# King County

Proposed No. FCD2020-11.2

#### **KING COUNTY**

#### Signature Report

#### **FCD Resolution**

**Sponsors** 

A RESOLUTION relating to the operations and finances of 1 the King County Flood Control Zone District; adopting a 2 revised 2020 budget, district oversight budget, capital 3 4 budget, six-year capital improvement program for 2020-5 2025; and amending Resolution FCD2019-13.2 and Resolution FCD2020-05.1. 6 7 WHEREAS, the King County Flood Control Zone District ("the District") adopted its 2020 work program, budget, operating budget, capital budget, and six-year 8 9 capital improvement program in Resolution FCD2019-13.2, and 10 WHEREAS, the District adopted an amendment to its 2020 budget, operating budget, capital budget, and six-year capital improvement programs in Resolution 2020-11 05.1, and 12 WHEREAS, the annual carry-forward budget resolution is necessary to provide 13 budget authority for unspent appropriations from the prior year and to reinstate contract 14 15 encumbrances, and WHEREAS, the carry-forward amount for unspent appropriations from 2018 to 16 2019 is \$113,566, 131, and 17 18 WHEREAS, the District desires to continue respond to the October 2019 flood event and the February 2020 Presidential Major Disaster flood event by reallocating 19

20	\$12.5 million, and
21	WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the
22	proposed carry-forward amount and a supplemental budget on June 10, 2020, and
23	WHEREAS, pursuant to RCW 86.15.110, the board of supervisors ("the Board")
24	has determined that the flood control improvements adopted by this resolution generally
25	contribute to the objectives of the District's comprehensive plan of development, and
26	WHEREAS, the Board desires to adopt amendments to the District's 2020
27	budget, operating budget, capital budget, and six-year capital improvement program;
28	NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF
29	SUPERVISORS OF THE KING COUNTY FLOOD CONTROL ZONE DISTRICT:
30	SECTION 1. The Board adopts a revised 2020 budget for the District, as set forth
31	in Attachment B to this resolution, titled "2020 Reallocation Budget June 22, 2020," and
32	amends Section 1 of FCD2020-05.1 accordingly.
33	SECTION 2. The Board adopts a revised 2020 operating budget for the District,
34	as set forth in Attachment C to this resolution, titled "2020 Reallocation Operating
35	Budget June 22, 2020," and amends Section 1 of FCD2019-13.2 accordingly.
36	SECTION 3. The Board adopts a revised 2019 capital budget for the District,
37	consisting of the projects and expenditures Attachment D to this resolution, titled "2020
38	Reallocated Capital Budget June 22, 2020," and amends Section 1 of FCD2020-05.1
39	accordingly.
40	SECTION 4. The Board adopts a revised six-year capital improvement program
41	for the District, as set forth in Attachment E to this resolution, titled "2020-2025
42	Reallocated Six-Year CIP June 22, 2020," and amends Section 1 of FCD2020-05.1

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43	accordingly.
44	SECTION 5. The Board adopts a revised 2020-2025 capital budget project list, as
45	set forth in Attachment H to this resolution, titled "2020-2025 Six-Year CIP Project
46	Allocations + Carryover June 22, 2020," and amends Section 1 of FCD2020-05.1
47	accordingly.
48	SECTION 6. The Board directs King County water and land resources division to
49	provide a monthly report to the District executive director on the status of recruitment
50	and hiring of all vacant and newly authorized positions funded by the District. If any of
51	the five newly created capital project staff positions remain unfilled by December 31,
52	2020, the District may consider reallocating the Operating Budget to achieve project
53	delivery goals through alternative contracting methods.
54	SECTION 7. A. The Board authorizes the extension, enlargement, acquisition or
55	construction of improvements, as applicable, as set forth on Attachments B, C, D, E and
56	H of this resolution.
57	B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as
58	amended, serves as the comprehensive plan of development for flood control and
59	floodplain management, and has been prepared for the streams or watercourses upon
60	which the improvements will be enlarged, extended, acquired or constructed. The
61	improvements authorized herein generally contribute to the objectives of the Flood Plan.
62	C. For improvements that are to be constructed, preliminary engineering studies
63	and plans have been made, consisting of one or more of the following: the 2006 Flood
64	Plan, as amended, preliminary feasibility analyses, conceptual designs and design

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

#### FCD Resolution

- D. Estimated costs for acquisitions and improvements together with supporting
- data are set forth on Attachments B, C, D, E and H.

#### **FCD** Resolution

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E. The improvements set forth in Attachments B, C, D, E and H are determined

to benefit the county as a whole, as well as the zone.

FCD Resolution FCD2020-11 was introduced on and passed as amended by the King County Flood Control District on 6/24/2020, by the following vote:

Yes: 8 - Ms. Balducci, Mr. Dembowski, Mr. Dunn, Ms. Kohl-Welles, Ms. Lambert, Mr. McDermott, Mr. Upthegrove and Mr. Zahilay Excused: 1 - Mr. von Reichbauer

KING COUNTY FLOOD CONTROL ZONE DISTRICT KING COUNTY, WASHINGTON

DocuSigned by:

Dave Upthegrove, Chair

ATTEST:

Melani Pedraga.

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Melani Pedroza, Clerk of the Board

**Attachments:** B. 2020 Reallocation Budget amended June 24, 2020, C. 2020 Reallocated Operating amended June 24, 2020, D. 2020 Reallocated Capital Budget amended June 24, 2020, E. 2020-2025 Reallocated Six Year CIP amended June 24, 2020, H. 2020-2025 Six-Year CIP Project Allocations + Carryover amended June 24, 2020

# 2020 Reallocation Budget Attachment B

	2020	2019	2020	2020
Program	Approved	Carryover	Reallocation	Revised
Flood District Administration	913,238	0	0	913,238
Maintenance and Operation	13,464,210	275,000	0	13,739,210
Construction and Improvements	94,984,555	113,291,131	(5,728,248)	202,547,438
Bond Retirement and Interest	\$0	\$0	\$0	\$0
Total	109,362,003	113,566,131	(5,728,248)	217,199,886
Projected Capital Reserves - Cash Fund Balance 1	93,504,495			96,977,354
Projected Capital Reserves - Budgetary Fund Balance <sup>2</sup>	(10,452,178)			(59,600,979)

<sup>&</sup>lt;sup>1</sup> The cash fund balance assumes an expenditure rate of 23% of the capital budget in 2020, informed by prior year actuals.

<sup>&</sup>lt;sup>2</sup> The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

#### 2020 Reallocated Operating Budget

#### Attachment C

	2020	2019	2020	2020	
	Approved	Carryover	Reallocation	Revised	Comments
Annual Maintenance	\$3,305,056			\$3,305,056	
Flood Hazards Plan, Grants, Outreach	\$675,380	\$275,000		\$950,380	Carryover 2019 expenditure authority for Flood Hazard Management Plan update
Flood Hazard Studies, Maps, Technical Services	\$3,383,416			\$3,383,416	
Flood Preparation, Flood Warning Center	991,042			\$991,042	
Program Management, Supervision, Finance, Budget	\$1,727,017			\$1,727,017	
Program Implementation	\$246,986			\$246,986	
Overhead / Central Costs*	3,135,313			\$3,135,313	
Total	\$13,464,210	\$275.000	\$0	\$13,739,210	

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

# **2020 Reallocated Capital Budget** Attachment D

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	\$8,786,248	\$5,912,617	\$9,970,641	\$0	\$24,669,506
Cedar River Basin	\$2,932,813	\$6,966,708	\$17,506,737	\$0	\$27,406,257
Green River Basin	\$27,594,639	\$28,328,638	\$36,543,105	\$0	\$92,466,382
White River Basin	\$280,727	\$2,309,702	\$412,500	\$0	\$3,002,929
Effectiveness Monitoring	\$0	\$1,188,300	\$0	\$0	\$1,188,300
Countywide Miscellaneous	\$0	\$0	\$496,646	\$1,291,929	\$1,788,575
Opportunity Fund	\$0	\$0	\$22,626,278	\$0	\$22,626,278
Grant Funds	\$0	\$0	\$29,399,211	\$0	\$29,399,211
Total	\$39,594,426	\$44,705,964	\$116,955,119	\$1,291,929	\$202,547,438

