July 19th Preliminary Draft - King County Flood Control District

2018 - 2023 Six-Year CIP Project Allocations Attachment H

Changes since hard copy distributed 7/13/17 2015-2016 Flood Damage Repairs Grant/External Funding Cost Share 2017 Mid-Year Revision

	2017 Mile Fear Revision King County Road Services Division Projects															
			Implement	Type of	2016 Inception to Date	2017 Revised Inception to	2017 Available	2018	2019	2020	2021	2022	2023	6-Year CIP	Project Life	
No. Title	Basin	Flood Risk %	%	project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Total	Comments
1 WLFL0 MILLER R RD RVTMNT 2016 REPAIR	SF Skykomish	Repair	N/A	WLR	\$1,409	\$760,799	\$759.390	(\$334.425)	\$0	\$0	\$0	\$0	\$0	(\$334.425)	\$426,374	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 SKYKOMISH HOME BUYOUTS	SF Skykomish			Acqu/Elev	\$380	\$380	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		Acquisition of at-risk single family homes in the Town of Skykomish. This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding
3 WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	74%	46%	Acqu/Elev	\$295,404	\$690,838	\$395,434	\$54,566	\$0	\$0	\$0	\$0	\$119,405	\$173,971	\$864,809	This project will extend to buyour intervious accuracy in the Social for Kidykonish basin to eniminate the foot incoming or erosion damage during future flood events. This project would improve infrastructure at the mouth of Maloney Creek and on the SF Skykomish River to reduce the
4 WLFL0 SKY W RVR DR FLOOD STUDY	SF Skykomish	63%	36%	WLR	\$2,475	\$81,237	\$78,762	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$81,237	frequency of flooding of homes and property within the Town of Skykomish.
5 WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	Repair	N/A	WLR	\$61,767	\$150,000	\$88,233	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$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	SF Skykomish	Repair	N/A	WLR	\$7,658	\$309,433	\$301,775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$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	SF Skykomish	76%	46%	Acqu/Elev	\$1,571,273	\$2,586,513	\$1,015,240	\$223,361	\$0	\$0	\$0	\$0	\$0	\$223,361	\$2,809,874	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	SF Skykomish	Repair	N/A	WLR	\$11,040	\$52,500	\$41,460	(\$36,460)	\$20,000	\$20,000	\$20,000	\$20,000	\$0	\$43,540	\$96,040	Old privately built facility in Timberlane Village on County property. Riverside rockery walls continue to oversteepen, settle and fall into the river.
																FCD-requested project to reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reinig Road to reduce the frequency of community isolation caused by
9 WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD	FCD	WLR	\$168,614	\$300,000	\$131,386	(\$31,386)	\$0	\$0	\$0	\$0	\$0	(\$31,386)	\$268,614	floodwaters overtopping these roadways. Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99
10 WLFL1 USACE PL 84-99 SF SNO	Upper Snoq			WLR	\$0	\$0	\$0	\$150,223	\$183,154	\$352,868	\$363,454	\$0	\$0	\$1,049,698		program in order to receive future assistance from the Corps in the event of flood damage to the levees Six levee deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired
11 WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq			WLR	\$0	\$0	\$0	\$295,673	\$374,439	\$727,790	\$749,623	\$0	\$0	\$2,147,526	\$2,147,526	segment of levee in place. Address flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the
12 WLFL1 RIBARY CREEK	Upper Snoq			WLR	\$0	\$0	\$0	\$0	\$636,492	\$815,106	\$2,338,618	\$2,408,777	\$0	\$6,198,993	\$6,198,993	river during high flows. Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions
13 WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq			WLR	\$0	\$0	\$0	\$0	\$0	\$265,438	\$318,421	\$385,937	\$457,218	\$1,427,015	\$1,427,015	include: repair and/or raise levee in place / setback levee / gravel removal / home elevations. This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch
14 WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	N/A	N/A	WLR	\$64,225	\$150,000	\$85,775	\$278,505	\$513,426	\$1,608,159	\$1,738,003	\$0	\$0	\$4,138,093	\$4,288,093	Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor
14 TELET ORGER VIX NORTH MORNED	Оррег опод	IN/A	INA	WEN	904,223	\$130,000	ψ00,773	ψ270,503	Q3 13,420	\$1,000,100	\$1,730,003	40	30	ψ4,130,033		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
15 WLFL1 MASON THRSN EXT 2016 REPAIR		Repair	N/A	WIR		6040.000	6040.000		***	60	60	60		60	\$0.40.000	adjacent private property. Damage to levee face-rock compromises levee integrity and may lead to progressive failure,
16 WLFLI MF SNO CORRIDOR IMP	Upper Snoq Upper Snoq	76%	51%	WLR	\$954	\$240,000 \$1,100,000	\$240,000 \$1,099,046 \$514,307	\$0 \$0 \$0	\$2,243,361 \$0	\$1,591,350 \$0	\$1,311,272 \$0	\$0 \$0	\$0 \$0	\$5,145,983 \$0	\$6,245,983	especially at upstream end. Placeholder for corridor plan implementation project(s)
17 WEFLT MF SNO CORRIDOR PLAN	Upper Snoq	76%	33%	WLR	\$1,310,605	\$1,824,912	\$514,307	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,824,912	Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2018. The North Fork Bridge was originally built in 1951 and is extreamely vulnerable to scour as the channel thalweg migrates.
