



**KING COUNTY**

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

**Signature Report**

**FCD Resolution FCD2022-13**

**Proposed No.** FCD2022-13.3

**Sponsors**

1                   A RESOLUTION relating to the operation and finances of  
2                   the King County Flood Control Zone District, adopting the  
3                   2023 budget and authorizing improvements.

4                   WHEREAS, pursuant to RCW 86.15.140, the King County Flood Control Zone  
5                   District ("the District") held a public hearing on the proposed 2023 budget of the District  
6                   on November 8, 2022, and

7                   WHEREAS, the board of supervisors ("the Board") desires to adopt the King  
8                   County Flood Control Zone District's 2023 budget, and

9                   WHEREAS, by Ordinance 15728, the King County council adopted the District's  
10                  initial comprehensive plan of development for flood and stormwater control, which is  
11                  titled "2006 King County Flood Hazard Management Plan," and by Resolution  
12                  FCD2011-05.1, the District Board amended the initial plan to include a project in the city  
13                  of Seattle (collectively, "the District Comprehensive Plan"), and

14                  WHEREAS, pursuant to RCW 86.15.110, the Board must approve by resolution  
15                  all flood control and storm water control improvements, prior to the extension,  
16                  enlargement, acquisition or construction of such improvements, and

17                  WHEREAS, RCW 85.15.110, further provides that such approval resolution must  
18                  state whether the improvements are to be extended, enlarged, acquired or constructed;  
19                  state that the comprehensive plan has been adopted; state that the improvements generally  
20                  contribute to the objectives of the comprehensive plan; state that the improvements will

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21 benefit the county as a whole; state the estimated costs of the improvements; and identify  
22 the data supporting the estimated costs, and

23 WHEREAS, the Board desires to approve improvements in the District's 2023  
24 budget that are not in the District Comprehensive Plan, or that have been modified by the  
25 District's 2023 budget, in accordance with RCW 85.15.110;

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

28 SECTION 1. The Board hereby adopts the 2023 Budget for the District, as set  
29 forth in Attachments A ("Work Program"), B ("2023 Annual Budget"), C ("2023 Annual  
30 Operating Budget"), D ("2023 Annual Capital Budget"), E ("2023 - 2028 Six-Year CIP"),  
31 F ("2023 Annual District Oversight Budget"), G ("2023 Subregional Opportunity Fund  
32 Allocations"), and H ("2023-2028 Six-Year CIP Project Allocations") to this resolution;  
33 provided that King County, or other jurisdictions contracted to implement projects, shall  
34 submit predesign reports for capital projects to the District executive director, and shall  
35 seek approval from the executive director of project charters. Furthermore, King County  
36 and other service providers as appropriate shall provide to the District executive director  
37 thirty percent design project reports for authorization to proceed with sixty percent  
38 design, sixty percent design project reports for authorization to proceed to ninety percent  
39 design, and ninety percent design project reports for authorization to proceed to one  
40 hundred percent design.

41 SECTION 2. The Board approves the extension, enlargement, acquisition, or  
42 construction, as applicable, of the improvements that are included in the District  
43 Comprehensive Plan, that are included in the District Comprehensive Plan but have been

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44 modified by Attachments C, D, and H to this resolution, or that are not included in the  
45 District Comprehensive Plan but are identified in Attachments C, D, and H to this  
46 resolution (collectively, "the improvements"). The District Comprehensive Plan includes  
47 the streams or water courses upon which the improvements will be enlarged, extended,  
48 acquired, or constructed. The Board determines that the improvements generally  
49 contribute to the objectives of the District Comprehensive Plan and will be of benefit to  
50 the county as a whole.

51 SECTION 3. The estimated costs of the improvements are stated in Attachments  
52 C, D, and H to this resolution and the supporting data for the estimated costs are on file  
53 with the director of the King County water and land resources division.

54 SECTION 4. For the improvements that will be constructed, preliminary  
55 engineering studies and plans either have been prepared or will be prepared, and have  
56 been filed or will be filed, with the director of the King County water and land resources  
57 division.

58 SECTION 5. The Board directs District executive director, District legal counsel,  
59 and King County to work collaboratively to develop template grant contracts for the  
60 contracts King County enters into as part of the administration of District grant programs.  
61 The template grant contracts shall be submitted to the District for approval by March 31,  
62 2023.

63 SECTION 6. The Board reiterates its commitment to the principles of integrated  
64 floodplain management as stated in FCD20-07 and the District will continue reevaluating  
65 and reprioritizing Board approved Capital Investment Strategies as necessary to prioritize  
66 multibenefit projects to encourage an integrated floodplain management approach and

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67 focus on equity and social justice and environmental justice. This reevaluation and  
68 reprioritization will continue with the Capital Investment Strategies in the Snoqualmie  
69 Basin (Middle and South Fork Snoqualmie River and Tolt River Capital Investment  
70 Strategies). Additionally, this reprioritization will seek to find alignment with other plans  
71 such as the Snoqualmie Resilient River Corridor Management Plan and the 2017  
72 recommendations of the King County Snoqualmie Fish, Farm, and Flood Advisory  
73 Committee. King County water and land resources division shall provide a proposed  
74 timeline for this reevaluation and reprioritization effort by May 31, 2023.

75 SECTION 7. The Board directs District executive director to work with King  
76 County water and land resources division to provide a quarterly report on the progress of  
77 the Sammamish River Capital Investment Strategy to interested stakeholders.

78 SECTION 8. The Board directs King County water and land resources division to  
79 provide a report on the King County Home Elevation Program. The report will include  
80 (1) existing need based on the number of property owners that have contacted the county  
81 to execute a Phase 1 contract to elevate their home including the number of property  
82 owners that are placed on a waitlist because of program capacity issues; (2) innovative  
83 ways or changes to the program that will decrease the time a property is on the waitlist;  
84 (3) propose an acceptable time a property stays on the waitlist; (4) identify resources  
85 necessary to address the identified need in order of priority. This report shall be  
86 transmitted to the District by March 31, 2023.

87 SECTION 9. The Board directs the District executive director and King County  
88 water and land resources division to provide regular updates to and seek the advice of the

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89 members of the District Advisory Committee related to the update of the 2006 King  
90 County Flood Hazard Management Plan.

91        SECTION 10. The Board directs the District executive director to provide  
92 members of the District Advisory Committee regular reports on capital and financial  
93 projections, including additional information on the "right-sizing" process for expenditure  
94 projections for all District service providers.

95        SECTION 11. The Board creates a Two Million Dollar "Countywide Strategic  
96 Acquisitions" capital project. Properties acquired with funds from this capital project  
97 shall be properties whose purchase will achieve a flood risk reduction benefit and align  
98 with the integrated floodplain management principles and multibenefits identified in  
99 District Motion FCD20-07. Additionally, properties acquired under this capital project  
100 shall not be associated with an adopted Capital Investment Strategy or another existing  
101 capital projects. The Board directs the District executive director and King County water  
102 and land resources division to follow the established acquisition approval process when  
103 acquiring properties as a part of this newly established capital project.

104        SECTION 12. The Board directs King County water and land resources division  
105 to provide a monthly report to the District executive director of the status of acquisitions  
106 of property necessary to implement capital projects identified in Attachment H to this  
107 resolution.

108        SECTION 13. The Board directs the Executive Director to provide a monthly  
109 report to the District Executive Committee on the status of acquisitions of property  
110 necessary to implement capital projects identified in Attachment H to this resolution.

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111            SECTION 14. The Board directs King County water and land resources division  
112 to develop a workplan to begin implementing the recommended actions in the April 2022  
113 Upper May Valley Drainage Study in 2023. The workplan shall be transmitted to the  
114 District by February 28, 2023.

115            SECTION 15. The Board reiterates its commitment to fund the portion of the  
116 boat used by the King County sheriff's office for District purposes and directs the King  
117 County sheriff's office to make the boat available for District purposes.

118            SECTION 16. The Board directs King County water and land resources division  
119 to provide a report to the District on the best practices for asset management for all  
120 facilities monitored and maintained by King County as service provider to the District.

121            SECTION 17. The Board directs King County water and land resources division  
122 to provide a monthly report to the District executive director on the status of inspections  
123 of all facilities monitored and maintained by King County as a service provider to the  
124 District.

125            SECTION 18. The Board reiterates its commitment to educating residents of  
126 King County about the dangers of dam failure and directs the District executive director  
127 to continue to work with the King County office of emergency management on a dam  
128 education and outreach program. The Board directs King County office of emergency  
129 management to convert one temporary term limited position to a full time equivalent  
130 position to support the District project delivery goals.

131            SECTION 19. The Board directs King County water and land resources division  
132 to convert three temporary term limited positions to full time equivalent positions to  
133 support District project delivery goals.

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134            SECTION 20. The Board directs King County water and land resources division  
135 to provide a monthly report to the executive director on the status of recruitment and  
136 hiring of all vacant positions funded by the District.

137            SECTION 21. The Board directs the District executive director and King County  
138 water and land resources division to work collaboratively to evaluate options to ensure  
139 King County has the organizational capacity and structure to provide efficient and  
140 effective implementation of the District's work program.

141            SECTION 22. The Board directs King County water and land resources division  
142 to provide a quarterly report to the District executive director on the status of progress on  
143 items in the Work Program as set forth in Attachment A to this resolution.

144            SECTION 23. Section 3.6 of the interlocal agreement between the District and  
145 King County provides that King County shall notify the District executive director in  
146 writing if the county needs to modify or reprioritize capital projects. King County's  
147 notifications to the District executive director should include information regarding  
148 variations within project budgets of more than twenty percent in the "acquisition,"

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- 149 "design," "construction," "contingency" and "total" expenditure categories, shown on  
150 Attachment D to this resolution.

FCD Resolution FCD2022-13 was introduced on and passed as amended by the King County Flood Control District on 11/8/2022, by the following vote:


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

KING COUNTY FLOOD CONTROL DISTRICT  
KING COUNTY, WASHINGTON

DocuSigned by:  
  
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Dave Upthegrove, Chair

ATTEST:

DocuSigned by:  
  
C267B914088E4A0...

Melani Pedroza, Clerk of the District

**Attachments:** A. Work Program, 11/4/2022, B. 2023 Annual Budget, 11/5/2022, C. 2023 Annual Operating Budget, 11/4/2022, D. 2023 Annual Capital Budget, 11/5/2022, E. 2023 - 2028 Six-Year CIP, 11/5/2022, F. 2023 Annual District Oversight Budget, 11/4/2022, G. 2023 Opportunity Fund, 11/4/2022, H. 2023 - 2028 Six-Year CIP Project Allocations, 11/5/2022



Attachment A  
2023 Budget Work Program  
11/04/2022

### **King County Flood Control District 2023 Work Program**

The District work program is comprised of three categories: district oversight and policy development, operations, and capital improvements. The Flood Control District contracts with King County for operations and capital improvements.