#### 2020 - 2025 Reallocated Six-Year CIP

#### Attachment E

	2020	2019	2020	2020						2020 - 2025
Name	Approved	Carryover	Reallocation	Revised	2021	2022	2023	2024	2025	Total
Snoqualmie River Basin	\$8,933,012	\$12,768,999	2,967,495	24,669,506	14,583,585	18,763,277	13,555,407	27,126,341	27,324,575	126,022,690
Cedar River Basin	\$7,833,030	\$15,088,184	4,485,043	27,406,257	17,621,435	4,463,445	4,940,367	3,541,720	3,932,358	61,905,582
Green River Basin	\$55,025,510	\$52,129,521	(14,688,649)	92,466,382	85,855,463	76,741,492	10,806,094	8,565,231	5,092,073	279,526,735
White River Basin	\$1,171,209	\$1,673,690	158,030	3,002,929	1,259,966	8,672,705	8,508,038	136,895	190,000	21,770,533
Effectiveness Monitoring	\$330,232	(\$123,640)	981,708	1,188,300	890,956	834,056	892,524	804,751	585,512	5,196,098
Countywide Miscellaneous	\$100,000	\$1,320,450	368,125	1,788,575	392,592	396,870	401,276	405,815	410,489	3,795,617
Subregional Opportunity Fun	\$6,091,017	\$16,535,261	-	22,626,278	6,255,428	6,414,885	6,568,517	6,720,084	6,869,230	55,454,422
Flood Reduction Grants	\$15,500,545	\$13,898,666	-	29,399,211	12,879,132	13,225,580	13,581,348	13,946,687	14,321,852	97,353,810
WRIA Grants	\$0	\$0	-	-	-	-	-	-	-	-
Total	\$94,984,555	113,291,131	(5,728,248)	202,547,438	139,738,557	129,512,310	59,253,571	61,247,524	58,726,089	651,025,488

# 2020 - 2025 Six-Year CIP Project Allocations + Carryover Attachment H

June 22, 2020

Capital Investment Strategy Project
Grant/External Revenue Awarded
Cost Share Contribution to Others
New Project - 2019 Revised
Updated scope based on FCD approved charter

