King County

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Meeting Agenda

King County Flood Control District Executive Committee

Boardmembers: Dave Upthegrove, Chair; Reagan Dunn, Vice Chair; Kathy Lambert, Pete von Reichbauer

1:00 PM **Wednesday, October 6, 2021** **Virtual Meeting**

REVISED AGENDA ADDED ITEM 8

PUBLIC NOTICE: To help prevent the spread of the COVID 19 virus, all Supervisors and staff will be participating in this meeting remotely.

HOW TO WATCH/LISTEN TO THE MEETING:

1) To stream online paste the following into your browser:

https://livestream.com/accounts/15175343/events/4485487

2) To watch on King County TV tune to Channel 22 (Comcast Channel 22 and 322(HD) or Wave Broadband Channel 22).

HOW TO PROVIDE PUBLIC TESTIMONY:

1) In writing: You may testify by submitting a COMMENT EMAIL. If your comments are submitted before 10:00 a.m. on the day of the Flood meeting they will be distributed to the Supervisors and appropriate staff prior to the meeting. Comments submitted after 10:00 a.m. will be distributed after the meeting. Please submit your COMMENT EMAIL by emailing:

info@kingcountyfloodcontrol.org

or filling out the General Contact Form at the bottom of the page on the Flood District's webpage:

HTTPS://kingcountyfloodcontrol.org/contact-us/

2) By phone or computer: Use the telephone number, meeting identification and password below to call into the meeting.

Sign language and communication material in alternate formats can be arranged given sufficient notice (296-1000).
TDD Number 296-1024.
ASSISTIVE LISTENING DEVICES AVAILABLE IN THE COUNCIL CHAMBERS.

Items for Discussion and Possible Action

8. FCD Motion No. FCD21-03S

A MOTION relating to the Lower Green River Corridor Flood Hazard Management Plan; updating the planning process for a proposal that will result in the Lower Green River Corridor Flood Hazard Management Plan; confirming the goals and purposes of the proposal; and redefining alternative means of accomplishing the goals and purposes of the proposal; and requesting the District responsible official to continue State Environmental Policy Act review of the proposal.

Briefings

9. FCD Briefing No. FCD2021-B10

Flood Awareness Month Social Media Kit

10. Other Business

11. Adjournment

King County

1200 King County
Courthouse
516 Third Avenue
Seattle, WA 98104

Meeting Minutes

King County Flood Control District Executive Committee

Boardmembers: Dave Upthegrove, Chair; Reagan Dunn, Vice Chair;
Kathy Lambert, Pete von Reichbauer

1:00 PM **Wednesday, September 15, 2021** **Virtual Meeting**

DRAFT MINUTES

PUBLIC NOTICE: To help prevent the spread of the COVID 19 virus, all Supervisors and staff will be participating in this meeting remotely.

HOW TO WATCH/LISTEN TO THE MEETING:

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2) By phone or computer: Use the telephone number, meeting identification and password below to call into the meeting.

TO JOIN ONLINE: Paste the following link into the address bar of your web browser:

https://kingcounty.zoom.us/j/81277668980

JOIN BY TELEPHONE:

Dial: +1 253 215 8782
Meeting ID: 812 7766 8980
Passcode: 467771

When connecting to the meeting through your phone or computer be sure to use the ZOOM application to facilitate the unmuting function.

If you do not wish to provide public testimony, please help us manage the callers by using one of the options above to watch or listen to the meeting.

1. Call to Order

The meeting was called to order at 1:03 p.m.

2. Roll Call

Present: 4 - Mr. Dunn, Ms. Lambert, Mr. Upthegrove and Mr. von Reichbauer

3. Approval of Minutes of September 1, 2021

Supervisor Dunn moved to approve the minutes of the September 1, 2021, meeting as presented. Seeing no objection, the Chair so ordered.

4. Public Comment

No one signed up to give Public Comment.

5. Executive Session

The Chair recessed the meeting into Executive Session under RCW 42.30.110 (1)(i)(iii) to discuss with legal counsel representing the District litigation or legal risks of a proposed action or current practice that the agency has identified when public discussion of the litigation or legal risks is likely to result in an adverse legal or financial consequence to the agency at 1:05 p.m. for approximately 10 minutes, to 1:15 p.m.

The Chair reconvened the meeting at 1:15 p.m.

6. Approval of Invoices

Michelle Clark, Executive Director, reported on the following invoices:

Lund Consulting ($21,030.00)
Parametrix ($44,213.66)
Wallace Wilkins ($3,558.34)

Supervisor Lambert moved approval of the invoices. The motion carried.

Briefings

7. FCD Briefing No. FCD2021-B09

King County Flood Control District 2022 Budget Briefing

Ms. Clark briefed the District on the King County Flood Control District 2022 Budget.

This matter was Presented

8. Other Business

No other business was presented.

9. Adjournment

The meeting adjourned at 1:45 p.m.

Approved this _____ day of _____

Clerk's Signature

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Resolution

Proposed No. FCD2021-12.1 **Sponsors**

A RESOLUTION relating to the operations and finances of the District, adopting the 2022 budget and authorizing improvements.

WHEREAS, pursuant to RCW 86.15.140, the King County Flood Control Zone District ("the District") held a public hearing on the proposed 2022 budget of the District on _____, 2021, and

WHEREAS, the board of supervisors ("the Board") desires to adopt the King County Flood Control Zone District's 2022 budget, and

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

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

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

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

WHEREAS, the Board desires to approve improvements in the District's 2022 budget that are not in the District Comprehensive Plan, or that have been modified by the District's 2022 budget, in accordance with RCW 85.15.110;

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

SECTION 1. The Board hereby adopts the 2022 Budget for the District, as set forth in Attachments A ("Work Program"), B ("2022 Annual Budget"), C ("2022 Annual Operating Budget"), D ("2022 Annual Capital Budget"), E ("2022 - 2027 Six-Year CIP"), F ("2022 Annual District Oversight Budget") and H ("2022-2027 Six-Year CIP Project Allocations") to this resolution; provided that King County, or other jurisdictions contracted to implement projects, work shall submit predesign reports for capital projects to the District executive director, and shall seek approval from the executive director of project charters. Furthermore, King County and other service providers as appropriate shall provide to the District executive director thirty percent design project reports for authorization to proceed with sixty percent design, sixty percent design project reports for authorization to proceed to ninety percent design, and ninety percent design project reports for authorization to proceed to one hundred percent design.

SECTION 2. The Board approves the extension, enlargement, acquisition or construction, as applicable, of the improvements that are included in the District Comprehensive Plan, that are included in the District Comprehensive Plan but have been modified by Attachments C, D and H to this resolution, or that are not included in the

District Comprehensive Plan but are identified in Attachments C, D and H to this resolution (collectively, "the Improvements"). The District Comprehensive Plan includes the streams or water courses upon which the Improvements will be enlarged, extended, acquired or constructed. The Board determines that the Improvements generally contribute to the objectives of the District Comprehensive Plan and will be of benefit to the county as a whole.

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

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

SECTION 5. The Board reiterates its commitment to educating residents of King County about the dangers of dam failure and directs the District executive director to continue to work with the King County office of emergency management on a dam education and outreach program.

SECTION 6. The Board directs District executive director to work with King County water and land resources division to provide a quarterly report on the progress of the Sammamish River Capital Investment Strategy to interested stakeholders.

SECTION 7. The Board directs the District executive director to provide the members of the District Advisory Committee with briefings related to the nexus between flood risk reduction and equity and social justice.

SECTION 8. The Board directs the District executive director and King County

water and land resources division to provide regular updates to and seek the advice of the members of the District Advisory Committee related to the update of the 2006 King County Flood Hazard Management Plan.

SECTION 9. The Board directs the District executive director to provide members of the District Advisory Committee regular reports on capital and financial projections, including additional information on the "right-sizing" process for expenditure projections for all District service providers.

SECTION 10. The Board directs the District executive director and King County water and land resources division to continue to implement the elements of FCDECM2021-03.

SECTION 11. The Board directs King County water and land resources division to provide a monthly report to the District executive director of the status of acquisitions of property necessary to implement capital projects identified in Attachment H to this resolution.

SECTION 12. The Board directs the District executive director to develop options relating to the creation of a monitoring trigger in the District's fund balance policy to ensure the fund balance and new revenue are sufficient to cover future capital and operating needs.

SECTION 13. The Board directs King County water and land resources division to provide a monthly report to the District executive director on the status of inspections of all facilities monitored and maintained by King County as a service provider to the District.