18 WLFL1 NORTH FORK BRIDGE 2016 REPAIR	Upper Snoq	Repair	N/A	WLR	\$111	\$385,000	\$384,889	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$385,000	
																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
19 WLFL1 REIF RD 2016 REPAIR	Upper Snoq	Repair	N/A	WLR	\$0	\$253,000	\$253,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		facility which provides flood protection for several residences landward of the facility. Project identified by Board to alleviate potential flooding of I-90 in North Bend. Currently evaluating project alternatives,
20 WLFL1 SF SNO CORR EARLY ACTION 21 WLFL1 SF SNO CORRIDOR IMP 22 WLFL1 SF SNO CORRIDOR PLAN	Upper Snoq Upper Snoq	95% 95%	49% 49%	WLR WLR	\$1,373,089 \$0	\$5,562,744 \$130,771	\$4,189,655 \$130,771	(\$4,039,655) (\$57,971)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$4,039,655) (\$57,971)	\$72,800	including levee setback and gravel removal. Placeholder for corridor plan implementation project(s)
	Upper Snoq	79%	49%	WLR	\$2,472,914	\$2,682,914	\$210,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0		SF Snoqualmie Corridor planning process and development of capital investment strategy. Total breach of levee - erosion and lateral channel migration is ongoing. No immediately adjacent private property or
WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	Repair	N/A	WLR	\$0	\$800,000	\$800,000	(\$647,676)	\$709,356	\$0	\$0	\$0	\$0	\$61,680	\$861,680	infrastructure. Continued erosion could threaten 428th Ave embankment or bridge. 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
24 WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	Repair	N/A	WLR	\$0	\$197,500	\$197,500	\$620,575	\$0	\$0	\$0	\$0	\$0	\$620,575	\$818,075	heavily used county road (428th Ave SE). Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie and Ribary
																Flace-flower inclining to plantie with World' in expand bringle exclude given south Flow Stockpalline and Rodary Creek to improve conveyance and reduce upstream flood impacts. Supported by North Bend. Requires state or federal flunding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
25 WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	76%	26%	WLR	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	Flood damage repairs from January 2015 flood event. Locations include Mason-Thorson Ells and Mason-Thorson
26 WLFL1 UPPER SNOQ 2015 FLOOD REPAIR	Upper Snoq	Repair	N/A	WLR	\$5,673	\$1,465,673	\$1,460,000	\$15,450	\$0	\$0	\$0	\$0	\$0	\$15,450	\$1,481,123	Extension (Middle Fork Snoqualmie); North Park (North Fork Snoqualmie); and Record Office, Meadowbrook, and Railroad (Snoqualmie mainstern).
		•														This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of
27 WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	89%	54%	Acqu/Elev	\$9,163,547	\$11,971,284	\$2,807,737	\$1,454,158	\$2,412,151	\$2,484,516	\$2,559,051	\$2,635,823	80	\$11,545,699	\$23,516,983	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.
21 WELL OF K SNO KESTED WITHOUT	Opper Snoq	0070	5470	Acquiriles	\$9,163,347	\$11,971,204	\$2,007,737	\$1,404,100	\$2,412,131	\$2,464,316	\$2,339,031	\$2,030,023	30	\$11,343,099	\$23,310,803	Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and
28 WLFL2 DUTCHMAN RD REPAIR	Lower Snoq	Repair	N/A	WLR	80	\$209,914	\$209,914	\$338,679	80	80	80	80	SO SO	\$338,679	\$E49 E02	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.
20 WEI EZ BOTOTIWAN NO KEI AIK	LOWER SHOT	Repail	INA	WEN	- 50	\$209,314	\$200,014	\$330,073	40	40	\$0	40	40	\$330,019	4040,080	The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation
29 WLFL2 DUVALL BRIDGE 1136A	Lower Snoq	FCD	FCD	Agreement	\$0	\$30,000	\$30,000	\$120,000	\$0	\$0	\$0	\$0	\$0	\$120,000	\$150,000	measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
30 WLFL2 FARM FLOOD TSK FORCE IMP		500/	79%	WLR	*****	\$763,759	******	2		\$118.670		2.00.000		****		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,
31 WLFL2 L SNO REP LOSS MITGTION	Lower Snoq Lower Snoq	74%	21%	Acqu/Elev	\$668,348 \$1,269,231	\$763,759 \$1,712,699	\$95,411 \$443,468	\$111,858 (\$17,028)	\$115,214 \$0	\$118,670 \$0	\$122,230 \$0	\$125,897 \$0	\$0 \$0	\$593,869 (\$17,028)	\$1,357,628 \$1,695,671	elevations of homes, and elevation or flood proofing of agricultural structures. Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
																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
32 WLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snoq	84%	97%	WLR	\$5,644,814	\$7,252,761	\$1,607,947	\$113,053	\$742,630	\$655,636	\$0	\$0	\$0	\$1,511,319	\$8,764,080	leverages habitat restoration funding from other sources. This project provides technical and cost-sharing assistance to residential and agricultural landowners in the Lower
33 WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snoq	FCD	FCD	Acqu/Elev	\$1,927,117	\$3,306,276	\$1,379,159	(\$27,959)	\$737,924	\$0	\$0	\$0	\$0	\$709,965	\$4,016,241	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.
34 WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD	FCD	WLR	\$292,549	\$1,706,294	\$1,413,745	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,706,294	Rebuild revetment to protect road access to high value agricultural operations and lands. Construction of road anticipated 2017; bank repair anticipated in 2018.
