

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                   | 1044461 | 74%          | 46%         | 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 severely 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   | <a href="#">WLFL0 TIMBER LN EROSN BUYOUTS</a>   | 1044460 | 76%          | 46%         | 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 428TH 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  | <a href="#">WLFL1 CIRCLE RVR RANCH RISK RED</a> | 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 | 76%          | 51%         | WLR             | \$1,100,000                   | \$954                              | \$0          | \$1,099,046    |                           | \$1,099,046  | \$508,830      | \$391,776      | \$1,244,138                         | \$3,325,350    | \$0            | \$6,569,140      | \$6,570,094        | Placeholder for corridor plan implementation project(s)  |
| 13  | <a href="#">WLFL1 MF SNO CORRIDOR PLAN</a>      | 1044469 | 76%          | 33%         | WLR             | \$1,824,912                   | \$1,310,605                        | \$0          | \$514,307      |                           | \$514,307    | \$0            | \$0            | \$0                                 | \$0            | \$0            | \$514,307        | \$1,824,912        | Middle Fork Snoqualmie Corridor Planning, scheduled for completion in 2016.  |
| 14  | WLFL1 N BEND RESID FLD MITGTN                   | 1044465 | 76%          | 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 extremely 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%          | 49%         | WLR             | \$3,562,744                   | \$1,373,089                        | \$2,000,000  | \$2,189,655    |                           | \$4,189,655  | \$2,433,511    | \$8,098,380    | \$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  | <a href="#">WLFL1 SF SNO CORRIDOR PLAN</a>      | 1044466 | 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%          | 26%         | 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              | 1126590 | 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  | <a href="#">WLFL1 UPR SNO RES FLD MITGTN</a>    | 1044517 | 89%          | 54%         | Acqu/Elev       | \$11,232,391                  | \$9,163,547                        | \$738,893    | \$2,068,844    |                           | \$2,807,737  | \$2,010,126    | \$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  | <a href="#">WLFL2 FARM FLOOD TSK FORCE IMP</a>  | 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                   | 1044580 | 74%          | 21%         | Acqu/Elev       | \$1,712,699                   | \$1,269,231                        | \$0          | \$443,468      |                           | \$443,468    | \$222,862      | \$0            | \$0                                 | \$0            | \$0            | \$666,330        | \$1,935,561        | Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.  |
| 28  | WLFL2 L SNO/ALDAIR CORRDROR PLN                 | 1044576 | 84%          | 97%         | WLR             | \$6,800,543                   | \$5,644,814                        | \$452,218    | \$1,155,729    |                           | \$1,607,947  | \$742,630      | \$764,909      | \$675,305                           | \$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  | <a href="#">WLFL2 LWR SNO RESDL FLD MITGTN</a>  | 1044582 | FCD          | FCD         | Acqu/Elev       | \$2,630,971                   | \$1,927,117                        | \$675,305    | \$703,854      |                           | \$1,379,159  | \$716,431      | \$760,062      | \$775,263                           | \$790,769      | \$806,584      | \$5,228,268      | \$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                     | 1122633 | FCD          | FCD         | WLR             | \$623,588                     | \$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                   | \$149,535                          | \$36,456     | \$850,465      |                           | \$886,921    | \$0            | \$0            | \$0                                 | \$0            | \$0            | \$886,921        | \$1,036,456        | 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 losing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.  |
| 37  | <a href="#">WLFL2 SINNEMA QUALE 2011 REPR</a>   | 1112046 | 100%         | N/A         | WLR             | \$10,204,102                  | \$11,974,543                       | \$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 Quaaale 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  | <a href="#">WLFL2 TOLT PIPELINE PROTECTION</a>  | 1044579 | 84%          | 49%         | WLR             | \$2,630,997                   | \$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 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood.   |
| 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                     | \$529,475                          | \$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  | <a href="#">WLFL3 SAN SOUCI NBRHOOD BUYOUT</a>  | 1044645 | 82%          | 79%         | Acqu/Elev       | \$4,949,206                   | \$4,127,691                        | \$604,147    | \$821,515      |                           | \$1,425,662  | \$0            | \$0            | \$0            | \$0            | \$0            | \$1,425,662      | \$5,553,353        | 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                   | 1126593 | 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%          | 82%         | 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  | <a href="#">WLFL3 TOLT CORRIDOR PLAN</a>        | 1044644 | 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              | 1131559 |              |             | 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                   | 1112058 | 84%          | 79%         | Acqu/Elev       | \$5,699,606                   | \$4,097,106                        | (\$215,246)  | \$1,602,500    |                           | \$1,387,254  | \$318,270      | \$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           | 1126597 | 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                     | 1130553 | 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                        | (\$93,760)   | \$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  | <b>Snoqualmie-South Fork Skykomish Subtotal</b> |         |              |             |                 | \$71,924,656                  | \$54,248,682                       | \$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     | \$146,816,990      |  |
