KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

August 22, 2017

FCD Resolution

Proposed No. FCD2017-02.2 **Sponsors**

A RESOLUTION relating to the operations and finances of the King County Flood Control Zone District; adopting a revised 2017 budget, district oversight budget, capital budget, six-year capital improvement program for 2017-2022; and amending Resolution FCD2016-20.3.

WHEREAS, the King County Flood Control Zone District ("the district") adopted its 2017 work program, budget, operating budget, capital budget, and six-year capital improvement program in Resolution FCD2016-20.3, and

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

WHEREAS, the carry-forward amount for unspent appropriations from 2016 to 2017 is $76,858,876, and

WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the proposed carry-forward amount and a supplemental budget on August 21, 2017, and

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

WHEREAS, the Board desires to adopt amendments to the District's 2017 budget, operating budget, capital budget, and six-year capital improvement program;

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

SECTION 1. The Board adopts a revised 2017 budget for the District, as set forth in Attachment B to this resolution, titled "2017 Reallocation Budget 8/14/17," and amends Section 1 of FCD2016-20.3 accordingly.

SECTION 2. The Board adopts a revised 2017 operating budget for the District, A set forth in Attachment C to this resolution, titled "2017 Reallocation Annual Operating Budget 8/14/17," and amends Section 1 of FCD2016-20.3 accordingly.

SECTION 3. The Board adopts a revised 2017 capital budget for the District, consisting of the projects and expenditures Attachment D to this resolution, titled "2017 Reallocated Capital Budget 8/14/17," and amends Section 1 of FCD2016-20.3 accordingly.

SECTION 4. The Board adopts a revised six-year capital improvement program for the District, as set forth in Attachment E to this resolution, titled "2017-2022 Reallocation Six-Year CIP 8/14/17," and amends Section 1 of FCD2016-20.3 accordingly.

SECTION 5. The Board adopts a revised 2017-2022 capital budget project list, as set forth in Attachment H to this resolution, titled "2017-2022 Reallocated Capital Budget Project List 8/14/17," and amends Section 1 of FCD2016.20.3 accordingly.

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

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

C. For improvements that are to be constructed, preliminary engineering studies and plans have been made, consisting of one or more of the following: the 2006 Flood Plan, as amended, preliminary feasibility analyses, conceptual designs and design manuals, and such plans and studies are on file with the county engineer.

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

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 was introduced on and passed as amended by the King County Flood Control District on 8/21/2017, by the following vote:

Yes: 7 - Mr. von Reichbauer, Mr. Gossett, Ms. Lambert, Mr. McDermott, Mr. Dembowski, Mr. Upthegrove and Ms. Kohl-Welles
No: 0
Excused: 2 - Mr. Dunn and Ms. Balducci

KING COUNTY FLOOD CONTROL DISTRICT
KING COUNTY, WASHINGTON

~~Reagan Dunn, Chair~~
Dave Upthegrove, Vice Chair

METROPOLITAN KING COUNTY COUNCIL
King County
Washington

ATTEST:

Angel Allende for

Melani Pedroza, Clerk of the District

Attachments: B. 2017 Reallocation Budget 8-21-2017, C. 2017 Reallocation Annual Operating Budget 8-21-2017, D. 2017 Reallocation Capital Budget 8-21-2017, E. 2017-2022 Reallocation Six-Year CIP 8-21-2017, H. Reallocated Capital Budget Project List 8-21-2017

King County Flood Control District

2017 Reallocation Budget

Attachment B

8/14/2017

Program	2017 Approved	2016 Carryover	2017 Reallocation	2017 Revised
Flood District Administration	692,090			692,090
Maintenance and Operation	10,912,177		247,200	11,159,377
Construction and Improvements	59,859,737	76,858,876	5,753,513	142,472,126
Bond Retirement and Interest	$0	$0	$0	$0
Total	71,464,004	76,858,876	6,000,713	154,323,593
Projected Capital Reserves - Cash Fund Balance [1]	62,090,510			60,731,444
Projected Capital Reserves - Budgetary Fund Balance [2]	(19,834,190)			(30,551,056)

[1] The cash fund balance assumes an expenditure rate of 36% of the capital budget in 2017, 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

2017 Reallocated Annual Operating Budget

Attachment C

8/14/2017

	2017 Approved	Reallocation	2017 Requested
Annual Maintenance	$2,589,281	$97,200	$2,686,481
Flood Hazards Plan, Grants, Outreach	$318,123		$318,123
Flood Hazard Studies, Maps, Technical Services	$1,304,619	$150,000	$1,454,619
Flood Preparation, Flood Warning Center	$863,033		$863,033
Program Management, Supervision, Finance, Budget	$951,992		$951,992
Program Implementation	$1,165,633		$1,165,633
Overhead / Central Costs	$3,327,496		$3,327,496
District Planning, Outreach, Policy Technical Services	$392,000		$392,000
Total	**$10,912,177**	**$247,200**	**$11,159,377**

King County Flood Control District

2017 Reallocated Capital Budget

Attachment D

8/14/2017

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	$14,815,990	$5,556,336	$10,605,860	$351,427	$31,329,613
Cedar River Basin	$9,037,385	$2,563,819	$5,504,744	$0	$17,105,947
Green River Basin	$8,708,472	$15,928,302	$11,944,950	$70,300	$36,652,024
White River Basin	$0	$1,573,144	$11,812,059	$0	$13,385,203
Seattle	$0	$0	$5,214,392	$0	$5,214,392
Effectiveness Monitoring	$0	$601,785	$0	$0	$601,785
Countywide Corridor Plan Implementation	$0	$0	$42,783	$99,827	$142,610
Countywide Miscellaneous	$0	$0	$0	$630,192	$630,192
Opportunity Fund	$0	$0	$16,644,808	$0	$16,644,808
Grant Fund	$0	$0	$9,014,771	$0	$9,014,771
WRIA Grant Funding	$0	$0	$11,750,781	$0	$11,750,781
Total	**$32,561,847**	**$26,223,385**	**$82,535,148**	**$1,151,746**	**$142,472,126**