WLFL2 SE DAVID POWELL RD 35 DOWNSTREAM	Lower Snoq	FCD	FCD	WLR	\$149,535	\$1,036,456	\$886,921	\$0	\$0	\$0	\$0	\$0	\$0	\$0		FCD-requested project to reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 150 homes.
36 WLFL2 SE DAVID POWELL RD UPSTREAM	Lower Snoq	FCD	FCD	Agreement	\$0	\$250,000	\$250,000	\$700,000	\$1,250,000	\$0	\$0	\$0	\$0	\$1,950,000	\$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.
37 WLFL2 SE FISH HATCHERY RD	Lower Snoq	FCD	FCD	WLR	\$124,843	\$527,905	\$403,062	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$527,905	FCD-requested project to reduce neighborhood isolation from flooding. Prevent slope failure of sole access roadway that would isolate 20-30 homes.
																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
38 WLFL2 SINNEMA QUAALE 2011 REPR	Lower Snoq	100%	N/A	WLR	\$11,974,543	\$12,508,516	\$533,973	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,508,516	in 2018.

Title	Basin	Flood Risk %	Implement %	Type of project	2016 Inception to Date Expenditure	2017 Revised Inception to Date Budget	2017 Available Budget	2018 Requested	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	6-Year CIP Total	Project Life Total	Comments
WLFL2 SNOQUALMIE VALLEY FEASIBILITY	Lower Snoq	FCD	FCD	Agreement	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0	\$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 impa- lover 25.000 daily drivers.
WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	84%	49%	WLR	\$1,515,788	\$3,271,375	\$1,755,587	\$6,162,541	\$42,436	\$0	\$n	so.	\$0	\$6,204,977	\$9,476,352	This project will repair approximately 800 linear feet of the Winkelman (formerly RM 13.5) revelment. Erosion along right bank of the Snoqualmie River channel threatens to undermine the Seattle Public Utilities water supply line at the location south of Duvall. Construction anticipated 2017.
WLFL2 WOODINVILLE DUVALL BR		FCD	FCD	Agreement	\$0	\$100,000	\$100.000	\$300.000	\$0	\$0	g0	\$0	60	\$300.000		These two bridges are subject to having the readway approach fill wash out during a flood. Excavate approaches ar rebuild approaches prevent loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
WLFL3 FREW LEVEE 2016 REPAIR	Lower Snoq	Repair	N/A	WLR	\$0 \$0	\$150,000	\$150,000	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000		Tace rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resu an oversteepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact this/laway if facility breaches during a major flood.
WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	Repair	N/A	WLR	50	\$60,000	\$60,000	40	90	90	90	90		90		Approximately of teaches during a negot induct. Approximately 20 feet of face and toe rock disologed from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to ful scour and potential failure.
	TOR	Repail	N/A		30			30	30	30	φυ -	30	30	30		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
VLFL3 HOLBERG FEASIBILITY VLFL3 LOWER FREW LEVEE SETBACK	Tolt			WLR	\$0 \$0	\$200,000 \$175,000	\$200,000 \$175,000	\$0 \$1,236,000	\$0 \$1,823,962	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$3,059,962	\$200,000 \$3,234,962	Channel Migration study Capital Investment Strategy: Design, based on level of service analysis, the highest priority levee setback for floor reduction. FCD 6-year includes funds needed for grant match for future grant applications.
VLFL3 LOWER TOLT RIVER ACQUISITION VLFL3 RIO VISTA PROPERTY ACQ	Tolt	0%		Acqu/Elev Acqu/Elev	\$529,475 \$0	\$744,475 \$0	\$215,000 \$0	\$0 \$500.000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$500,000	\$744,475	Acquisition between the Swiftwater development and the river for the future setback of the Upper Frew Levee Capital Investment Strategy: Acquire 2 at-risk homes from willing sellers; acquire remaining 14 homes as funds b available.
ILFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	82%	79%	Acqu/Elev	\$4,127,691	\$5,553,353	\$1,425,662	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000	\$5,553,353	areaculum. This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upst end of the community access road, ultimately completing project initiated 20 years ago by others. When complete result in removing approximately 20 homes from high hazard areas within and just upstream and downstream of Souch neighborhood.
/LFL3 SAN SOUCI REACH IMPRVMNTS	Tolt			WLR	\$0	\$0	\$0	\$100,000	\$250,000	\$700,000	\$700,000	\$750,000	\$0	\$2,500,000	\$2,500,000	Capital Investment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and in San Souci neighborhood.
