding and other damage-reduction and floodproofing measures. Established pursuant to FCDEM2021-3.
81	WFL5 MOMB 2020 REPAIR	Samamish	FCD Const	\$142,391	\$22,330	\$75,279	\$240,000	\$577,500	\$15,000	\$0	\$0	\$0	\$832,500			\$920,170	Issaquah. Damage to the SE 156th St. road next flood season could cut off the sole access to a community of about 30 homes. More erosion at the downstream end of the facility may further destabilize the steep slope of the landslide and threaten downstream homeowners.
82	WFL5 SAMMAMISH CIS	Samamish	FCD Const	\$1,307,400	\$56,915		\$1,364,315	\$1,030,409	\$27,093	\$0	\$0	\$0	\$2,421,817			\$2,810,022	Redmond: Identify and prioritize near-, mid-, and long-term capital projects for Flood Control District funding along the Sammamish River.
83	WFL5 WILLOWMOOR FLDPLAIN REST	Samamish	FCD Const		\$1,056,184		\$1,056,184	\$0	\$0	\$0	\$0	\$0	\$1,056,184			\$4,520,977	Redmond. Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will reconfigure the Sammamish transition zone to ensure ongoing flow conveyance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. Project is currently on hold pending completion of a 3rd party review scheduled to be completed in December 2020. The 2021 funding shown here is a placeholder only pending the outcome of the review.
84	WFL6 148TH AVE SE LARSEN LK BELLEVUE	Lk Wash Tribs	Agreement		\$400,000		\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000			\$400,000	Belleuve. Conduct a site assessment and initiate preliminary design to progress toward construction of best drainage treatments and resilient design to reduce or eliminate roadway flooding on 148th Ave SE. Improve high water flow capacity for Larsen Lake/Lake Hills Greenbelt to Kelsey Creek where it floods 148th Avenue SE during moderate to severe storm and longer duration rainfall periods.

No.	Title	Basin	Type of project	2022 Adopted	2021 Carryover	2022 Reallocation Request	2022 Revised	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected	Total (Including 2021 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
85	WFL6 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribs	Agreement	\$450,000	\$1,099,872		\$1,549,872	\$0	\$0	\$0	\$0	\$0	\$1,549,872			\$1,550,000	Redmond. Protect Avondale Rd from an embankment that has been scoured by floodwaters from Bear Creek.
86	WFL6 FACTORIA BLVD DRAINAGE	Lk Wash Tribs	Agreement	\$2,022,000	\$4,792,000		\$6,814,000	\$0	\$0	\$0	\$0	\$0	\$6,814,000			\$6,814,000	Bellevue. Reduce flooding during high-intensity storm events along Factoria Boulevard, a major transportation corridor within the City of Bellevue. These events have increased in frequency and are anticipated to be even more frequent in the future as a result of climate change.
87	WFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	Agreement		\$26,629		\$26,629	\$0	\$0	\$0	\$0	\$0	\$26,629			\$350,000	Issaquah. Prepare a feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis to identify potential solutions to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the bridge.
88	WFL6 LOWER COAL CRK PH I	Lk Wash Tribs	Agreement	\$200,000	(\$78,662)		\$121,338	\$285,000	\$1,310,000	\$1,432,358	\$0	\$0	\$3,148,696			\$14,588,950	Bellevue. Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Washington. Implemented by City of Bellevue.
89	WFL6 MAY VALLEY DRAINAGE IMPRVMT	Lk Wash Tribs	Agreement		\$305,174		\$305,174	\$0	\$0	\$0	\$0	\$0	\$305,174			\$530,000	Newcastle. As recommended in the May Creek Basin Plan, two sediment traps will be constructed on May Creek tributaries (Cabbage and Country Creeks) to limit sediment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future sediment facility. 2020 funding is for permitting and project design.