King County Flood Control District

2017 - 2022 Reallocated Six-Year CIP
Attachment E
8/14/2017

Name	2017 Adopted	2016 Carryover	2017 Reallocation	2017 Revised	2018	2019	2020	2021	2022	2017 - 2022 Total
Snoqualmie River Basin	14,290,160	17,675,974	(636,521)	31,329,613	14,646,352	20,450,785	9,653,617	12,558,534	3,929,407	92,568,308
Cedar River Basin	9,141,721	9,247,470	(1,283,244)	17,105,947	10,600,414	13,743,117	11,818,096	5,243,959	4,007,173	62,518,706
Green River Basin	13,733,899	19,137,382	3,780,743	36,652,024	13,776,463	33,956,412	6,386,989	5,889,650	3,358,500	100,020,038
White River Basin	5,607,473	4,085,195	3,692,535	13,385,203	1,536,321	6,722,036	6,571,371	115,927	200,000	28,530,858
Seattle Projects	3,810,756	1,403,636	-	5,214,392	1,504,244	1,000,000	1,005,000	-	-	8,723,636
Effectiveness Monitoring	357,399	244,386	-	601,785	895,779	332,985	533,242	219,566	634,010	3,217,367
Countywide Corridor Plan Implementation	-	142,610	-	142,610	2,489,775	2,452,537	11,213,074	9,430,286	2,010,077	27,738,359
Countywide Miscellaneous	(274,646)	704,838	200,000	630,192	316,225	325,202	334,437	343,940	353,717	2,303,713
Subregional Opportunity Fund	5,743,771	10,901,037	-	16,644,808	5,828,701	5,945,440	6,083,773	6,221,932	6,362,319	47,086,973
Grant Fund	3,058,908	5,955,863	-	9,014,771	3,133,710	3,196,473	3,270,846	3,345,125	3,420,602	25,381,527
WRIA Grant Funding	4,390,296	7,360,485	-	11,750,781	4,504,883	4,622,460	4,743,106	4,866,901	4,993,928	35,482,059
Total	59,859,737	76,858,876	5,753,513	$142,472,126	59,232,867	92,747,447	61,613,552	48,235,820	29,269,732	433,571,544