/LFL3 SEDIMENT MGMT FEAS	Tolt			WLR	\$0	\$0	\$0	\$209,605	\$205,284	\$0	\$0	\$0	\$0	\$414,889	\$414,889	Capital Investment Strategy; Conduct sediment management feasibility study and develop a plan. Update and inc upper watershed sediment production estimates Capital Investment Strategy; Initiate study (with potential future design and construct) to add bridge span(s), rais-
LFL3 SR 203 BR IMPRVMNTS FEAS	Tolt			WLR	\$0	\$0	\$0	\$205,743	\$181,306	\$0	\$0	\$0	\$0	\$387,049		highway and relocate King County Parks parking area. Flood damage repairs from January 2015 flood event. Locations include Frew, Upper Frew, Remlinger, and Girl
LFL3 TOLT 2015 FLOOD REPAIRS LFL3 TOLT CORRIDOR IMPLMNTN	Tolt Tolt	Repair	N/A	WLR WLR	\$46,790 \$0	\$900,000 \$0	\$853,210 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$900,000	Carno. Placeholder for corridor plan implementation project(s). The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near
LFL3 TOLT CORRIDOR PLAN	Tolt	87%	82%	WLR	\$958,717	\$1,153,657	\$194,940	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153,657	long-term floodplain management actions. Scheduled for adoption in 2017. Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to ma
LFL3 TOLT R LEVEE L.O.S. ANALYSIS LFL3 TOLT R MILE 1.1 SETBACK	Tolt	84%	79%	WLR Acqu/Elev	\$0 \$4.097.106	\$150,000 \$5,484,360	\$150,000 \$1,387,254	\$133,250 (\$578.254)	\$420,000 \$530,450	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$553,250 (\$47,804)	\$703,250 \$5,436,556	flood risk reduction benefits Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by through adoption of the Tott Corridor Plan.
LFL3 TOLT R NATURAL AREA ACQ	Tolt	66%	64%	Acqu/Elev	\$1,140,067	\$2,470,067	\$1,330,000	\$515,000	\$530,450 \$530,450	\$109,273	\$0	\$0	\$0	\$1,154,723		unrough adoption or the Fold Comport Plan. Capital investment strategy, acquire at-risk homes from willing sellers. FCD-requested project to reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections
LFL3 TOLT R RD ELEVATION FEASIBILITY		FCD	FCD	WLR	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000	River Road. Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Imp
LFL3 TOLT R RD NE IMPROVEMENTS	Tolt			WLR	\$0	\$0	\$0	\$0	\$0	\$50,000	\$100,000	\$210,000	\$800,000	\$1,160,000	\$1,160,000	additional road elevations as funds become available. Capital Investment Strategy. Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bit increases sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bit.
LFL3 UPPER FREW LEVEE SETBACK LFL4 ALPINE MANOR NEIGHBORHOOD JYOUTS	Tolt Raging	76%	79%	WLR Acqu/Elev	\$0 \$1.715.652	\$0 \$2,280,652	\$0 \$565,000	\$0 \$405.755	\$0 \$0	\$100,000	\$100,000	\$150,000	\$0	\$350,000 \$405,755	\$350,000 \$2,686,407	Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along Racing River in the Albine Manor neighborhood.
'LFL4 RAGING R BRIDGE 1008E	Raging	FCD	FCD	Agreement	\$1,713,032	\$80,000	\$80,000	\$403,733	\$0	\$0	\$0	\$0	\$0	\$0	\$80,000	This bridge has a history of scour damage. One of the arch foundations is exposed. Repair scour mitigation mea protect the footing. It serves only one house but is a designated King County Landmark.
noqualmie-South Fork Skykomish Subtota	ı				\$52,693,404	\$84,023,017	\$31,329,613	\$8,473,181	\$13,922,035	\$9,598,805	\$10,670,673	\$6,936,434	\$1,476,623	\$51,077,752	\$135,100,769	
LFL5 NE 8TH ST AT LAKE ALLEN OUTLET	Sammamish	FCD	FCD	Agreement	\$0	\$0	\$0	\$0	\$0	\$400,000	\$1,400,000	\$1,000,000	\$1,800,000	\$4,600,000	\$4,600,000	To address chronic flooding on this sole access roadway with approximately 200 properties, took at upstream and downstream retention/detention options; study road-raining options; prepare Concept Development Report, analyselect best options.
			N/A	WLR		6440.005	6040.045	6704.000	***	*	60	*-,	**,			Repair and stabilize two short sections of the right riverbank near I-405 to protect the regional Sammamish Rive Work is being coordinated with Parks. Full permitting will be required as work will be below OHW, plus an upda easement will be required from WSDOT and FHWA due to I-405 proximity. Construction is targeted for summer
LFL5 SAMMAMISH R BANK REPAIRS	Sammamish	Repair	IVA	WLK	\$106,050	\$419,895	\$313,845	\$721,929	3 0	30	\$0	\$0	30	\$721,929	\$1,141,024	and will likely require detouring trail users to adjacent roads. Willowmore Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lak Sammanish while maintaining downstream Sammanish River flood control performance and enhancing habitat project will recordingure the Sammanish transition zone to ensure ongoing flow conveyance, downstream flood optended extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts an In June 2016 the Executive Committee approved a motion (2016-04) authorizing 30% design of the spit-chan
/LFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	58%	8%	WLR	\$1,405,468	\$2,717,923	\$1,312,455	(\$181,655)	\$1,684,709	\$2,011,665	\$0	\$0	\$0	\$3,514,719	\$6,232,642	alternative including various design elements such as variable depth pools, cold water supplementation, and oth elements itemized in the motion. Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Co
LFL6 LOWER COAL CRK PH I	Lk Wash Tribs	71%	49%	Agreement	\$1,504,751	\$3,958,751	\$2,454,000	\$5,595,000	\$4,159,000	\$145,000	\$120,000	\$100,000	\$66,000	\$10,185,000	\$14,143,751	and redirect them to Lake Washington. Implemented by City of Bellevue. Expenditure forecast to be updated be current project schedule. This project will acquire strategic real estate upon which several large Flood Control District capital projects are
LFL7 CDR PRE-CONST STRTGC ACQ	Cedar	84%	69%	Acqu/Elev	\$2,532,848	\$4,330,532	\$1,797,684	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,330,532	dependent, namely the levee setback projects at the Herzman, Jan Rd, Rhode, Getchman, and Rutledge-Johns Jones Rd levee segments. Acquisition funding related to these projects is now included in the individual capital
LFL7 CEDAR LEVEE SETBACK FEAS edar Corridor Plan)	Cedar	84%	69%	WLR	\$1,624,424	\$1,987,587	\$363,163	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,987,587	This sk-year flood risk reduction capital investment strategy will cover the Codar River valley from Landsburg R (River Mile 22) to Lake Washington. Completion of this plan is expected in September 2016.