90	WFL7 BELMONDO 2020 REPAIR	Cedar	FCD Const	\$149,048	\$56,722	\$19,230	\$225,000	\$410,000	\$15,000	\$0	\$0	\$0	\$650,000			\$743,278	Renton. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank - damage likely to occur next major high-flow event.
91	WFL7 BRODELL 2020 REPAIR	Cedar	FCD Const		\$9,403	(\$9,403)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Renton. Residential land use and critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing.
92	WFL7 BYERS 2020 EMERGENCY ACTION	Cedar	FCD Const		\$8,013	(\$8,013)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$16,987	Renton. Emergency action to prevent flooding of Byers Road, which is the sole access/egress for numerous residences along the Cedar River.
93	WFL7 BYERS NEIGHBORHOOD IMPROVEMENTS	Cedar	FCD Const		\$212,400		\$212,400	\$300,000	\$50,000	\$0	\$0	\$0	\$562,400			\$570,000	Renton. Capital Investment Strategy: Take several actions to reduce flood risk including construction of an emergency egress route.
94	WFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acq/Elev	\$1,600,000	\$1,468,673		\$3,068,673	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$11,068,673			\$16,330,532	Renton. This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent (Project J in the Capital Investment Strategy).
95	WFL7 CEDAR CIS LONG TERM	Cedar	FCD Acq/Elev		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$35,400,000	\$35,400,000	Renton. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
96	WFL7 CEDAR CIS MED TERM	Cedar	FCD Acq/Elev		\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000,000		\$22,000,000	Renton. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
97	WFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	Cedar	FCD Const		\$134,227		\$134,227	\$0	\$0	\$0	\$0	\$0	\$134,227			\$1,987,587	Renton. This six-year flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington. Project complete. Closeout in 2020.
98	WFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement		\$0		\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000			\$100,000	Renton. Improve Cedar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
99	WFL7 CEDAR R TRAIL SITE 2	Cedar	Agreement		\$780,406		\$780,406	\$0	\$0	\$0	\$0	\$0	\$780,406			\$1,233,000	Renton. This emergency action will armor up to 300 feet river bank and construct a buried revetment to stabilize the bank and prevent further erosion to the most damaged portion. This emergency action and the subsequent extension are upstream of the CRT 2 revetment in an area referred to as "Zone B."
100	WFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar	FCD Const	\$5,518	\$76,773	(\$80,685)	\$1,606	\$0	\$0	\$0	\$0	\$0	\$1,606			\$110,833	Erosion and scour have resulted in loss of upper ballast, dislodging of key logs, shearing of piles, and damage to hardware connections, to an Engineered Log Jam (ELJ #6), within the Cedar Rapids reach.
101	WFL7 CEDAR RES FLOOD MITIGATION	Cedar	FCD Acq/Elev		\$2,372,866		\$2,372,866	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$10,372,866			\$11,074,000	Renton. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. Project K on the CIS: Risk analysis has identified 53 homes as high risk from flooding and channel migration, but which are not mitigated by projects. Elevate or purchase approximately 2 homes per year.
102	WFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	FCD Const		\$63,289	(\$63,289)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	Renton. Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank failure.
103	WFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement		\$2,526,808		\$2,526,808	\$0	\$403,000	\$500,000	\$500,000	\$0	\$3,929,808			\$14,238,100	Renton. The project ensures the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action by the Army Corps of Engineers Section 205 Flood Control Project. Maintenance dredging took place in 2016. Project funding shown herein represent post construction mitigation monitoring and reporting as well as the planning and design of the next dredging project. Additional funding will be needed beyond 2026 to cover permitting, mitigation plan development, construction, mitigation and post-construction monitoring work associated with the next cycle of dredging.
104	WFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement		\$4,242,620		\$4,242,620	\$0	\$0	\$0	\$0	\$0	\$4,242,620			\$5,000,000	Renton. Levee improvements necessary to satisfy levee certification engineering recommendations.