King County Flood Control District

2017 - 2022 Six-Year CIP Project Allocations Reallocated
Attachment H

8/14/2017

Flood Damage Repairs
Capital Investment Strategy Project

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
1	WLFL0 MILLER R RD RVTMNT 2016 REPAIR	1129356	Repair	N/A	WLR	$50,000	$1,409	$710,799	$48,591		$759,390	$0	$0	$0	$0	$0	$759,390	$760,799	Damage to revetment. Very large rock removed from revetment, vertical banks and exposed subgrade in several locations totaling approximately 350 feet of damage. If not repaired, Miller River Road could be severely damaged.
2	WLFL0 SKY W RVR DR FLOOD STUDY	1112057	63%	36%	WLR	$81,237	$2,475	$0	$78,762		$78,762	$0	$0	$0	$0	$0	$78,762	$81,237	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 SF SKYKMSH REP LOSS MIT	1044481	74%	40%	Acqu/Elev	$567,650	$295,404	$39,188	$272,246	$84,000	$395,434	$0	$0	$0	$0	$0	$395,434	$690,838	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.
4	WLFL0 SKYKOMISH HOME BUYOUTS	1112052	66%	44%	Acqu/Elev	$380	$380	$0	$0		$0	$0	$0	$0	$0	$400,000	$400,000	$400,380	Acquisition of at-risk single family homes in the Town of Skykomish.
5	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	1129357	Repair	N/A	WLR	$150,000	$61,767	$0	$88,233		$88,233	$0	$0	$0	$0	$0	$88,233	$150,000	Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severly damage facility.
6	WLFL0 SKYKOMISH LB UP 2016 REPAIR	1129358	Repair	N/A	WLR	$260,845	$7,658	$0	$253,187	$48,588	$301,775	$0	$0	$0	$0	$0	$301,775	$309,433	Three pockets of missing armor rock: 15, 10 and 75 feet wide and eroded topsoil from upper sections of levee. Further flooding may compromise or severely damage facility.
7	WLFL0 TIMBER LN EROSN BUYOUTS	1044460	76%	40%	Acqu/Elev	$2,354,445	$1,571,273	$232,068	$783,172		$1,015,240	$656,729	$0	$0	$0	$0	$1,671,969	$3,243,242	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.
8	WLFL0 TIMBERLANE 2016 REPAIR	1129359	Repair	N/A	WLR	$52,500	$11,040	$0	$41,460		$41,460	$0	$0	$0	$0	$0	$41,460	$52,500	Old privately built facility in Timberlane Village on County property. Riverside rockery walls continue to oversteepen, settle and fall into the river.
9	WLFL1 426TH AVE SE BR FEASIBILITY	1126589	FCD	FCD	WLR	$300,000	$168,614	$0	$131,386		$131,386	$0	$0	$0	$0	$0	$131,386	$300,000	FCD-requested project to reduce neighborhood isolation from flooding.
10	WLFL1 CIRCLE RVR RANCH RISK RED	1121044	N/A	N/A	WLR	$150,000	$64,225	$0	$85,775		$85,775	$0	$0	$0	$0	$0	$85,775	$150,000	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.
11	WLFL1 MASON THRSN EXT 2016 REPAIR	1129360	Repair	N/A	WLR	$240,000	$0	$0	$240,000		$240,000	$0	$0	$0	$0	$0	$240,000	$240,000	Large scour hole in bank at upstream end of Mason Thorson Extension rock-faced levee. Significant settlement and displacement of face rock at upstream end of facility. Scour hole in bank threatens to end-run facility and damage adjacent private property. Damage to levee face-rock compromises levee integrity and may lead to progressive failure, especially at upstream end.
12	WLFL1 MF SNO CORRIDOR IMP	1121588	70%	51%	WLR	$1,100,000	$954	$0	$1,099,046		$1,099,046	$508,830	$301,770	$1,244,138	$3,325,350	$0	$6,569,140	$6,570,094	Placeholder for corridor plan implementation project(s).
13	WLFL1 MF SNO CORRIDOR PLAN	1044460	70%	33%	WLR	$1,824,912	$1,310,605	$0	$514,307		$514,307	$0	$0	$0	$0	$0	$514,307	$1,821,912	Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2016.
14	WLFL1 N BEND RESID FLD MITGTN	1044405	70%	61%	Acqu/Elev	$1,555,476	$1,555,278	($10,859)	$198	$10,661	$0	$0	$0	$0	$0	$0	$0	$1,555,278	Project complete. Additional future mitigation work in the Upper Snoqualmie will be implemented under Upper Snoqualmie Residential Flood Mitigation project.
15	WLFL1 NORTH FORK BRIDGE 2016 REPAIR	1129361	Repair	N/A	WLR	$385,000	$111	$0	$384,889		$384,889	$0	$0	$0	$0	$0	$384,889	$385,000	The North Fork Bridge was originally built in 1951 and is extreamely vulnerable to scour as the channel thalweg migrates. In order to keep the bridge safe and reliable during a flood, it is important to protect the piers and abutments from scour failure.