LFL7 CEDAR R REP LOSS MITGATN LFL7 CEDAR RIVER TRAIL SITE A BANK	Cedar	74%	8%	Acqu/Elev WLR	\$3,182,250 \$0	\$3,788,422 \$0	\$606,172 \$0	\$0 \$0	\$0 \$100,000	\$0 \$100,000	\$200,000	\$490,000	\$0 \$0	\$890,000	\$3,788,422 \$890,000	Acquire frequently-flooded homes. Placeholder funding until District adopts acquisition policy. Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of to prevent large scale bank failure.
FL7 CEDAR RVR GRAVEL REMOVAL	Cedar	89%	59%	Agreement	\$8,480,221	\$11.102.885	\$2.622.664	\$0	\$962.613	\$104,880	\$445,679	\$111,267	\$114.605	\$1,739,044	\$12.841,929	The project will ensure the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of River. Project is a required maintenance action for the Army Corps of Engineers 205 Flood Control Project. Pri costs were updated in March 2016.
FL7 CITY OF RENTON LEVEE RTIFICATION	Cedar	0%	-279	Agreement	\$0	\$0	\$0	\$750,000	\$3,000,000	\$1,250,000	\$0	\$0	\$0	\$5,000,000	\$5,000,000	Placeholder for Renton levee certification projects.
FL7 ELLIOTT BR LEVEE SETBACK	Cedar	79%	56%	WLR	\$2,168,073	\$2,175,408	\$7,335	(\$7,335)	\$0	\$0	\$0	\$0	\$0	(\$7,335)	\$2,168,073	Purpose of the project is to setback levees on both sides of the river below the Elliott/154th ST Bridge. Based of Cadar Capital Investment Strategy this project is no longer scheduled for the near-term 6-year timeframe.
LFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	84%	69%	Acqu/Elev	\$932,547	\$5,705,500	\$4,772,953	\$806,284	\$0	\$0	\$0	\$0	\$0	\$806,284	\$6,511,784	Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout resider risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. Th has cost-share funding from the City of Seattle
LFL7 HERZMAN LEVEE SETBACK AND		1		WIR	1						\$78,786	\$81.149	\$83,584			Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstru- reinforce and/or extend revetment; acquire up to 5 properties.

. Title	Basin	Flood Risk %	Implement %	Type of project	2016 Inception to Date Expenditure	2017 Revised Inception to Date Budget	2017 Available Budget	2018 Requested	2019 Projected	2020 Projected	2021 Projected	2022 Projected	2023 Projected	6-Year CIP Total	Project Life Total	Comments
WLFL7 JAN ROAD NEIGHBORHOOD WLFL7 TBD	Cedar			WLR WLR	\$0 \$0	\$0	\$0 \$0	\$900,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$900,000 \$0	\$900,000 \$0	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. TBD
WLFL7 LOWER CEDAR FEASIBILITY STUDY				WLR	\$0	\$0	\$0	\$200,000	\$200,000	\$100,000	\$0	\$0	\$0	\$500,000	\$500,000	Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantity economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis.
WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar			WLR	\$0	\$36,000	\$36,000	\$3,057,792	\$1,738,873	\$4,569,548	\$1,544,801	\$40,575	\$0	\$10,951,589	\$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
WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar			WLR	\$0	\$440,000	\$440,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$440,000	Capital Investment Strategy. Conduct site specific landside risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and
WLFL7 RIVERBEND MHP ACQ	Cedar	82%	46%	WLR	\$3,496,466	\$5,357,042	\$1,860,576	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,357,042	initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and
WLFL7 SE 162ND AVE AT 266TH CT	Cedar	FCD	FCD	Agreement	\$0	\$150,000	\$150,000	\$250,000	\$400,000	\$700,000	\$0	\$0	\$0	\$1,350,000	\$1,500,000	select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
6 WLFL7 SR 169 FEASIBILITY STUDY 7 Cedar-Sammamish Subtotal	Cedar	FCD	FCD	WLR	\$0 \$25,433,098	\$260,000 \$42,429,945	\$260,000 \$16,996,847	\$61,800 \$13,098,687	\$0 \$12,471,379	\$0 \$13,360,453	\$0 \$3,789,266	\$0 \$1,822,991	\$0 \$2,064,189	\$61,800 \$46,606,965	\$321,800 \$89,036,910	Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating St 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates.