											Updated scope b	ased on FCD app	roved charter					
														6-Year CIP				Comments
			2019 Inception to Date	2019 Inception to Date	2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total (Including 2019	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover	Request	Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10	10+ Year	Total	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
1 WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	FCD Acqu/Elev	\$1,145,404	\$703,571	(\$456,736)	\$441,833	\$3,634,903	\$3,620,000	\$456,736	\$0	\$0	\$0	\$115,9	27 \$4,192,663			\$4,896,235	future flood events.
2 WLFL0 SKY W RVR DR FLOOD STUDY	SF Skykomish	FCD Const	\$81,237	\$2,856	(\$78,381)	\$78,381		\$0	\$78,381	\$0	\$0	\$0		\$0 \$78,381			\$81,237	Skykomish. This project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the frequency of flooding of homes and property within the Town of Skykomish.
3 WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	\$150,000	\$85.402		\$64.599		\$64.599	\$0	\$0	\$0	\$0		\$0 \$64.599	,		\$150.001	Skykomish. Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
4 WLFL0 TIMBER LN EROSN BUYOUTS		FCD Acqu/Elev	\$2,409,874	\$1.969.442	(\$265,622)	\$440.432	\$358,200	\$433,000	\$0	\$765.632	\$0	60		\$0 \$1.198.632				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.
			. , , .	* 1,000 1 1 1	(\$365,632)	*	\$350,200	\$433,000	φ <u>υ</u>	\$765,632	, şu			**,***				Skykomish. Project will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry. Will likely be implemented by the Strike
5 WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const	\$16,040	\$12,970		\$3,070		\$3,070	\$0	\$0	\$0	\$0		\$0 \$3,070	<u>'</u>		\$16,040	I earn. Skykomish. Revetment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150
6 WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const	\$600,000	\$160,050		\$439,950		\$439,950	\$0	\$0	\$0	\$0		\$0 \$439,950	)		\$600,000	LF (needs verification). Failure has occurred previously in this section of revetment.  North Bend. Reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reinig
7 WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	\$309,028	\$309,686		(\$658)	\$728	\$70	\$0	\$0	\$0	\$0		\$0 \$70	)		\$309,756	Road to reduce the frequency of community isolation caused by floodwaters overtopping these roadways.
																		North Bend. Cost-share of \$8.4M levee setback project. The 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
8 WLFL1 BENDIGO UPR SETBACK N BEND	Upper Snoq	Agreement	\$50,000	\$124		\$49,876		\$49,876	\$0	\$0	\$0	\$0	\$4,200,0	00 \$4,249,876			\$4,250,000	application for the remaining \$4.2 million  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
9 WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	\$540,165	\$302,511	\$133,524	\$237,654		\$371,178	\$238,175	\$4,052,588	\$4,560	\$0		\$0 \$4,666,502	!		\$4,969,013	South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.  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
10 WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snoq	FCD Const	\$0	\$0	\$120,000	\$0		\$120,000	\$525,000	\$1,830,000	\$1,830,000	\$1,830,000	\$2,265,0				\$8,400,000	Strategy)
11 WLFL1 MF SNO CORRIDOR IMP 12 WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq Upper Snoq	FCD Const FCD Const	\$954 \$1,824,912	\$954 \$1,658,993		\$165,919		\$193,504	\$1,162,249 \$0	\$1,196,980	\$1,232,889 \$0	\$377,890 \$0		\$0 \$3,970,008 \$0 \$193,504			\$1,852,497	North Bend. Placeholder for corridor plan implementation project(s)  North Bend. Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2018.
13 WLFL1 MF SNO PL84-99	Upper Snoq	FCD Const	\$0	\$0	\$75,000	\$0		\$75,000	\$75,000	\$0	\$0	\$0		\$0 \$150,000	)		\$150,000	North Bend. Upgrade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.  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
14 WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement	\$724,000	\$722,080		\$1,920		\$1,920	\$0	\$0	\$0	\$0		\$0 \$1,920	,			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.
15 WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$350,000	\$750,000		\$0 \$1,100,000	' <del> </del>		\$1,100,000	North Bend. Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert.  North Bend. The North Fork Bridge was originally built in 1951 and is extremely vulnerable to scour as the channel thalweg migrates. In order to keep the
16 WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Agreement	\$177,742	\$177,742		\$0		\$0	\$0	\$0	\$0	\$0		\$0 \$0	)		\$177,742	bridge safe and reliable during a flood, it is important to protect the piers and abutments from scour failure.
17 WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	\$200,000	\$10,265		\$189,735		\$189,735	\$0	\$0	\$0	\$0		\$0 \$189,735	;		\$200,000	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.
																		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
18 WLFL1 RECORD OFFICE 2016 REPAIR	Honor Coop	Agraamant	\$987,835	\$168,985		\$818,850		\$818,850	\$0			60		\$0 \$818,850			\$987,835	City's planned "Riverwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, construction is scheduled for 2020.
	Upper Snoq	Agreement	\$907,035	\$100,900		\$010,000		\$010,000	φ <u>υ</u>	. 50	. 30	. 30			1			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
19 WLFL1 REIF RD LEVEE IMPROVEMENTS 20 WLFL1 REINIG RD ELEVATION	Upper Snoq Upper Snoq	FCD Const Agreement	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0	\$265,438	\$318,421 \$0	\$385,937 \$50,000	\$457,2 \$100,0	18 \$1,427,014 00 \$150,000			\$1,427,014 \$150,000	levee in place / setback levee / gravel removal / home elevations.  Snoqualmie. Elevate low section of Reinig Rd to alleviate flooding that blocks roadway.
21 WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snog	FCD Const	\$1,200,000	\$914,143	\$4,057,657	\$285.857	(\$3.943.514)	\$400,000	\$25,462	\$0	\$0	\$0		\$0 \$425.462	,		\$1 339 605	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 2020.
22 WLFL1 RIBARY CREEK		FCD Const	\$36,492	\$0.	\$150,000	\$36,492	(40)0.07	\$186,492	\$450,000	\$2,338,618	\$3,223,883	60		\$0 \$6,198,993			\$6.198.993	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.
23 WLFL1 SF CIS LONG TERM	Upper Snoq Upper Snoq	FCD Const	\$0	\$0 \$0	\$150,000	\$30,492		\$100,492	\$450,000	\$2,330,610	\$0	\$0		\$0 \$0	)	\$57,100,000	\$57,100,000	Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
24 WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0 \$0	\$47,200,000		\$47,200,000	Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.  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.
25 WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	\$388,000	\$198,682		\$189,318		\$189,318	\$727,790	\$1,031,736	\$0	\$0		\$0 \$1,948,844			\$2,147,526	
26 WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	\$3,550,000	\$2,739,161		\$810,839		\$810,839	\$0	\$0	\$0	\$0		\$0 \$810,839	,		\$3,550,000	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.
																		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
27 WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	\$51,090	\$47,340	\$300,000	\$3,750		\$303,750	\$360,910	\$0	\$0	\$0		\$0 \$664.660	,		\$712,000	failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE). Scheduled for 2018 construction.
ET WEI ET OF WILL THE THE ET OF WEI FAIR	оррог опоч	102 0000	ψο1,000	\$11,010	<del>\$000</del> ,000	ψ0,700		<del>4000,100</del>	ψοσο,στο	Ψ				φο 1,000			ψ112,000	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
28 WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	\$396,754	\$288,037		\$108,717		\$108,717	\$0	\$0	\$0	\$0		\$0 \$108,717	,		\$396,754	View Levee is a relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding. Project scheduled for 2018 construction.
																		North Bend. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie 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
29 WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const	\$0	\$0		\$0		\$0	\$0	\$0	\$0	\$0	\$100,0	00 \$100,000			\$100,000	evaluated in the SF Snoqualmie Corridor Plan.
30 WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement	\$0	\$0		\$0		\$0	\$0	\$0	\$150,000	\$0		\$0 \$150,000			\$150,000	
																		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
31 WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/Elev	\$12,717,550	\$11,552,715	\$1,756,037	\$1,164,835	(\$350,000)	\$2,570,872	\$2,295,755	\$2,364,628	\$2,435,567	\$2,508,634	\$2,583,8	93 \$14,759,348	-		\$26,312,064	Riverwalk project.  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
32 WLFL1 USACE PL 84-99 SF SNO	Upper Snoq	FCD Const	\$333,377	\$40,136		\$293,241		\$293,241	\$352,868	\$363,454	\$0	\$0	<b>#</b> 540.0	\$0 \$1,009,563			\$1,049,699	future assistance from the Corps in the event of flood damage to the levees
33 WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT 34 WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT	Lower Snoq	Agreement Agreement	\$0 \$0			\$0 \$0		\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$540,0 \$500,0	00 \$500,000			\$500,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping.  Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
35 WLFL2 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Agreement	\$0		\$1,118,000	\$0	\$350,000	\$1,468,000	\$0	\$0	\$0	\$0		\$0 \$1,468,000	' <del> </del>		\$1,468,000	City of Snoqualmie: Elevate several flood-prone homes in the areas around Walnut St and Northern St.  Duvall. Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of
36 WLFL2 DUTCHMAN RD REVETMENT	Lower Snoq	FCD Const	\$48,593	\$5.823		\$42,770	\$57,230	\$100,000	\$200.000	\$500,000	\$0	¢n.		\$0 \$800,000	,		\$00E 022	the Snoqualmie Valley downstream of Duvall. 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.
				1.7.			\$37,230		φ200,000	\$300,000				φουσ,σουσ	<u> </u>			Duvall. These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent
37 WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snoq	Agreement	\$400,000	\$277,937		\$122,063		\$122,063	\$0	\$0	\$0	\$0		\$0 \$122,063			\$400,000	loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.  Carnation. This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better
38 WLFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	FCD Const	\$979,803	\$829,335		\$150,468		\$150,468	\$115,214	\$118,670	\$122,230	\$125,897	\$129,6	74 \$762,153	3		\$1,591,488	withstand the impacts of flooding. Specific project actions include farm pads and elevation or flood proofing of agricultural structures.  Duvall. 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
39 WLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Snoq	Agreement	\$0	\$0	\$80,000	\$0	4	\$80,000	\$620,000	\$0	\$0	\$0		\$0 \$700,000	)		\$700,000	protect it against major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.
40 WLFL2 JOY 2020 REPAIR	Lower Snoq	FCD Const				\$0	\$100,000	\$100,000	\$3,620,000	)	\$0	\$0		\$0 \$3,720,000	<del>'                                     </del>		\$3,720,000	New capital construction project to protect SR 169 and critical public infrastructure in Renton.  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
41 WLFL2 L SNO 2019 BANK REPAIR 42 WLFL2 L SNO REP LOSS MITGTION	Lower Snoq Lower Snoq	Agreement FCD Acqu/Elev	\$2,200,000 \$1,695,671	\$1,111,942 \$1,279,413		\$1,088,058 \$416,258		\$1,088,058 \$416,258	\$0 \$0	\$0	\$0 \$0	\$0 \$0		\$0 \$1,088,058 \$0 \$416,258			\$2,200,000 \$1,695,671	MSE wall to prevent undercutting of the riverbank and roadway.  Carnation. Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
43 WLFL2 L SNO SCOUR REPAIR 2017			\$150,000	\$142,411		\$7.589		\$7.589	<b>#</b> 0		***	60		\$0 \$7.589				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.
43 WEFLZ E SNO SCOUR REPAIR 2017	Lower Snoq	Agreement	\$150,000	\$142,411		\$7,589		\$7,589	\$0	\$0	\$0	\$0		\$0 \$7,589	'		\$150,000	Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.  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.
44 WLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snoq	FCD Const	\$7,365,814	\$7,019,214		\$346,600		\$346,600	\$0	\$0	\$0	\$0		\$0 \$346,600	,		\$7,365,814	Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
			. ,	. ,,		,,		,	**					,			. ,,	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
45 WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snoq	FCD Acqu/Elev	\$3,043,609	\$2,230,892		\$812,717		\$1,085,580	\$530,450			\$579,637		\$0 \$3,304,785				structures.
46 WLFL2 MUD CREEK SEDIMENT FACILITY 47 WLFL2 SE 19TH WAY REVETMENT		Agreement FCD Const	\$0 \$1,916,294	\$0 \$1,835,637	\$432,000	\$0 \$80,657		\$432,000 \$80,657	\$0 \$0		\$0 \$0	\$0 \$0		\$0 \$432,000 \$0 \$80,657				Snoqualmie: Design and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site.  Fall City. Rebuild revetment to protect road access to high value agricultural operations and lands. Construction is complete.
48 WLFL2 SINNEMA QUAALE 2011 REPR	Lower Snog	FCD Const	\$12,508,516	\$12,447,548		\$60,968	(\$60.968)	\$0	.\$0	\$0	\$0	\$0		\$0 \$0	,			Duvall. Large capital project to repair 1000 linear feet of the Sinnema Quaale Upper revetment. Protects SR 203, two regional fiber optic lines, and Snoqualmie Valley Trail. Construction is complete.
49 WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snog	Agreement	,,250,0.0	÷,,			(\$22,000)	*0	\$250.000	\$250,000	60	60		\$0 \$500,000				Duvall. 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.
49 WLFL2 SNOQUALMIE VALLEY FEAS 50 WLFL2 STOSSEL REVETMENT	Lower Snoq Lower Snoq	FCD Const	\$0 \$0	\$0 \$0	\$50,000	\$0 \$0	\$50,000	\$100,000	\$250,000 \$150,000			\$2,500,000		\$0 \$500,000 \$0 \$3,420,000				CarnationPlaceholder costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE.
51 WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	\$1,107,886	\$970,781		\$137,105		\$137,105	\$0	\$0	\$0	\$0	:	\$0 \$137,105	,		\$1,107,886	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.
			. , . , . , . , . , . , . , . , . , . ,			. , , , ,			**					, , , , ,			. , . ,,,,,	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 Duvall. Construction is complete.
52 WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const	\$10,778,068	\$10,644,758		\$133,310		\$133,310	\$0	\$0	\$0	\$0		\$0 \$133,310			\$10,778,068	The organical structures of discontinuous of the organic of the or