16	WLFL1 REIF RD 2016 REPAIR	1129362	Repair	N/A	WLR	$50,000	$0	$179,950	$50,000	$23,050	$253,000	$0	$0	$0	$0	$0	$253,000	$253,000	Length 50-80 feet. Face rock has appeared to have settled 1-2 feet exposing core material above near upper part of levee face. Larger face rock missing in pockets upstream end of this damage site. Continued damage could compromise facility which provides flood protection for several residences landward of the facility.
17	WLFL1 SHAKE MILL RB 2016 REPAIR	1129363	Repair	N/A	WLR	$20,000	$0	$32,169	$20,000	$145,331	$197,500	$0	$0	$0	$0	$0	$197,500	$197,500	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).
18	WLFL1 SHAKE MILL LB 2016 REPAIR	1129364	Repair	N/A	WLR	$100,000	$0	$700,000	$100,000		$800,000	$0	$0	$0	$0	$0	$800,000	$800,000	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.
19	WLFL1 SF SNO CORR EARLY ACTION	1122632	95%	48%	WLR	$3,562,744	$1,373,089	$2,000,000	$2,189,655		$4,189,655	$2,433,611	$8,098,280	$150,000	$0	$0	$14,871,546	$16,244,635	Project identified by Board to alleviate potential flooding of I-90 in North Bend. Currently evaluating project alternatives, including levee setback and gravel removal.
20	WLFL1 SF SNO CORRIDOR IMP	1121587	95%	49%	WLR	$130,771	$0	$0	$130,771		$130,771	$1,946,796	$2,608,109	$2,289,843	$383,693	$0	$7,359,212	$7,359,212	Placeholder for corridor plan implementation project(s).
21	WLFL1 SF SNO CORRIDOR PLAN	1044400	79%	49%	WLR	$2,621,454	$2,472,914	$0	$148,540	$61,460	$210,000	$0	$0	$0	$0	$0	$210,000	$2,682,914	SF Snoqualmie Corridor planning process and development of capital investment strategy.
22	WLFL1 SR202 SF BRIDGE LENGTHEN	1130025	76%	28%	WLR	$0	$0	$0	$0		$0	$0	$0	$0	$0	$100,000	$100,000	$100,000	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 evaluated in the SF Snoqualmie Corridor Plan.
23	WLFL1 UPPER SNOQ 2015 FLOOD REPAIR	1129550	Repair	N/A	WLR	$700,000	$5,673	$0	$694,327	$765,673	$1,460,000	$302,981	$0	$0	$0	$0	$1,762,981	$1,768,654	Flood damage repairs from January 2015 flood event. Locations include Mason-Thorson Ells and Mason-Thorson Extension (Middle Fork Snoqualmie); North Park (North Fork Snoqualmie); and Record Office, Meadowbrook, and Railroad (Snoqualmie mainstem).
24	WLFL1 UPR SNO RES FLD MITIGTN	1044517	80%	54%	Acqu/Elev	$11,232,391	$9,163,547	$738,893	$2,068,844		$2,807,737	$2,019,126	$2,070,430	$2,132,543	$2,196,519	$2,262,415	$13,479,770	$22,643,317	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 Cities of Snoqualmie and North Bend. As of May 2016 260 remain to be elevated or acquired. This amount assumes 10-12 home elevations per year.
25	WLFL2 DUTCHMAN RD REPAIR	1116342	Repair	N/A	WLR	$0	$0	$209,914	$0		$209,914	$355,136	$0	$0	$0	$0	$565,050	$565,050	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 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.
26	WLFL2 FARM FLOOD TSK FORCE IMP	1044581	58%	79%	WLR	$720,937	$668,348	$42,822	$52,589		$95,411	$102,000	$104,040	$106,121	$108,243	$110,408	$626,223	$1,294,571	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.
27	WLFL2 L SNO REP LOSS MITGTION	1044680	74%	21%	Acqu/Elev	$1,712,000	$1,268,231	$0	$443,468		$443,468	$222,862	$0	$0	$0	$0	$666,330	$1,938,561	Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
28	WLFL2 L SNO/ALDAIR CORRDOR PLN	1044576	84%	87%	WLR	$6,800,543	$5,644,814	$452,218	$1,155,729		$1,607,947	$742,630	$764,909	$675,205	$0	$0	$3,790,791	$9,435,605	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.
29	WLFL2 LWR SNO RESDL FLD MITGTN	1044582	FCD	FCD	Acqu/Elev	$2,830,971	$1,927,117	$675,305	$703,854		$1,379,159	$716,431	$760,062	$775,283	$790,769	$806,584	$5,228,288	$7,155,384	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.
30	WLFL2 SE 19TH WAY REVETMENT	1122033	FCD	FCD	WLR	$623,586	$292,549	$1,082,706	$331,039		$1,413,745	$150,000	$0	$0	$0	$0	$1,563,745	$1,856,294	Rebuild revetment to protect road access to high value agricultural operations and lands. Construction of road anticipated 2017, bank repair anticipated in 2018.
31	WLFL2 SE DAVID POWELL RD DOWNSTREAM	1126591	FCD	FCD	WLR	$1,000,000	$140,535	$36,456	$850,465		$886,921	$0	$0	$0	$0	$0	$886,921	$1,026,456	FCD-requested project to reduce neighborhood isolation from flooding.
32	WLFL2 SE FISH HATCHERY RD	1126592	FCD	FCD	WLR	$500,000	$124,843	$27,905	$375,157		$403,062	$0	$0	$0	$0	$0	$403,062	$527,905	FCD-requested project to reduce neighborhood isolation from flooding.