- District Oversight and Policy Development
  - Policy direction to guide Advisory Committee and King County as service provider
  - Financial planning, budgeting, levy rate, bonding (if any)
  - Administration of contracts
  - Asset management
  - Capital improvement priorities
  - Capital improvement implementation evaluation
  - Public awareness priorities
  - Post flood event review and evaluation
  - Federal and state legislative agenda
  - Legal services, financial management, and Washington State audit
  
- Operations Work Program
  - Annual Maintenance
  - Flood Hazards Plan, Grants, Outreach
  - Flood Hazard Studies, Maps, Technical Services
  - Flood Preparation, Flood Warning Center, Post Flood Recovery
  - Program Management, Supervision, Finance, Budget
  - Program Implementation,
  - District Planning, Outreach, Policy and Technical Services
  
- Capital Improvement Program (CIP)
  - Capital Improvement Projects Acquisitions and Elevations
  - Programmatic capital funding (Subregional Opportunity Fund, Cooperative Watershed Management Grants, Flood Reduction Grants)

#### **2023 Priorities:**

##### Management & Budget

- Seek federal assistance with US Army Corps issues
- Align capital expenditure schedules
- Provide budget issue requests to Advisory Committee
- Staffing study to evaluate options to ensure King County has the organizational capacity and structure to provide efficient and effective implementation of the District's workplan

##### Policy Development

- Develop policy framework for monitoring and maintaining flood protection facilities
- Equity and Social Justice Policy
- Recreation Policy

- Flood Hazard Management Plan

#### Capital Projects

- Align budgeted versus actual expenditures for service providers
- Reports from King County on capital project progress

#### Real Estate

- Update facility inventory and real estate records
- Address property title issues

#### Reports

- Monthly hiring report
- Monthly inventory maintenance/inspection report
- Report on Home Elevation Program

#### Planning and Studies

- Sammamish CIS, including Lake Sammamish and Willowmoor
- Issaquah Creek CIS
- Lower Green River Planning Process
- Flood Hazard Management Plan Update Process
- Levee Breach Study to evaluate and identify gaps in evacuation and shelter in place plans in areas impacted by a levee breach
- Evaluation of climate change scenarios in partnership with the University of Washington
- Small stream flood studies
- Reevaluate and reprioritize adopted CISs

#### Grants

- Monitor Opportunity Fund Project Implementation
- Monitor WRIA/CWM Grant progress and identify leveraging opportunities

#### Communications

- Maintain District website
- Update and redesign Be Flood Ready brochure
- Continue education and outreach related to dam safety
- Review and approve communications plans by service providers for planning processes, advisory committees, large wood, flood awareness, and special initiatives
- Conduct media outreach and response on identified priorities

## **King County ILA Service Provider Work Plan**

### **Resource Management, Annual Maintenance, and Facility Monitoring**

**Program Summary:** Coordinate facility and property maintenance for the District, which includes 500 flood protection facilities covering 119 linear miles and approximately 800 acres of land managed for flood mitigation purposes. Facility inspections and assessments may lead to proposed repairs in the capital program. Inspections and assessments also help to increase the potential for federal funding assistance for future flood damages.

#### **Annual Maintenance Program:**

- Manage work authorizations and coordinate with Department of Transportation (DOT) Road Services Division, Washington Conservation Corps, work crews from the Road Division, Earth Corps, the Department of Juvenile and Adult Detention's Community Work Program, or contractors on completion of maintenance activities:
  - Facility mowing
  - Access gate maintenance
  - Access road maintenance
  - Noxious and non-native plant removal
  - Irrigation and watering
  - Interpretive sign installation and maintenance.
- Coordinate design of facility and acquisition property re-vegetation projects.
- Coordinate design and implementation of volunteer planting and other land stewardship projects.
- Provide land and resource management including management of lands for appropriate levels of public access.
- Inspect, assess and, if necessary, remove hazardous trees.
- Collect and remove garbage from fee-simple owned property.

#### **Flood Protection Facility Assessment and Monitoring Program**

- Develop methods for facility inventory/assessment program.
- Conduct annual, spring and fall, facility assessments.
- Conduct, or assist with, post-flood damage assessments.
- Produce annual report on facility conditions.

#### **Facility Maintenance and Repair Program**

- Conduct or assist with facility assessments, consistent with the facility assessment and monitoring program.
- Coordinate with the U.S. Army Corps of Engineers (Corps) on PL 84-99 levee inspections including vegetation management, permitting, and mitigation (as necessary).
- Support or lead staff on the Green River Pump Station Operation and Maintenance Program.

#### **Sediment Management, Large Woody Debris, In-stream Management Program**

- Coordinate sediment management program/project actions to reduce flood risks.
- Coordinate large woody debris program/project actions to reduce flood risks.
- Monitor other in-stream hazards and coordinate associated flood risk reduction actions.

## **Flood Hazard Plan, Grants, Repetitive Loss Mitigation, and Public Outreach**

**Program Summary:** Manage repetitive loss area mitigation coordination, public outreach, flood hazard management planning, and grant preparation. Repetitive loss mitigation is generally achieved by buying or elevating at-risk homes. While buyouts and elevations are funded via the capital program, the planning, prioritization, and the Federal Emergency Management Agency (FEMA) grant submittals are funded via the operating program. Most operating costs for grant development are reimbursable if the FEMA grant is awarded. Public outreach for specific capital projects is funded through the capital program; basin-wide outreach regarding on-going and planned capital projects is considered an operating expense.

### Repetitive Loss Area Mitigation Planning

#### Program

- Track repetitive loss area and repetitive loss property information.
- Provide ongoing program database updates, including tracking property owner communications, interest, and staff recommendations for mitigation options.
- Manage and administer King County's Home Buyout and Elevation Program consistent with District acquisition policies.

### Public Outreach and Communications Program

- Provide increased citizen preparedness for floods.
- Provide community outreach support for capital projects.
- Conduct annual basin-wide meetings and outreach regarding the full range of floodplain management activities, whether on-going or planned.
- Support media relation activities.
- Coordinate citizen involvement and prepare and facilitate public meetings.
- Coordinate updates to webpage and other outreach and educational materials.
- Coordinate outreach to landowners with facility easements regarding maintenance work.
- Coordinate with the District to implement communications protocols.

### Community Rating System (CRS) and federal Disaster Mitigation Act Coordination

- Manage the CRS program consistent with the newly adopted federal CRS manual, including coordination with other CRS jurisdictions in King County through the CRS Users Group.
- Complete annual CRS recertification documentation.
- Coordinate/manage updates and process to the planning and regulatory processes for future flood plan updates, King County's Regional Hazard Mitigation Plan, King County Comprehensive Plan, Shoreline Master Plan, and Critical Areas Ordinance. This includes coordination with other jurisdictions.

### Grants Program

If resources are available, the following types of grant activities may be included:

- Develop grant applications for FEMA hazard mitigation assistance grants as well as post-flood funding. Develop other grant applications to support capital project implementation.
- Administer the biennial Washington State Department of Ecology Flood Control Assistance Account Program (FCAAP) grant process and track successful grants to ensure timely reporting.
- Coordinate and assist with preparation of applications for all state and federal flood hazard mitigation grant processes.

Provide grant application technical assistance to cities and other stakeholders, as needed. Grant prioritization within WLRD shall be based on the following considerations, in order of significance:

- The impacts to public safety.
- The portion of the project directly related to flood reduction.
- The risks of potential damage to infrastructure, including but not limited to businesses, homes, farms, and roads.
- Efficiency of staffing hours.

In addition to grant alerts to the District, WLRD shall transmit a grant overview report to the District by June 30 of each year including information with a description of grants for which WLRD has applied and how the above priorities were taken into consideration.

### **Flood Hazard Studies, Maps, and Technical Studies**

**Program Summary:** Generate technical information used to characterize, quantify, and delineate flood risks, as well as to develop and implement strategies and actions to reduce those risks. Flood hazard technical information types include hydrologic and hydraulic studies, floodplain and channel migration zone maps, geologic studies, geographic information system (GIS) land use data, dam operations studies, risk assessments and flood hazard management corridor working maps. These technical assessments are used to inform the capital project feasibility, prioritization, and design process funded by the capital program.

- Conduct independently or with consultant contracts, as needed, the following technical study and mapping projects:
  - Floodplain delineation and mapping
  - Channel migration zone delineation and mapping
  - Channel monitoring
  - Gravel removal studies and analysis
  - Risk assessments
  - Hydraulic modeling
  - Landslide hazard mapping in areas that may intersect major river floodplains.
- Coordinate with FEMA and other local, state and federal agencies on mapping studies and products.
- Maintain accessible flood study and flood hazard data in a floodplain mapping library.

### **Flood Preparation, Flood Warning Center and Post Flood Recovery Program**

**Program Summary:** Implement a comprehensive approach to preparing and educating citizens for flood events, coordinating emergency response and regional flood warning center operations during flood events, and ensuring consistency across basins for post-flood recovery actions. Post-flood damage assessments may result in capital projects to repair damaged facilities. Flood and post-flood activities are tracked with a unique project number so that expenditures may be submitted for any federal assistance that becomes available following a federal disaster declaration.

### Flood Preparedness

- Coordinate flood hazard education program, communication tools (brochures, web content, customer service bulletins, etc.) to increase the awareness of flood risks and prepare citizens for flood events. This includes base-level participation in the regional Take Winter by Storm campaign.
- Track and disseminate flood hazard technical information to other King County departments (Department of Transportation (DOT), Department of Permitting and Environmental Review (DPER), etc.) and other local, state, and federal agencies.
- Coordinate annual flood awareness month and associated public information program strategy (meetings, websites, other) designed to increase the public's awareness of locally available resources and information.

### Regional Flood Warning Center

- Staff the Regional Flood Warning Center monitoring and emergency first responder flood patrols during flood events.
- Coordinate with the following agencies in support of the Regional Flood Warning Center operations:
  - Local governments
  - City of Seattle and Corps on dam operations
  - National Weather Service on weather forecasts and flood predictions
  - King County Office of Emergency Management for coordinated emergency response activities
  - United States Geological Survey (USGS) on river gauging contract and gauge upgrades
  - King County DOT on road closures and emergency flood damage and repair response activities.
- Coordinate flood emergency response activities.

### Post-Flood Recovery Operations Program

- Complete preliminary damage assessments and develop and track FEMA public assistance Project Worksheet completion, expenditures and general documentation.
- Coordinate with FEMA and Corps on flood damage repairs and federal funding opportunities; determine eligibility.
- Identify projects and complete grant applications for post-disaster FEMA Hazard Mitigation Grant Program opportunities.

## **Program Management, Supervision; Finance, Budget and General Administration**

**Program Summary:** Provide supervisory, budgeting, contract administration, and administrative services for the District.

### Management and Supervision Tasks

- Manage the technical and business operations of the District work program and staff.
- Develop annual operating and capital budgets, work programs and staff allocations.
- Provide supervision, technical assistance and quality control/assurance to staff.
- Carry out responsibilities for hiring, management performance, developing training

expectations and recommending effective discipline and termination.

- Ensure programs and projects are completed to carry out the goals and objectives of the River and Floodplain Management Program.
- Work collaboratively with other government and regulatory agencies, departments within King County, and the public to address environmental policies and issues related to floodplain management principles, goals and objectives.

#### Finance and Budget Operations

- Develop annual capital and operating budget.
- Track and report annual capital and operating budget, revenue and expenditures.
- Process approved reimbursement requests for Subregional Opportunity Fund, Water Resource Inventory Area (WRIA) Cooperative Watershed Management grants, and Flood Reduction grants.
- Provide grant and cost-share reporting, billing and documentation.
- Provide contract and procurement management, support and strategy. (Note: contract administration for specific capital projects is charged to the capital project budget rather than the operating budget.)
- Support capital project managers/engineers with detailed project expenditures, revenues, scheduling, contract management and other finance needs in support of CIP implementation.
- Contract record-keeping consistent with county, state, and federal policies and requirements.

#### General Administration

- Records maintenance.
- Copying, filing, correspondence, and scheduling.
- Meeting preparation, coordination and support.
- Photo-documentation management.
- General program administrative support.

#### Compliance

- Provide access to records including but not limited to contracts, invoices, timesheets.
- Respond to annual District audits, King County Council audits, state audits, grant-related audits, and quarterly procurement audits.
- File semi-annual and Annual Report with the Board of Supervisors and Executive Director in printed and electronic form for posting to the District website.
- Notify Executive Director in writing when project scope, budget or schedule change from the adopted capital improvement plan.
- Notify Executive Director of grant requests 30 days prior to grant due date or submittal
- Notify Executive Director of grant award within 10 days of grant approval.
- Work with Executive Committee and Executive Director to support the District's work with Advisory Committee.

### **King County Flood Control District Program Implementation**

**Program Summary:** Implement flood hazard management programs and coordinate capital improvement projects for the District. Teams of staff are organized by river basin, supported by countywide technical services and countywide planning services, and will be responsible for identifying, implementing, and tracking flood risk reduction program and project actions within a given basin. Staff also coordinate four basin technical committees with partner jurisdictions and

maintain relationships with communities and other agencies.