Part	ce approximately 6 feet from edge of gravel trail. Continued erosion will major flood. Construction is complete.  ut Camp levee revertment below side channel confluence with mainstern. urther scour and potential failure. Scheduled for 2018 construction.  ut damp levee revertment below side channel confluence with mainstern. urther scour and potential failure. Scheduled for 2018 construction.  ut of facility. Potential for high flows and erosive damage to residences are exercised to the second of the second of the control of the second of the
ONLY   THE PROPERTY	ce approximately 6 feet from edge of gravel trail. Continued erosion will major flood. Construction is complete.  ut Camp levee revertment below side channel confluence with mainstern. urther scour and potential failure. Scheduled for 2018 construction.  ut damp levee revertment below side channel confluence with mainstern. urther scour and potential failure. Scheduled for 2018 construction.  ut of facility. Potential for high flows and erosive damage to residences are exercised to the second of the second of the control of the second of the
50   15   15   15   15   15   15   15	major flood. Construction is complete.  It Camp lever evertement below side channel confluence with mainstern.  urther scour and potential failure. Scheduled for 2018 construction.  It of facility. Potential for high flows and erosive damage to residences are considered to the construction of the facility. Potential for high flows and erosive damage to residences are cessary to remove four homes in unincorporated King County from the annel Migration study  the highest priority levee setback for flood risk reduction. Phase 2  e setback of the Upper Frew Levee and undermined face rock near the Snoqualmie Valley Trail. The sion would increase flooding impacts on portions of the Remilinger coquire remaining 14 homes as funds become available.  Vately-constructed rubble levee at upstream end of the community access thomes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci and and evelop a plan. Update and include upper watershed sediment construct) to add bridge span(s), raise the highway and relocate King rew. Upper Frew. Remlinger, and Girl Scout Camp.  as policy direction by the Executive Committee.  To perform the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the imposence of the level of the l
MAINTAINE AND PROPERTY   16   170 Cook   1510000   1510000   1510000   1510000   1510000   151000   151000	rd of facility. Potential for high flows and erosive damage to residences in encessary to remove four homes in unincorporated King County from the annel Migration study.  In increasing the promote four homes in unincorporated King County from the annel Migration study.  In increasing the set back for flood risk reduction. Phase 2  In estback of the Upper Frew Levee  In and undermined face rock near the Snoqualmie Valley Trail. The sion would increase flooding impacts on portions of the Remlinger could remaining 14 homes as funds become available.  In example, the constructed rubbie levee at upstream end of the community access homes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci didy and develop a plan. Update and include upper watershed sediment construct) to add bridge span(s), raise the highway and relocate King revew. Upper Frew, Remlinger, and Girl Scout Camp.  In applicy direction by the Executive Committee.  It is direc
Column   C	In necessary to remove four homes in unincorporated King County from the annel Migration study  In highest priority levee setback for flood risk reduction. Phase 2  In estimate stroinity levee setback for flood risk reduction. Phase 2  In estimate stroinity levee setback for flood risk reduction. Phase 2  In estimate stroining the street set of the Remlinger could remaining the stroining stroining the stroining stroining the stroining stroining the stroining str
Description   Process	annel Migration study  the highest priority levee setback for flood risk reduction. Phase 2  e setback of the Upper Frew Levee and undermined face rock near the Snoqualmie Valley Trail. The sion would increase flooding impacts on portions of the Remilinger cquire remaining 14 homes as funds become available.  Vivately-constructed rubble levee at upstream end of the community access thomes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci  vidy and develop a plan. Update and include upper watershed sediment loconstruct) to add bridge span(s), raise the highway and relocate King  rew, Upper Frew, Remlinger, and Girl Scout Camp. as policy direction by the Executive Committee. as policy direction by the Executive Committee. as policy direction by the Executive Committee.  inguited implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the  ing sections of Tolt River Road. on to reduce or eliminate isolation. Implement additional road elevations ophy for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee section is immediately adjacent to the Twin Rivers golf course barn, 18 construction.
SECTION   PROPERTY   TO   PR	and undermined face rock near the Snoqualmie Valley Trail. The sison would increase flooding impacts on portions of the Remlinger coquire remaining 14 homes as funds become available.  vately-constructed rubbie levee at upstream end of the community access homes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci day and develop a plan. Update and include upper watershed sediment construct) to add bridge span(s), raise the highway and relocate King rew, Upper Frew, Remlinger, and Girl Scout Camp. as policy direction by the Executive Committee.  as policy direction by the Executive Committee.  lized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ling sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee section is immediately adjacent to the Twin Rivers golf course barn, 188 construction.
Section   Compact   Section   Sect	and undermined face rock near the Snoqualmie Valley Trail. The sison would increase flooding impacts on portions of the Remlinger coquire remaining 14 homes as funds become available.  vately-constructed rubbie levee at upstream end of the community access homes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci day and develop a plan. Update and include upper watershed sediment construct) to add bridge span(s), raise the highway and relocate King rew, Upper Frew, Remlinger, and Girl Scout Camp. as policy direction by the Executive Committee.  as policy direction by the Executive Committee.  lized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ling sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee section is immediately adjacent to the Twin Rivers golf course barn, 188 construction.
Street   Control   Contr	ivately-constructed rubble levee at upstream end of the community access to homes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci lidy and develop a plan. Update and include upper watershed sediment a construct) to add bridge span(s), raise the highway and relocate King rew, Upper Frew, Remlinger, and Girl Scout Camp.  as policy direction by the Executive Committee.  Itized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ing sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and risk at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 198 construction.
ONLY   SAME SOLD MINISTERING   1.50	Incomes removed from high hazard areas within and just upstream and location. Remove illegal revetment and roads in San Souci and yand develop a plan. Update and include upper watershed sediment (construct) to add bridge span(s), raise the highway and relocate King rew. Upper Frew. Remlinger, and Girl Scout Camp.  as policy direction by the Executive Committee.  as policy direction by the Executive Committee.  as policy direction by the Executive Committee.  inged the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ling sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 138 construction.
Str.   March Service   S	dy and develop a plan. Update and include upper watershed sediment construct) to add bridge span(s), raise the highway and relocate King rew, Upper Frew, Remlinger, and Girl Scout Camp.  as policy direction by the Executive Committee.  as policy direction by the Executive Committee.  itized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ing sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 138 construction.
al Muris Sectioner Manual Press Trail CCD cost   540,986   511,792   539,550   52,086   511,792   539,550   52,086   511,792   539,550   52,086   511,792   539,550   52,086   511,792   539,550   52,086   511,792   539,550   52,086   511,792   539,550   511,792   539,550   52,086   511,792   539,550   539,550   539,	rew, Upper Frew, Remlinger, and Girl Scout Camp. as policy direction by the Executive Committee. as policy direction by the Executive Committee. as policy direction by the Executive Committee. tized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ing sections of Tolt River Road. on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 18 construction.
64 MPL 3 SEC 20 REAL PROVINCES TO STATE AND THE COLORS SEC 20 SEC	rew. Unper Frew. Remlinger, and Girl Scout Camp, as policy direction by the Executive Committee. as policy direction by the Executive Committee. as policy direction by the Executive Committee. It was policy direction by the Executive Committee. It was a policy direction by the Executive Committee. It was a policy direction benefits or the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ling sections of Tolt River Road. On to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 138 construction.