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
33	WLFL2 DUVALL BRIDGE 1136A	1130513	FCD	FCD	WLR	$0	$0	$30,000	$0		$30,000	$120,000	$0	$0	$0	$0	$150,000	$150,000	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.
34	WLFL2 SE DAVID POWELL RD UPSTREAM	1130514	FCD	FCD	WLR	$0	$0	$250,000	$0		$250,000	$700,000	$1,250,000	$0	$0	$0	$2,200,000	$2,200,000	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.
35	WLFL2 SNOQUALMIE VALLEY FEASIBILITY	1130515	FCD	FCD	WLR	$0	$0	$0	$0		$0	$0	$0	$0	$250,000	$250,000	$500,000	$500,000	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.
36	WLFL2 WOODINVILLE DUVALL BR 1136B/1136E	1130516	FCD	FCD	WLR	$0	$0	$100,000	$0		$100,000	$300,000	$0	$0	$0	$0	$400,000	$400,000	These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
37	WLFL2 SINNEMA QUAALE 2011 REPR	1112046	100%	N/A	WLR	$10,204,102	$11,074,543	$0	($1,770,441)	$2,304,414	$533,973	$0	$0	$0	$0	$0	$533,973	$12,508,516	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 to be completed in 2017; project anticipated to be closed out in 2018.
38	WLFL2 TOLT PIPELINE PROTECTION	1044570	84%	40%	WLR	$2,630,097	$1,515,788	$6,140,378	$1,115,209	($5,500,000)	$1,755,587	$42,436	$0	$0	$0	$0	$1,798,023	$3,313,811	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 anticipated 2017.
39	WLFL3 FREW LEVEE 2016 REPAIR	1129365	Repair	N/A	WLR	$50,000	$0	$100,000	$50,000		$150,000	$0	$0	$0	$0	$0	$150,000	$150,000	Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost resulting in an oversteepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 foot from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood.
40	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	1129366	Repair	N/A	WLR	$20,000	$0	$40,000	$20,000		$60,000	$0	$0	$0	$0	$0	$60,000	$60,000	Approximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure.
41	WLFL3 HOLBERG FEASIBILITY	1132019	FCD	FCD	WLR	$0	$0	$0	$0	$200,000	$200,000	$0	$0	$0	$0	$0	$200,000	$200,000	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
42	WLFL3 L FREW LEVEE SETBACK	1131803			WLR	$0	$0			$175,000	$175,000	$1,000,000	$2,425,000				$3,600,000	$3,600,000	Capital Investment Strategy: Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. FCD 6-year includes funds needed for grant match for future grant applications
43	WLFL3 LOWER TOLT RIVER ACQUISITION	1112034			Acqu/Elev	$744,475	$520,475	$0	$215,000		$215,000	$0	$0	$0	$0	$0	$215,000	$744,475	Acquisition between the Swiftwater development and the river for the future setback of the Upper Frew Levee
44	WLFL3 SAN SOUCI NBRHOOD BUYOUT	1044045	82%	79%	Acqu/Elev	$4,940,206	$4,127,691	$604,147	$821,515		$1,425,662	$0	$0	$0	$0	$0	$1,425,662	$5,550,353	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. When completed, will result in removing approximately 20 homes from high hazard areas within and just upstream and downstream of San Souci neighborhood.
45	WLFL3 TOLT 2015 FLOOD REPAIRS	1120503	Repair	N/A	WLR	$900,000	$46,790	$0	$853,210		$853,210	$22,419	$0	$0	$0	$0	$875,629	$922,419	Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl Scout Camp.
46	WLFL3 TOLT CORRIDOR IMPLMNTN	1123253	87%	83%	WLR	$25,252	$0	$75,000	$25,252	($100,252)	$0	$679,867	$635,353	$1,717,650	$5,037,804	$0	$8,070,674	$8,070,674	Placeholder for corridor plan implementation project(s). Assumes project initiation late 2017.
47	WLFL3 TOLT CORRIDOR PLAN	1044044	87%	82%	WLR	$958,560	$958,717	$0	($157)	$195,097	$194,940	$0	$0	$0	$0	$0	$194,940	$1,153,657	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. Scheduled for adoption 2015-16.
48	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	1131550			WLR	$0	$0	$0	$0	$150,000	$150,000	$300,000	$250,000	$0	$0	$0	$700,000	$700,000	Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
49	WLFL3 TOLT R MILE 1.1 SETBACK	1112050	84%	70%	Acqu/Elev	$5,699,606	$4,097,106	[illegible]	$1,602,500		$1,387,254	$316,270	$546,363	$0	$0	$0	$2,251,887	$6,348,993	Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
50	WLFL3 TOLT R NATURAL AREA ACQ	1115032	66%	64%	Acqu/Elev	$1,639,503	$1,140,067	$30,107	$499,436	$800,457	$1,330,000	$530,450	$546,363	$562,754	$466,156	$0	$3,435,723	$4,575,790	Capital investment strategy: acquire at-risk homes from willing sellers
51	WLFL3 TOLT R RD ELEVATION FEASIBILITY	1126997	FCD	FCD	WLR	$250,000	$0	$0	$250,000		$250,000	$0	$0	$0	$0	$0	$250,000	$250,000	FCD-requested project to reduce neighborhood isolation from flooding
52	WLFL4 RAGING R BRIDGE 1008E	1130563	FCD	FCD	WLR	$0	$0	$80,000	$0		$80,000	$0	$0	$0	$0	$0	$80,000	$80,000	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.
53	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	1044647	76%	79%	Acqu/Elev	$2,374,412	$1,715,652	[illegible]	$658,760		$565,000	$484,878	$0	$0	$0	$0	$1,049,878	$2,765,530	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.
54	Snoqualmie-South Fork Skykomish Subtotal					$71,924,650	$54,248,682	$14,290,180	$17,676,074	[illegible]	$31,320,813	$14,640,352	$20,450,280	$9,665,017	$12,668,554	$3,920,407	$92,568,308	$146,510,960	
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57	WLFL5 SAMMAMISH R BANK REPAIRS	1124088	Repair	N/A	WLR	$400,000	$106,050	$10,895	$293,950		$313,845	$0	$0	$0	$0	$0	$313,845	$419,895	Repair and stabilize two short sections of the right riverbank near I-405 to protect the regional Sammamish River trail. Work is being coordinated with Parks. Full permitting will be required as work will be below OHW, plus an updated easement will be required from WSDOT and FHWA due to I-405 proximity. Construction is targeted for summer 2010 and will likely require detouring trail users to adjacent roads.
58	WLFL5 NE 8TH ST AT LAKE ALLEN OUTLET	1130555	FCD	FCD	WLR	$0	$0	$0	$0		$0	$0	$0	$400,000	$1,400,000	$1,000,000	$2,800,000	$2,800,000	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.
59	WLFL5 WILLOWMOOR FLDPLAIN REST	1112037	58%	8%	WLR	$2,232,642	$1,405,468	$485,281	$827,174		$1,312,455	$500,000	$2,964,719	$50,000	$0	$0	$4,827,174	$6,232,642	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. In June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the split-channel alternative including various design elements such as variable depth pools, cold water supplementation, and other elements itemized in the motion.
60	WLFL6 LOWER COAL CRK PH I	1116846	71%	49%	Agreement	$1,503,576	$1,504,751	$2,275,000	($1,175)	$180,175	$2,454,000	$2,457,000	$2,311,000	$10,000	$10,000	$0	$7,242,000	$8,746,751	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. Expenditure forecast to be updated based on current project schedule.
61	WLFL6 MCALEER/LYON CHAN IMPRVM	1116847	79%	77%	Agreement	$1,050,000	$1,050,751	$0	($751)	$751	$0	$0	$0	$0	$0	$0	$0	$1,050,751	Re-establish a more natural floodplain widening for Lyon Creek and upgrade undersized culverts in the project area. Project may include high-flow bypass alternatives. Funding is 25% local share for FEMA grant; implemented by City of Lake Forest Park. Project to be closed out in 2017.
62	WLFL7 BELMONDO FEMA 1653 PH I	1112024	Repair	N/A	WLR	$1,901,295	$1,905,904	$0	($4,609)	$4,609	$0	$0	$0	$0	$0	$0	$0	$1,905,904	Flood damage repair of revetment protecting SR 169, the regional trail, and fiberoptic line.
63	WLFL7 CDR PRE-CONST STRTGC ACQ	1044734	84%	69%	Acqu/Elev	$2,830,814	$2,532,848	$1,409,718	$297,968		$1,707,684	$1,529,712	$1,560,306	$1,591,512	$1,623,342	$1,655,809	$9,758,365	$12,291,213	This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent, namely the levee setback projects at the Herzman, Jan Rd, Rhode, Getchman, and Rutledge-Johnson Lower Jones Rd levee segments. Acquisition funding reduced pending Board action on the Cedar corridor planning effort and the District's acquisition policy.
64	WLFL7 CEDAR CORRIDOR IMPLMNTN	1123252	76%	44%	WLR	$16,763	$0	$328,437	$16,763	($345,200)	$0	$0	$0	$0	$0	$0	$0	$0	Placeholder for corridor plan implementation project(s)