105	WFL7 CRT SITE 5 2020 REPAIR	Cedar	FCD Const	\$87,905	\$256,541		\$344,446	\$1,070,000	\$5,000	\$0	\$0	\$0	\$1,419,446			\$1,512,905	Renton. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined numerous large trees, likely to fall into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility, near the upstream end.
106	WFL7 CRT SITE 5B 2020 REPAIR	Cedar	FCD Const		\$0	\$315,000	\$315,000						\$315,000			\$315,000	Renton. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined numerous large trees, likely to fall into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility, near the upstream end.
107	WFL7 CRT2 ZONE D 2020 REPAIR	Cedar	Agreement	\$5,142,656	\$190,323		\$5,332,979	\$0	\$0	\$0	\$0	\$0	\$5,332,979			\$5,335,656	Renton. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing. This damage is to the CRT 2 revetment downstream of the emergency repair site listed separately; area is referred to as "Zone D".
108	WFL7 DORRE DON AVULSION ANALYSIS	Cedar	FCD Const		\$63,466		\$63,466	\$0	\$0	\$0	\$0	\$0	\$63,466			\$100,000	Renton. The main channel has avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE.
109	WFL7 DORRE DON NBHOOD IMPRVMT	Cedar	FCD Const		\$800,000		\$800,000	\$0	\$0	\$0	\$0	\$0	\$800,000			\$800,000	Renton. Capital Investment Strategy: This project will acquire flood-prone homes per the Cedar CIS, as well as evaluate if changes to the levee and road elevation will result in meaningful flood risk reduction and to determine what level of protection can be provided. The study would also evaluate other structural improvements such as raising Lower Dorre Don Way SE upstream and downstream of the trail crossing and farther downstream near RM 16.3. The Cedar CIS will be reviewed by the District in 2021 in light of changed conditions from the 2020 flood disaster.
110	WFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	\$1,023,786	(\$22,851)	\$135,197	\$1,136,132	\$5,088,710	\$32,782	\$0	\$0	\$0	\$6,257,624			\$8,565,684	Renton. Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
111	WFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement		\$11,681		\$11,681	\$0	\$0	\$0	\$0	\$0	\$11,681			\$100,000	Issaquah. This project will construct improvements to the intersection which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaquah Hobart Road SE and SE May Valley Road.
112	WFL7 JAN RD LEVEE SETBACK	Cedar	FCD Const	\$9,573,987	\$36,869	\$2,725,965	\$12,336,821	\$26,204	\$0	\$0	\$0	\$0	\$12,363,025			\$15,976,060	Renton. Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, construction of side channel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023.
113	WFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	Agreement		\$435,544		\$435,544	\$0	\$0	\$0	\$0	\$0	\$435,544			\$520,000	Renton. Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 3) conduct cost-benefit analysis.
114	WFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	\$1,410,000	\$991,977		\$2,401,977	\$160,704	\$4,540,762	\$1,631,719	\$0	\$0	\$8,735,162			\$8,987,388	Renton. Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or 2022.
115	WFL7 MADSEN CR CULVERT 2017	Cedar	Agreement		\$137,930		\$137,930	\$0	\$0	\$0	\$0	\$0	\$137,930			\$3,326,000	Renton. To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
116	WFL7 MADSEN CR RENTON	Cedar	Agreement		\$403,055		\$403,055	\$0	\$0	\$0	\$0	\$0	\$403,055			\$635,000	Renton. Design and implement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year level flood protection for properties north of SR 169.
117	WFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const		\$15,031		\$15,031	\$0	\$0	\$0	\$0	\$0	\$15,031			\$490,246	Renton. Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee. Pending results of landslide hazard analysis, FCD will consider options for a project.
118	WFL7 TABOR-CROWALL REVETMENT	Cedar	FCD Const	\$635,325	\$405,561		\$1,040,886	\$156,483	\$4,287,000	\$36,000	\$0	\$0	\$5,520,369			\$5,731,822	Renton. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank along 200 feet - damage likely to occur next major high-flow event.