68 INFL® TOLIC DRIVE TERM TOR FOD Const \$10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	as policy direction by the Executive Committee. as policy direction by the Executive Committee. titized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ing sections of Tolt River Road. on to reduce or eliminate isolation. Implement additional road elevations oply for grant funding. Levee setback to increase sediment storage and rk at risk of channel migration along the Raging River in the Alpine Manor evee section is immediately adjacent to the Twin Rivers golf course barn, 18 construction.
GE   WELLS TOLI CORRIDOR PLAN   Toli   FCD Comet   \$11,55,657   \$11,35,227   \$14,400   \$50   \$	titized implementation strategy for near-term and long-term floodplain mize the elevation of new levees to maximize flood risk reduction benefits roject priorities will be determined by the Board through adoption of the ing sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 138 construction.
6 WELTS TOLT R LEVEE LOS. ANALYSIS  Tolt  FCD Const  \$413.404  \$344.315  \$778.651  \$69 WELTS TOLT R LEVEE LOS. ANALYSIS  Tolt  FCD Const  \$413.404  \$344.315  \$778.651  \$69 WELTS TOLT R MEDICAL STRUCK  Tolt  FCD Acquiries  \$4.00.100  \$4.214.777  \$50.071  \$4.00.100  \$4.214.777  \$50.071  \$4.00.100  \$4.214.777  \$50.071  \$4.00.100  \$4.214.777  \$50.071  \$4.00.100  \$4.00.100  \$4.214.777  \$50.071  \$4.00.100  \$4.000  \$4.00.100  \$4.000  \$	roject priorities will be determined by the Board through adoption of the ing sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations opply for grant funding. Levee setback to increase sediment storage and rik at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 138 construction.
TO WELLA TOLL TR MILE 1.1 SETBACK TOLL FLOWLING TOLL FLOWLING TOLL TR MILE 1.1 SETBACK TOLL FLOWLING TOLL FLOWLING TOLL FLOWLING TOLL TR MILE 1.1 SETBACK TOLL FLOWLING TOLL FLOWLIN	ing sections of Tolt River Road.  on to reduce or eliminate isolation. Implement additional road elevations  poply for grant funding. Levee setback to increase sediment storage and  rk at risk of channel migration along the Raging River in the Alpine Manor  evee protects the landward area from flooding and serves as the road  evee section is immediately adjacent to the Twin Rivers golf course barn,  18 construction.
To	on to reduce or eliminate isolation. Implement additional road elevations poly for grant funding. Levee setback to increase sediment storage and rk at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 018 construction.
To WLFL3 TOLT R RD I IMPROVEMENTS TOLL FCD Const TOLL FCD FCD Const TOLL FCD	on to reduce or eliminate isolation. Implement additional road elevations poly for grant funding. Levee setback to increase sediment storage and rk at risk of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 018 construction.
The first supper reference   The first supp	k it is ken of channel migration along the Raging River in the Alpine Manor evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 018 construction.
Foundation   Fou	evee protects the landward area from flooding and serves as the road evee section is immediately adjacent to the Twin Rivers golf course barn, 018 construction.
Fall City, Repair 150 lineal feet of dissonation us damage and missing tee role. The embarkem Fro Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, an access road to the Secondary of Dike Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to the Secondary of Park Rd, and access road to	evee section is immediately adjacent to the Twin Rivers golf course barn, 018 construction.
Following   Foll	018 construction.
77   WLFL4 RAGING SCOUR REPAIR 2017   Raging   Agreement   \$80,000   \$25,062   \$54,938   \$54,938   \$0   \$0   \$0   \$54,938	special repair cool magazor measures to protect the recting, it correc
\$0	
81 WLFL5 ALLEN LK OUTLET IMPRVMNT Sammanish Agreement \$0 \$400,000 \$1,400,000	
The Bayless Revetment protects a sole access bridge to a residential commu.  ### The Bayless Revetment protects a sole access bridge to a residential commu.  ### Hanked and/or overtopped during the flood fresulting in flooding of the low lyin  ### 82 WLFL5 BAYLESS 2020 REPAIR  ### Sammamish  ### FCD Const  ### Sammamish  ### FCD Const  ### Sammamish	stely 200 properties, look at upstream and downstream
82 WLFL5 BAYLESS 2020 REPAIR Sammamish FCD Const \$0 \$50,000 \$50,000 \$0 \$0 \$0 \$0 \$0 \$250,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	nity (about 70 homes) in the City of Issaquah. The facility was
	flooding to the neighborhood.
83 WLFLS GEVINGE DAVIS CRIN CITY OF SAMMAMISH Sammamish Agreement 50 \$0.50,000 \$0.50,0	
Sammamish   FCD Const   Sp,000   \$0,000   \$0,000   \$0   \$0   \$0	
Sammariish   FCD Const   Sp.	
87 WLFL5 SAMMAMISH CAPITAL INVESTMENT STRATEGY Sammamish FCD Const S250,000 \$250,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	trict funding along the Sammamish River.
with Parks. Full permitting will be required as work will be below OHW, plus an upda 88 WLFL5 SAMMAMISH R BANK REPAIRS Sammamish FCD Const \$1,180,065 \$1,175,342 \$4,723 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	ted easement will be required from WSDOT and FHWA due to I-405
Redmond. Willowmoor Floodplain Restoration Project seeks in More deduce the frequency downstream Sammamish River flood control performance and enhancing habitat. The	and duration of high lake levels in Lake Sammamish while maintaining
ongoing flow conveyance, downstream flood control, potential extreme lake level rec impacts and costs. In June 2016 the Executive Committee approved a motion (2016-	uction, habitat conditions improvement, and reduction of maintenance
Narious design elements such as variable depth pools, cold water supplementation, a sammamish FCD Const \$3,520,977   \$3,223,377   \$297,600   \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
89 WLFL6 BEAR CRK FLOOD EROSION REDMOND Lk Wash Tribs Agreement \$0 \$0 \$550,000 \$0 \$0 \$1,100,000 Redmond: Protect Avondale Rd from an embankment that has been scoured by floor Bellevue. Reduce flooding during high-intensity storm events along Factoria Bouleva	
90 WLFL6 FACTORIA BLVD DRAINAGE Lk Wash Tribs Agreement \$0 \$0 \$1,071,000 \$3,721,000 \$2,022,000 \$0 \$0 \$0 \$6,814,000 events have increased in frequency and are anticipated to be even more frequent in Issaquah. Prepare a feasibility analysis report which will include, but is not limited to,	he future as a result of climate change.
91 WLFL6 ISSAQUAH TRIB FEAS Lk Wash Tribs Agreement \$350,000 \$233,156 \$116,844 \$0 \$0 \$0 \$0 \$116,844 \$116,844 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
Bellevue. Increase conveyance capacity at the five box culvert crossings. Disconnect 92 WLFL6 LOWER COAL CRK PH I Lk Wash Tribs Agreement \$10,461,592 \$7,754,240 \$600,000 \$2,707,352 \$300,000 \$205,000 \$1,432,358 \$6,834,710 \$14,588,950 Washington. Implemented by City of Bellevue. Expenditure forecast to be updated by City of Bellevue. The control of th	
Newcastle. As recommended in the May Creek Basin Plan, two sediment trap facilities Creeks) to limit sediment loading. FCD funding is for initial feasibility analysis, landow	s will be constructed on May Creek tributaries (Cabbage and Country
93 WLFL6 MAY VALLEY DRAINAGE IMPRVMNT Lk Wash Tribs	
94 WLFL7 BELMONDO 2020 REPAIR Cedar FCD Const \$0 \$0 \$50,000 \$50,000 \$50,000 \$0 \$0 \$0 \$100,000 damage likely to occur next major high-flow event.  Residential land use and critical facilities (Utilities, CRT, SR 169). Regional impact ex	
95 WLFL7 BRODELL 2020 REPAIR Cedar FCD Const \$0 \$0 \$50,000 \$50,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
97 WLFL7 CDR PRE-CONST STRTGC ACQ Cedar FCD Acqui/Elev \$4,330,532 \$3,986,708 \$343,824 \$331,176 \$675,000 \$0 \$0 \$1,200,000 \$1,875,000 \$5,861,708 Investment Strategy).	control District capital projects are dependent (Project J in the Capital
98 WLF17 CEDAR CIS LONG TERM Cedar FCD Const \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
Renton. This six-year flood risk reduction capital investment strategy will cover the Ci Washington. Project complete. Closeout in 2020.	
100   WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	ing by raising the road through the application of a thick layer of overlay.
101 WLFL7 CEDAR R DWNSTREAM 2024 IMPV         Cedar         Agreement         \$0         \$0         \$0         \$0         \$100,000         \$100,000         \$100,000         \$100,000         This emergency action will armor up to 300 feet river bank and construct a buried rev	etment to stabilize the bank and prevent further erosion to the most
102 WLFL7 CEDAR R TRAIL SITE 2         Cedar         FCD Const         \$0         \$300,000         \$0         \$1,178,000         \$0         \$1,178,000	
103 WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR         Cedar         FCD Const         \$0         \$50,000         \$50,000         \$136,000         \$0         \$186,000         Jam (ELJ #6), within the Cedar Rapids reach.           Renton. Implement projects identified in the Capital Investment Strategy, approved a         Renton. Implement projects identified in the Capital Investment Strategy, approved a	policy direction by the Executive Committee. Project K on the CIS: Risk
104   WLFL7 CEDAR RES FLOOD MITIGATION   Cedar   FCD Acqu/Elev   \$0	
105   WLFL7 CEDAR RIVER TRAIL SITE A BANK	eered revetment to stabilize toe of bank and to prevent large scale bank
Renton. The project will ensure the minimum required 100-year flood conveyance ca   106 WLFL7 CEDAR RVR GRAVEL REMOVAL	
Erosion and scour have resulted in loss of toe and bank rock, oversteepened and un	pacity along the lower 1.25 miles of the Cedar River. Project is a required ect costs were updated in March 2016.
Instruction	pacity along the lower 1.25 miles of the Cedar River. Project is a required act costs were updated in March 2016. Immendations. Intercut banks (some portions cantilevered). Scour has undermined