#### Basin Team and Basin Technical Committee Program

- Staff and coordinate regular Basin Technical Committees.
- Implement work program to guide private property owner and community outreach necessary to complete capital improvement projects.
- Develop ongoing relationships with cities, agencies, and stakeholders within the basin, and ensure consistency across basins.
- Coordinate on acquisition priorities with Acquisition Unit consistent with District acquisition policies.
- Coordinate and support logjam investigation and response/action.
- Respond to, investigate and provide technical assistance for enforcement on complaints and general inquiries. Conduct citizen and/or landowner contact, communication and outreach.
- Conduct annual public meetings about large wood.
- Coordinate with the DOT Road Services Division on construction crew scheduling.
- Provide quarterly project reporting to management.
- Address and seek resolution on basin-specific floodplain management issues.

#### King County Flood Control District Advisory Committee Coordination

- Provide staff support to the Flood Control District Advisory Committee and the Board of Supervisors, as requested by the Executive Director.
- Track basin technical committee meetings, issues, and cross-basin policy issues.
- Coordinate public process across the District to ensure consistent outreach across basins.
- Report District activities, accomplishments, revenues and expenditures through an annual report.
- Respond to Advisory Committee and Board of Supervisors requests for information regarding rate structure options, and other issues.

#### Flood Control District Committee Support

- Provide presentations and updates as requested by the Executive Director at meetings of the Executive Committee and Board of Supervisors.

#### Floodplain Management Planning

- Support Board discussions of policy issues, building on materials previously developed for the Citizens Committee.
- Support Board engagement in capital project planning efforts, including the development of goals and evaluating alternative flood risk reduction actions. Participate in basin planning and coordination efforts such as the Lower Snoqualmie Flood-Fish-Farm work group.

#### Agriculture Needs Assistance

- Provide technical and modeling assistance and permitting support for farm pad proposals.
- Manage compensatory storage bank.
- Provide assistance to identify and pursue mitigation opportunities for barn and other farm structure elevations.
- Implement recommendations of the Farm/Flood Task Force as directed by District Executive Committee.
- Coordinate outreach to farmers and the King County Agriculture Commission to gather input on the unique needs of agriculture lands within flood hazard areas.



## **Capital Improvement Program Implementation**

**Program Summary:** The vast majority of the proposed District work program and budget is dedicated to the implementation of major maintenance and capital projects. This work includes managing and implementing major maintenance, repair and new flood protection facility design, permitting and construction; home buyouts and acquisitions; home and barn elevations; and farm pad cost-share assistance.

The capital projects include those projects to be completed by jurisdictions through the Subregional Opportunity Fund program with funding allocated proportional to assessed value of each jurisdiction, grants recommended through the WRIA cooperative watershed management program, and the flood reduction grant program.

Construction of flood protection infrastructure has paved the way for considerable residential, commercial and industrial economic development in flood hazard areas. The flood protection infrastructure has reduced the frequency of flooding and severity of erosion, and contained flood flows within levees that has allowed for significant economic growth by promoting development of historical floodplains, as exemplified by the industrial and commercial development lining the lower Green River. However, these areas will always face the potential risk that the flood protection facilities could be overwhelmed, resulting in serious flood damage, significant impacts to the regional economy, or personal injury and death. While the costs of flood protection facility construction and maintenance are borne by the public, the value to the economy is a regional benefit.

The CIP will complete high priority and regionally significant flood hazard management capital improvement projects to significantly protect public safety and reduce flood risks to the regional economy, transportation corridors, and public and private infrastructure and property. These capital improvement projects include retrofits and repairs to levees and revetments; levee setbacks to improve slope stability and increase flood conveyance and capacity; and targeted acquisition of repetitive loss properties and other at-risk developments.

The CIP will provide project design, construction and management on the following project implementation elements, consistent with WLR Division's Project Management Manual:

- Scope and Concept
  - Identify problem, alternatives, recommended solution and project goals.
- Feasibility
  - Identify and conduct studies, analysis, cost estimates, resource needs, landowner issues.
- Acquisition
  - Obtain the necessary property rights to perform the work.
- Design and Permitting
  - Address all elements of the project (e.g. geomorphic, constructability)
- Complete all federal, state and local permitting requirements (e.g. Corps, Endangered Species Act (ESA))
  - Survey
    - Conduct pre- and post-construction ("as-built") survey
  - AutoCAD

- Develop design plan set
- Hydraulic Modeling
  - Conduct pre- and post-project modeling
  - Complete Letter of Map Revision (LOMR) for constructed projects, when/if warranted
- Ecological
  - Conduct pre- and post-construction monitoring
  - Complete pre-project feasibility studies/analysis
  - Provide project design support
  - Complete biological assessments/evaluations
    - Individual
    - Programmatic
  - Complete Section 7 ESA consultation
  - Coordinate or support permitting and permit agency outreach
- State Environmental Policy Act (SEPA)
  - Complete individual project SEPA review
  - Complete programmatic SEPA review
- Geotechnical Engineering Support/Geologist/Geotechnical
  - Provide sediment management monitoring, analysis and modeling
  - Conduct pre- and post-construction monitoring
  - Conduct pre-project feasibility studies/analysis
  - Provide project design support
- Engineering (may include Project Management function as well)
  - Lead design engineer for projects
  - Manage construction of projects
  - Obtain resources for projects; make task assignments
  - Track and report project scope, schedule, and budget
  - Develop plan set for construction, or bid documentation support
  - Provide overall project quality assurance and quality control oversight
- Project Management
  - Obtain resources for projects; make task assignments
  - Track and report project scope, schedule, and budget
  - Provide overall project quality assurance and quality control oversight
  - Monitoring and Adaptive Management
    - Pre-project baseline information
    - Construction Monitoring
      - Conduct pre- and post-construction monitoring
      - Provide monitoring reports to DPER and other agencies as required.

### **Central Costs/Overhead and Reimbursement from Capital**

- This category includes use-based and FTE-based overhead costs from the Water and Land Resources Division of the Department of Natural Resources and Parks and King County. Examples include use-based charges for the Prosecuting Attorney's Office, risk management, and the financial management system, as well as FTE-based charges for building rent and utilities. When staff loan out from the operating fund to the capital fund, the capital fund reimburses the operating fund for FTE-related overhead charges.

## King County Flood Control District

### *2023 Annual Budget*

#### Attachment B

11/5/2022

<b>Program</b>	<b>2021 Actuals</b>	<b>2022 Approved</b>	<b>2022 Revised</b>	<b>2023 Requested</b>
Flood District Administration	2,123,434	2,338,637	2,338,637	2,488,637
Maintenance and Operation	12,007,219	16,313,808	16,738,808	15,808,156
Construction and Improvements	54,538,965	144,903,015	337,117,962	47,656,893
Bond Retirement and Interest	0	0	0	0
<b>Total</b>	<b>68,669,618</b>	<b>163,555,460</b>	<b>356,195,407</b>	<b>65,953,686</b>
Projected Capital Reserves - Cash Fund Balance <sup>1</sup>	65,636,041	59,185,400	53,590,088	37,568,263
Projected Capital Reserves - Budgetary Fund Balance <sup>2</sup>	(134,855,676)	(233,455,508)	(228,632,689)	(234,906,578)

<sup>1</sup> The cash fund balance assumes an expenditure rate of 16% of the capital budget in 2023, informed by prior year actuals.

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

## King County Flood Control District

### *2023 Annual Operating Budget*

#### Attachment C

11/4/2022

	2021 Actuals	2022 Approved	2022 Revised	2023 Requested
Annual Maintenance	2,177,852	2,533,518	2,533,518	2,836,298
Flood Hazards Plan, Grants, Outreach	579,181	575,653	850,653	982,429
Flood Hazard Studies, Maps, Technical Services	2,656,533	5,065,964	5,065,964	2,786,712
Flood Preparation, Flood Warning Center	453,917	1,048,487	1,198,487	1,291,336
Program Management, Supervision, Finance, Budget	1,828,323	1,971,187	1,971,187	2,006,077
Program Implementation	1,611,169	1,921,599	1,921,599	2,015,876
Overhead / Central Costs	2,700,244	3,197,399	3,197,399	3,889,428
<b>Total</b>	<b>12,007,219</b>	<b>16,313,808</b>	<b>16,738,808</b>	<b>15,808,156</b>

## King County Flood Control District

### *2023 Annual Capital Budget*

#### Attachment D

11/5/2022

<b>Basin</b>	<b>Acquisition</b>	<b>Design</b>	<b>Construction</b>	<b>Contingency</b>	<b>Total</b>
Snoqualmie River Basin	4,854,806	4,181,952	3,472,252	-	12,509,010
Cedar River Basin	1,540,537	11,875,324	321,256	-	13,737,117
Green River Basin	-	6,093,480	(22,693,957)	-	(16,600,477)
White River Basin	55,000	3,516,844	602,000	-	4,173,844
Effectiveness Monitoring	-	633,839	-	-	633,839
Countywide Miscellaneous	-	3,700,000	-	-	3,700,000
Opportunity Fund	-	6,023,427	-	-	6,023,427
Grant Fund	23,480,133	-	-	-	23,480,133
<b>Total</b>	<b>29,930,476</b>	<b>36,024,866</b>	<b>(18,298,449)</b>	<b>-</b>	<b>47,656,893</b>

## King County Flood Control District

### 2023 - 2028 Six-Year CIP

#### Attachment E

11/5/2022

Name	2021 Actuals	2022 Approved	2022 Revised	2023 Requested	2024	2025	2026	2027	2028	2023 - 2028 Total
Snoqualmie River Basin	11,540,198	\$15,108,271	30,478,830	12,509,010	16,944,783	31,759,929	29,904,415	26,937,329	22,991,954	141,047,420
Cedar River Basin	10,630,816	\$25,050,016	55,099,880	13,737,117	8,658,296	9,850,335	3,748,000	3,200,000	13,700,000	52,893,748
Green River Basin	17,480,194	\$74,650,373	166,136,448	(16,600,477)	54,915,584	111,295,876	31,216,699	8,975,367	11,652,427	201,455,476
White River Basin	900,296	\$821,941	2,718,890	4,173,844	4,503,700	5,567,310	4,226,735	251,436	1,394,870	20,117,895
Effectiveness Monitoring	893,979	\$850,701	1,649,370	633,839	1,019,320	832,410	850,660	638,080	963,850	4,938,159
Countywide Miscellaneous	215,710	\$100,000	1,650,008	3,700,000	200,000	200,000	200,000	200,000	200,000	4,700,000
Subregional Opportunity Fun	4,357,575	\$6,012,016	22,679,070	6,023,427	6,095,244	6,166,947	6,238,700	6,309,405	6,381,180	37,214,903
Grants Programs	8,520,196	\$22,309,697	56,705,466	23,480,133	24,321,176	25,192,345	26,094,718	27,029,414	27,997,590	154,115,376
<b>Total</b>	<b>54,538,965</b>	<b>144,903,015</b>	<b>337,117,962</b>	<b>47,656,893</b>	<b>116,658,102</b>	<b>190,865,152</b>	<b>102,479,927</b>	<b>73,541,031</b>	<b>85,281,871</b>	<b>616,482,977</b>

## King County Flood Control District

### 2023 Annual District Oversight Budget

#### Attachment F

11/4/2022

	<b>2022 Approved</b>	<b>2022 Revised</b>	<b>2023 Requested</b>
Management & Support	1,341,621	1,341,621	1,341,621
Rent and Equipment	42,086	42,086	42,086
Legal Services	250,000	250,000	250,000
Accounting	130,000	130,000	130,000
State Auditor	70,000	70,000	70,000
Other Professional Services	401,131	401,131	551,131
Expenses	19,572	19,572	19,572
Insurance	84,227	84,227	84,227
<b>Total</b>	<b>2,338,637</b>	<b>2,338,637</b>	<b>2,488,637</b>