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2016 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
65	WLFL7 MAPLEWOOD FEASIBILITY STUDY	1131087			WLR	$0	$0	$0	$0	$440,000	$440,000	$0	$0	$0	$0	$0	$440,000	$440,000	Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee.
66	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	1131548			WLR	$0	$0	$0	$0	$36,000	$36,000	$3,057,792	$1,738,873	$4,569,548	$1,544,801	$40,575	$10,987,589	$10,987,589	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.
67	WLFL7 HERZMAN LEVEE SETBACK AND TRAIL	1131549			WLR	$0	$0	$0	$0		$0	$924,581	$226,184	$3,972,541	$78,795	$81,140	$5,283,240	$5,283,240	Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
68	WLFL7 JAN ROAD NEIGHBORHOOD	1131550			WLR	$0	$0	$0	$0		$0	$0	$0	$200,000	$350,000	$350,000	$900,000	$900,000	Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, contruction of side channel, and mitigation of at-risk properties.
69	WLFL7 LOWER CEDAR FEASIBILITY STUDY	1131680			WLR	$0	$0	$0	$0		$0	$0	$200,000	$200,000	$100,000	$0	$500,000	$500,000	Capital Investment Strategy: Conduct feasibility study to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 3) conduct cost-benefit analysis.
70	WLFL7 CEDAR RIVER TRAIL SITE 2A BANK	1131691			WLR	$0	$0	$0	$0		$0	$0	$10,000	$40,000	$50,000	$790,000	$890,000	$890,000	Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank failure.
71	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	1131800			Agreement	$0	$0	$0	$0		$0	$750,000	$4,250,000	$0	$0	$0	$5,000,000	$5,000,000	Placeholder for Renton levee certification projects.
72	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)	1116060	84%	69%	WLR	$1,987,587	$1,624,424	$0	$363,163		$363,163	$0	$0	$0	$0	$0	$363,163	$1,987,587	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. Completion of this plan is expected in September 2016.
73	WLFL7 CEDAR R REP LOSS MITGATN	1044651	74%	8%	Acqu/Elev	$3,788,422	$3,182,250	$58,679	$606,172	($58,679)	$606,172	$0	$0	$0	$0	$0	$606,172	$3,788,422	Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition policy.
74	WLFL7 CEDAR RVR GRAVEL REMOVAL	1044729	69%	59%	Agreement	$11,728,768	$8,480,221	$774,117	$3,248,547	($1,400,000)	$2,622,664	$325,046	$82,035	$84,495	$87,030	$89,640	$3,290,910	$11,771,131	The project will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action for the Army Corps of Engineers 205 Flood Control Project. Project costs were updated in March 2016.
75	WLFL7 ELLIOTT BR LEVEE SETBACK	1112041	79%	56%	WLR	$2,425,408	$2,168,073	$0	$257,335	($250,000)	$7,335	$0	$0	$0	$0	$0	$7,335	$2,175,408	Purpose of the project is to setback levees on both sides of the river below the Elliott/154th ST Bridge
76	WLFL7 FBD CORRIDOR IMPLEMENTATION	1128284	84%	69%	Acqu/Elev	$2,150,000	$932,547	$3,555,500	$1,217,453		$4,772,953	$806,284	$0	$0	$0	$0	$5,579,237	$6,511,784	Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle
77	WLFL7 SE 102ND AVE AT 266TH CT	1130556	FCD	FCD	WLR	$0	$0	$150,000	$0		$150,000	$250,000	$400,000	$700,000	$0	$0	$1,500,000	$1,500,000	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.
78	WLFL7 SR 169 FEASIBILITY STUDY	1130557	FCD	FCD	WLR	$0	$0	$260,000	$0		$260,000	$0	$0	$0	$0	$0	$260,000	$260,000	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.
79	WLFL7 RAINBOW BEND LEVEE STBCK	1112029	76%	79%	WLR	$2,369,091	$2,104,185	($264,906)	$264,906	$109,100	$109,100	$0	$0	$0	$0	$0	$109,100	$2,213,285	This project represents the Flood District contribution to a larger project to remove the Rainbow Bend levee in order to slow flood velocities and reduce flood elevations in this area of the river. Funding added in 2017R for road RDW vacation costs.
80	WLFL7 RIVERBEND MHP ACQ	1119888	82%	46%	WLR	$5,357,042	$3,496,466	$0	$1,860,576		$1,860,576	$0	$0	$0	$0	$0	$1,860,576	$5,357,042	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.
81	Cedar-Sammamish Subtotal					$39,741,406	$30,481,938	$8,141,721	$9,547,470	[illegible]	$17,105,047	$10,806,414	$13,743,117	$11,818,096	$5,243,959	$4,007,173	$62,518,706	$97,012,544	
82																			
83																			
84	WLFL8 BRISCOE LEVEE SETBACK	1116515	82%	38%	Agreement	$23,330,271	$21,361,073	$0	$1,969,198		$1,969,198	$0	$0	$0	$0	$0	$1,969,198	$23,330,271	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.
85	WLFL8 BRPS BLACK R PUMP STATION	1110360	100%	72%	WLR	$5,374,203	$5,134,042	$0	$240,161		$240,161	$36,060	$0	$0	$0	$0	$276,221	$5,410,263	Expenditures here include sediment removal, fuel system upgrades, life-cycle efficiency analysis to inform future upgrades, and priority items from recently completed needs assessment (2015). New line items established below to account for discrete project elements.
86	WLFL8 BRPS CONTROL BLDG RPLCMT	1129589	100%	72%	WLR	$0	$0	$50,000	$0		$50,000	$1,072,200	$7,582,700	$0	$0	$0	$8,704,900	$8,704,900	New project line; previously combined as part of Line 85
87	WLFL8 BRPS FISH PASS IMPRVMNTS	1130020	100%	72%	WLR	$0	$0	$0	$0		$0	$0	$10,000	$25,000	$752,000	$1,803,500	$2,590,500	$2,590,500	New project line; previously combined as part of Line 85
88	WLFL8 BRPS HIGH-USE ENGINES	1129574	100%	72%	WLR	$0	$0	$252,000	$0		$252,000	$1,292,500	$0	$0	$0	$0	$1,544,500	$1,544,500	New project line; previously combined as part of Line 85
89	WLFL8 BRPS SUPPORT SYS UPGRADES	1130024	100%	72%	WLR	$0	$0	$0	$0		$0	$50,000	$147,200	$646,400	$597,650	$0	$1,441,250	$1,441,250	New project line; previously combined as part of Line 85
90	WLFL8 PATTON BRIDGE 3015	1130559	FCD	FCD	WLR	$0	$0	$150,000	$0		$150,000	$0	$0	$0	$0	$0	$150,000	$150,000	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.
91	WLFL8 SE 380 PL AT SR 164	1130560	FCD	FCD	WLR	$0	$0	$0	$0		$0	$90,000	$100,000	$400,000	$100,000	$0	$690,000	$690,000	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.
92	WLFL8 SE 384 ST @ 176 AVE SE	1130561	FCD	FCD	WLR	$0	$0	$0	$0		$0	$0	$0	$0	$0	$150,000	$150,000	$150,000	These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
93	WLFL8 DESIMONE USACE 2015	1124990	100%	N/A	Agreement	$2,500,000	$1,634,698	$63,620	$865,302		$928,922	$0	$0	$0	$0	$0	$928,922	$2,563,620	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
94	WLFL8 DYKSTRA USACE 2015	1126058	100%	N/A	Agreement	$1,685,007	$638,356	($1,295,068)	$1,046,741	$302,827	$54,500	$1,768	$0	$0	$0	$0	$56,268	$694,624	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
95	WLFL8 GREEN R PL84-99 MITIGATN	1044882	89%	72%	WLR	$4,062,558	$3,666,478	$981,430	$394,080	($1,000,000)	$375,510	$500,000	$0	$0	$0	$0	$875,510	$4,541,988	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.
96	WLFL8 HSB BREDA SETBACK	1132391	95%	41%	WLR	$2,595,720	$107,999	$1,755,000	$2,487,721		$4,242,721	$550,000	$3,290,000	$21,500	$0	$0	$8,104,221	$8,212,220	New project to implement interim SWIF adopted by Board of Supervisors.
97	WLFL8 HSB MCCOY REALIGNMENT	1129576	FCD	FCD	WLR	$0	$0	$400,000	$0		$400,000	$0	$0	$0	$0	$0	$400,000	$400,000	New project to implement interim SWIF adopted by Board of Supervisors.
98	WLFL8 HSB NURSING HOME SETBACK	1123254	FCD	FCD	WLR	$38,806	$0	($38,806)	$38,806		$0	$0	$0	$0	$0	$200,000	$200,000	$200,000	New project to implement interim SWIF adopted by Board of Supervisors.
99	WLFL8 INTERIM SWIF IMPLEMENTATION	1132006	FCD	FCD	WLR	$0	$0	$0	$0	$30,000	$30,000	$0	$0	$0	$0	$0	$30,000	$30,000	Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the operating budget.
100	WLFL8 LOWER RUSSELL ACQ KENT	1132007	FCD	FCD	Agreement	$0	$0	$0	$0	$1,000,000	$1,000,000	$0	$0	$0	$0	$0	$1,000,000	$1,000,000	Acquisitions by the City of Kent for the Lower Russell levee setback project.
101	WLFL8 LWR RUSSELL LEVEE SETBACK	1112050	76%	50%	WLR	$7,020,800	$6,041,888	$5,050,270	$978,972		$6,029,242	$6,833,935	$22,120,512	$4,644,089	$0	$0	$39,630,778	$45,681,666	Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 18.25 (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.