													6-Year CIP			Comments
			2019 Inception to Date	2019 Inception to Date 2020	2019	2020 Reallocation	2020	2021	2022	2023	2024	2025	Total (Including 2019	CIS CIS	Project Life	Ommens
No. Title	Basin	Type of project		Expendiure Adopted		Request	Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10 10+ Year	Total	Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood
110 WLFL7 CRT2 ZONE D 2020 REPAIR	Codor	FCD Const	60	80	60	\$50,000	\$50.000	\$143.000	60	60	60	60	\$193,000		\$193,000	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
111 WLFL7 DORRE DON AVULSION ANALYSIS	Cedar	FCD Const	\$0 \$0	\$0	\$0	\$50,000	\$50,000	\$143,000	\$0	\$0	\$0	\$0	\$50,000			D. The main channel has avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE. Renton. Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the
440 44 51 7 555 00000000 4451 5451 5451		505 4 (5)	05.044.704	25 000 700	(0505.040)	2505.040				•		•	•		45.000.700	capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds
112 WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	\$5,311,784	\$5,836,796	(\$525,012)	\$525,012	\$0	\$0	\$0	\$0	\$0	\$0	\$0			design elements of the Herzman project and Riverbend. Renton. Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment;
113 WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	\$1,266,476	\$1,297,391 \$287,33	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$600,578	\$857,000	\$3,828,982	\$66,818	\$0	\$0	\$0	\$4,752,800			acquire up to 5 properties.  Issaquah. Construct intersection improvements which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Issaquah
114 WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	\$100,000	\$88,319	\$11,681		\$11,681	\$0	\$0	\$0	\$0	\$0	\$11,681			Hobart Road SE and SE May Valley Road.  Renton. Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee,
115 WLFL7 JAN ROAD NEIGHBORHOOD	Cedar	FCD Const	\$1,484,731	\$667,183 \$622,13			\$1,439,685	\$4,845,422	\$828,271	\$0	\$0	\$0	\$7,113,378			construction of side channel, and mitigation of at-risk properties. Construction phased for mitigation in 2021 and other improvements in 2023.  Renton. Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantity economic damage potential 2) determine
116 WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	Agreement	\$400,000	\$1,390	\$398,610		\$398,610	\$120,000	\$0	\$0	\$0	\$0	\$518,610		\$520,000	infrastructure modifications to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis.  Renton. Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one
117 WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	\$1,898,466	\$202,956	\$1,695,510		\$1,695,510	\$681,352	\$235,089	\$4,540,762	\$1,631,720	\$0	\$8,784,434		\$8,987,390	revetment; remove portion of another revetment; acquire 8 at risk properties Construction delayed to 2024 to accommodate Jan Rd construction in 2021 or 2022.
118 WLFL7 MADSEN CR CULVERT 2017	Cedar	Agreement	\$1,100,000	\$426,520 \$1,470,00	0 \$673,480	\$756,000	\$2,899,480	\$0	\$0	\$0	\$0	\$0	\$2,899,480		\$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.
119 WLFL7 MADSEN CR RENTON	Cedar	Agreement	\$635,000	\$62	\$634,938		\$634,938	\$0	\$0	\$0	\$0	\$0	\$634,938		\$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.
120 WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	\$490,246	\$297,086	\$193,160		\$193.160	\$0	\$0	\$0	\$0	\$0	\$193,160			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.
	0-4		,, <u></u>	00		<b>\$400,000</b>		\$300,000	**	***			\$400,000			Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed
122 WLFL7 TABOR-CROWALL REVETMENT	Cedar	FCD Const	\$0	\$0	\$0	\$100,000	\$100,000	\$300,000	\$0	20	\$0	20	\$400,000		\$400,000	bank along 200 feet - damage likely to occur next major high-flow event.  Renton. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering.
123 WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	\$5,231,042	\$4,378,048	\$852,994		\$852,994	\$0	\$0	\$0	\$0	\$0	\$852,994		\$5,231,042	design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCE portion of scope is complete.
																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
124 WLFL7 SR 169 FEASIBILITY STUDY 125 Cedar-Sammamish Subtotal	Cedar	FCD Const	\$646,800 \$56,880,796	\$295,338 \$138,20 \$41,792,611 \$7,833,03		\$4,485,043	\$489,665 \$27,406,257	\$0 \$17,621,435	\$0 \$4,463,445	\$0 \$4,940,367	\$0 \$3,541,720	\$0 \$3,932,358	\$489,665 \$61,905,582		\$785,003 \$161,098,193	design.
126 127																
																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
128 WLFL8 BRISCOE LEVEE SETBACK	Green	Agreement	\$23,330,271	\$21,193,077	\$2,137,194		\$2,137,194	\$0	\$0	\$0	\$0	\$0	\$2,137,194		\$23,330,271	FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed or once the District's ILA with Kent expires in 2018.
129 WLFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	\$380,506	\$16,841 \$1,926,87	6 \$363,665	(\$300,000)	\$1,990,541	\$7.813.278	\$13.241.331	\$9.647	\$0	\$0	\$23.054.798			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 soray system.
130 WLFL8 BRPS FISH PASS IMPRVMNTS	Green	FCD Const	\$0	\$0	\$0	\$350,000	\$350,000	\$992,079	\$3,782,881	\$4,107,257	\$3,453,157	\$92.073	\$12,777,447		\$12,777,447	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
131 WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	\$1,484,646	\$1,518,227 \$3,949,13	0 (\$33,581)	\$555,555	\$3,915,549	\$33.949	\$0,702,007	\$0	\$0,100,101	\$0	\$3,949,498			Renton. This project will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
132 WLFL8 BRPS SUPPORT SYS UPGRADES	Cross	FCD Const	\$1,404,040	\$0 \$1.14	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\$1,149	\$183,181	\$940.317	\$876.479	\$12.074	\$0 60	\$2,013,200			Renton. This project will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control panels, cooling systems, oliers and hoists.
133 WLFLS COVINGTON CR BLACK DIAMOND	Green	A	\$0	\$0 \$1,14 \$0 \$291,50			\$291,500	\$2,002,000	\$940,317	\$070,479	\$12,074	20	\$2,013,200			Black Diamond: Remove the three 6-foot diameter culverts where Lake Sawyer flows into Covington Creek and replace with a bridge to eliminate obstructions
	Green	Agreement	\$0	\$0 \$291,50	50	***		\$2,002,000	\$0	\$0	\$0	\$0				for water flow and allow passage for migrating salmon.  Kent. This project will assess the damaged section of Desimone Levee between the two new floodwall segments, and recommend possible options for repair
134 WLFL8 DESIMONE MAJOR REPAIR	Green	FCD Const	\$0	\$0	\$0	\$80,000	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000		\$80,000	Only the conditions assessment is proposed for funding.  Damage increases vulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion
135 WLFL8 FORT DENT 2020 REPAIR 136 WLFL8 GALLIDYKSTRA 2020 REPAIR	Green Green	FCD Const FCD Const	\$0 \$200,000	\$0 \$90,891 \$207,31	\$0 4 \$109,109	\$50,000 \$0	\$50,000 \$316,423	\$50,000 \$1,750,783	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$2,067,206		\$100,000 \$2,158,097	increases vulnerability to trail and soccer fields.  Auburn. Complete Phase 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements.
137 WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/Elev	\$10,368,856	\$2,577,724	\$7,791,132		\$7,791,132	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$32,791,132			Tukwila. This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction schedules for those projects.
138 WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000		\$100,000	Auburn. Improve SE Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
											, ,		,		,,	Auburn. This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program. The current mitigation effort is the Teutel project scheduled for 2018 construction.
139 WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	\$5,660,541	\$5,258,368	\$402,173		\$402,173	\$0	\$0	\$0	\$0	\$0	\$402,173		\$5,660,541	Auburn. This project will address scour damage to the bridge, which is on the primary through route of the Green River Valley Rd. The bridge is also a King