## King County Flood Control District

### 2023 Subregional Opportunity Fund Allocations

#### Attachment G

11/4/2022

Jurisdiction	Opportunity Fund Allocation	Project Name	Project Description
Algona	\$10,000	Flood Management Plan Update	Update the 1997 Flood Management Plan.
Auburn	\$113,277	DEFERRING	
Beaux Arts	\$10,000	2023 Stormwater Annual Clean & Camera	2023 Stormwater Annual Clean & Camera Activities for 2700 to 2900 106th Ave SE (~800LF of pipe)
Bellevue	\$649,873	Upper Kelsey Creek Phase 2 Culvert/Bridge Replacement at Lake Hills Blvd.	Existing Kelsey Creek Culverts that cross under Lake Hills Blvd are undersized, unstable and deteriorating, causing an increased risk of flooding in the immediate area. Replace culverts.
Black Diamond	\$12,951	DEFERRING	
Bothell	\$64,022	1. Blyth Creek Sediment Catchment Basin Replacement - Ph. III Construction, 2. Parr Creek Invasive Removal and Replanting	1. Construct an improved sediment catchment basin system in Blyth Park to address ongoing sediment deposition. 2. Remove invasive reed canarygrass, old beaver dams, and replant stream banks to address ongoing sediment deposition and flooding of surrounding business park.
Burien	\$77,580	DEFERRING	
Carnation	\$10,000	DEFERRING	
Clyde Hill	\$28,910	Comprehensive Stormwater Plan Update	Update the Comprehensive Stormwater Plan for Clyde Hill.
Covington	\$32,154	DEFERRING	
Des Moines	\$44,642	DEFERRING	
Duvall	\$15,894	DEFERRING	
Enumclaw	\$19,961	Boise Creek Restoration at Enumclaw Golf Course	Restore Boise Creek at the Enumclaw Golf Course to its historic channel to provide both improved salmonid spawning/riparian habitat and eliminate routine seasonal flooding which damages the course. This will add more funds to the existing project.
Federal Way	\$123,096	DEFERRING	
Hunts Point	\$11,477	2023 Stormwater Annual Clean & Camera	2023 Stormwater Annual Clean & Camera Activities for 3614 to 4053 Hunts Point Road (~1,750LF of pipe)
Issaquah	\$112,569	DEFERRING	
Kenmore	\$51,661	DEFERRING	
Kent	\$225,308	James Street Storm Drainage Improvement	Due to seasonal flooding from Mill Creek, an additional inlet and conveyance system will be installed to move flooded waters from James Street to the Jame Street Stormwater Pump Station.
King County	\$509,186	1. Natural Drainage Flood Program 2. Flood Hazard Management Planning 3. Shinglemill Creek Beaver Dam Analogs	1. Address flood/sediment problems that arise in the County 2. Conduct technical analyses, risk assessments, stakeholder engagement, and develop a draft flood hazard management plan; may include work on the EIS 3. Complete fatal flaw/ feasibility analysis of constructing beaver dam analogs to reduce stream flashiness and improve summer flows for Shinglemill Creek on Vashon Island.
Kirkland	\$311,086	1. Juanita/High Woodlands Stormwater Retrofit Planning 2. North Rose Hill Infiltration Wells 3. 100th Ave NE Water Quality Treatment 4. 83rd/110th Intersection Flood Reduction	1. Conduct planning for stormwater retrofit facilities in the High Woodlands portion of the Juanita Creek Watershed. 2. Construct water quality treatment followed by infiltration wells on NE 111th Place east of 127th Ave NE. 3. Add water quality treatment near intersection of Simonds Rd and 100th Ave NE. 4. Fix flooding by replacing about 320 lineal feet of existing undersized stormwater pipe.
Lake Forest Park	\$34,006	DEFERRING	
Maple Valley	\$48,162	DEFERRING	
Medina	\$44,316	DEFERRING	
Mercer Island	\$143,302	Luther Burbank Waterfront Drainage LID Construction	Construct an LID system for surface & subsurface water at the Luther Burbank waterfront in coordination with recreational improvements planned for the site.
Milton	\$10,000	Stormwater Action Plan Step III	Develop a Stormwater Management Action Plan
Newcastle	\$39,387	DEFERRING	
Normandy Park	\$18,362	DEFERRING	
North Bend	\$19,911	DEFERRING	
Pacific	\$10,000	DEFERRING	
Redmond	\$249,097	Evans Creek Relocation	Relocate Reach 2 of Evans Creek out of an industrial area and into adjacent floodplain wetlands.
Renton	\$200,157	Panther Creek Barrier Removal - Talbot Road	Replace a deteriorated 42-inch corrugated metal pipe under Talbot Road S with a fish passable culvert to reduce the flood risk due to accumulating debris at the culvert inlet and restore fish passage.
Sammamish	\$199,764	DEFERRING	
SeaTac	\$42,075	DEFERRING	
Seattle	\$2,255,356	1. Broadview 12th Ave NW Drainage Improvements 2. North Thornton Natural Drainage System	1. Amendment to add budget to implement drainage improvements to address the highest priority areas of surface water flooding in the west branch of Mohlendorph basin. 2. Install green stormwater infrastructure, conveyance improvements, and stormwater controls to build new storm water infrastructure, and improve water quality in the northern reach of Thornton creek.
Shoreline	\$114,674	DEFERRING	
Skykomish	\$10,000	DEFERRING	
Snoqualmie	\$31,260	DEFERRING	
Tukwila	\$64,358	S. 131st Place Drainage Improvements	This will add additional funds to an existing project to design drainage improvements to S. 131st Place to keep Southgate Creek within its banks during storm events.
Woodinville	\$41,940	DEFERRING	
Yarrow Point	\$13,652	2023 Stormwater Annual Clean & Camera	2023 Stormwater Annual Clean & Camera Activities for NE 37th St, NE 37th Place, NE 40th St, NE 41st St, NE 42nd St, and 91st Ave NE (~6,000LF of pipe)
<b>Jurisdiction Totals</b>	<b>\$6,023,426</b>		

Deferrals 1,247,681  
Projects 4,775,745



King County Flood Control District

2023 - 2028 Six-Year CIP Project Allocations

Attachment H

11/5/2022

Capital Investment Strategy Project
Grant/External Revenue Awarded
Cost Share Contribution to Others
Added in 2022
Proposed New Add in 2023

No.	Title	Basin	Service Provider	2021 Inception to Date Expenditure	2022 Inception to Date Budget	2022 Available Budget	2023 Requested	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 Forecasted	2028 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
1	WLFL0 SF SKYKMSH REP LOSS MIT	SF Skykomish	King County	\$2,879,041	\$5,600,486	\$2,721,445	\$578,555	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$4,578,555			\$10,179,041	Near Baring in unincorporated King County. 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. Assumes one home per year.
2	<a href="#">WLFL0 TIMBER LN EROSN BUYOUTS</a>	SF Skykomish	King County	\$1,972,095	\$2,812,095	\$840,000	\$0	\$800,000	\$800,000	\$800,000	\$800,000	\$800,000	\$4,000,000			\$6,812,095	Near Skykomish in unincorporated King County. 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. Assumes one home per year.
3	WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	King County	\$304,972	\$553,246	\$248,274	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$553,246	Near Skykomish in unincorporated King County. Revetment is approximately 300 LF along left bank of South Fork Skykomish River. Unstable section of vertical stacked rock is approximately 150 LF. Failure has occurred previously in this section of revetment.
4	WLFL1 BENDIGO UPR SETBACK NORTH BEND	Upper Snoq	North Bend	\$124	\$50,000	\$49,876	\$0	\$0	\$0	\$0	\$0	\$4,200,000	\$4,200,000			\$4,250,000	North Bend. Cost-share of \$8.4M levee setback project. The levee overtops at a 20-year or greater flood, inundating undeveloped property, railway lines and roadways. Project would reconnect 25 acres of floodplain and construct a new levee that meets current engineering guidelines. City has submitted grant application for the remaining \$4.2 million.
5	<a href="#">WLFL1 CIRCLE RVR RANCH RISK RED</a>	Upper Snoq	King County	\$766,017	\$1,189,922	\$423,905	\$0	\$395,000	\$8,742	\$0	\$0	\$0	\$403,742			\$1,593,664	Near Near North Bend in unincorporated King County in unincorporated King County. 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.
6	WLFL1 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Snoqualmie	\$0	\$368,000	\$368,000	\$1,100,000	\$0	\$0	\$0	\$0	\$0	\$1,100,000			\$1,468,000	City of Snoqualmie. Elevate several flood-prone homes in the areas around Walnut St and Northern St.
7	WLFL1 MASON THORSON ELLS 2022 REPAIR	Lower Snoq	King County		\$155,000	\$155,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$155,000	Near Near North Bend in unincorporated King County in unincorporated King County. New project. Provide 20% local match to repair erosion to the downstream end of the Mason Thorson Ells levee under the US Army Corps of Engineers (USACE) PL 84-99 Levee Rehabilitation and Inspection Program (RIP). The downstream 60-feet of the levee was damaged during the February 2020 flood event and the proposed project will repair the damage and reduce future erosion risk to the facility.
8	WLFL1 MF FLOOD CONVEYANCE N BEND	Upper Snoq	North Bend	\$1,085	\$300,000	\$298,915	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$1,500,000			\$1,800,000	North Bend. Overflow channels originating from the Middle Fork Snoqualmie River flow through neighborhoods and cross roads creating risk to homes and infrastructure. Potential solutions include channel modifications, enhancements, and culvert improvements.
9	WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snoq	King County	\$4,462	\$2,292,231	\$2,287,769	\$1,712,231	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$11,712,231			\$14,004,462	Near Near North Bend in unincorporated King County in unincorporated King County. Work with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project C in the Capital Investment Strategy)
10	<a href="#">WLFL1 MF SNO CORRIDOR PLAN</a>	Upper Snoq	King County	\$1,705,594	\$1,707,115	\$1,521	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,707,115	Near Near North Bend in unincorporated King County in unincorporated King County. Middle Fork Snoqualmie Corridor Planning, completed in 2020.
11	WLFL1 NF SNOQUALMIE RES FLD MIT	Upper Snoq	King County		\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$12,000,000			\$14,000,000	Near Near North Bend in unincorporated King County in unincorporated King County. This project will acquire flood-prone properties in the North Fork Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage and secure footprints for future capital projects.
12	WLFL1 NORMAN CREEK DS CULV	Upper Snoq	King County	\$722,080	\$724,000	\$1,920	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$724,000	Near North Bend in unincorporated King County. Complete. Replace two existing rusted out 48" corrugated metal pipes on Norman Creek under 428th Ave SE with a new precast concrete box culvert. The new culvert will reduce the time it takes to drain the flood waters off of private property by increasing the capacity of the crossing. Currently when the North Fork Snoqualmie River overflows water backs up against 428th and impedes use of the roadway as the Norman Creek crossing is the normal outflow for this flood water once the North Fork has overtopped the adjacent levees.
13	WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	King County			\$0	\$350,000	\$750,000	\$0	\$0	\$0	\$0	\$1,100,000			\$1,100,000	Near North Bend in unincorporated King County. Improve SE 92nd Street.
14	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	King County	\$32,554	\$464,583	\$432,030	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$464,583	Near North Bend in unincorporated King County. Initiate feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigation strategies. Alternatives analysis report scheduled for submittal in Q3; total project cost may be revised based on the selected alternative.
15	<a href="#">WLFL1 PUMP STATION REVETMENT IMPROVEMENTS</a>	Lower Snoq	King County			\$0	\$103,030	\$181,529	\$205,078	\$1,099,965	\$0	\$0	\$1,589,602			\$1,589,602	Snoqualmie. The Pump Station Revetment reduces erosion risk to a City of Snoqualmie sewage pump station. Erosion to the embankment at the upstream end of the Pump Station Revetment threatens the upstream end of the facility. The project would consider and implement improvements to the facility to reduce future erosion risk.