8 9 0 WLFL8 BRISCOE LEVEE SETBACK	Green	82%	36%	Agreement	\$21,361,073	\$23,330,271	\$1,969,198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,330,271	Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will
																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
1 WLFL8 BRPS BLACK R PUMP STATION 2 WLFL8 BRPS CONTROL BLDG RPLCMT	Green	100%	72%	WLR	\$5,134,042	\$5,374,203	\$240,161 \$50,000	(\$229,161)	\$0 \$1,554,622	\$0 \$7,577,624	\$0 \$25,887	\$0	\$0	(\$229,161) \$9,638,501	\$5,145,042 \$9,688,501	account for discrete project elements. This project will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray
WLFL8 BRPS FISH PASS IMPRVMNTS	Green	100%	72%	WLR WLR	\$0 \$0	\$50,000 \$0	\$50,000	\$480,368 \$0	\$1,554,622	\$7,577,624	\$831,751	\$2,241,456	\$6,316,655	\$9,389,862	\$9,889,862	system. This project will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage systems.
WLFL8 BRPS HIGH-USE ENGINES	Green	100%	72%	WLR	\$0	\$252,900	\$252,900	\$221,179	\$1,414,074	\$25,133	\$0	\$0	\$0	\$1,660,386	\$1,913,286	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.
WLFL8 BRPS SUPPORT SYS UPGRADES	Green Green	100%	72% N/A	WLR Agreement	\$0 \$1.634.698	\$0 \$2.563.620	\$0 \$928.922	\$0 (\$923.922)	\$175,261 \$0	\$822,168 \$0	\$779,584 \$0	\$26,663 \$0	\$0 \$0	\$1,803,676 (\$923,922)	\$1,803,676 \$1,639,698	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, ollers and hoists. Costs-thare flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016.
WLFL8 DYKSTRA USACE 2015	Green	100%	N/A	Agreement	\$638,356	\$692,856	\$54,500	\$6,695	\$0	\$0	\$0	\$0	\$0	\$6,695	\$699,551	Cost-share flood damage repair from March 2014 high flows with Corps of Engineers. Construction in 2016. This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by
WLFL8 GREEN R PL84-99 MITIGATN	Green	89%	72%	WLR	\$3,668,478	\$4,043,988	\$375,510	\$1,616,554	\$52,000	\$25,000	\$25,000	\$0	\$0	\$1,718,554	\$5,762,542	permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program. New project to implement interim SWIF adopted by Board of Supervisors. This project will reconstruct the Horseshoe
																Bend Levee at the Breda reach (RM 24.46-24.72) to a more stable configuration in order to reduce flood risk to the surrounding areas. The project will also raise levee crest elevations to contain the 500-year (0.2% annual chance) flood
WLFL8 HSB BREDA SETBACK	Green	95%	41%	WLR	\$0	\$1,755,000	\$1,755,000	\$2,522,674	\$590,285	\$2,427,136	\$982,119	\$0	\$0	\$6,522,214	\$8,277,214	This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee. New project to implement interim SWIF adopted by Board of Supervisors. This PL 84-99 levee segment contains a
00 WLFLS HSB MCCOY REALIGNMENT	Green	FCD	FCD	WLR	\$0	\$400,000	\$400,000	\$0	\$0	\$0	\$0_	\$0	\$0	\$0	\$400,000	Minimally acceptable failing by the USACE due to a slope deficiency at RIM 24.3 (oversteepened slopes from 1.3 to 1.71+11 for 500 teeq.) The City of Kent constructed a secondary containment 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 Pugel Sound Energy facility. The froseshoe Bend Levee Certification Report activation Factor of Safety (FOS) values for rapid drawdown of 1.08 and 1.55 at about RIM 24.3 and RIM 24.4, respectively. River bed scour in this reach betwee 1986 and 2011 is 2.7 teet at RIM 24.2.4 Funding of \$400,000 covers the cost of major modification to the federal levees that the City of Kent's secondary containment levee can be incorporated into the federal levee project. New project to implement interim SWIF adopted by Board of Supervisors. The Nursing Home levee is over-steepened are 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 Minimally Acceptable deficiency by the US Army Corpo of Engineers at RIM 25. 5 (over steepened slopes from 1. 25 1 1. 7H-11 for 225 feet). The Horseshoe Bend Levee Certification Report calculated a Factor of Safety (FOS) value for rapid drawdown of 1. to 1 at RIM 25. 5 (Section F). This is barely above the minimum POS (1.0) from the US Army
WLFL8 HSB NURSING HOME SETBACK	Green	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$2,000,000	\$500,000	\$2,600,000	\$2,600,000	Corps of Engineers manual. Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with
02 WLFL8 INTERIM SWIF IMPLEMENTATION 03 WLFL8 LOWER RUSSELL ACQ KENT 04 WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green Green	FCD FCD	FCD	WLR Agreement WLR	\$0 \$0 \$0	\$30,000 \$1,000,000 \$1,743,249	\$30,000 \$1,000,000 \$1,743,249	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$1,000,000	the interim SWIF is included in the operating budget. Acquisitions by the City of Kent for the Lower Russell levee setback project. Lower Green River Corridor Planning and Environmental Impact Statement.