119	WFL7 RIVERBEND MHP ACQ	Cedar	FCD Acq/Elev		\$48,916	(\$48,916)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,962,522	Renton. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD portion of scope is complete.
120	WFL7 SR 169 FLOOD REDUCTION	Cedar	FCD Const		\$1,144,266	\$600,334	\$1,744,600	\$0	\$0	\$0	\$0	\$0	\$1,744,600			\$5,485,588	Renton. Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary design.
121	Cedar-Sammamish Subtotal			\$25,050,016	\$26,214,426	\$3,835,438	\$55,099,880	\$12,356,266	\$15,485,637	\$7,200,077	\$3,710,000	\$3,200,000	\$97,051,860			\$210,663,399	
122																	
123																	
124	WFL8 BRISCOE LEVEE SETBACK	Green	Agreement		\$1,973,224		\$1,973,224	\$0	\$0	\$0	\$0	\$0	\$1,973,224			\$23,330,271	Kent. Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
125	WFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	\$490,862	\$145,589	(\$475,000)	\$161,451	\$506,479	\$3,477,822	\$971,315	\$3,898,218	\$4,015,165	\$13,030,450			\$13,887,277	Renton. This project will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray system.
126	WFL8 BRPS FISH PASS IMPRVMTS	Green	FCD Const	\$1,420,719	\$635,405		\$2,056,124	\$3,238,220	\$9,942,392	\$10,127,229	\$61,345	\$0	\$25,425,310			\$25,729,049	Renton. This project will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage systems.

No.	Title	Basin	Type of project	2022 Adopted	2021 Carryover	2022 Reallocation Request	2022 Revised	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected	Total (Including 2021 Carryover)	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
184	WLFLG URBAN STREAMS GRANTS	Countywide	Grant	(\$3,000,000)	\$3,000,000		\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$0	
185	WLFLG WRIA GRANTS	Countywide	Grant	\$10,007,902	\$15,507,567		\$25,515,469	\$10,259,596	\$10,517,620	\$10,782,133	\$11,053,299	\$11,331,285	\$79,459,402			\$115,638,509	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
186	WLFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	\$850,701	\$798,669		\$1,649,370	\$1,191,950	\$1,064,100	\$815,500	\$628,200	\$608,500	\$5,957,620			\$10,614,573	Evaluation of capital projects to determine effectiveness and identify project design improvements.
187	WLFLQ SUBREGNL OPPRTNTY FUND	Countywide	Grant	\$6,012,016	\$16,667,054		\$22,679,070	\$6,092,142	\$6,170,764	\$6,247,632	\$6,324,334	\$6,408,362	\$53,922,304			\$104,632,133	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
188	WLFLX CENTRAL CHARGES	Countywide	FCD Const	\$100,000	\$97,850	\$102,150	\$300,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$800,000			\$1,813,643	Central charges related to the FCD's capital fund.
189	WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const		\$350,008		\$350,008	\$0	\$0	\$0	\$0	\$0	\$350,008			\$500,000	Stockpile role for future flood damage repairs.
190	WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	FCD Const		\$1,250,000	(\$250,000)	\$1,000,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$2,250,000			\$2,669,042	Contingency for emergency response actions during a flood event.
191	Countywide Subtotal			\$29,272,414	\$53,559,350	(\$147,850)	\$82,683,914	\$30,504,868	\$31,030,830	\$31,448,753	\$31,942,640	\$32,626,656	\$240,237,661			\$350,210,482	
192																	
193	Grand Total			\$144,903,015	\$197,677,425	(\$5,462,478)	\$337,117,962	\$103,209,364	\$168,942,585	\$108,864,364	\$70,238,745	\$61,677,274	\$850,050,294			\$1,490,479,817	

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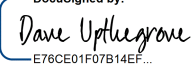
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Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari™ 3.0 or above (Mac only)
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