| 55  |   |         |              |             |                 |                               |                                    |              |                |                           |              |                |                |                |                |                |                  |                    |  |
| 56  |   |         |              |             |                 |                               |                                    |              |                |                           |              |                |                |                |                |                |                  |                    |  |
| 57  | WLFL5 SAMMAMISH R BANK REPAIRS                  | 1124988 | Repair       | N/A         | WLR             | \$400,000                     | \$106,050                          | \$19,895     | \$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 2016 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-raining options; prepare Concept Development Report, analyze and select best options.   |
| 59  | <a href="#">WLFL5 WILLOWMOOR FLDPLAIN REST</a>  | 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  | <a href="#">WLFL6 LOWER COAL CRK PH I</a>       | 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  | <a href="#">WLFL6 MCALEER/LYON CHAN IMPRVM</a>  | 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                        | \$1,499,718  | \$297,966      |                           | \$1,797,684  | \$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                                    | 1131687 |              |             | 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    | \$78,786       | \$81,149       | \$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                                  | 1131689 |              |             | 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 30 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                             | 1131690 |              |             | 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  | <a href="#">WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor Plan)</a> | 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  | <a href="#">WLFL7 CEDAR RVR GRAVEL REMOVAL</a>                       | 1044729 | 89%          | 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  | <a href="#">WLFL7 ELLIOTT BR LEVEE SETBACK</a>                       | 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 162ND 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  | <a href="#">WLFL7 RAINBOW BEND LEVEE STBCK</a>                       | 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 ROW vacation costs.  |
| 80  | <a href="#">WLFL7 RIVERBEND MHP ACQ</a>                              | 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   |         |              |             |                 | \$39,741,408                  | \$30,493,938                       | \$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     | \$93,012,644       |  |
| 82  |  |         |              |             |                 |                               |                                    |               |                |                           |              |                |                |                |                |                |                  |                    |  |
| 83  |  |         |              |             |                 |                               |                                    |               |                |                           |              |                |                |                |                |                |                  |                    |  |
| 84  | <a href="#">WLFL8 BRISCOE LEVEE SETBACK</a>                          | 1116515 | 82%          | 36%         | 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                                      | 1116360 | 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                                       | 1129569 | 100%         | 72%         | WLR             | \$0                           | \$0                                | \$50,000      | \$0            |                           | \$50,000     | \$1,672,200    | \$6,982,700    | \$0            | \$0            | \$0            | \$8,704,900      | \$8,704,900        | New project line; previously combined as part of Line 85   |
| 87  | WLFL8 BRPS FISH PASS IMPRVMENTS                                      | 1130020 | 100%         | 72%         | WLR             | \$0                           | \$0                                | \$0           | \$0            |                           | \$0          | \$0            | \$10,000       | \$25,000       | \$692,000      | \$1,863,500    | \$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                                | \$252,900     | \$0            |                           | \$252,900    | \$1,292,500    | \$0            | \$0            | \$0            | \$0            | \$1,545,400      | \$1,545,400        | 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 losing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.  |
| 93  | <a href="#">WLFL8 DESIMONE USACE 2015</a>                            | 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  | <a href="#">WLFL8 DYKSTRA USACE 2015</a>                             | 1126059 | 100%         | N/A         | Agreement       | \$1,685,097                   | \$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  | <a href="#">WLFL8 GREEN R PL84-99 MITIGATN</a>                       | 1044882 | 89%          | 72%         | WLR             | \$4,062,558                   | \$3,668,478                        | \$981,430     | \$394,080      | (\$1,000,000)             | \$375,510    | \$500,000      | \$0            | \$0            | \$0            | \$0            | \$875,510        | \$4,543,988        | 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 | <a href="#">WLFL8 LWR RUSSELL LEVEE SETBACK</a>                      | 1112056 | 76%          | 56%         | WLR             | \$7,020,860                   | \$6,041,888                        | \$5,056,270   | \$978,972      |                           | \$6,035,242  | \$6,833,935    | \$22,126,512   | \$4,644,089    | \$0            | \$0            | \$39,639,778     | \$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 19.25 (S 231st Way) in the City of Kentr 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 | 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   |