	Green							30	30	\$0	30	30	30			Remove and replace the existing flood containment system of levee and reverments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kentr to provide lor term flood protection and improve riparian and aqualic habitat. Increased expenditure authority to match interim SWIF
MLFL8 LWR RUSSELL LEVEE SETBACK	Green	76%	56%	WLR	\$6,041,888	\$12,077,130	\$6,035,242	\$2,478,808	\$13,910,520	\$18,357,812	\$63,028	\$0	\$0	\$34,810,168	\$46,887,298	adopted by Board of Supervisors. Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enal levee certification and secure necessary land rights. Current ILA with Kent for this first phase is \$3.65 million, the ILA
06 WLFL8 MILWAUKEE LEVEE #2-KENT	Green	FCD	FCD	Agreement	\$10,768	\$8,500,000	\$8,489,232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,500,000	review of unification and secure necessary and inspires content DX with Renard units instrumes a \$3.50 million, une IZA assumes that the total project cost is \$8.5 million. The river is scouring the road away and David Powell Road is collapsing into the river. This project will repair an existing
07 WLFL8 PATTON BRIDGE 3015	Green	FCD	FCD	Agreement	\$0	\$150,000	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	failing reverment and extend MSE wall to prevent undercutting of the fiverbank and roadway. Contribute the cost of a repair (\$720,000) to a \$7 million levee setback project. By relocating the levee, future repair cosfor the Flood Control District are reduced. In response to community concerns, the project also includes funding to
WLFL8 PORTER LEVEE D9 WLFL8 REDDINGTON REACH SETBACK	Green Green	39% 68%	41% 62%	WLR WLR	\$0 \$16,564,851	\$720,000 \$16,889,083	\$720,000 \$324,232	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$720,000 \$16,889,083	elevate the road so that the school bus serving this neighborhood does not have to drive in the oncoming lane to avoid floodwaters. Project expenditures will continue into 2017; closeout anticipated in 2018.
WILE O DIROCK I DD HODED KEY	0							-		-	-	-	-	-		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
WLFL8 RUSSELL RD UPPER KENT WLFL8 S 180TH ST BRIDGE FLOODWALL EXT	Green	92% FCD	72% FCD	Agreement	\$6,020,673 \$0	\$6,072,173 \$65,378	\$51,500 \$65,378	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$6,072,173 \$65,378	therefore lack adequate structural stability to provide adequate safety. The project will increase the height of a flood wall to provide approximately 30" of additional flood protection.
12 WLFL8 S 277TH ST REVETMENT	Green	FCD	FCD	WLR	\$90,528	\$300,000	\$209,472	\$1,726,802	\$44,558	\$0	\$0	\$0	\$0	\$1,771,360	\$2,071,360	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.
WLFL8 SE 380 PL AT SR 164 WLFL8 SE 384 ST @ 176 AVE SE	Green	FCD	FCD	Agreement	\$0 \$0	\$0 \$0	\$0 \$0	\$90,000	\$100,000	\$400,000	\$100,000	\$0 \$150,000	\$0 \$0	\$690,000 \$150,000		This project will analyze culvert replacement and road-naising options and implement the preferred option. These two bridges are subject to sharing 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 Not. 1308.
15 WLFL8 SIGNATURE POINTE REVETMENT	Green	FCD	FCD	WLR	\$0	\$300,000	\$300,000	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000		Signature Points is a revertment/lese on the Green River between river mile 22.05 and 23.18 that does not meet the FEMA requirements for accreditation due to inadequate freeboard. This project includes development of a project or 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.
16 WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$300,000	\$1,800,000	\$1,800,000	New project to implement interim SWIF adopted by Board of Supervisors. This project will construct a 0.15 mile floodwa and sloped embankment to protect adjacent businesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary preal estate) with be finalized during the project design phase.

						2017										
			Implement	Type of	2016 Inception to Date	Revised Inception to	2017 Available	2018	2019	2020	2021	2022	2023	6-Year CIP	Project Life	
Title	Basin	Flood Risk %	%	project	Expenditure	Date Budget	Budget	Requested	Projected	Projected	Projected	Projected	Projected	Total	Total	Comments
									,		•		-			New project to implement interim SWIF adopted by Board of Supervisors. The Gaco portion of the Tukwilla-205 to between fiver mile 1.575 and 1.58 is over-steepened and damaged and cannot be adoquately repaired using the easements. This project would acquire properties landward of the damaged leves to enable a leves estback and re the embankment and toe secour at this outside benuf, in coordination with the Army Corps of Engineers PL 84-99
WLFL8 TUK-205 SEGALE FLOODWALL	Green	FCD	FCD	WLR	\$0	\$0	\$0	\$0	\$0	\$601,000	\$562,754	\$3,188,003	\$3,283,643	\$7,635,400	\$7,635,400	rehabilitation program.
WLFL8 TUK-205 USACE GACO REPAIR	Green	R	N/A	WLR	\$44,246	\$9,064,053	\$9,019,807	\$3,796,580	\$15,913	\$0	\$0	\$0	\$0	\$3,812,493	\$12,876,546	600 feet of scour has exposed rock armor. No sign of armor loss. Interim SWIF capital project is for 0.33 miles o floodwall and toe/scour protection. Increased vulnerability to further scour and damage to facility.
WLFL8 USACE SWIF	Green	FCD	FCD	WLR	\$2,209,817	\$2,209,817	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,209,017	Green River Corridor Planning (under System-Wide Improvement Framework agreement with Army Corps of En
Green-Duwamish Subtotal					\$63,419,418	\$97,583,721	\$34,164,303	\$11,786,577	\$17,857,233	\$30,235,873	\$3,470,123	\$9,106,122	\$10,400,298	\$82,856,226	\$180,439,947	
WLFL9 BUTTE AVE FLOOD MITIGATION	White	FCD	FCD	Agreement	\$0	\$470,000	\$470,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$470,000	This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressin backwatering and drainage problems in Government Canal from high fiver flows. The project will destign and per stormwater pump station which will significantly reduce floor disks to approximately five hundred homes and The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
WLFL9 COUNTYLINE TO A STREET	White	87%	74%	WLR	\$12.662.360	\$24.004.419	\$11.342.059	\$n	\$0	\$0	\$0	\$0	\$n	\$0	\$24 004 419	Reduces flood elevations that impact residential neighborhoods in the City of Pacific (200 homes, with \$52 million assessed and \$13 million content value), improves sediment storage and enhances habitat.