140 WLFL8 GREEN SCOUR REPAIR 2017	Green	Agreement	\$150,000	\$47,524	\$102,476		\$102,476	\$0	\$0	\$0	\$0	\$0	\$102,476		\$150,000	County landmark.  Kent. New project to implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe Bend Levee at the Breda reach (R
																Active by project of implement internal SVM adopted by Goard in Supervision. This project will reconstruct the robustaction between the bear reconstruction of the surrounding areas. The project will also raise leve crest elevations to contain the 500-year (0.2% annual chance) flood. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
141 WLFL8 HSB BREDA SETBACK - KENT	Green	Agreement	\$4,758,953	\$930,509 \$2,431,37	7 \$3,828,444		\$6,259,821	\$8,381,110	\$43,709	\$0	\$0	\$0	\$14,684,640		\$15,615,149	
																Kent. New project to implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a 'Minimally acceptable' rating by the USACE due to a slope deficiency at RM 24.3 (over steepened slopes from 1.3 to 1.7H:1V for 500 feet). The City of Kent constructed a secondary containment of the control of the construction of the control of the co
																levee in this reach, set back from the river's edge, which is currently not part of the federal levee. The only remaining structure between the two levees is a Puget Sound Energy facility. The Horseshoe Bend Levee Certification Report calculated Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 and 1.55 and 1.55 are reported by the results of the r
																about RM 24.3 and RM 24.4, respectively. River bed scour in this reach between 1986 and 2011 is 2.7 feet at RM 24.24. Funding of \$400,000 covers the cos of major modification to the federal levee so that the City of Kent's secondary containment levee can be incorporated into the federal levee project.
142 WLFL8 HSB MCCOY REALIGNMENT	Green	Agreement	\$400,000	\$4,244 \$116,13	8 \$395,756		\$511,894	\$2,333,980	\$764,909	\$0	\$0	\$0	\$3,610,783		\$3,615,027	Kent. New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened and does not meet current
																engineering standards. The economic consequence of levee failure or overtopping to the lower Green River valley is extensive and could cause tens of millions of dollars in damage. This capital project area contains a 'Minimally Acceptable' deficiency by the US Army Corps of Engineers at RM 25. 5 (over
																steepened slopes from 1. 25 to 1. 7H:1V for 225 feet). The Horseshoe Bend Levee Certification Report calculated a Factor of Safety (FOS) value for rapid drawdown of 1. 01 at RM 25. 57 (Section F). This is barely above the minimum FOS (1. 0) from the US Army Corps of Engineers manual.
143 WLFL8 HSB NURSING HOME SETBACK	Green	FCD Const	\$0	\$0	\$0		\$0	\$100,000	\$2,000,000	\$500,000	\$0	\$0	\$2,600,000		\$2,600,000	Kent. Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in
144 WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	\$85,000	\$83,675	\$1,325		\$1,325	\$0	\$0	\$0	\$0	\$0	\$1,325			the operating budget.  Contribute the partial cost of a repair (\$500,000) to a \$5 million levee setback project. By relocating the levee, flood risks as wellas future repair costs for the
145 WLFL8 LONES LEVEE RESTORATION 146 WLFL8 LOWER RUSSELL ACQ KENT	Green Green	Agreement Agreement	\$0 \$1,023,656	\$0 \$1,850,00 \$1,123,668	(\$100,012)	\$100,012	\$1,850,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,850,000 \$0			Flood Control District are reduced.  Kent. Acquisitions by the City of Kent for the Lower Russell levee setback project.
147 WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	FCD Const	\$1,743,249	\$329,299	\$1,413,950		\$1,413,950	\$0	\$0	\$0	\$0	\$0	\$1,413,950			Kent. Lower Green River Corridor Planning and Environmental Impact Statement.  Kent. Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile
148 WLFL8 LWR RUSSELL LEVEE SETBACK	Green	FCD Const	\$17,462,534	\$16,516,475 \$26,447,50	5 \$946,059	(\$14.468.661)	\$12,924,903	\$4,116,794	\$6,358,982	\$12,710	\$0	\$0	\$23,413,389		\$39.929.864	17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat.  Increased expenditure authority to match interim SWIF adopted by Board of Supervisors.
149 WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	\$19,400,000	\$418.401	\$18.981.599		\$18.981.599	\$0	\$0	\$0	\$0	\$0	\$18,981,599			Kent. Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights.
150 WLFL8 NEWAUKUM CR FLOOD CONVEYANCE RESTORATION	Green	Agreement	\$19,400,000	\$0 \$65,00			\$65,000	\$0	\$0	\$0	\$0	\$0	\$65,000			Trecessary arm rights.  Enumclaw: An undersized culvert causes flooding that could block a sole access road.  Auburn. This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. Alternative selection is pending; alternative 1
151 WLFL8 OLD JEFF'S FARM REVETMENT	Green	FCD Const	\$826,802	\$301,921 \$50,52	5 \$524,881	(\$500,000)	\$75,406	\$3,040,810	\$81,863	\$0	\$0	\$0	\$3,198,079		\$3,500,000	assumed as a placeholder.
152 WLFL8 RUSSELL RD UPPER KENT	Gross	Λανοον	\$6,082,173	\$6.065.056	\$17.117		\$17.117	**	<b>*</b> C	<b>*</b> ~	**	-	\$17.117		\$6.082.173	Kent. Project is to improve the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. These segments of the Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.
153 WLFL8 S 106TH ST DRAINAGE IMPVMNT	Green	Agreement Agreement	\$0	\$0 \$451,00	0 \$0		\$451,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$451,000		\$451,000	Burien: Replace an existing damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding.
154 WLFL8 SIGNATURE POINTE REVETMENT	Green	Agreement	\$300,000					φ20,///,500	\$26,777,500	\$0	\$0	\$0	\$54,954,581			Kent. Project provides increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee.  Kent. Repair of the recent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The
155 WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	\$250,000	\$167,738	\$82,262		\$82,262	\$0	\$0	\$0	\$0	\$0	\$82,262			revetment protects an adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.  Tukwila. Erosion and slumping of Tukwila Trail revetment caused by the recent Green River flood resulted in approximately 200 feet of damage to the
156 WLFL8 TUK REVETMNT 2019 REPAIR	Green	FCD Const	\$500,000	\$230,061	\$269,939		\$269,939	\$0	\$0	\$0	\$0	\$0	\$269,939		\$500,000	revetment. Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a facility to bring this levee segment in compliant
157 WLFL8 TUK-205 GUNTER FLOODWALL	Green	FCD Const	\$0	\$0 \$2,000,00	0 \$0		\$2,000,000	\$16,250,000	\$16,250,000	\$0	\$0	\$0	\$34,500,000		\$34,500,000	with certification requirements for structural stability and raise the levee to roughly the 500 year event. Tukwila. New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwall and sloped embankment to
158 WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const	\$0	\$0	\$0		\$0	\$0	\$1,500,000	\$300,000	\$0	\$0	\$1,800,000		\$1,800,000	protect adjacent businesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized during the project design phase.
																Tukwila. US Army Corps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted interim SWIF. The USACE will share remaining 2/3 of the cost; this allocation is the local share of 1/3 of total cost. Requires cooperation agreement.
159 WLFL8 TUK-205 USACE GACO REPAIR 160 WLFLS PUGET WAY CULVERT	Green Green	Agreement Agreement	\$15,732,418 \$1,800,000	\$858,822 \$1,095,048	\$14,873,596 \$704,952		\$14,873,596 \$704,952	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$14,873,596 \$704,952	<del>                                     </del>	\$15,732,418 \$1,800,000	Seattle. This project will replace an aging and undersized creek culvert under Puget Way SW in Seattle.
			,,	. ,		I		771	70	40		4.4	7. 7.,302		. ,,	