|-----|--|---------|--------------|-------------|-----------------|-------------------------------|------------------------------------|--------------|----------------|---------------------------|---------------|----------------|----------------|----------------|----------------|----------------|------------------|--------------------|--|
| 102 | WLFL8 MILWAUKEE LEVEE #2-KENT                  | 1126595 | 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 | <a href="#">WLFL8 PORTER LEVEE</a>             | 1124992 | 39%          | 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 | <a href="#">WLFL8 REDDINGTON REACH SETBACK</a> | 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               | 1130562 | 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                | 1129367 | R            | N/A         | WLR             | \$50,000                      | \$44,246                           | \$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            | \$0            | \$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 | <a href="#">WLFL8 USACE SWIF</a>               | 1116363 | FCD          | FCD         | WLR             | \$2,287,724                   | \$2,209,817                        | (\$81,887)   | \$77,907       | \$3,980                   | \$0           | \$0            | \$0            | \$0            | \$0            | \$0            | \$0              | \$2,209,817        | Green River Corridor Planning (under System-Wide Improvement Framework agreement with Army Corps of Engineers)   |
| 113 | WLFL8 LWR GRN R CORRIDOR PLAN/EIS              | 1130118 | 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-Duamish Subtotal                         |         |              |             |                 | \$82,664,799                  | \$63,527,418                       | \$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    | \$163,547,456      |  |
| 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            | \$470,000        | \$470,000          | This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algonia 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 | <a href="#">WLFL9 COUNTYLINE TO A STREET</a>   | 1112049 | 87%          | 74%         | WLR             | \$15,569,196                  | \$12,662,360                       | \$5,212,688  | \$2,906,836    | \$3,222,535               | \$11,342,059  | \$0            | \$0            | \$0            | \$0            | \$0            | \$11,342,059     | \$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 | <a href="#">WLFL9 RIGHT BANK LEVEE SETBACK</a> | 1112038 | 79%          | 64%         | WLR             | \$11,381,414                  | \$10,578,055                       | \$769,785    | \$803,359      |                           | \$1,573,144   | \$1,536,321    | \$6,722,036    | \$6,571,371    | \$115,927      | \$0            | \$16,518,799     | \$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                   | 1122630 | 66%          | 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    | \$6,571,371    | \$115,927      | \$200,000      | \$28,530,858     | \$51,771,273       |  |
| 123 |  |         |              |             |                 |                               |                                    |              |                |                           |               |                |                |                |                |                |                  |                    |  |
| 124 |  |         |              |             |                 |                               |                                    |              |                |                           |               |                |                |                |                |                |                  |                    |  |
| 125 | <a href="#">WLFLS SOUTH PARK PUMPSTATION</a>   | 1112036 | 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    | \$27,738,359     | \$27,738,359       | 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    | \$27,738,359     | \$27,738,359       |  |
| 132 |  |         |              |             |                 |                               |                                    |              |                |                           |               |                |                |                |                |                |                  |                    |  |
| 133 |  |         |              |             |                 |                               |                                    |              |                |                           |               |                |                |                |                |                |                  |                    |  |
| 134 | <a href="#">WLFLG FLOOD REDUCTION GRANTS</a>   | 1122628 | FCD          | FCD         | Grant           | \$8,541,782                   | \$2,585,919                        | \$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     | \$27,967,446       | Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.  |
| 135 | <a href="#">WLFLM EFFECTIVENESS MONITORING</a> | 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 | <a href="#">WLFL0 SUBREGNL OPPRTNTY FUND</a>   | 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    | \$6,221,932    | \$6,362,319    | \$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           | \$18,708,959                  | \$11,348,474                       | \$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     | \$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                  | \$43,541,805                       | \$13,275,728 | \$25,166,609   | \$200,000                 | \$38,642,337  | \$14,679,298   | \$14,422,560   | \$14,965,405   | \$14,997,464   | \$15,764,576   | \$113,471,639    | \$157,013,445      |  |
| 141 |  |         |              |             |                 |                               |                                    |              |                |                           |               |                |                |                |                |                |                  |                    |  |
| 142 | Grand Total                                    |         |              |             |                 | \$293,698,072                 | \$216,839,197                      | \$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    | \$650,410,741      |  |