WLFL9 RED CREEK ACQUISITIONS	White	71%	41%	Acqu/Elev	\$12,002,300	\$0	\$11,542,059	\$0	\$0	\$0	\$0	\$0	\$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.
WLFL9 RIGHT BANK LEVEE SETBACK	White	79%	64%	WLR	\$10,578,055	\$12,151,199	\$1.573.144	\$1.079.358	\$1.989.187		\$5.797.495	\$69.556	\$0	\$16,823,445		Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endp Butte Ave. by White River Estates neighborhood.
WLFL9 WHITE - GREENWATER ACQ	White	66%	44%	Acqu/Elev	\$10,570,055	\$12,131,139	\$1,575,144	\$0	\$1,303,107	\$0	\$0,737,430	\$0	\$100,000		\$100,000	This project would acquire flood prone residence along the White River near the Greenwater River.
White Subtotal					\$23,240,415	\$36,625,618	\$13,385,203	\$1,079,358	\$1,989,187	\$7,887,849	\$5,797,495	\$69,556	\$200,000	\$17,023,445	\$53,649,063	
WLFLS SOUTH PARK PUMPSTATION	Seattle	79%	64%	Agreement	\$1,786,219	\$6,001,331	\$4,215,112	(\$4,215,112)	\$0	\$4,718,781	\$0	\$0	\$0	\$503,669	\$6,505,000	Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated bas current project schedule.
WLFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	FCD	FCD	Agreement	\$720	\$1,000,000	\$999,280	\$0	\$1,550,000	\$1,455,000	\$0	\$0	\$0	\$3,005,000	\$4,005,000	The South Park Drainage Conveyance Improvements Project will install a formal conveyance system in the stre get flows to the pump station. The conveyance improvements will work in conjunction with the Pump Station.
Seattle Subtotal					\$1,786,939	\$7,001,331	\$5,214,392	(\$4,215,112)	\$1,550,000	\$6,173,781	\$0	\$0	\$0	\$3,508,669	\$10,510,000	
WLFLX CORRIDOR PLN DESIGN/CONST																
PLACEHOLDER	Countywide	N/A	N/A	WLR	\$0	\$142,610	\$142,610	\$0	\$0	\$0	\$0	\$0	\$27,000,000	\$27,000,000	\$27,142,610	Placeholder for corridor plan implementation project(s)
Countywide Corridor Plan Imp Subtotal					\$0	\$142,610	\$142,610	\$0	\$0	\$0	\$0	\$0	\$27,000,000	\$27,000,000	\$27,142,610	
		500	FOR													
WLFLG FLOOD REDUCTION GRANTS	Countywide	FCD	FCD	Grant	\$2,585,919	\$11,600,690	\$9,014,771	\$3,083,749	\$3,161,191	\$3,235,317	\$3,309,131	\$3,383,823	\$3,458,923	\$19,632,134	\$31,232,824	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue. Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase b
WLFLG WRIA GRANTS	Countywide	FCD	FCD	Grant	\$11,348,474	\$23,099,255	\$11,750,781	\$4,390,296	\$4,520,525	\$4,654,618	\$4,792,688	\$4,934,853	\$5,081,236	\$28,374,215		assumed inflation rate.
WLFLM EFFECTIVENESS MONITORING	Countywide	N/A	N/A	WLR	\$1,616,734	\$2,218,519	\$601,785	\$1,076,734	\$702,778	\$830,323	\$813,940	\$767,476	\$510,698	\$4,701,949	\$6,920,468	Evaluation of capital projects to determine effectiveness and identify project design improvements. Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increas
WLFLO SUBREGNL OPPRTNTY FUND	Countywide	FCD	FCD	Grant	\$27,038,460	\$43,683,268	\$16,644,808	\$5,735,774	\$5,879,816	\$6,017,689	\$6,154,984	\$6,293,910	\$6,433,597	\$36,515,770	\$80,199,038	proportion of total FCD tax revenue.
WLFLX CENTRAL CHARGES WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	N/A N/A	N/A N/A	WLR WLR	\$652,217 \$300.001	\$781,493 \$800.917	\$129,276 \$500,916	\$130,000 \$0	\$132,600 \$250,000	\$135,252 \$250,000	\$137,957 \$250,000	\$140,716 \$250,000	\$143,531 \$250,000	\$820,056 \$1,250,000	\$1,601,549 \$2,050,917	Central charges related to the FCD's capital fund.
Countywide Subtotal	Countywide	N/A	N/A	WLK	\$43,541,805		\$500,916				\$250,000	\$250,000 \$15,770,778	\$250,000 \$15,877,984			Contingency for emergency response actions during a flood event.
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Grand Total					\$210,115,080	\$349,990,384	\$139,875,305	\$44,639,244	\$62,436,744	\$82,379,960	\$39,186,257	\$33,705,882	\$57,019,094	\$319,367,181	\$669,357,565	