SECTION 14. The Board directs King County water and land resources division to provide a monthly report to the executive director on the status of recruitment and hiring of all vacant positions funded by the District.

SECTION 15. The Board directs King County water and land resources division to provide a quarterly report to the District executive director on the status of progress on items in the Work Program as set forth in Attachment A to this resolution.

SECTION 16. Section 3.6 of the interlocal agreement between the District and King County provides that King County shall notify the District executive director in writing if the county needs to modify or reprioritize capital projects. King County's notifications to the District executive director should include information regarding variations within project budgets of more than twenty percent in the "acquisition,"

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

KING COUNTY FLOOD CONTROL ZONE DISTRICT
KING COUNTY, WASHINGTON

_____

ATTEST: Dave Upthegrove, Chair

_____

Melani Pedroza, Clerk of the District

Attachments: A. King County Flood Control District 2022 Work Program, B. 2022 Annual Budget, C. 2022 Annual Operating Budget, D. 2022 Annual Capital Budget, E. 2022 - 2027 Six-Year CIP, F. 2022 Annual District Oversight Budget, H. 2022 - 2027 Six-Year CIP Project Allocations

Attachment A
2022 Budget Work Program
10/06/2021

King County Flood Control District 2022 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)

2022 Priorities:

<u>Management & Budget</u>
- Seek federal assistance with US Army Corps issues
- Align capital expenditure schedules
- Provide budget issue requests to Advisory Committee
- Examining how to increase efficiency and efficacy in flood control capital project planning and delivery

<u>Policy Development</u>
- Develop policy framework for monitoring and maintaining flood protection facilities
- Equity and Social Justice Policy
- Recreation Policy

- Flood Hazard Management Plan
- Fund Balance Policy

Capital Projects
- Align budgeted versus actual expenditures for service providers
- Reports from WLRD 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

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 breech
- Evaluation of climate change scenarios in partnership with the University of Washington
- Small stream flood studies

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 Sates 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 o
            Pre-project baseline information o
            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

2022 Annual Budget

Attachment B

10/4/2021

Program	2020 Actuals	2021 Approved	2021 Revised	2022 Requested
Flood District Administration	1,917,031	2,338,637	2,338,637	2,338,637
Maintenance and Operation	10,637,693	13,171,717	14,146,717	16,313,808
Construction and Improvements	66,157,584	124,690,145	255,030,682	132,843,015
Bond Retirement and Interest	$0	$0	$0	$0
Total	78,712,309	140,200,499	271,516,035	151,495,460
Projected Capital Reserves - Cash Fund Balance [1]	75,948,139	75,058,885	72,832,891	62,681,152
Projected Capital Reserves - Budgetary Fund Balance [2]	(66,169,963)	(57,566,151)	(133,122,796)	(221,360,559)

[1] The cash fund balance assumes an expenditure rate of 16% of the capital budget in 2022, informed by prior year actuals.

[2] The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand budgetary commitment.

King County Flood Control District

2022 Annual Operating Budget

Attachment C

10/4/2021

	2020 Actuals	2021 Approved	2021 Revised	2022 Requested
Annual Maintenance	1,612,068	2,370,715	2,370,715	2,533,518
Flood Hazards Plan, Grants, Outreach	470,235	512,619	787,619	575,653
Flood Hazard Studies, Maps, Technical Services	1,354,528	2,261,254	2,961,254	5,065,964
Flood Preparation, Flood Warning Center	959,480	1,032,536	1,032,536	1,048,487
Program Management, Supervision, Finance, Budget	1,903,629	1,913,982	1,913,982	1,971,187
Program Implementation	1,110,113	1,826,273	1,826,273	1,921,599
Overhead / Central Costs	3,227,641	3,254,337	3,254,337	3,197,399
Total	**10,637,693**	**13,171,717**	**14,146,717**	**16,313,808**

King County Flood Control District

2022 Annual Capital Budget

Attachment D

10/4/2021

Basin	Acquisition	Design	Construction	Contingency	Total
Snoqualmie River Basin	8,856,292	2,886,974	1,365,005	-	13,108,271
Cedar River Basin	1,600,000	14,629,842	8,820,174	-	25,050,016
Green River Basin	5,000,000	12,801,588	55,788,785	-	73,590,373
White River Basin	-	583,755	238,186	-	821,941
Effectiveness Monitoring	-	850,701	-	-	850,701
Countywide Miscellaneous	-	100,000	-	-	100,000
Opportunity Fund	-	6,012,016	-	-	6,012,016
Grant Fund	22,309,697	(6,000,000)	(3,000,000)	-	13,309,697
Total	**37,765,989**	**31,864,876**	**63,212,150**	**-**	**132,843,015**

King County Flood Control District

2022 - 2027 Six-Year CIP

Attachment E

10/4/2021

Name	2020 Actuals	2021 Approved	2021 Revised	2022 Requested	2023	2024	2025	2026	2027	2022 - 2027 Total
Snoqualmie River Basin	6,567,209	16,770,601	29,039,975	13,108,271	23,223,953	23,574,604	29,724,212	24,703,408	9,183,026	123,517,474
Cedar River Basin	10,597,024	19,809,781	35,863,443	25,050,016	13,056,266	15,785,637	7,200,077	3,710,000	3,200,000	68,001,996
Green River Basin	30,644,557	57,965,522	120,124,569	73,590,373	40,123,525	91,044,032	33,440,065	9,746,756	15,667,592	263,612,343
White River Basin	1,758,353	942,719	2,195,662	821,941	2,450,752	8,057,482	7,051,257	135,941	1,000,000	19,517,373
Effectiveness Monitoring	710,111	1,214,460	1,692,649	850,701	1,191,950	1,064,100	815,500	628,200	608,500	5,158,951
Countywide Miscellaneous	304,788	250,000	1,847,445	100,000	350,000	350,000	350,000	350,000	350,000	1,850,000
Subregional Opportunity Fun	7,398,123	5,974,680	21,161,838	6,012,016	6,092,142	6,170,764	6,247,632	6,324,334	6,408,362	37,255,250
Grants Programs	8,177,420	21,762,382	43,105,101	13,309,697	22,870,776	23,445,966	24,035,621	24,640,106	25,259,794	133,561,960
Total	66,157,584	124,690,145	255,030,682	132,843,015	109,359,364	169,492,585	108,864,364	70,238,745	61,677,274	652,475,347

King County Flood Control District

2022 Annual District Oversight Budget

Attachment F

10/4/2021

	2021 Approved	2021 Revised	2022 Requested
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	401,131
Expenses	19,572	19,572	19,572
Insurance	84,227	84,227	84,227
Total	**2,338,637**	**2,338,637**	**2,338,637**

King County Flood Control District

2022 - 2027 Six-Year CIP Project Allocations

Attachment H

10/4/2021

Capital Investment Strategy Project
Grant/External Revenue Awarded
Cost Share Contribution to Others
Added in 2021
Proposed New Add in 2022