No.	Title	Basin	Service Provider	2021 Inception to Date Expenditure	2022 Inception to Date Budget	2022 Available Budget	2023 Requested	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 Forecasted	2028 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
16	WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	Snoqualmie	\$331,407	\$3,883,278	\$3,551,871	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$3,883,278	Snoqualmie. Repair downstream 200 lineal feet of facility which is missing face rock and toe rock. A significant scour hole has formed around a City of Snoqualmie stormwater outfall pipe at the downstream end of facility. Potential erosion impact to Park Ave SE in City of Snoqualmie, an area included in the City's planned "Riverwalk" park and trail project. Project implemented by City of Snoqualmie as part of Riverwalk project, completed in 2021.
17	WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	King County		\$67,000	\$67,000	\$0	\$600,000	\$600,000	\$160,000	\$0	\$0	\$1,360,000			\$1,427,000	Near Near North Bend in unincorporated King County in unincorporated King County. Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.
18	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	King County	\$6,345,008	\$6,871,008	\$526,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000			\$6,891,008	Near Near North Bend in unincorporated King County in unincorporated King County. Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet. Completed in 2021.
19	WLFL1 RIBARY CREEK N BEND	Upper Snoq	North Bend	\$9,885	\$952,660	\$942,775	\$0	\$1,157,949	\$5,011,044	\$0	\$0	\$0	\$6,168,993			\$7,121,653	North Bend. Address flooding from Ribary Creek at Bendigo Blvd in North Bend as the Snoqualmie levees prevent drainage to the river during high flows.
20	WLFL1 SF CIS LONG TERM	Upper Snoq	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$57,100,000		\$57,100,000	Near North Bend in unincorporated King County. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
21	WLFL1 SF CIS MED TERM	Upper Snoq	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$47,200,000			\$47,200,000	Near North Bend in unincorporated King County. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
22	WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	King County	\$2,918,260	\$3,139,161	\$220,901	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$3,139,161	Near Near North Bend in unincorporated King County in unincorporated King County. Complete. 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.
23	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	King County	\$612,229	\$672,229	\$60,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$672,229	Near Near North Bend in unincorporated King County in unincorporated King County. 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).
24	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000			\$100,000	Near North Bend in unincorporated King County. Placeholder funding to partner with WSDOT to expand bridge SR202 opening over South Fork Snoqualmie River and Ribary Creek to improve conveyance and reduce upstream flood impacts. Supported by Near North Bend in unincorporated King County. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
25	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	King County			\$0	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000			\$150,000	Near North Bend in unincorporated King County. Prepare a Concept Development Report (CDR) to analyze and select best span/alignment replacement bridge and road-raising option as the current bridge does not provide enough hydraulic opening due to the transport of sediments and water overtops the approaches during floods.
25	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	King County	\$12,196,349	\$17,020,349	\$4,824,000	(\$572,000)	\$1,283,000	\$1,845,000	\$1,845,000	\$1,845,000	\$1,845,000	\$8,091,000			\$25,111,349	In and around Snoqualmie. This project will continue to acquire or elevate flood-prone structures in the Upper Snoqualmie basin to reduce the risk of flood, erosion, and channel migration damage. Partnership with City of Snoqualmie to elevate homes and cost-share acquisition of homes where City is planning to construct the Riverwalk project.
26	WLFL1 USACE PL 84-99 UPPER SNO	Upper Snoq	King County	\$90,071	\$663,594	\$573,523	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$663,594	Near Near North Bend in unincorporated King County in unincorporated King County. Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive future assistance from the Corps in the event of flood damage to the levees.
27	WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMT	Lower Snoq	King County			\$0	\$0	\$0	\$540,000	\$0	\$0	\$0	\$540,000			\$540,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to eliminate over-topping during flood events.
28	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMT	Lower Snoq	King County			\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000			\$500,000	Near Fall City in unincorporated King County. Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
29	WLFL2 DUTCHMAN RD REPAIR	Lower Snoq	King County	\$62,471	\$1,120,888	\$1,058,417	\$852,322	\$1,581,189	\$6,873,365	\$28,363	\$0	\$0	\$9,335,239			\$10,456,127	Near Near Duvall in unincorporated King County in unincorporated King County. 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 Near Duvall in unincorporated King County. 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.
30	WLFL2 FALL CITY FLOODPLAIN RESTORATION	Lower Snoq	King County	\$66	\$300,000	\$299,934	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$300,000	Near Fall City in unincorporated King County. Project will reconnect floodplain, removing the aging Hafner and Barfuse facilities and replacing with modern flood and erosion protection features. FCD cost-share funding is intended for design of flood risk reduction features.

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31	WLFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	King County	\$838,251	\$979,803	\$141,552	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$979,803	Near Carnation in unincorporated King County. This project provides technical and cost-sharing assistance to agricultural landowners in the Lower Snoqualmie floodplain to help them better withstand the impacts of flooding. Specific project actions include farm pads and elevation or flood proofing of agricultural structures.
32	WLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Snoq	King County	\$43,801	\$514,000	\$470,199	\$186,000	\$0	\$0	\$0	\$0	\$0	\$186,000			\$700,000	Near Duvall in unincorporated King County. Strengthen the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to protect it against major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.
33	WLFL2 JOY 2020 REPAIR	Lower Snoq	King County	\$35,882	\$100,000	\$64,118	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$100,000	Near Duvall in unincorporated King County. Design and repair approximately 800 linear feet of bank erosion along the Joy Revetment on the left bank of the Snoqualmie River across from the City of Near Duvall in unincorporated King County. Bank erosion is undermining an existing road.
34	WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	King County	\$1,074,203	\$2,200,000	\$1,125,797	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$2,200,000	Near Fall City in unincorporated King County. The river is scouring the road away and David Powell Road is collapsing into the river. This project repaired an existing failing revetment and extend MSE wall to prevent undercutting of the riverbank and roadway. Completed in September 2020.
35	WLFL2 L SNO/ALDAIR CORRDR PLN	Lower Snoq	King County	\$7,027,593	\$7,089,214	\$61,622	(\$50,207)	\$0	\$0	\$0	\$0	\$0	(\$50,207)			\$7,039,007	Near Fall City in unincorporated King County. Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Near Fall City in unincorporated King County 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.
36	<a href="#">WLFL2 LWR SNO RESDL FLD MITGTN</a>	Lower Snoq	King County	\$2,256,127	\$4,005,156	\$1,749,029	\$550,971	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,050,971			\$7,056,127	Near Carnation in unincorporated King County. This project will acquire or elevate flood-prone structures in the lower Snoqualmie basin to reduce the risk of flood or channel migration damage during future flood events.
37	WLFL2 MUD CREEK SEDIMENT FACILITY	Lower Snoq	King County	\$0	\$432,000	\$432,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$432,000	Snoqualmie. Design and permit a sediment facility to minimize sediment deposition, flooding, and channel avulsions at this site.
38	WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	King County	\$23,840	\$401,000	\$377,160	\$99,000	\$0	\$0	\$0	\$0	\$0	\$99,000			\$500,000	Near Duvall in unincorporated King County. 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.
39	WLFL2 STOSSEL LONG TERM REPAIR	Lower Snoq	King County	\$16,598	\$536,598	\$520,000	\$2,076,600	\$27,000	\$0	\$0	\$0	\$0	\$2,103,600			\$2,640,198	Near Carnation in unincorporated King County. Placeholder costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE.
40	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	King County	\$1,023,994	\$1,057,886	\$33,892	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,057,886	Near Carnation in unincorporated King County. This completed project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank Revetment on the Snoqualmie River, downstream of the City of Near Carnation in unincorporated King County.
41	<a href="#">WLFL2 TOLT PIPELINE PROTECTION</a>	Lower Snoq	King County	\$10,745,036	\$10,745,036	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$10,745,036	Near Carnation in unincorporated King County. This completed project repaired 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 Near Duvall in unincorporated King County. Construction is complete.
42	WLFL3 GIRL SCOUT LEVEE SETBACK	Tolt	King County			\$0	\$50,000	\$200,000	\$500,000	\$1,050,000	\$650,000	\$9,901,954	\$12,351,954			\$12,351,954	Near Carnation in unincorporated King County This project will set back the Girl Scout Camp Levee to reduce flood risks to the Girl Scout Camp and Remlinger Farms, improve levee integrity, increase the lateral migration area and area for ongoing sediment deposition, reduce long-term levee maintenance costs, and improve instream, floodplain and riparian habitat functions. This project is tied to and contingent on the FCD's decisions on the Tolt Level of Service study.
43	WLFL3 HOLBERG 2019 REPAIR	Tolt	King County	\$0	\$250,000	\$250,000	\$0	\$310,000	\$0	\$0	\$0	\$0	\$310,000			\$560,000	Near Carnation in unincorporated King County. Facility failure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to residences and property.
44	WLFL3 HOLBERG FEASIBILITY	Tolt	King County	\$285,819	\$412,149	\$126,330	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$412,149	Near Carnation in unincorporated King County. 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 Tolt River Channel Migration study
45	WLFL3 LOWER FREW LEVEE SETBACK	Tolt	King County	\$221,096	\$1,121,096	\$900,000	\$1,130,000	\$1,280,000	\$1,310,000	\$12,724,681	\$0	\$0	\$16,444,681			\$17,565,777	Near Carnation in unincorporated King County. Capital Investment Strategy. Design, based on level of service analysis, the highest priority levee setback for flood risk reduction. Phase 2 construction estimated in CIS at \$14.5M-\$16.7M
46	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	King County	\$532,475	\$1,529,475	\$997,000	\$17,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,017,000			\$3,546,475	Near Carnation in unincorporated King County. Acquire high-priority flood risk reduction properties in the lower two miles of the Tolt River consistent with the adopted Capital Investment Strategy.
47	WLFL3 REMLINGER LEVEE IMPROVEMENTS	Tolt	King County			\$0	\$87,459	\$149,195	\$169,774	\$1,136,972	\$0	\$0	\$1,543,400			\$1,543,400	Near Carnation in unincorporated King County Repair approximately 250 feet of the Remlinger Levee. Scope of project may be modified once Tolt River Level of Service project is completed; schedule is contingent on FCD direction on the Tolt level of service project.
48	<a href="#">WLFL3 RIO VISTA PROPERTY ACQ</a>	Tolt	King County	\$656,331	\$3,467,331	\$2,811,000	\$139,000	\$1,750,000	\$1,750,000	\$1,750,000	\$0	\$0	\$5,389,000			\$8,856,331	Near Carnation in unincorporated King County. Capital Investment Strategy: Acquire at-risk homes from willing sellers.
49	<a href="#">WLFL3 SAN SOUCI NBRHOOD BUYOUT</a>	Tolt	King County	\$5,046,463	\$5,199,674	\$153,211	\$456,789	\$0	\$0	\$0	\$0	\$0	\$456,789			\$5,656,463	Near Carnation in unincorporated King County. Capital Investment Strategy: acquire at-risk homes from willings sellers.