No.	Title	Project	Flood Risk %	Implement %	Type of Project	2016 Inception to Date Budget	2016 Inception to Date Expenditure	2017 Adopted	2018 Carryover	2017 Reallocation Request	2017 Revised	2018 Projected	2019 Projected	2020 Projected	2021 Projected	2022 Projected	6-Year CIP Total	Project Life Total	Comments
102	WLFL8 MILWAUKEE LEVEE #2-KENT	1128595	FCD	FCD	Agreement	$8,500,000	$10,768	$0	$8,489,232		$8,489,232	$0	$0	$0	$0	$0	$8,489,232	$8,500,000	Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights. Current ILA with Kent for this first phase is $3.65 million, the ILA assumes that the total project cost is $8.5 million.
103	WLFL8 PORTER LEVEE	1124092	30%	41%	WLR	$300,000	$0	$420,000	$300,000		$720,000	$0	$0	$0	$0	$0	$720,000	$720,000	Contribute the cost of a repair ($720,000) to a $7 million levee setback project. By relocating the levee, future repair costs for the Flood Control District are reduced. In response to community concerns, the project also includes funding to elevate the road so that the school bus serving this neighborhood does not have to drive in the oncoming lane to avoid floodwaters.
104	WLFL8 REDDINGTON BEACH SETBACK	1112035	68%	62%	WLR	$16,889,083	$16,564,851	$0	$324,232		$324,232	$0	$0	$0	$0	$0	$324,232	$16,889,083	Project expenditures will continue into 2017; closeout anticipated in 2018.
105	WLFL8 RUSSELL RD UPPER KENT	1044881	92%	72%	Agreement	$5,987,228	$6,020,673	$0	($33,445)	$84,945	$51,500	$0	$0	$0	$0	$0	$51,500	$6,072,173	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.
106	WLFL8 SIGNATURE POINTE REVETMENT	1130502	FCD	FCD	WLR	$0	$0	$300,000	$0		$300,000	$0	$0	$0	$0	$0	$300,000	$300,000	Signature Pointe is a revetment/levee on the Green River between river mile 22.06 and 23.18 that does not meet the FEMA requirements for accreditation due to inadequate freeboard. This project includes development of a project charter and an alternatives analysis to select an alternative to achieve increased flood protection, embankment and toe protection in a manner that can be certified and accredited.
107	WLFL8 S 180TH ST BRIDGE FLOODWALL EXT	20171	FCD	FCD	WLR	$0	$0	$0	$0	$65,378	$65,378	$0	$0	$0	$0	$0	$65,378	$65,378	The project will increase the height of a flood wall to provide approximately 30' of additional flood protection.
108	WLFL8 S 277TH ST REVETMENT	1127209	FCD	FCD	WLR	$300,000	$90,528	$0	$209,472		$209,472	$0	$0	$0	$0	$0	$209,472	$300,000	This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. No design or construction funding at this time.
109	WLFL8 TUK-205 USACE GACO REPAIR	1120367	R	N/A	WLR	$50,000	$44,240	$80,440	$5,754	$8,933,613	$9,019,807	$0	$0	$0	$0	$0	$9,019,807	$9,064,053	600 feet of scour has exposed rock armor. No sign of armor loss. Interim SWIF capital project is for 0.33 miles of floodwall and toe/scour protection. Increased vulnerability to further scour and damage to facility.
110	WLFL8 TUK-205 RATOLO FLOODWALL	1130021	FCD	FCD	WLR	$0	$0	$0	$0		$0	$0	$0	$0	$0	$1,100,000	$1,100,000	$1,100,000	New project to implement interim SWIF adopted by Board of Supervisors.
111	WLFL8 TUK-205 SEGALE FLOODWALL	1129577	FCD	FCD	WLR	$0	$0	$5,640,000	$0	($5,640,000)	$0	$2,750,000	$1,300,000	$650,000	$4,500,000	$45,000	$9,245,000	$9,245,000	New project to implement interim SWIF adopted by Board of Supervisors. The Gaco portion of the Tukwila-205 levee between river mile 15.75 and 15.88 is over-steepened and damaged and cannot be adequately repaired using the existing easements. This project would acquire properties landward of the damaged levee to enable a levee setback and repair of the embankment and toe scour at this outside bend, in coordination with the Army Corps of Engineers PL 84-99 rehabilitation program.
112	WLFL8 USACE SWIF	1116363	FCD	FCD	WLR	$2,287,724	$2,209,817	($81,987)	$77,907	$3,980	$0	$0	$0	$0	$0	$0	$0	$2,208,817	Green River Corridor Planning (under System-Wide Improvement Framework agreement with Army Corps of Engineers)
113	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	1130116	FCD	FCD	WLR	$1,743,249	$0	$0	$1,743,249		$1,743,249	$0	$0	$0	$0	$0	$1,743,249	$1,743,249	Lower Green River Corridor Planning and Environmental Impact Statement
114	Green-Duwamish Subtotal					$62,604,709	$53,527,418	$13,733,609	$19,137,382	$3,760,743	$38,852,024	$13,775,603	$10,955,412	$6,580,000	$5,660,660	$3,358,500	$100,020,036	$103,547,458	
115																			
116																			