No.	Title	Basin	Type of project	2020 Inception to Date Expenditure	2021 Inception to Date Budget	2021 Available Budget	2022 Requested	2023 Forecasted	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 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	FCD Acqu/Elev	$2,879,041	$4,129,041	$1,250,000	$800,000	$800,000	$800,000	$800,000	$800,000	$800,000	$4,800,000			$8,929,041	Baring. This project will elevate or buyout individual structures in the South Fork Skykomish Basin to eliminate the risk of flooding or erosion damage during future flood events. Assumes one home per year.
2	WLFL0 SKYKOMISH LB DOWN 2016 REPAIR	SF Skykomish	FCD Const	$85,402	$150,000	$64,599	$0	$0	$0	$0	$0	$0	$0			$150,000	Skykomish. Complete.Approximately 50-foot-long section of missing armor rock immediately downstream of the bridge. Further flooding may compromise or severely damage facility.
3	WLFL0 TIMBER LN EROSN BUYOUTS	SF Skykomish	FCD Acqu/Elev	$1,972,095	$2,472,095	$500,000	$340,000	$800,000	$800,000	$800,000	$800,000	$800,000	$4,340,000			$6,812,095	Skykomish. This project will continue to acquire and remove homes along a stretch of the Skykomish River that are endangered by erosive forces as well as inundation in some places.Assumes one home per year.
4	WLFL0 TIMBERLANE 2016 REPAIR	SF Skykomish	FCD Const	$13,131	$16,040	$2,909	$0	$0	$0	$0	$0	$0	$0			$16,040	Skykomish. Complete. Project will lay back the privately-built rockery to reconstruct rock wall into stable revetment geometry.
5	WLFL0 TIMBERLANE 2019 REPAIR	SF Skykomish	FCD Const	$304,972	$700,924	$395,952	$0	$0	$0	$0	$0	$0	$0			$700,924	Skykomish. 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.
6	WLFL1 428TH AVE SE BR FEASIBILITY	Upper Snoq	FCD Const	$309,756	$309,756	$0	$0	$0	$0	$0	$0	$0	$0			$309,756	North Bend. Reduce neighborhood isolation from flooding. Develop a set of alternatives for improvements to 428th Avenue SE, SE 92nd Street, and Reinig Road to reduce the frequency of community isolation caused by floodwaters overtopping these roadways.
7	WLFL1 BENDIGO UPR SETBACK NORTH BEND	Upper Snoq	Agreement	$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.
8	WLFL1 CIRCLE RVR RANCH RISK RED	Upper Snoq	FCD Const	$766,017	$993,617	$227,600	$196,305	$193,500	$145,695	$3,023,030	$0	$0	$3,558,530			$4,552,147	North Bend. This project will determine a preferred action to reduce long term risks from channel migration in the Circle River Ranch Neighborhood on the South Fork Snoqualmie River. Being conducted concurrent with South Fork Snoqualmie Corridor Plan.
9	WLFL1 CITY SNOQ HOME ELEVATIONS	Lower Snoq	Agreement		$1,468,000	$1,468,000	$0	$0	$0	$0	$0	$0	$0			$1,468,000	City of Snoqualmie. Elevate several flood-prone homes in the areas around Walnut St and Northern St.
10	WLFL1 MASON THORSON ELLS 2022 REPAIR	Lower Snoq	FCD Const			$0	$105,000	$0	$0	$0	$0	$0	$105,000			$105,000	North Bend. 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.
11	WLFL1 MF FLOOD CONVEYANCE N BEND	Upper Snoq	Agreement		$150,000	$150,000	$150,000	$1,500,000	$0	$0	$0	$0	$1,650,000			$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.
12	WLFL1 MF RESIDENTIAL FLD MTGTN	Upper Snoq	FCD Acqu/Elev	$4,462	$404,462	$400,000	$2,887,769	$2,887,769	$1,830,000	$2,265,000	$2,265,000	$0	$12,135,538			$12,540,000	North Bend. Work with willing sellers to acquire eighteen homes at risk from channel migration along the Middle Fork (Project C in the Capital Investment Strategy)
13	WLFL1 MF SNO CORRIDOR PLAN	Upper Snoq	FCD Const	$1,705,594	$1,852,497	$146,903	$0	$0	$0	$0	$0	$0	$0			$1,852,497	North Bend. Middle Fork Snoqualmie Corridor Planning, completed in 2020.
14	WLFL1 MF SNO PL84-99	Upper Snoq	FCD Const		$0	$0	$0	$0	$0	$0	$0	$0	$0			$0	North Bend. Upgrade the Middle Fork Snoqualmie levees to meet the US Army Corps of Engineers PL84-99 certification standards.
15	WLFL1 NORMAN CREEK DS CULV	Upper Snoq	Agreement	$722,080	$724,000	$1,920	$0	$0	$0	$0	$0	$0	$0			$724,000	North Bend. 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.
16	WLFL1 NORMAN CREEK US 2024 CULV	Upper Snoq	Agreement		$0	$0	$0	$350,000	$750,000	$0	$0	$0	$1,100,000			$1,100,000	North Bend. Improve SE 92nd Street, east of 428th Street, and alleviate roadway flooding by installing a new box culvert.
17	WLFL1 NORTH FORK BRIDGE FEASIBILITY	Upper Snoq	Agreement	$32,554	$464,583	$432,030	$0	$0	$0	$0	$0	$0	$0			$464,583	North Bend. Initiate feasibility study to mitigate the risk of scour damage to the North Fork Bridge by retrofitting the existing structure with deep foundations or alternative risk mitigation strategies.
18	WLFL1 RECORD OFFICE 2016 REPAIR	Upper Snoq	Agreement	$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, construction is scheduled for 2021.
19	WLFL1 REIF RD LEVEE IMPROVEMENTS	Upper Snoq	FCD Const		$0	$0	$0	$265,438	$318,421	$385,937	$457,218	$0	$1,427,014			$1,427,014	North Bend. Conduct a feasibility study to determine ways of preventing the overtopping of the Reif Rd Levee. Potential solutions include: repair and/or raise levee in place / setback levee / gravel removal / home elevations.

No.	Title	Basin	Type of project	2020 Inception to Date Expenditure	2021 Inception to Date Budget	2021 Available Budget	2022 Requested	2023 Forecasted	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
20	WLFL1 REINIG RD ELEVATION	Upper Snoq	Agreement	$394	$394	$0	$0	$0	$50,000	$100,000	$0	$0	$150,000			$150,394	Snoqualmie. Elevate low section of Reinig Rd to alleviate flooding that blocks roadway.
21	WLFL1 REINIG RD RVTMNT 2016 REPAIR	Upper Snoq	FCD Const	$1,259,015	$5,730,915	$4,471,900	$655,000	$20,000	$0	$0	$0	$0	$675,000			$6,405,915	North Bend. Repair three primary damage sites just upstream and directly across from the South Fork Snoqualmie confluence totaling ~285 lineal feet. Construction is anticipated in 2021.
22	WLFL1 RIBARY CREEK N BEND	Upper Snoq	Agreement	$9,885	$636,492	$626,607	$316,168	$1,170,761	$4,998,233	$0	$0	$0	$6,485,161			$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.
23	WLFL1 SF CIS LONG TERM	Upper Snoq	FCD Const			$0	$0	$0	$0	$0	$0	$0	$0		$57,100,000	$57,100,000	North Bend. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
24	WLFL1 SF CIS MED TERM	Upper Snoq	FCD Const			$0	$0	$0	$0	$0	$0	$0	$0	$47,200,000		$47,200,000	North Bend. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
25	WLFL1 SF SNO LEVEE REMEDIATION	Upper Snoq	FCD Const	$209,704	$209,704	$0	$5,022	$0	$0	$0	$0	$0	$5,022			$214,726	North Bend. Six levee deficiencies have been identified in this leveed segment. The project will design and reconstruct the impaired segment of levee in place.
26	WLFL1 SHAKE MILL LB 2016 REPAIR	Upper Snoq	FCD Const	$2,918,260	$3,139,161	$220,901	$0	$0	$0	$0	$0	$0	$0			$3,139,161	North Bend. 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.
27	WLFL1 SHAKE MILL RB 2016 REPAIR	Upper Snoq	FCD Const	$612,229	$667,229	$55,000	$5,000	$0	$0	$0	$0	$0	$5,000			$672,229	North Bend. Between 428th St Bridge and Tate Creek, several locations on levee where toe-rock dislodged and corresponding minor bank erosion along 50-60 feet of river bank. Actual gaps range between 6-10 feet. Missing toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure. Failure of this facility could result in damage to a heavily used county road (428th Ave SE).
28	WLFL1 SI VIEW RM4 2017 REPAIR	Upper Snoq	FCD Const	$296,181	$396,754	$100,573	$0	$0	$0	$0	$0	$0	$0			$396,754	North Bend. Complete. Repair approximately 25 lineal feet of the facility with missing toe rock and shallow scour scallop into bank that is approximately 1-2 feet deep. Si View Levee is a relatively short flood containment levee that protects 50+ homes in the Si View Park Neighborhood of North Bend from flooding.
29	WLFL1 SR202 SF BRIDGE LENGTHEN	Upper Snoq	FCD Const		$0	$0	$0	$0	$0	$0	$0	$100,000	$100,000			$100,000	North Bend. 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 North Bend. Requires state or federal funding. Relative contribution of this project is being evaluated in the SF Snoqualmie Corridor Plan.
30	WLFL1 TATE CR SCOUR FEASIBILITY	Upper Snoq	Agreement		$0	$0	$0	$150,000	$0	$0	$0	$0	$150,000			$150,000	North Bend. 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.
31	WLFL1 UPR SNO RES FLD MITIGTN	Upper Snoq	FCD Acqu/Elev	$12,196,349	$13,306,349	$1,110,000	$3,714,000	$1,957,361	$2,016,081	$2,076,564	$2,138,861	$2,203,026	$14,105,893			$27,412,242	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.
32	WLFL1 USACE PL 84-99 UPPER SNO	Upper Snoq	FCD Const	$90,071	$285,136	$195,065	$378,458	$0	$0	$0	$0	$0	$378,458			$663,594	North Bend. Ensure eleven South Fork Snoqualmie River levees meet the standards of the US Army Corps of Engineers PL 84-99 program in order to receive future assistance from the Corps in the event of flood damage to the levees.
33	WLFL2 264TH AVE NE AT SR 202 FLD IMPRVMNT	Lower Snoq	Agreement		$0	$0	$0	$0	$0	$540,000	$0	$0	$540,000			$540,000	Redmond. Alleviate flooding on this sole access road by replacing the existing culverts and raising the roadway to elminate over-topping during flood events.
34	WLFL2 334TH AVE SE & SE 43RD PL FLD IMPRVMNT	Lower Snoq	Agreement		$0	$0	$0	$0	$0	$500,000	$0	$0	$500,000			$500,000	Fall City. Improve drainage to alleviate neighborhood flooding by constructing a drainage system to flow to the Snoqualmie River.
35	WLFL2 DUTCHMAN RD REPAIR	Lower Snoq	FCD Const	$62,471	$474,401	$411,930	$484,752	$1,479,035	$6,404,174	$19,000	$0	$0	$8,386,961			$8,861,362	Duvall. Repair approximately 200 feet of revetment. Dutchman Road in this location provides the sole access to residences and business on the west side of the Snoqualmie Valley downstream of Duvall. Continued erosion of the revetment could result in erosion of the road (West Snoqualmie Valley Road NE) which would severely limit access to the downstream property owners during or following a flood event.
36	WLFL2 DUVALL SLOUGH 2017 IMPRV	Lower Snoq	Agreement	$277,937	$277,937	$0	$0	$0	$0	$0	$0	$0	$0			$277,937	Duvall. Complete. These two bridges are subject to having the roadway approach fill wash out during a flood. Excavate approaches and rebuild approaches to prevent loosing approaches during flooding. A similar repair was done on Woodinville-Duvall Bridge No. 1136D.
37	WLFL2 FALL CITY FLOODPLAIN RESTORATION	Lower Snoq	Agreement		$300,000	$300,000	$0	$0	$0	$0	$0	$0	$0			$300,000	Fall City. 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.
38	WLFL2 FARM FLOOD TSK FORCE IMP	Lower Snoq	FCD Acqu/Elev	$838,251	$979,803	$141,552	$0	$0	$0	$0	$0	$0	$0			$979,803	Carnation. 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.
39	WLFL2 FISH HATCHERY RD BR #61B REPAIR	Lower Snoq	Agreement	$43,801	$514,000	$470,199	$0	$0	$0	$0	$0	$0	$0			$514,000	Duvall. Strengthen the bridge structure to stabilize it after the most recent flood event, rebuild the east approach roadway to address the current issue and to protect it against major flood events in the future, and restore the eroded creek bed and riverbank profile to buffer the bridge against scour.
40	WLFL2 JOY 2020 REPAIR	Lower Snoq	FCD Const	$35,882	$600,000	$564,118	$500,000	$2,620,000	$0	$0	$0	$0	$3,120,000			$3,720,000	Duvall. 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 Duvall. Bank erosion is undermining an existing road.