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50	WLFL3 SEDIMENT MGMT FEAS	Tolt	King County	\$174,823	\$263,706	\$88,883	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$263,706	Near Carnation in unincorporated King County. Capital Investment Strategy: Conduct sediment management feasibility study. Update and include upper watershed sediment production estimates.
51	WLFL3 SR 203 BR IMPRVMENTS FEAS	Tolt	King County	\$30,706	\$395,900	\$365,194	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$395,900	Near Carnation in unincorporated King County. Capital Investment Strategy: Initiate study (with potential future design and construct) to add bridge span(s), raise the highway and relocate King County Parks parking area.
52	WLFL3 TOLT CIS LONG TERM	Tolt	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$28,800,000		\$28,800,000	Near Carnation in unincorporated King County Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
53	WLFL3 TOLT CIS MED TERM	Tolt	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,250,000			\$56,250,000	Near Carnation in unincorporated King County Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
54	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	King County	\$575,785	\$1,055,467	\$479,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,055,467	Near Carnation in unincorporated King County. Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
55	WLFL3 TOLT R NATURAL AREA ACQ	Tolt	King County	\$2,614,518	\$4,922,258	\$2,307,740	(\$27,740)	\$0	\$0	\$0	\$800,000	\$0	\$772,260			\$5,694,518	Near Carnation in unincorporated King County. Capital investment strategy: acquire at-risk homes from willing sellers.
56	WLFL3 TOLT R RD ELEV SAN SOUCI	Tolt	King County	\$10,552	\$725,000	\$714,448	\$0	\$528,620	\$4,496,926	\$1,959,434	\$0	\$0	\$6,984,980			\$7,709,980	Near Carnation in unincorporated King County. Capital Investment Strategy: Construct Tolt Road NE road elevation or other flood risk reduction mitigation.
57	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	King County	\$67,917	\$68,573	\$656	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$68,573	Near Carnation in unincorporated King County. Reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road.
58	WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	King County			\$0	\$0	\$91,301	\$250,000	\$150,000	\$2,342,329	\$30,000	\$2,863,630			\$2,863,630	Near Carnation in unincorporated King County Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as funds become available.
59	WLFL3 UPPER FREW LEVEE SETBACK	Tolt	King County	\$0	\$209,000	\$209,000	\$0	\$160,000	\$1,200,000	\$1,500,000	\$14,800,000	\$15,000	\$17,675,000			\$17,884,000	Near Carnation in unincorporated King County. Capital Investment Strategy: Initiate the levee setback design. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
60	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	King County	\$1,753,880	\$2,183,810	\$429,930	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000			\$2,583,810	Near Preston in unincorporated King County. Acquisition of at-risk homes in the Alpine Manor neighborhood.
61	WLFL4 RAGING SCOUR REPAIR 2017	Raging	King County	\$25,062	\$80,000	\$54,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$80,000	Near Fall City in unincorporated King County. Complete. 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.
62	<b>Snoqualmie-South Fork Skykomish Subtotal</b>			\$66,034,521	\$102,850,977	\$36,816,457	\$12,509,010	\$16,944,783	\$31,759,929	\$29,904,415	\$26,937,329	\$22,991,954	\$141,047,420	\$103,450,000	\$85,900,000	\$433,248,397	
63																	
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65	WLFL5 ALLEN LK OUTLET IMPRVMT	Sammamish	King County	\$19,226	\$845,000	\$825,774	\$36,256	\$1,500,000	\$400,000	\$10,000	\$0	\$0	\$1,946,256			\$2,791,256	Sammamish. To address chronic flooding on this sole access roadway with approximately 200 properties, look at upstream and downstream retention/detention options; study road-raising options; prepare Concept Development Report, analyze and select best options.
66	WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Sammamish	Sammamish	\$0	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$400,000	Sammamish. This project will restore access to one river mile of high quality kokanee salmon habitat and reduce the risk of flooding by reducing sediment deposition.
67	WLFL5 IRWIN R 2020 REPAIR	Sammamish	King County	\$16,197	\$724,739	\$708,542	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$724,739	Near Issaquah in unincorporated King County. Further damage to the facility could cut off the sole access to one resident (via a private road and bridge over the creek).
68	WLFL5 ISSAQUAH CREEK CIS	Sammamish	King County		\$100,000	\$100,000	\$200,000	\$700,000	\$300,000	\$0	\$0	\$0	\$1,200,000			\$1,300,000	Near Issaquah in unincorporated King County: Identify and prioritize near-, mid-, and long-term capital projects for Flood Control District funding along Near Issaquah in unincorporated King County Creek.
69	WLFL5 JEROME 2020 REPAIR	Sammamish	Issaquah	\$5,083	\$355,083	\$350,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$355,083	Issaquah. The Jerome Revetment protects three private residences in the City of Issaquah. Erosion of the revetment could result in loss of property and damage to private utilities. Loss of bank in front of middle property. 70 linear feet (LF) of erosion.
70	WLFL5 LK SAMMAMISH FLOOD MIT GRANTS	Sammamish	Grant		\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,000,000	Issaquah: Funding for a near-term grant program to help fund flood mitigation options for lakeside landowners, such as floating docks, relocation or elevation of outbuilding and other damage-reduction and floodproofing measures. Established pursuant to FCDEM2021-3.
71	WLFL5 MOMB 2020 REPAIR	Sammamish	King County	\$2,391	\$327,670	\$325,279	\$716,721	\$8,000	\$0	\$0	\$0	\$0	\$724,721			\$1,052,391	Near Issaquah in unincorporated King County. Damage to the SE 156th St. road next flood season could cut off the sole access to a community of about 30 homes. More erosion at the downstream end of the facility may further destabilize the steep slope of the landslide and threaten downstream homeowners.
72	WLFL5 SAMMAMISH CIS	Sammamish	King County	\$195,121	\$1,752,520	\$1,557,400	\$615,881	\$548,346	\$0	\$0	\$0	\$0	\$1,164,227			\$2,916,747	Redmond: Identify and prioritize near-, mid-, and long-term capital projects for Flood Control District funding along the Sammamish River.
73	WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	King County	\$3,371,525	\$4,520,977	\$1,149,452	\$284,915	\$0	\$0	\$0	\$0	\$0	\$284,915			\$4,805,892	Redmond. Willowmoor Floodplain Restoration Project seeks to reduce the frequency and duration of high lake levels in Lake Sammamish while maintaining downstream Sammamish River flood control performance and enhancing habitat. The project will reconfigure the Sammamish transition zone to ensure ongoing flow conveyance, downstream flood control, potential extreme lake level reduction, habitat conditions improvement, and reduction of maintenance impacts and costs. Project is currently on hold pending completion of a 3rd party review.



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74	WLFL6 148TH AVE SE LARSEN LK BELLEVUE	Lk Wash Tribs	Bellevue	\$0	\$400,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$400,000	Bellevue. Conduct a site assessment and initiate preliminary design to progress toward construction of best drainage treatments and resilient design to reduce or eliminate roadway flooding on 148th Ave SE. Improve high water flow capacity for Larsen Lake/Lake Hills Greenbelt to Kelsey Creek where it floods 148th Avenue SE during moderate to severe storm and longer duration rainfall periods.
75	WLFL6 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribs	Redmond	\$128	\$1,550,000	\$1,549,872	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,550,000	Redmond. Protect Avondale Rd from an embankment that has been scoured by floodwaters from Bear Creek.
76	WLFL6 FACTORIA BLVD DRAINAGE	Lk Wash Tribs	Bellevue	\$0	\$6,814,000	\$6,814,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$6,814,000	Bellevue. Reduce flooding during high-intensity storm events along Factoria Boulevard, a major transportation corridor within the City of Bellevue. These events have increased in frequency and are anticipated to be even more frequent in the future as a result of climate change.
77	WLFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	King County	\$322,547	\$350,000	\$27,453	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$350,000	Near Issaquah in unincorporated King County. Prepare a feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis to identify potential solutions to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the bridge.
78	<a href="#">WLFL6 LOWER COAL CRK PH I</a>	Lk Wash Tribs	Bellevue	\$11,113,877	\$11,561,592	\$447,715	\$285,000	\$1,310,000	\$1,432,358	\$0	\$0	\$0	\$3,027,358			\$14,588,950	Bellevue. Increase conveyance capacity at the five box culvert crossings. Disconnect local storm drainage outfall from Coal Creek and redirect them to Lake Washington. Implemented by City of Bellevue. Expenditure forecast to be updated based on current project schedule.
79	WLFL6 MAY VALLEY DRAINAGE IMPRVMT	Lk Wash Tribs	King County	\$224,826	\$530,000	\$305,174	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$530,000	Newcastle. As recommended in the May Creek Basin Plan, two sediment traps will be constructed on May Creek tributaries (Cabbage and Country Creeks) to limit sediment loading. FCD funding is for initial feasibility analysis, landowner outreach, and acquisition of property from willing sellers for a future sediment facility.
80	WLFL7 BELMONDO 2020 REPAIR	Cedar	King County	\$9,048	\$318,278	\$309,230	\$847,770	\$8,000	\$0	\$0	\$0	\$0	\$855,770			\$1,174,048	Near Renton in unincorporated King County. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank - damage likely to occur next major high-flow event.
81	WLFL7 BRODELL 2020 REPAIR	Cedar	King County	\$9,403	\$0	(\$9,403)	\$9,403	\$0	\$0	\$0	\$0	\$0	\$9,403			\$9,403	Near Renton in unincorporated King County Residential land use and critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing.
82	WLFL7 BYERS 2020 REPAIR	Cedar	King County	\$15,194	\$16,987	\$1,793	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$16,987	Near Renton in unincorporated King County. Emergency action to prevent flooding of Byers Road, which is the sole access/egress for numerous residences along the Cedar River.
83	WLFL7 BYERS NEIGHBORHOOD IMPROVEMENTS	Cedar	King County	\$7,600	\$220,000	\$212,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$220,000	Near Renton in unincorporated King County. Capital Investment Strategy: Take several actions to reduce flood risk including construction of an emergency egress route, acquisition of flood-prone homes, and possible elevation of neighborhood roads. The Cedar CIS will be reviewed by the District in light of changed conditions from the 2020 flood disaster.
84	WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	King County	\$4,269,411	\$8,330,532	\$4,061,121	\$0	\$738,879	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$7,138,879			\$15,469,411	Near Renton in unincorporated King County. This project will acquire strategic real estate upon which several large Flood Control District capital projects are dependent (Project J in the Capital Investment Strategy). Assumes 3 homes per year.
85	WLFL7 CEDAR CIS LONG TERM	Cedar	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$35,400,000	\$35,400,000	Near Renton in unincorporated King County Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
86	WLFL7 CEDAR CIS MED TERM	Cedar	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,000,000		\$22,000,000	Near Renton in unincorporated King County Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
87	<a href="#">WLFL7 CEDAR LEVEE SETBACK FEAS/CORRIDOR PL</a>	Cedar	King County	\$1,853,360	\$1,987,587	\$134,227	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,987,587	Near Renton in unincorporated King County. This six-year flood risk reduction capital investment strategy will cover the Cedar River valley from Landsburg Road SE (River Mile 22) to Lake Washington. Project complete. Closeout in 2020.
88	WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	King County			\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Near Renton in unincorporated King County Improve Cedar Grove Road near Byers Road SE and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
89	WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar	King County	\$109,227	\$110,833	\$1,606	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$110,833	Near Renton in unincorporated King County. Erosion and scour have resulted in loss of upper ballast, dislodging of key logs, shearing of piles, and damage to hardware connections, to an Engineered Log Jam (ELJ #6), within the Cedar Rapids reach.
90	WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	King County	\$701,134	\$3,074,000	\$2,372,866	\$1,531,134	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$1,600,000	\$9,531,134			\$12,605,134	Near Renton in unincorporated King County. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee. Project K on the CIS: Risk analysis has identified 53 homes as high risk from flooding and channel migration, but which are not mitigated by projects. Elevate or purchase approximately 2 homes per year.