117	WLFL9 BUTTE AVE FLOOD MITIGATION	20172	FCD	FCD	Agreement	$0	$0	$0	$0	$470,000	$470,000	$0	$0	$0	$0	$0	$470,500	$470,000	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 flooding.
118	WLFL9 COUNTYLINE TO A STREET	1112049	87%	74%	WLR	$15,569,190	$12,662,360	$5,212,068	$2,906,836	$3,222,535	$11,342,050	$0	$0	$0	$0	$0	$11,342,050	$24,004,419	Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with $52 million of assessed and $13 million content value), improves sediment storage and enhances habitat.
119	WLFL9 RED CREEK ACQUISITIONS	1130023	71%	41%	Acqu/Elev	$0	$0	$0	$0		$0	$0	$0	$0	$0	$100,000	$100,000	$100,000	Permanently eliminate the risk to public safety along this reach by acquiring and removing residential structure. Placeholder funding for appraisal and/or grant match dependent on landowner willingness.
120	WLFL9 RIGHT BANK LEVEE SETBACK	1112038	79%	64%	WLR	$11,381,414	$10,578,055	$768,785	$803,359		$1,573,144	$1,536,321	$6,722,036	$8,571,371	$115,927	$0	$16,518,790	$27,096,854	Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
121	WLFL9 WHITE - GREENWATER ACQ	1122030	68%	44%	Acqu/Elev	$375,000	$0	($375,000)	$375,000		$0	$0	$0	$0	$0	$100,000	$100,000	$100,000	This project would acquire flood prone residence along the White River near the Greenwater River.
122	White Subtotal					$27,325,610	$23,240,415	$5,607,473	$4,085,195	$3,692,535	$13,385,203	$1,536,321	$6,722,036	$8,571,371	$115,927	$200,000	$28,530,856	$51,377,273	
123																			
124																			
125	WLFLS SOUTH PARK PUMPSTATION	1112030	79%	64%	Agreement	$2,690,575	$1,786,219	$3,310,756	$904,356		$4,215,112	$504,244	$0	$0	$0	$0	$4,719,356	$6,505,575	Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
126	WLFLS S PARK DRAINAGE IMPROVEMENTS	1129203	FCD	FCD	Agreement	$500,000	$720	$500,000	$499,280		$999,280	$1,000,000	$1,000,000	$1,005,000	$0	$0	$4,004,280	$4,005,000	The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the streets, to get flows to the pump station. The conveyance improvements will work in conjunction with the Pump Station.
127	Seattle Subtotal					$3,190,575	$1,786,939	$3,810,756	$1,403,636	$0	$5,214,392	$1,504,244	$1,000,000	$1,005,000	$0	$0	$8,723,636	$10,510,575	
128																			
129																			
130	WLFLX CORRIDOR PLN DESIGN/CONST PLACEHOLDER	1124993	N/A	N/A	WLR	$142,610	$0	$0	$142,610		$142,610	$2,489,775	$2,452,537	$11,213,074	$9,430,286	$2,010,077	$27,738,350	$27,738,350	Placeholder for corridor plan implementation project(s)
131	Countywide Corridor Plan Imp Subtotal					$142,610	$0	$0	$142,610	$0	$142,610	$2,489,775	$2,452,537	$11,213,074	$9,430,286	$2,010,077	$27,738,350	$27,738,350	
132																			
133																			
134	WLFLG FLOOD REDUCTION GRANTS	1122628	FCD	FCD	Grant	$8,541,782	$2,585,910	$3,058,908	$5,955,883		$9,014,771	$3,133,710	$3,196,473	$3,270,848	$3,345,125	$3,420,602	$25,381,527	$27,967,446	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
135	WLFLM EFFECTIVENESS MONITORING	1112022	N/A	N/A	WLR	$1,861,120	$1,616,734	$357,399	$244,386		$601,785	$895,779	$332,985	$533,242	$219,566	$634,010	$3,217,367	$4,834,101	Evaluation of capital projects to determine effectiveness and identify project design improvements.
136	WLFLO SUBREGNL OPPRTNTY FUND	1045042	FCD	FCD	Grant	$37,939,497	$27,038,460	$5,743,771	$10,901,037		$16,644,808	$5,828,701	$5,945,440	$6,083,773	$6,221,902	$6,362,310	$47,086,973	$74,125,433	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
137	WLFLX CENTRAL CHARGES	1044281	N/A	N/A	WLR	$866,053	$652,217	($284,560)	$213,836	$200,000	$129,276	$51,000	$52,020	$53,060	$54,122	$55,204	$394,682	$1,046,899	Central charges related to the FCD's capital fund.
138	WLFLX FLOOD EMERGENCY CONTGNCY	1044279	N/A	N/A	WLR	$791,003	$300,001	$9,914	$491,002		$500,916	$265,225	$273,182	$281,377	$289,818	$298,513	$1,909,031	$2,209,032	Contingency for emergency response actions during a flood event.
139	WLFLX WRIA GRANTS	1117333	FCD	FCD	Grant	$18,708,059	$11,348,474	$4,390,296	$7,360,485		$11,750,781	$4,504,883	$4,622,400	$4,743,106	$4,866,001	$4,993,028	$35,482,050	$46,830,534	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
140	Countywide Subtotal					$68,708,414	$43,541,506	$13,275,728	$25,166,609	$200,000	$38,642,337	$14,679,298	$14,422,500	$14,965,405	$14,997,664	$15,764,678	$113,471,659	$167,013,446	
141																			
142	Grand Total					$293,658,072	$216,539,197	$55,559,737	$76,858,278	$8,753,513	$142,472,126	$59,232,867	$82,747,447	$61,813,552	$48,235,820	$29,280,732	$433,571,544	$658,410,741	