No.	Title	Basin	Type of project	2020 Inception to Date Expenditure	2021 Inception to Date Budget	2021 Available Budget	2022 Requested	2023 Forecasted	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
41	WLFL2 L SNO 2019 BANK REPAIR	Lower Snoq	Agreement	$1,074,203	$2,200,000	$1,125,797	$0	$0	$0	$0	$0	$0	$0			$2,200,000	Fall City. 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.
42	WLFL2 L SNO REP LOSS MITGTION	Lower Snoq	FCD Acqu/Elev	$1,279,468	$1,279,468	$0	$0	$0	$0	$0	$0	$0	$0			$1,279,468	Carnation. Funding as possible local match for FEMA grants to elevate or acquire at-risk structures.
43	WLFL2 L SNO SCOUR REPAIR 2017	Lower Snoq	Agreement	$142,411	$142,411	$0	$0	$0	$0	$0	$0	$0	$0			$142,411	Fall City. Complete. The foundation of the main-span pier is exposed and is vulnerable to destabilization during a flood. Add scour mitigation measures to protect footing. Bridge crosses the Snoqualmie River at Duvall and is the city's primary route.
44	WLFL2 L SNO/ALDAIR CORRDOR PLN	Lower Snoq	FCD Const	$7,027,058	$7,089,214	$62,156	$0	$0	$0	$0	$0	$0	$0			$7,089,214	Fall City. Cost-shared contribution to multiple levee setbacks and high priority flood risk reduction acquisitions in the Fall City reach of the Lower Snoqualmie. Projects reduce flood and erosion risk to revetments, roads, and landowners. FCD expenditure leverages habitat restoration funding from other sources.
45	WLFL2 LWR SNO RESDL FLD MITGTN	Lower Snoq	FCD Acqu/Elev	$2,256,127	$3,316,472	$1,060,345	$59,655	$1,000,000	$500,000	$500,000	$500,000	$500,000	$3,059,655			$6,376,127	Carnation: 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.
46	WLFL2 MUD CREEK SEDIMENT FACILITY	Lower Snoq	FCD Const		$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.
47	WLFL2 SE 19TH WAY REVETMENT	Lower Snoq	FCD Const	$1,838,512	$1,916,294	$77,782	$0	$0	$0	$0	$0	$0	$0			$1,916,294	Fall City. Complete. Rebuild revetment to protect road access to high value agricultural operations and lands. Construction is complete.
48	WLFL2 SNOQUALMIE VALLEY FEAS	Lower Snoq	Agreement		$250,000	$250,000	$151,000	$99,000	$0	$0	$0	$0	$250,000			$500,000	Duvall. Regional flooding in the Snoqualmie Valley cuts off access to eastern cities. Determine which major roadway(s) that cross the Snoqualmie Valley would be the most cost effective to improve in the valley with chronic flood issues impacting over 25,000 daily drivers.
49	WLFL2 STOSSEL LONG TERM REPAIR	Lower Snoq	FCD Const	$16,598	$450,000	$433,402	$86,598	$2,968,000	$12,000	$0	$0	$0	$3,066,598			$3,516,598	Carnation. Placeholder costs for long-term facility improvement project to prevent erosion undermining 310th Ave NE.
50	WLFL2 STOSSEL RB 2018 REPAIR	Lower Snoq	FCD Const	$1,023,994	$1,107,886	$83,892	$0	$0	$0	$0	$0	$0	$0			$1,107,886	Carnation. This completed project repaired approximately 250 feet of damage identified in late March 2018 to a section of the Stossel Bridge Right Bank Revetment on the Snoqualmie River, downstream of the City of Carnation.
51	WLFL2 TOLT PIPELINE PROTECTION	Lower Snoq	FCD Const	$10,694,001	$10,778,068	$84,067	$0	$0	$0	$0	$0	$0	$0			$10,778,068	Carnation. 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 Duvall. Construction is complete.
52	WLFL3 FREW LEVEE 2016 REPAIR	Tolt	FCD Const	$168,880	$360,360	$191,480	$0	$0	$0	$0	$0	$0	$0			$360,360	Carnation. Complete. Face rock displaced along approximately 50 feet of levee face. Some core material appears to have been lost, resulting in an over steepened bank relative to upstream and downstream undamaged levee sections. Top of damaged face approximately 6 feet from edge of gravel trail. Continued erosion will cut off popular riverside trail. Potential impact to highway if facility breaches during a major flood.
53	WLFL3 GIRL SCOUT LEVEE 2016 REPAIR	Tolt	FCD Const	$166,079	$166,079	$0	$0	$0	$0	$0	$0	$0	$0			$166,079	Carnation. Complete. Repair approximately 20 feet of face and toe rock dislodged from Girl Scout Camp levee revetment below side channel confluence with mainstem. Missing face and toe rock compromises levee integrity, increasing its vulnerability to further scour and potential failure.
54	WLFL3 HOLBERG 2019 REPAIR	Tolt	FCD Const		$50,000	$50,000	$200,000	$250,000	$0	$0	$0	$0	$450,000			$500,000	Carnation. Facility failure has consequences for property owners immediately landward of facility. Potential for high flows and erosive damage to residences and property.
55	WLFL3 HOLBERG FEASIBILITY	Tolt	FCD Const	$285,819	$412,149	$126,330	$0	$0	$0	$0	$0	$0	$0			$412,149	Carnation. 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
56	WLFL3 LOWER FREW LEVEE SETBACK	Tolt	FCD Const	$221,096	$1,015,777	$794,681	$105,319	$750,000	$750,000	$14,644,681	$50,000	$0	$16,300,000			$17,315,777	Carnation. 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
57	WLFL3 LOWER TOLT RIVER ACQUISITION	Tolt	FCD Acqu/Elev	$532,475	$1,379,475	$847,000	$150,000	$200,000	$200,000	$645,000	$550,000	$550,000	$2,295,000			$3,674,475	Carnation. Acquire high-priority flood risk reduction properties in the lower two miles of the Tolt River consistent with the adopted Capital Investment Strategy.
58	WLFL3 REMLINGER LEVEE 2017 REPAIR	Tolt	FCD Const	$143,033	$311,000	$167,967	$0	$0	$0	$0	$0	$0	$0			$311,000	Carnation. Complete. Damage is approximately 60 lineal feet of the facility with missing toe rock and undermined face rock near the Snoqualmie Valley Trail. The damage is at the downstream end of Remlinger facility and a breach or continued erosion would increase flooding impacts on portions of the Remlinger property.
59	WLFL3 RIO VISTA PROPERTY ACQ	Tolt	FCD Acqu/Elev	$656,331	$3,070,203	$2,413,872	$397,128	$1,750,000	$1,750,000	$1,750,000	$0	$0	$5,647,128			$8,717,331	Carnation. Capital Investment Strategy: Acquire 2 at-risk homes per year from willing sellers; acquire remaining 14 homes as funds become available.
60	WLFL3 SAN SOUCI NBRHOOD BUYOUT	Tolt	FCD Acqu/Elev	$5,046,463	$5,199,674	$153,211	$0	$346,789	$0	$0	$0	$0	$346,789			$5,546,463	Carnation. This project will buyout remaining properties and remove all homes and privately-constructed rubble levee at upstream end of the community access road, ultimately completing project initiated 20 years ago by others. Approximatlely 20 homes removed from high hazard areas within and just upstream and downstream of San Souci neighborhood.
60	WLFL3 TOLT R RD ELEV SAN SOUCI	Tolt	FCD Const		$25,000	$25,000	$700,000	$700,000	$800,000	$25,000	$0	$0	$2,225,000			$2,250,000	Carnation. Capital Investment Strategy: Construct Tolt Road NE road elevation in one location. Remove illegal revetment and roads in San Souci neighborhood.
61	WLFL3 SEDIMENT MGMT FEAS	Tolt	FCD Const	$174,823	$263,706	$88,883	$0	$0	$0	$0	$0	$0	$0			$263,706	Carnation. Capital Investment Strategy: Conduct sediment management feasibility study and develop a plan. Update and include upper watershed sediment production estimates.