No.	Title	Basin	Service Provider	2021 Inception to Date Expenditure	2022 Inception to Date Budget	2022 Available Budget	2023 Requested	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 Forecasted	2028 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
91	WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Renton	\$10,308,292	\$12,835,100	\$2,526,808	\$0	\$403,000	\$500,000	\$500,000	\$0	\$10,500,000	\$11,903,000			\$24,738,100	Renton. The project ensures the minimum required 100-year flood conveyance capacity along the lower 1.25 miles of the Cedar River. Project is a required maintenance action by the Army Corps of Engineers Section 205 Flood Control Project. Maintenance dredging took place in 2016. Project funding shown herein represent post construction mitigation monitoring and reporting as well as the planning and design of the next dredging project. Additional funding will be needed beyond 2026 to cover permitting, mitigation plan development, construction, mitigation and post-construction monitoring work associated with the next cycle of dredging.
92	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Renton	\$757,380	\$5,000,000	\$4,242,620	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,000,000	Renton. Levee improvements necessary to satisfy levee certification engineering recommendations.
93	WLFL7 CRT SITE 2 2020 REPAIR	Cedar	King County	\$452,594	\$1,233,000	\$780,406	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,233,000	Near Renton in unincorporated King County Complete. This emergency action will armor up to 300 feet river bank and construct a buried revetment to stabilize the bank and prevent further erosion to the most damaged portion. This emergency action and the subsequent extension are upstream of the CRT 2 revetment in an area referred to as "Zone B."
94	WLFL7 CRT SITE 5 2020 REPAIR	Cedar	King County	\$93,459	\$437,905	\$344,446	\$255,554	\$1,002,000	\$8,000	\$0	\$0	\$0	\$1,265,554			\$1,703,459	Near Renton in unincorporated King County. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined numerous large trees, likely to fall into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility, near the upstream end.
95	WLFL7 CRT SITE 5B 2020 REPAIR	Cedar	King County	\$404	\$315,000	\$314,596	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000			\$320,000	Near Renton in unincorporated King County. Erosion and scour have resulted in loss of toe and bank rock, oversteepened and undercut banks (some portions cantilevered). Scour has undermined numerous large trees, likely to fall into the channel likely resulting in further damage of the bank. Damage is observed along approximately 350 feet of facility, near the upstream end.
96	WLFL7 CRT2 ZONE D 2020 REPAIR	Cedar	King County	\$2,677	\$5,335,656	\$5,332,979	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,335,656	Near Renton in unincorporated King County Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Damage may occur next flood season/likelihood increasing. This repair addresses damage to the CRT 2 revetment downstream of the 2020 emergency repair site, retrofitting the 2020 emergency repair with wood bank deflectors for long-term protection, and extending CRT 2 upstream to replace the damaged Riverbend Lower revetment, which will be removed as part of the Riverbend phase 2 project.
97	WLFL7 DORRE DON AVULSION ANALYSIS	Cedar	King County	\$36,534	\$100,000	\$63,466	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000			\$125,000	Near Renton in unincorporated King County. The main channel has avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st PI SE.
98	WLFL7 DORRE DON NBHOOD IMPRVMT	Cedar	King County	\$0	\$800,000	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$800,000	Near Renton in unincorporated King County. Capital Investment Strategy: This project will acquire flood-prone homes per the Cedar CIS, as well as evaluate if changes to the levee and road elevation will result in meaningful flood risk reduction and to determine what level of protection can be provided. The study would also evaluate other structural improvements such as raising Lower Dorre Don Way SE upstream and downstream of the trail crossing and farther downstream near RM 16.3. The Cedar CIS will be reviewed by the District in light of changed conditions from the 2020 flood disaster.
99	WLFL7 HERZMAN LEVEE SETBACK	Cedar	King County	\$2,308,060	\$3,444,192	\$1,136,132	\$8,201,165	\$229,071	\$9,977	\$0	\$0	\$0	\$8,440,213			\$11,884,405	Near Renton in unincorporated King County. Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
100	WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	King County	\$88,319	\$100,000	\$11,681	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$100,000	Near Issaquah in unincorporated King County. This project will construct improvements to the intersection which could be either a roundabout or additional travel lanes with a travel signal at the intersection of Near Issaquah in unincorporated King County Hobart Road SE and SE May Valley Road. Complete.
101	WLFL7 JAN ROAD LEVEE SETBACK	Cedar	King County	\$3,613,035	\$15,949,856	\$12,336,821	\$26,204	\$0	\$0	\$0	\$0	\$0	\$26,204			\$15,976,060	Near Renton in unincorporated King County. Capital Investment Strategy: Suite of solutions to be determined as part of feasibility study. Includes raise road, partial removal of Jan Road levee, construction of side channel, and mitigation of at-risk properties. Construction phased for mitigation in 2022 and other improvements in 2023.
102	WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	Renton	\$84,456	\$520,000	\$435,544	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$520,000	Renton. Capital Investment Strategy: Conduct feasibility study of Lower Cedar reach in City of Renton to 1) quantify economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 3) conduct cost-benefit analysis.
103	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	King County	\$252,226	\$2,654,203	\$2,401,977	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$2,654,203	Near Renton in unincorporated King County. Capital Investment Strategy: Raise in place or setback Jones Road; excavate and stabilize right bank to increase conveyance capacity; reinforce one revetment; remove portion of another revetment; acquire 8 at risk properties Construction delayed to accommodate Jan Rd construction in 2022.
104	WLFL7 MADSEN CR CULVERT 2017	Cedar	King County	\$3,188,070	\$3,326,000	\$137,930	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$3,326,000	Near Renton in unincorporated King County 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.

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105	WLFL7 MADSEN CR RENTON	Cedar	Renton	\$231,945	\$635,000	\$403,055	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$635,000	Renton. Design and implement phase I improvements to Madsen Creek to achieve 100-year level flood protection for properties south of SR 169 and 25-year level flood protection for properties north of SR 169.
106	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	King County	\$475,215	\$490,246	\$15,031	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$490,246	Renton. Capital Investment Strategy: Conduct site specific landslide risk assessment study; conduct a feasibility study to evaluate opportunities to modify the Erickson Levee. Pending results of landslide hazard analysis, FCD will consider options for a project.
107	WLFL7 RIVERBEND MHP ACQ	Cedar	King County	\$5,962,522	\$5,182,126	(\$780,396)	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,182,126	Near Renton in unincorporated King County. This project represents the Flood District contribution to a larger project that relocates mobile home park tenants and initiates preliminary engineering design for potential levee setback / realignment to reduce flood heights, velocities and channel migration risk in this reach. Disappropriate remainder after FCD portion of scope is complete.
108	WLFL7 SR 169 FLOOD REDUCTION	Cedar	King County	\$3,740,988	\$5,485,588	\$1,744,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$5,485,588	Near Renton in unincorporated King County. Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary design.
109	WLFL7 TABOR-CROWALL-BRODELL 2020 REPAIR	Cedar	King County	\$211,453	\$1,252,339	\$1,040,886	\$722,114	\$486,000	\$4,000,000	\$38,000	\$0	\$0	\$5,246,114	\$22,000,000	\$35,400,000	\$6,498,453	Near Renton in unincorporated King County. Critical facilities (Utilities, CRT, SR 169). Regional impact extents. Potential human injury from sudden change in conditions. Generally exposed bank along 200 feet - damage likely to occur next major high-flow event.
110	<b>Cedar-Sammamish Subtotal</b>			\$54,052,926	\$110,386,009	\$56,333,083	\$13,737,117	\$8,658,296	\$9,850,335	\$3,748,000	\$3,200,000	\$13,700,000	\$52,893,748	\$22,000,000	\$35,400,000	\$220,679,757	
111																	
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113	WLFL8 BRISCOE LEVEE SETBACK	Green	Kent	\$21,357,047	\$23,330,271	\$1,973,224	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$23,330,271	Kent. Floodwall construction at four locations completed by the City of Kent. Final expenditures for the remainder of 2017 will include reimbursement for property acquisition and riparian plantings. The revised 2017 financial plan includes revenue of \$4.1 million for the sale of the Rivers Edge Business Park. Per FCD 2016-20 Section 6, this revenue makes expenditure authority available for the Lower Russell Levee Setback project. The Briscoe project will be closed out once the District's ILA with Kent expires in 2018.
114	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	King County	\$856,827	\$1,018,278	\$161,451	\$959,506	\$3,477,822	\$971,315	\$3,898,218	\$3,562,138	\$0	\$12,868,999			\$13,887,277	Renton. This project will design and build the second phase of renovations to the Black River pump station. Major components include replacement of the control building, replacement of the trash rake system, and replacement of the screen spray system.
115	WLFL8 BRPS FISH PASS IMPRVMENTS	Green	King County	\$303,739	\$2,359,863	\$2,056,124	\$2,502,589	\$9,942,392	\$10,127,229	\$796,976	\$0	\$0	\$23,369,186			\$25,729,049	Renton. This project will design and build the fourth phase of renovations to the Black River pump station, revising and replacing the obsolete fish passage systems.
116	WLFL8 BRPS HIGH-USE ENGINES	Green	King County	\$5,534,573	\$12,105,573	\$6,571,000	\$635,154	\$0	\$0	\$0	\$0	\$0	\$635,154			\$12,740,727	Renton. This project will design and build the first phase of renovations to the Black River pump station, replacing the three smaller pump engines which run much more frequently than the other, larger pump engines.
117	WLFL8 BRPS LARGE ENGINE REPLACEMENT	Green	King County	\$0	\$0	\$0	\$0	\$0	\$0	\$401,193	\$413,229	\$6,652,427	\$7,466,849			\$7,466,849	Renton. This project will design and replace the large engines and overhaul the large pumps at the Black River pump station.
118	WLFL8 BRPS SEISMIC UPGRADES	Green	King County	\$621,341	\$2,526,804	\$1,905,463	\$226,613	\$11,592,741	\$16,004,381	\$184,481	\$0	\$0	\$28,008,216			\$30,535,020	Renton. This project will strengthen and improve the structure and subsurface soils at the Black River Pump Station.
119	WLFL8 BRPS SUPPORT SYS UPGRADES	Green	King County	\$489,350	\$1,565,268	\$1,075,918	(\$127,751)	\$1,616,440	\$1,664,933	\$527,336	\$0	\$0	\$3,680,958			\$5,246,226	Renton. This project will design and build the third phase of renovations to the Black River pump station, replacing support systems such as engine control panels, cooling systems, oilers and hoists.
120	WLFL8 COVINGTON CR BLACK DIAMOND	Green	Black Diamond	\$0	\$2,293,500	\$2,293,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$2,293,500	Black Diamond. Remove the three 6-foot diameter culverts where Lake Sawyer flows into Covington Creek and replace with a bridge to eliminate obstructions for water flow and allow passage for migrating salmon.
121	WLFL8 DESIMONE MAJOR REPAIR USACE	Green	USACE	\$326,818	\$1,850,000	\$1,523,182	\$4,743,038	\$10,469,173	\$11,670,324	\$10,737,465	\$0	\$0	\$37,620,000			\$39,470,000	Tukwila. Construct a floodwall to design elevation for 18,800 cfs plus 3 feet of freeboard, repairing slope failures, laying the levee embankment slope back and shifting the levee alignment (and trail) landward where possible. The floodwall will connect previously constructed floodwalls at Desimone reaches 1 and 2.
122	WLFL8 DYKSTRA 2022 REPAIR	Green	King County	\$0	\$50,000	\$50,000	\$100,000	\$250,000	\$0	\$0	\$0	\$0	\$350,000			\$400,000	Auburn: New flood damage repair project. Address scour and bank erosion and missing toe rock upstream of 2015 Corps of Engineers repair.
123	WLFL8 FORT DENT 2020 REPAIR	Green	King County	\$89,833	\$578,710	\$488,877	\$540,223	\$258,064	\$3,300,381	\$6,556	\$0	\$0	\$4,105,224			\$4,683,934	Damage increases vulnerability of the heavily used regional Green River trail and regional soccer complex (Starfire) and Tukwila Park. Erosion increases vulnerability to trail and soccer fields.
124	WLFL8 FORT DENT US 2021 REPAIR	Green	King County	\$166,102	\$398,825	\$232,723	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$398,825	Tukwila. This project will repair a damaged section of the levee that was caused by a falling tree and susceptible to further scour and erosion.
125	WLFL8 GALLI-DYKSTRA 2020 REPAIR	Green	King County	\$1,037,688	\$1,535,319	\$497,631	\$121,361	\$0	\$0	\$0	\$0	\$0	\$121,361			\$1,656,680	Auburn. Complete Phase 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements.
126	WLFL8 GREEN PRE-CONST ACQ	Green	King County	\$4,271,106	\$17,577,724	\$13,306,618	\$0	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$25,000,000			\$42,577,724	Auburn, Kent, Near Renton in unincorporated King County, Tukwila. This project will acquire strategic real estate upon which future large Flood Control District capital projects are dependent, thereby reducing risks to construction schedules for those projects.
127	WLFL8 GREEN R IMPROVEMENT 2024	Green	King County	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000			\$100,000	Auburn. Improve SE Green Valley Road near SE Auburn Black Diamond Road and alleviate roadway flooding by raising the road through the application of a thick layer of overlay.
128	WLFL8 GREEN SCOUR REPAIR 2017	Green	King County	\$47,524	\$150,000	\$102,476	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$150,000	Auburn. This project will address scour damage to the bridge, which is on the primary through route of the Green River Valley Rd. The bridge is also a King County landmark.