														6-Year CIP				Comments
			2019	2019			2020							Total				
			Inception to Date	Inception to Date	2020	2019	Reallocation	2020	2021	2022	2023	2024	2025	(Including 2019	CIS	CIS	Project Life	
No. Title	Basin	Type of project	Budget	Expendiure	Adopted	Carryover		Revised	Projected	Projected	Projected	Projected	Projected	Carryover)	Year 7-10	10+ Year	Total	
110.		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,							,	,,				Seattle. The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station.
161 WLFLS S PARK DRAINAGE IMPROVEMENTS	Green	Agreement	\$1,000,000	\$1,637,071	\$9.075.000	(\$637.071)		\$8,437,929	\$7.030.000	\$0	\$0	\$0	\$0	\$15,467,929			\$17 105 000	The conveyance improvements will work in conjunction with the Pump Station.
101 WEI EO O 1 / WAX BIN WAY OF HIM TO VEHICLTO	0.001	Agroomone	ψιιοοοίοοο	01,007,071	00,070,000	(0001,011)	)	40,107,020	ψ1,000,000	40	•	•	•	ψ10;101;020			ψ17,100,000	Seattle. Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project
162 WLFLS SOUTH PARK PUMPSTATION	Groon	Agreement	\$1,787,004	\$1,787,029	\$4.717.996	(\$25)		\$4.717.971	60	90	60	en.	90	\$4,717,971			\$6.505.000	schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
163 Green-Duwamish Subtotal	Gleen	Agreement	\$114.726.609			\$52,129,521			\$05 055 462	\$76 741 402	\$10.906.004	\$0 ESE 221	\$5,092,073				\$342,123,824	
164			φ114,720,003	\$02,397,009	\$33,023,310	\$32,123,321	(\$14,000,043) \$3	952,400,302	900,000,400	\$10,741,432	\$10,000,034	90,303,231	\$3,032,073	\$219,320,133			φ342,123,024	
165																		
100	NATI- IA-	A	ro.	60	60	60		60	r.o.	60	60	60	\$190,000	6400.000	+		6400.000	Formalise transports to disinguish a single should be differed by Managarian and state of the good sight of the
166 WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT	vvnite	Agreement	\$0 \$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$190,000	\$190,000				Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
167 WLFL9 212TH AVE SE MITIGATION	vvnite	Agreement	\$0	\$0	\$29,000	\$0		\$29,000	\$36,000	\$0	\$0	\$0	\$0	\$65,000	ļ		\$65,000	
																		Enumclaw. Park is split by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
168 WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev	\$100,000	\$0		\$100,000		\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000			\$100,000	
																		Pacific. This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems
																		in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to
																		approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to
169 WLFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	\$470,000	\$226,633		\$243,367	(\$243,367)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$226,633	flooding.
																		Tukwila. Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million of assessed and \$13 million conter
170 WLFL9 COUNTYLINE TO A STREET	White	FCD Const	\$24,004,419	\$23.888.129		\$116,290		\$116,290	\$0	\$0	\$0	\$0	\$0	\$116,290			\$24,004,419	value), improves sediment storage and enhances habitat.
			, , , , , ,	,,								•		,			, , , , , ,	Pacific. Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River
171 WLFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	\$13.843.157	\$12.836.478	\$295.835	\$1.006.679	\$401.397	\$1 703 911	\$973,966	\$7,172,705	\$8,508,038	\$136.895	\$0	\$18,495,515			\$31 331 993	Estates neighborhood.
THE ESTROIT BRANCE VEZ SETONOR	***************************************	1 05 001101	ψ10,010,107	ψ12,000,110	φ200,000	ψ1,000,070	ψ101,007	ψ1,700,011	40.0,000	ψ1,112,100	ψ0,000,000	ψ100,000	<del>\$</del> 0	\$10,100,010			ψ01,001,000	Greenwater. In mid-2018 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of
172 WLFL9 SLIPPERY CREEK ACQ	\M/hito	FCD Acqu/Elev	\$180.000	\$115,563		\$64,437		\$64,437	60	90	60	en.	90	\$64.437			\$190,000	Highway 410. Subsequent site visits identified multiple unpermitted structures and a well; additional funding necessary to complete demolition and asbestos abatement at a remote and inaccessible location.
173 WLFL9 STREAM #10.0048 DS CULVERT	White	Agreement	\$100,000	\$113,303		\$04,437		\$04,437 \$0	\$150,000	\$1,500,000	\$0	\$0	\$0	\$1,650,000				
174 WLFL9 STREAM #10.0048 US CULVERT	Wille		\$190,000	\$148.566	\$400,000	\$41.434		\$441,434	\$100,000	\$1,500,000	\$0	\$0	\$0	\$1,650,000 \$541.434	<u> </u>			Aubum. This project will analyze culvert replacement and road-raising options and implement the preferred option.
174 WLFL9 STREAM #10.0048 US CULVERT	vvnite	Agreement	\$190,000	\$148,566	\$400,000	\$41,434		\$441,434	\$100,000	\$0	\$0	\$0	\$0	\$541,434	+		\$690,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
ATT WEEK OF LOVE BE AND BERNIE	140 1	500.0	****	000 547	0440.074	0101 100		05.47.057				•		0547.057			2010.071	Auburn. Loss of facing rock along 130' of the lower half of the embankment. Some of the gravel fill under the rock has eroded as well, leaving a near-vertical
175 WLFL9 STUCK R DR 2019 REPAIR	vvnite	FCD Const	\$200,000	\$98,517	\$446,374	\$101,483	<b>0</b> 450 000	\$547,857	\$0	\$0	\$0	\$0	\$0	\$547,857				face supporting the rock remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
176 White Subtotal			\$38,987,576	\$37,313,885	\$1,171,209	\$1,673,690	\$158,030	\$3,002,929	\$1,259,966	\$8,672,705	\$8,508,038	\$136,895	\$190,000	\$21,770,533			\$59,084,418	
177																		
178																		
																		Focuses on mapped coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retrofitting or
179 WLFLG COASTAL EROSION/FLOODING GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0			\$0	relocating infrastructure out of flood-prone areas to reduce risk.
																		Reduces flooding and improves fish passage and water quality by replacing and/or removing culverts or other blockages to fish passage. This program will
180 WLFLG CULVERT & FISH PASSAGE GRANTS		Grant	\$0	\$0	\$0	\$0		\$0						\$0			\$0	focus on accelerating replacement or removal of culverts that address both significant flood risks to critical infrastructure, and restore fish passage.
181 WLFLG FLOOD REDUCTION GRANTS	Countywide	Grant	\$17,852,257	\$11,789,184	\$5,880,201	\$6,063,073	\$1	11,943,274	\$3,000,000	\$3,080,700	\$3,163,571	\$3,248,671	\$3,336,060	\$27,772,276			\$39,561,460	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
182 WLFLG URBAN STREAMS GRANTS		Grant	\$0		\$0	\$0		\$0						\$0				Invests in urban flooding projects that reduce risks to people, property, and public infrastructure.
183 WLFLG WRIA GRANTS	Countywide	Grant	\$32,303,948	\$24,468,355	\$9,620,344	\$7,835,593	\$	17,455,937	\$9,879,132	\$10,144,880	\$10,417,777	\$10,698,016	\$10,985,792	\$69,581,534				Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
184 WLFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	\$2,929,222	\$3,052,862	\$330,232	(\$123,640)	\$981,708	\$1,188,300	\$890,956	\$834,056	\$892,524	\$804,751	\$585,512	\$5,196,098				Evaluation of capital projects to determine effectiveness and identify project design improvements.
								ì										Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
185 WLFLO SUBREGNL OPPRTNTY FUND	Countywide	Grant	\$55,311,186	\$38,775,925	\$6,091,017	\$16,535,261	\$2	22,626,278	\$6,255,428	\$6,414,885	\$6,568,517	\$6,720,084	\$6,869,230	\$55,454,422		1	\$94,230,347	
186 WLFLX CENTRAL CHARGES	Countywide	FCD Const	\$1,011,493	\$819,564		\$191,929		\$291,929	\$142,592	\$146,870	\$151,276	\$155.815	\$160,489	\$1,048,971			, , .	Central charges related to the FCD's capital fund.
187 WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	\$500,000	\$3,354		\$496,646		\$496,646	\$0	\$0	\$0	\$0	\$0	\$496,646				Stockoile role for future flood damage repairs.
188 WLFLX FLOOD EMERGENCY CONTGNCY	Countywide		\$1,050,917	\$419.042		\$631.875	\$368.125		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$2,250,000				Contingency for emergency response actions during a flood event.
189 Countywide Subtotal	Countywide	1 OD CONST	\$110.959.023		\$22 021 794		\$1,349,833 \$5						\$22,187,083				\$241,128,233	Ostalingonay for Simologonica dustation dusting a mode of ont.
190			ψ110,000,020	ψ1 3,020,203	ψ.Σ,υΣ 1,1 34	ψ01,000,737	\$1,0 <del>1</del> 0,000 \$0	,502,504	ψ±0,+10,107	\$20,07 1,001	\$21, <del>110,000</del>	₩21,011,001	ΨZZ, 101,003	ψ101,133,341			Ψ271,120,233	
191 Grand Total			\$411.753.921	\$209.462.702	\$04.094.555	\$112 201 121	(\$5,728,248) \$20	202 547 429	\$120 720 EE7	\$120 E12 210	\$50 252 571	\$61 247 524	\$50 726 000	\$651.025.488			\$1,196,238,280	
131 Grand Total			φ+11,/33,921	φ <b>2</b> 90,402,792	φ <del>34</del> ,304,333	\$113,291,131	(\$3,120,240) \$20	102,341,430	φ133,130,33 <i>1</i>	\$123,J12,J10	φυσ, <b>∠</b> 33,37 I	901,247,324	\$30,720,009	\$U01,U20,400			\$1,130,230,200	