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62	WLFL3 SR 203 BR IMPRVMNTS FEAS	Tolt	FCD Const	$30,706	$395,900	$365,194	$0	$0	$0	$0	$0	$0	$0			$395,900	Carnation. 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.
63	WLFL3 TOLT CIS LONG TERM	Tolt	FCD Const			$0	$0	$0	$0	$0	$0	$0	$0		$28,800,000	$28,800,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
64	WLFL3 TOLT CIS MED TERM	Tolt	FCD Const			$0	$0	$0	$0	$0	$0	$0	$0	$56,250,000		$56,250,000	Carnation. Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
65	WLFL3 TOLT CORRIDOR PLAN	Tolt	FCD Const	$1,139,227	$1,153,657	$14,430	$0	$0	$0	$0	$0	$0	$0			$1,153,657	Carnation. The corridor plan for the lower 6 miles of the Tolt River will develop a prioritized implementation strategy for near-term and long-term floodplain management actions.
66	WLFL3 TOLT R LEVEE L.O.S. ANALYSIS	Tolt	FCD Const	$575,785	$941,815	$366,030	$54,357	$0	$0	$0	$0	$0	$54,357			$996,172	Carnation. Capital Investment Strategy: Conduct a detailed hydraulic analysis to optimize the elevation of new levees to maximize flood risk reduction benefits
67	WLFL3 TOLT R MILE 1.1 ACQ	Tolt	FCD Acqu/Elev	$4,214,977	$4,214,977	$0	$0	$0	$0	$0	$0	$0	$0			$4,214,977	Carnation. Acquisition funding for high risk properties in levee setback project area. Project priorities will be determined by the Board through adoption of the Tolt Corridor Plan.
68	WLFL3 TOLT R NATURAL AREA ACQ	Tolt	FCD Acqu/Elev	$2,614,518	$4,814,518	$2,200,000	$107,740	$700,000	$0	$0	$0	$0	$807,740			$5,622,258	Carnation. Capital investment strategy: acquire at-risk homes from willing sellers.
69	WLFL3 TOLT R RD ELEVATION FEASIBILITY	Tolt	FCD Const	$67,917	$250,000	$182,083	$0	$0	$0	$0	$0	$0	$0			$250,000	Carnation. Reduce neighborhood isolation from flooding. Evaluate feasibility of elevating sections of Tolt River Road.
70	WLFL3 TOLT R RD NE IMPROVEMENTS	Tolt	FCD Const		$0	$0	$0	$91,301	$250,000	$150,000	$2,342,329	$30,000	$2,863,630			$2,863,630	Carnation. Capital Investment Strategy: Initiate design for elevation of one road location to reduce or eliminate isolation. Implement additional road elevations as funds become available.
71	WLFL3 UPPER FREW LEVEE SETBACK	Tolt	FCD Const		$50,000	$50,000	$159,000	$175,000	$1,200,000	$1,500,000	$14,800,000	$0	$17,834,000			$17,884,000	Carnation. Capital Investment Strategy: Initiate the levee setback design in order to apply for grant funding. Levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge.
72	WLFL4 ALPINE MANOR NEIGHBORHOOD BUYOUTS	Raging	FCD Acqu/Elev	$1,753,880	$1,783,810	$29,930	$400,000	$0	$0	$0	$0	$0	$400,000			$2,183,810	Fall City. Acquisition of single-family homes and future acquisition of mobile home park at risk of channel migration along the Raging River in the Alpine Manor neighborhood.
73	WLFL4 RAGING MOUTH TO BR 2017 REPAIR	Raging	FCD Const	$266,859	$266,859	$0	$0	$0	$0	$0	$0	$0	$0			$266,859	Fall City. Complete. Repair 150 lineal feet of discontinuous damage and missing toe rock. The levee protects the landward area from flooding and serves as the road embankment for Dike Rd, an access road to the Fall City boat launch. The damaged levee section is immediately adjacent to the Twin Rivers golf course barn, which would experience greater flooding if the levee were breached.
74	WLFL4 RAGING SCOUR REPAIR 2017	Raging	Agreement	$25,062	$80,000	$54,938	$0	$0	$0	$0	$0	$0	$0			$80,000	Fall City.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.
75	**Snoqualmie-South Fork Skykomish Subtotal**			$71,413,367	$100,453,340	$29,039,975	$13,108,271	$23,223,953	$23,574,604	$29,724,212	$24,703,408	$9,183,026	$123,517,474	$103,450,000	$85,900,000	$413,320,813	
76																	
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78	WLFL5 ALLEN LK OUTLET IMPRVMNT	Sammamish	Agreement	$19,226	$845,000	$825,774	$0	$36,256	$1,500,000	$400,000	$10,000	$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-raining options; prepare Concept Development Report, analyze and select best options.
79	WLFL5 BAYLESS 2020 REPAIR	Sammamish	FCD Const		$50,000	$50,000	$0	$0	$0	$0	$0	$0	$0			$50,000	Issaquah. The Bayless Revetment protects a sole access bridge to a residential community (about 70 homes) in the City of Issaquah. The facility was flanked and/or overtopped during the flood resulting in flooding of the low lying Sycamore neighborhood in the City of Issaquah behind the revetment. Continued erosion may result in damage to the bridge and ongoing flooding to the neighborhood.
80	WLFL5 GEORGE DAVIS CRK CITY OF SAMMAMISH	Sammamish	Agreement		$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.
81	WLFL5 IRWIN R 2020 REPAIR	Sammamish	FCD Const	$16,197	$300,000	$283,803	$0	$15,000	$0	$0	$0	$0	$15,000			$315,000	Issaquah. Further damage to the facility could cut off the sole access to one resident (via a private road and bridge over the creek).
82	WLFL5 ISSAQUAH CREEK CIS	Sammamish	FCD Const			$0	$300,000	$700,000	$300,000	$0	$0	$0	$1,300,000			$1,300,000	Issaquah. Further damage to the facility could cut off the sole access to one resident (via a private road and bridge over the creek).
83	WLFL5 JEROME 2020 REPAIR	Sammamish	Agreement	$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.
83	WLFL5 LK SAMMAMISH FLOOD MIT GRANTS	Sammamish	FCD Const				$1,000,000	$0	$0	$0	$0		$1,000,000			$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.
84	WLFL5 MOMB 2020 REPAIR	Sammamish	FCD Const	$2,391	$110,000	$107,609	$142,391	$577,500	$15,000	$0	$0	$0	$734,891			$844,891	Issaquah. 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.
85	WLFL5 SAMMAMISH CIS	Sammamish	FCD Const	$195,121	$445,120	$250,000	$1,307,400	$1,030,409	$27,093	$0	$0	$0	$2,364,902			$2,810,022	Redmond: Identify and prioiritize near-, mid-, and long-term capital projects for Flood Control District funding along the Sammamish River.
86	WLFL5 WILLOWMOOR FLDPLAIN REST	Sammamish	FCD Const	$3,371,525	$4,520,977	$1,149,452	$0	$0	$0	$0	$0	$0	$0			$4,520,977	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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87	WLFL6 148TH AVE SE LARSEN LK BELLEVUE	Lk Wash Tribs	Agreement		$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.
88	WLFL6 BEAR CRK FLOOD EROSION REDMOND	Lk Wash Tribs	Agreement	$128	$1,100,000	$1,099,872	$450,000	$0	$0	$0	$0	$0	$450,000			$1,550,000	Redmond. Protect Avondale Rd from an embankment that has been scoured by floodwaters from Bear Creek.
89	WLFL6 FACTORIA BLVD DRAINAGE	Lk Wash Tribs	Agreement		$4,792,000	$4,792,000	$2,022,000	$0	$0	$0	$0	$0	$2,022,000			$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.
90	WLFL6 ISSAQUAH TRIB FEAS	Lk Wash Tribs	Agreement	$322,547	$350,000	$27,453	$0	$0	$0	$0	$0	$0	$0			$350,000	Issaquah. Prepare a feasibility analysis report which will include, but is not limited to, surveying, geotechnical analysis, traffic analysis, and hydraulic analysis to idenify potential solutions to bridge deficiencies, including a constructed hydraulic opening with piles that collect debris and pose risks to the stability of the bridge.
91	WLFL6 LOWER COAL CRK PH I	Lk Wash Tribs	Agreement	$11,113,877	$11,361,592	$247,715	$200,000	$285,000	$1,310,000	$1,432,358	$0	$0	$3,227,358			$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.
92	WLFL6 MAY VALLEY DRAINAGE IMPRVMNT	Lk Wash Tribs	Agreement	$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.
93	WLFL7 BELMONDO 2020 REPAIR	Cedar	FCD Const	$9,048	$150,000	$140,952	$149,048	$410,000	$15,000	$0	$0	$0	$574,048			$724,048	Renton. 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.
94	WLFL7 BRODELL 2020 REPAIR	Cedar	FCD Const	$9,403	$9,403	$0	$0	$0	$0	$0	$0	$0	$0			$9,403	Renton. 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.
95	WLFL7 BYERS 2020 REPAIR	Cedar	FCD Const	$15,194	$25,000	$9,806	$0	$0	$0	$0	$0	$0	$0			$25,000	Renton. Emergency action to prevent flooding of Byers Road, which is the sole access/egress for numerous residences along the Cedar River.
96	WLFL7 BYERS NEIGHBORHOOD IMPROVEMENTS	Cedar	FCD Const		$220,000	$220,000	$0	$300,000	$50,000	$0	$0	$0	$350,000			$570,000	Renton. 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 2021 in light of changed conditions from the 2020 flood disaster.
97	WLFL7 CDR PRE-CONST STRTGC ACQ	Cedar	FCD Acqu/Elev	$4,269,411	$6,730,532	$2,461,121	$1,600,000	$1,600,000	$1,600,000	$1,600,000	$1,600,000	$1,600,000	$9,600,000			$16,330,532	Renton. 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.
98	WLFL7 CEDAR CIS LONG TERM	Cedar	FCD Acqu/Elev			$0	$0	$0	$0	$0	$0	$0	$0		$35,400,000	$35,400,000	Renton.Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
99	WLFL7 CEDAR CIS MED TERM	Cedar	FCD Acqu/Elev			$0	$0	$0	$0	$0	$0	$0	$0	$22,000,000		$22,000,000	Renton.Implement projects identified in the Capital Investment Strategy, approved as policy direction by the Executive Committee.
100	WLFL7 CEDAR LEVEE SETBACK FEAS (Cedar Corridor	Cedar	FCD Const	$1,853,360	$1,987,587	$134,227	$0	$0	$0	$0	$0	$0	$0			$1,987,587	Renton. 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.
101	WLFL7 CEDAR R DWNSTREAM 2024 IMPV	Cedar	Agreement		$0	$0	$0	$0	$100,000	$0	$0	$0	$100,000			$100,000	Renton. 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.
102	WLFL7 CEDAR RAPIDS ELJ6 2020 REPAIR	Cedar	FCD Const	$13,518	$186,000	$172,482	$5,518	$0	$0	$0	$0	$0	$5,518			$191,518	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.
103	WLFL7 CEDAR RES FLOOD MITIGATION	Cedar	FCD Acqu/Elev	$1,332	$3,074,000	$3,072,668	$0	$1,600,000	$1,600,000	$1,600,000	$1,600,000	$1,600,000	$8,000,000			$11,074,000	Renton. 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.
104	WLFL7 CEDAR RVR GRAVEL REMOVAL	Cedar	Agreement	$10,259,941	$12,835,100	$2,575,159	$0	$0	$403,000	$500,000	$500,000	$0	$1,403,000			$14,238,100	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.
105	WLFL7 CITY OF RENTON LEVEE CERTIFICATION	Cedar	Agreement	$469,072	$5,000,000	$4,530,928	$0	$0	$0	$0	$0	$0	$0			$5,000,000	Renton. Levee improvements necessary to satisfy levee certification engineering recommendations.
106	WLFL7 CRT SITE 2 2020 REPAIR	Cedar	Agreement	$447,793	$1,233,000	$785,207	$0	$0	$0	$0	$0	$0	$0			$1,233,000	Renton. 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."