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129	WLFL8 HSB BREDA SETBACK KENT	Green	Kent	\$930,509	\$7,130,509	\$6,200,000	\$7,900,000	\$400,000	\$0	\$0	\$0	\$0	\$8,300,000			\$15,430,509	Kent. 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. This segment of the levee has the lowest factor of safety rating of the Horseshoe Bend levee.
130	WLFL8 HSB MCCOY REALIGNMENT USACE	Green	Kent	\$45,044	\$516,138	\$471,094	\$2,188,106	\$700,000	\$0	\$0	\$0	\$0	\$2,888,106			\$3,404,244	Kent. This USACE repair project replaces the SWIF capital project originally planned by the FCD. The repair project is anticipated to stabilize the failure of the levee slope, construct a ring levee around an isolated utility, and shift the alignment of the federal levee back to the City of Kent's secondary containment levee.
131	WLFL8 KENT AIRPORT RVTMNT 2022 REPAIR	Green	King County		\$270,000	\$270,000	\$90,000	\$978,750	\$12,750	\$0	\$0	\$0	\$1,081,500			\$1,351,500	Kent: New flood damage repair project. Stabilize over steepened bank and rock revetment that has been undercut by rotational bank failure. This project was transferred to Julie's team
132	WLFL8 LONES LEVEE SETBACK	Green	King County	\$0	\$1,850,000	\$1,850,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,850,000	Auburn. Contribute the partial cost of a repair (\$500,000) to a \$5 million levee setback project. By relocating the levee, flood risks as well as future repair costs for the Flood Control District are reduced.
133	WLFL8 LOWER RUSSELL ACQ KENT	Green	Kent	\$1,023,656	\$1,123,668	\$100,012	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,123,668	Kent. Acquisitions by the City of Kent for the Lower Russell levee setback project.
134	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	King County	\$687,780	\$718,519	\$30,739	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000			\$748,519	Auburn, Kent, Renton, Tukwila. Lower Green River Corridor Planning and Environmental Impact Statement.
135	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	King County	\$45,047,797	\$57,965,925	\$12,918,128	\$0	\$13,244	\$0	\$0	\$0	\$0	\$13,244			\$57,979,169	Kent. Remove and replace the existing flood containment system of levee and revetments along the right (east) bank of the Green River between river mile 17.85 (S 212th St) and river mile 19.25 (S 231st Way) in the City of Kent to provide long-term flood protection and improve riparian and aquatic habitat. Increased expenditure authority to match interim SWIF adopted by Board of Supervisors.
136	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Kent	\$2,024,562	\$19,400,000	\$17,375,438	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$19,400,000	Kent. Prepare an analysis and study of design and construction alternatives to provide flood protection, scour protection, enable levee certification and secure necessary land rights.
137	WLFL8 NEWAUKUM CR FLOOD CONVEYANCE REST	Green	King County	\$0	\$65,000	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$65,000	Near Enumclaw in unincorporated King County. An undersized culvert causes flooding that could block a sole access road.
138	WLFL8 O'CONNELL REVETMENT 2021 REPAIR	Green	King County	\$9,404	\$386,929	\$377,525	\$154,629	\$149,852	\$924,447	\$0	\$0	\$0	\$1,228,928			\$1,615,857	Kent: Stabilize the O'Connell revetment slope, and move or replace the road shoulder and guardrail.
139	WLFL8 OLD JEFFS FARM REVETMENT	Green	King County	\$304,868	\$901,721	\$596,853	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$901,721	Auburn. This project will conduct a feasibility analysis of channel migration hazards from river mile 21.1 to 21.7. Alternative selection is pending; alternative 1 is assumed as a placeholder.
140	WLFL8 RUSSELL RD UPPER KENT	Green	Kent	\$6,065,056	\$6,082,173	\$17,117	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$6,082,173	Kent. Project is to improve the levee by providing a minimum of 3 feet of freeboard above the predicted 500-year flood event and improve slope stability. These segments of the Russell Road Upper Levee have over-steepened slopes and therefore lack adequate structural stability to provide adequate safety.
141	WLFL8 S 106TH ST DRAINAGE IMPVMNT	Green	King County	\$0	\$451,000	\$451,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$451,000	Burien. Replace an existing damaged and undersized pipe that runs under eleven properties to prevent stormwater flooding.
142	WLFL8 SIGNATURE PT REVETMENT KENT	Green	Kent	\$1,465,164	\$56,745,419	\$55,280,255	(\$38,440,255)	\$5,650,000	\$23,195,000	\$9,595,255	\$0	\$0	\$0			\$56,745,419	Kent. Project provides increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee.
143	WLFL8 TUK-205 GUNTER FLOODWALL	Green	King County	\$668,021	\$11,498,336	\$10,830,315	\$1,526,310	\$2,188,106	\$35,440,116	\$69,219	\$0	\$0	\$39,223,751			\$50,722,087	Tukwila. This project will construct a facility to bring this levee segment in compliance with certification requirements for structural stability and raise the levee to roughly the 500 year event.
144	WLFL8 TUK-205 RATOLO FLOODWALL	Green	King County			\$0	\$250,000	\$1,500,000	\$50,000	\$0	\$0	\$0	\$1,800,000			\$1,800,000	Tukwila. This project will construct a 0.15 mile floodwall and sloped embankment to protect adjacent businesses from flooding. The floodwall alignment (including embankment slope, factors of safety, and necessary real estate) will be finalized during the project design phase.
145	WLFL8 TUK-205 USACE GACO-SEGALE	Green	USACE	\$957,806	\$13,676,421	\$12,718,615	\$0	\$629,000	\$2,935,000	\$0	\$0	\$0	\$3,564,000			\$17,240,421	Tukwila. US Army Corps led project to replace 3500 ft. of Tukwila 205 levee in-place replacement to bring up to 500-year level of protection per the adopted interim SWIF. The USACE will cost-share up to 100 year level of protection. Requires cooperation agreement.
146	WLFL8 TUKWILA RVTMT 2019 REPAIR	Green	King County	\$436,201	\$500,000	\$63,799	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$500,000	Tukwila. Complete. Erosion and slumping of Tukwila Trail revetment caused by the recent Green River flood resulted in approximately 200 feet of damage to the revetment.
147	WLFLS PUGET WAY CULVERT	Seattle	Seattle	\$1,578,799	\$1,800,000	\$221,201	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,800,000	Seattle. This project will replace an aging and undersized creek culvert under Puget Way SW in Seattle.
148	WLFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	Seattle	\$3,044,596	\$17,105,000	\$14,060,404	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$17,105,000	Seattle. 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.
149	WLFLS SOUTH PARK PUMPSTATION	Seattle	Seattle	\$6,504,234	\$6,505,000	\$766	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$6,505,000	Seattle. Cost-share construction of pump station to reduce flooding in industrial area. Allocation of funds by year may be revised based on updated project schedule. Implemented by the City of Seattle. Expenditure forecast to be updated based on current project schedule.
150	<b>Green-Duwamish Subtotal</b>			\$105,895,444	\$272,031,893	\$166,136,448	(\$16,600,477)	\$54,915,584	\$111,295,876	\$31,216,699	\$8,975,367	\$11,652,427	\$201,455,476	\$0	\$0	\$473,487,369	
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153	WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMT	Green	King County			\$0	\$0	\$0	\$190,000	\$0	\$0	\$0	\$190,000			\$190,000	Enumclaw. Improve the drainage system to alleviate neighborhood flooding. May require improvements outside of the road right-of-way.
154	WLFL9 212TH AVE SE MITIGATION	White	King County	\$0	\$65,000	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$65,000	Enumclaw. TBD
155	WLFL9 ANDERSON PARK ACQUISITION	White	King County	\$0	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$100,000	Pierce County. Park is split by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.



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156	WLFL9 CHARLIE JONES DS CULVERT	White	King County	\$0	\$45,000	\$45,000	\$555,000	\$1,000,000	\$50,000	\$0	\$0	\$0	\$1,605,000			\$1,650,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
157	WLFL9 CHARLIE JONES US CULVERT	White	King County	\$372,446	\$935,852	\$563,406	\$47,000	\$10,000	\$0	\$0	\$0	\$0	\$57,000			\$992,852	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
158	<a href="#">WLFL9 A STREET HESCOS</a>	White	King County		\$420,000	\$420,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$420,000	Pacific. Complete. 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.
159	<a href="#">WLFL9 WHITE RIVER CIS</a>	White	King County			\$0	\$191,000	\$300,000	\$1,098,984	\$0	\$0	\$0	\$1,589,984			\$1,589,984	Pacific. Identify and prioritize near-, mid-, and long-term capital projects for Flood Control District funding along the White River.
160	<a href="#">WLFL9 COUNTYLINE TO A STREET</a>	White	King County	\$23,893,632	\$23,926,129	\$32,497	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$23,926,129	Pierce County. Complete. 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.
161	<a href="#">WLFL9 RIGHT BANK LEVEE SETBACK</a>	White	King County	\$14,802,507	\$16,207,666	\$1,405,159	\$3,325,844	\$3,193,700	\$4,228,326	\$4,226,735	\$251,436	\$394,870	\$15,620,911			\$31,828,577	Pacific. Construct a new levee setback in the City of Pacific, extending from BNSF railroad bridge embankment to endpoint at Butte Ave. by White River Estates neighborhood.
162	WLFL9 SLIPPERY CREEK ACQ	White	King County	\$116,261	\$116,261	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000			\$171,261	Near Greenwater. In mid-2018 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of Highway 410. Subsequent site visits identified multiple unpermitted structures and a well; additional funding necessary to complete demolition and asbestos abatement at a remote and inaccessible location. Complete.
163	WLFL9 STUCK R DR 2019 REPAIR	White	King County	\$732,466	\$820,294	\$87,828	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$820,294	Auburn. Loss of facing rock along 130' of the lower half of the embankment. Some of the gravel fill under the rock has eroded as well, leaving a near-vertical face supporting the rock remaining on the upper slope. The rock that slid down is currently providing scour protection at the toe.
164	WLFL9 STUCK R DR FLOOD PROTECTION	White	King County			\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000			\$1,000,000	Auburn. TBD
165	<b>White Subtotal</b>			\$39,917,312	\$42,636,202	\$2,718,890	\$4,173,844	\$4,503,700	\$5,567,310	\$4,226,735	\$251,436	\$1,394,870	\$20,117,895	\$0	\$0	\$62,754,097	
166																	
167																	
168	<a href="#">WLFLG FLOOD REDUCTION GRANTS</a>	Countywide	Grant	\$16,844,256	\$48,034,253	\$31,189,997	\$12,742,437	\$13,198,863	\$13,671,638	\$14,161,347	\$14,668,597	\$15,194,017	\$83,636,899			\$131,671,152	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
169	WLFLG WRIA GRANTS	Countywide	Grant	\$36,179,107	\$61,694,576	\$25,515,469	\$10,737,696	\$11,122,313	\$11,520,707	\$11,933,371	\$12,360,817	\$12,803,573	\$70,478,477			\$132,173,053	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
170	<a href="#">WLFLM EFFECTIVENESS MONITORING</a>	Countywide	King County	\$4,656,953	\$6,306,323	\$1,649,371	\$633,839	\$1,019,320	\$832,410	\$850,660	\$638,080	\$963,850	\$4,938,159			\$11,244,482	Evaluation of capital projects to determine effectiveness and identify project needs.
171	<a href="#">WLFL0 SUBREGNL OPPRTNTY FUND</a>	Countywide	Grant	\$50,709,829	\$73,388,899	\$22,679,070	\$6,023,427	\$6,095,244	\$6,166,947	\$6,238,700	\$6,309,405	\$6,381,180	\$37,214,903			\$110,603,802	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
172	WLFLX CENTRAL CHARGES	Countywide	King County	\$1,013,643	\$1,313,643	\$300,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,200,000			\$2,513,643	Central charges related to the FCD's capital fund.
173	WLFLX CONST MATERIALS STOCKPILE	Countywide	King County	\$149,992	\$500,000	\$350,008	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$500,000	Stockpile material for future flood damage repairs.
174	<a href="#">WLFLX COUNTYWIDE STRATEGIC ACQUISITIONS</a>	Countywide	King County			\$0	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000			\$2,000,000	TBD
175	<a href="#">WLFLX FLOOD WARNING CTR UPGRADES</a>	Countywide	King County			\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$1,500,000			\$1,500,000	Replace existing IT systems that are outdated and at risk for failure.
176	WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	King County	\$419,042	\$1,419,042	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,419,042	Contingency for emergency response actions during a flood event.
177	<b>Countywide Subtotal</b>			\$109,972,821	\$192,656,736	\$82,683,915	\$33,837,399	\$31,635,740	\$32,391,702	\$33,384,078	\$34,176,899	\$35,542,620	\$200,968,438	\$0	\$0	\$393,625,174	
178																	
179	<b>Grand Total</b>			\$375,873,023	\$720,561,817	\$344,688,793	\$47,656,893	\$116,658,102	\$190,865,152	\$102,479,927	\$73,541,031	\$85,281,871	\$616,482,977	\$125,450,000	\$121,300,000	\$1,583,794,794	