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107	WLFL7 CRT SITE 5 2020 REPAIR	Cedar	FCD Const	$2,905	$350,000	$347,095	$87,905	$1,070,000	$5,000	$0	$0	$0	$1,162,905			$1,512,905	Renton. 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.
108	WLFL7 CRT SITE A BANK	Cedar	FCD Const	$145,013	$208,302	$63,289	$0	$0	$0	$0	$0	$0	$0			$208,302	Renton. Capital Investment Strategy: Repair eroded section of left bank with bioengineered revetment to stabilize toe of bank and to prevent large scale bank failure. Complete.
109	WLFL7 CRT2 ZONE D 2020 REPAIR	Cedar	Agreement	$449	$193,000	$192,551	$5,142,656	$0	$0	$0	$0	$0	$5,142,656			$5,335,656	Renton. 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.
110	WLFL7 DORRE DON AVULSION ANALYSIS	Cedar	FCD Const	$23,120	$100,000	$76,880	$0	$0	$0	$0	$0	$0	$0			$100,000	Renton. The main channel has avulsed into the previous left floodplain, leading to erosion of the channel bank, adjacent to 231st Pl SE.
111	WLFL7 DORRE DON NBHOOD IMPRVMNT	Cedar	FCD Const		$800,000	$800,000	$0	$0	$0	$0	$0	$0	$0			$800,000	Renton. 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 2021 in light of changed conditions from the 2020 flood disaster.
112	WLFL7 FBD CORRIDOR IMPLEMENTATION	Cedar	FCD Acqu/Elev	$5,836,796	$5,836,796	$0	$0	$0	$0	$0	$0	$0	$0			$5,836,796	Renton. Washington State Floodplains by Design grant from the Department of Ecology. The project will buyout residents in high risk areas, increase the capacity for flood storage, and provide corresponding environmental improvements. The project has cost-share funding from the City of Seattle. Also funds design elements of the Herzman project and Riverbend.
113	WLFL7 HERZMAN LEVEE SETBACK	Cedar	FCD Const	$1,610,209	$2,285,209	$675,000	$1,023,786	$5,088,710	$32,782	$0	$0	$0	$6,145,278			$8,430,487	Renton. Capital Investment Strategy: Setback levee; excavate side-channel to reduce pressure on revetment; reconstruct, reinforce and/or extend revetment; acquire up to 5 properties.
114	WLFL7 ISSAQUAH MAY VALLEY IMPV	Cedar	Agreement	$88,319	$100,000	$11,681	$0	$0	$0	$0	$0	$0	$0			$100,000	Issaquah. 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 Issaquah Hobart Road SE and SE May Valley Road. Complete.
115	WLFL7 JAN ROAD LEVEE SETBACK	Cedar	FCD Const	$1,541,264	$3,649,904	$2,108,640	$9,573,987	$26,204	$0	$0	$0	$0	$9,600,191			$13,250,095	Renton. 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 2021 and other improvements in 2023.
116	WLFL7 LOWER CEDAR FEASIBILITY STUDY	Cedar	Agreement	$9,503	$520,000	$510,497	$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) quantity economic damage potential 2) determine infrastructure modifications to improve flood resiliency and sediment storage potential, and 30 conduct cost-benefit analysis.
117	WLFL7 LOWER JONES ROAD NEIGHBORHOOD	Cedar	FCD Const	$214,203	$1,244,203	$1,030,000	$1,410,000	$160,704	$4,540,762	$1,631,719	$0	$0	$7,743,185			$8,987,388	Renton. 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.
118	WLFL7 MADSEN CR CULVERT 2017	Cedar	Agreement	$3,399,480	$3,326,000	($73,480)	$0	$0	$0	$0	$0	$0	$0			$3,326,000	Renton. To address a culvert failure affecting approximately 10 properties, prepare Concept Development Report to analyze and select best culvert replacement and road-raising option; and analyze upstream and downstream retention/detention impacts.
119	WLFL7 MADSEN CR RENTON	Cedar	Agreement	$144,638	$635,000	$490,362	$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.
120	WLFL7 MAPLEWOOD FEASIBILITY STUDY	Cedar	FCD Const	$463,979	$490,246	$26,267	$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.
121	WLFL7 RIVERBEND MHP ACQ	Cedar	FCD Acqu/Elev	$4,427,587	$5,231,042	$803,455	$0	$0	$0	$0	$0	$0	$0			$5,231,042	Renton. 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.
122	WLFL7 SR 169 FLOOD REDUCTION	Cedar	FCD Const	$677,965	$4,885,254	$4,207,289	$0	$0	$0	$0	$0	$0	$0			$4,885,254	Renton. Conduct feasibility study in coordination with WSDOT to evaluate flood risk reduction opportunities, such as elevating SR 169, upgrading the local drainage infrastructure, and / or installation of back flow prevention gates. Funding added in 2019 pending FCD decision to move forward with preliminary design.
123	WLFL7 TABOR-CROWALL-BRODELL 2020 REPAIR	Cedar	FCD Const	$14,499	$617,014	$602,515	$635,325	$156,483	$4,287,000	$36,000	$0	$0	$5,114,808			$5,731,822	Renton. 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.
124	**Cedar-Sammamish Subtotal**			$51,218,923	$87,482,364	$36,263,443	$25,050,016	$13,056,266	$15,785,637	$7,200,077	$3,710,000	$3,200,000	$68,001,996	$22,000,000	$35,400,000	$212,884,360	
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127	WLFL8 BRISCOE LEVEE SETBACK	Green	Agreement	$21,348,995	$23,330,271	$1,981,276	$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.
128	WLFL8 BRPS CONTROL BLDG RPLCMT	Green	FCD Const	$842,416	$1,002,416	$160,000	$490,862	$506,479	$3,477,822	$971,315	$3,898,218	$4,015,165	$13,359,861			$14,362,277	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.
129	WLFL8 BRPS FISH PASS IMPRVMNTS	Green	FCD Const	$39,144	$939,144	$900,000	$1,420,719	$3,238,220	$9,942,392	$10,127,229	$61,345	$0	$24,789,905			$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.
130	WLFL8 BRPS HIGH-USE ENGINES	Green	FCD Const	$3,782,906	$6,690,325	$2,907,419	$3,837,828	$22,510	$0	$0	$0	$0	$3,860,338			$10,550,663	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.
131	WLFL8 BRPS LARGE ENGINE REPLACEMENT	Green	FCD Const		$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.
132	WLFL8 BRPS SEISMIC UPGRADES	Green	FCD Const		$1,379,170	$1,379,170	$2,397,634	$6,978,155	$11,592,741	$9,252,839	$184,481	$0	$30,405,850			$31,785,020	Renton. This project will strengthen and improve the structure and subsurface soils at the Black River Pump Station.
133	WLFL8 BRPS SUPPORT SYS UPGRADES	Green	FCD Const		$636,540	$636,540	$928,728	$225,102	$1,616,440	$1,664,933	$174,483	$0	$4,609,686			$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.
134	WLFL8 COVINGTON CR BLACK DIAMOND	Green	Agreement		$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.
135	WLFL8 DESIMONE MAJOR REPAIR USACE	Green	Agreement	$116,332	$850,000	$733,668	$6,000,000	$6,600,000	$20,000,000	$6,005,000	$15,000	$0	$38,620,000			$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.
136	WLFL8 DYKSTRA 2022 REPAIR	Green	FCD Const				$50,000	$100,000	$250,000	$0	$0	$0	$400,000			$400,000	Auburn: New flood damage repair project. Address scour and bank erosion and missing toe rock upstream of 2015 Corps of Engineers repair.
136	WLFL8 FORT DENT 2020 REPAIR	Green	FCD Const	$13,498	$250,000	$236,502	$328,710	$311,109	$2,611,000	$6,556	$0	$0	$3,257,375			$3,507,375	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.
137	WLFL8 FORT DENT US 2021 REPAIR	Green	FCD Const		$398,825	$398,825	$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.
138	WLFL8 GALLI-DYKSTRA 2020 REPAIR	Green	FCD Const	$356,094	$1,167,211	$811,117	$0	$0	$0	$0	$0	$0	$0			$1,167,211	Auburn. Complete Phase 1 repair per a request from the City of Auburn. Elevate 3500 feet levee reach to meet FEMA levee certification requirements.
139	WLFL8 GALLI-DYKSTRA FEASIBILITY	Green	FCD Const		$9,940	$9,940	$0	$0	$0	$0	$0	$0	$0			$9,940	Auburn. Conduct a feasibility study to raise the levee providing 100-year flood protection plus 3 feet of freeboard. Canceled and incorporated into Galli-Dykstra 2020 Repair.
140	WLFL8 GREEN PRE-CONST ACQ	Green	FCD Acqu/Elev	$4,079,197	$12,577,724	$8,498,527	$5,000,000	$5,000,000	$5,000,000	$5,000,000	$5,000,000	$5,000,000	$30,000,000			$42,577,724	Auburn, Kent, Renton, 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.
141	WLFL8 GREEN R IMPROVEMENT 2024	Green	Agreement		$0	$0	$0	$0	$100,000	$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.
142	WLFL8 GREEN R PL84-99 MITIGATN	Green	FCD Const	$5,271,305	$5,273,368	$2,063	$0	$0	$0	$0	$0	$0	$0			$5,273,368	Auburn. This project will result in actions to mitigate environmental damage from tree cutting during 2008-9 (as required by permitting agencies) to maintain eligibility for US Army Corps of Engineers PL84-99 program.
143	WLFL8 GREEN SCOUR REPAIR 2017	Green	Agreement	$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.
144	WLFL8 HSB BREDA SETBACK KENT	Green	Agreement	$930,509	$1,930,509	$1,000,000	$5,200,000	$7,900,000	$400,000	$0	$0	$0	$13,500,000			$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.
145	WLFL8 HSB MCCOY REALIGNMENT USACE	Green	Agreement	$4,244	$516,138	$511,894	$0	$2,188,106	$700,000	$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.
146	WLFL8 INTERIM SWIF IMPLEMENTATION	Green	FCD Const	$83,675	$83,675	$0	$0	$0	$0	$0	$0	$0	$0			$83,675	Auburn, Kent, Renton, Tukwila. Coordination and planning activities to implement recommendations of interim SWIF. Maintenance work associated with the interim SWIF is included in the operating budget.
147	WLFL8 KENT AIRPORT RVTMNT 2022 REPAIR	Green	FCD Const		$0	$0	$100,000	$350,000	$0	$0	$0	$0	$450,000			$450,000	Kent: New flood damage repair project. Stabilize over steepened bank and rock revetment that has been undercut by rotational bank failure.
147	WLFL8 LONES LEVEE SETBACK	Green	Agreement		$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.
148	WLFL8 LOWER RUSSELL ACQ KENT	Green	Agreement	$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.

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149	WLFL8 LWR GRN R CORRIDOR PLAN/EIS	Green	FCD Const	$553,519	$1,743,249	$1,189,730	($1,024,730)	$0	$0	$0	$0	$0	($1,024,730)			$718,519	Auburn, Kent, Renton, Tukwila. Lower Green River Corridor Planning and Environmental Impact Statement.
150	WLFL8 LWR RUSSELL LEVEE SETBACK	Green	FCD Const	$30,835,317	$48,960,238	$18,124,921	$7,945,687	$130,730	$0	$0	$0	$0	$8,076,417			$57,036,655	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.
151	WLFL8 MILWAUKEE LEVEE #2-KENT	Green	Agreement	$1,898,921	$19,400,000	$17,501,079	$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.
152	WLFL8 NEWAUKUM CR FLOOD CONVEYANCE REST(	Green	FCD Const		$65,000	$65,000	$0	$0	$0	$0	$0	$0	$0			$65,000	Enumclaw. An undersized culvert causes flooding that could block a sole access road.
153	WLFL8 O'CONNELL REVETMENT 2021 REPAIR	Green	FCD Const		$100,000	$100,000	$50,000	$350,000	$0	$0	$0	$0	$400,000			$500,000	Kent: Stabilize the O'Connell revetment slope, and move or replace the road shoulder and guardrail.
154	WLFL8 OLD JEFFS FARM REVETMENT	Green	FCD Const	$304,577	$901,721	$597,144	$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.
155	WLFL8 RUSSELL RD UPPER KENT	Green	Agreement	$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.
156	WLFL8 S 106TH ST DRAINAGE IMPVMNT	Green	Agreement		$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.
157	WLFL8 SIGNATURE PT REVETMENT KENT	Green	Agreement	$1,482,083	$29,945,419	$28,463,336	$26,800,000	$0	$0	$0	$0	$0	$26,800,000			$56,745,419	Kent. Project provides increased level of protection to 1.5 miles of Lower Green River Corridor. Alternative selected by Executive Committee.
158	WLFL8 TITUS PIT RVTMNT 2018 REPAIR	Green	Agreement	$167,738	$167,738	$0	$0	$0	$0	$0	$0	$0	$0			$167,738	Kent. Repair of the recent damage to the Titus Pit RB revetment is needed to prevent a potential revetment failure and Green River road collapse. The revetment protects an adjacent King County arterial road and utilities (such as water, natural gas, telecommunication and power) under the road.
159	WLFL8 TUK-205 GUNTER FLOODWALL	Green	FCD Const	$198,446	$11,423,000	$11,224,554	$3,075,336	$1,230,114	$34,993,637	$0	$0	$0	$39,299,087			$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.
160	WLFL8 TUK-205 RATOLO FLOODWALL	Green	FCD Const		$0	$0	$0	$1,500,000	$300,000	$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.
161	WLFL8 TUK-205 USACE GACO-SEGALE	Green	Agreement	$945,745	$9,716,822	$8,771,077	$3,959,599	$3,493,000	$60,000	$11,000	$0	$0	$7,523,599			$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.
162	WLFL8 TUKWILA RVTMT 2019 REPAIR	Green	FCD Const	$411,134	$500,000	$88,866	$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.
163	WLFLS PUGET WAY CULVERT	Seattle	Agreement	$1,541,952	$1,800,000	$258,048	$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.
164	WLFLS S PARK DRAINAGE IMPROVEMENTS	Seattle	Agreement	$6,032,914	$10,075,000	$4,042,086	$7,030,000	$0	$0	$0	$0	$0	$7,030,000			$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.
165	WLFLS SOUTH PARK PUMPSTATION	Seattle	Agreement	$1,787,318	$6,505,000	$4,717,682	$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.
166	**Green-Duwamish Subtotal**			$90,164,213	$210,288,784	$120,124,569	$73,590,373	$40,123,525	$91,044,032	$33,440,065	$9,746,756	$15,667,592	$263,612,343	$0	$0	$473,901,127	
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169	WLFL9 212TH AVE SE @ SR 164 FLD IMPRVMNT	Green	Agreement		$0	$0	$0	$0	$0	$190,000	$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.
170	WLFL9 212TH AVE SE MITIGATION	White	Agreement		$65,000	$65,000	$0	$0	$0	$0	$0	$0	$0			$65,000	Enumclaw. TBD
171	WLFL9 ANDERSON PARK ACQUISITION	White	FCD Acqu/Elev		$100,000	$100,000	$0	$0	$0	$0	$0	$0	$0			$100,000	Enumclaw. Park is split by the White River; acquire undevelopable and inaccessible southern portion of park in Pierce County from the City of Enumclaw.
172	WLFL9 BUTTE AVE FLOOD MITIGATION	White	Agreement	$226,633	$226,633	$0	$0	$0	$0	$0	$0	$0	$0			$226,633	Pacific. This project will reduce flood risks to residences and businesses in the Cities of Pacific and Algona by addressing backwatering and drainage problems in Government Canal from high river flows. The project will design and permit a stormwater pump station which will significantly reduce flood risks to approximately five hundred homes and businesses. The completed project will also reduce long-term road closures that have occurred in the past due to flooding.
173	WLFL9 CHARLIE JONES DS CULVERT	White	Agreement		$0	$0	$45,000	$555,000	$1,000,000	$50,000	$0	$0	$1,650,000			$1,650,000	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
174	WLFL9 CHARLIE JONES US CULVERT	White	Agreement	$271,852	$747,666	$475,814	$188,186	$47,000	$10,000	$0	$0	$0	$245,186			$992,852	Auburn. This project will analyze culvert replacement and road-raising options and implement the preferred option.
175	WLFL9 COUNTYLINE TO A STREET	White	FCD Const	$23,890,826	$23,926,129	$35,303	$0	$0	$0	$0	$0	$0	$0			$23,926,129	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.
176	WLFL9 RIGHT BANK LEVEE SETBACK	White	FCD Const	$14,157,783	$15,407,589	$1,249,806	$583,755	$1,848,752	$7,047,482	$6,811,257	$135,941	$0	$16,427,187			$31,834,776	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.

No.	Title	Basin	Type of project	2020 Inception to Date Expenditure	2021 Inception to Date Budget	2021 Available Budget	2022 Requested	2023 Forecasted	2024 Forecasted	2025 Forecasted	2026 Forecasted	2027 Forecasted	6-Year CIP Total	CIS Year 7-10	CIS 10+ Year	Project Life Total	Comments
177	WLFL9 SLIPPERY CREEK ACQ	White	FCD Acqu/Elev	$116,261	$180,000	$63,739	$0	$0	$0	$0	$0	$0	$0			$180,000	Greenwater. In mid-2018 budget reallocation, funding was authorized to acquire a vacant property located outside flood hazard area on the north side of 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.
178	WLFL9 STUCK R DR 2019 REPAIR	White	FCD Const	$580,294	$815,294	$235,000	$5,000	$0	$0	$0	$0	$0	$5,000			$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.
179	WLFL9 STUCK R DR FLOOD PROTECTION	White	FCD Const		$0	$0	$0	$0	$0	$0	$0	$1,000,000	$1,000,000			$1,000,000	Auburn. TBD
180	**White Subtotal**			$39,243,649	$41,468,311	$2,224,662	$821,941	$2,450,752	$8,057,482	$7,051,257	$135,941	$1,000,000	$19,517,373	$0	$0	$60,985,684	
181																	
182																	
183	WLFLG COASTAL EROSION/FLOODING GRANTS	Countywide	Grant		$3,000,000	$3,000,000	($3,000,000)	$0	$0	$0	$0	$0	($3,000,000)			$0	Focuses on mapped coastal flood hazard areas to increase resiliency to sea level rise in coastal flood hazard areas by restoring shorelines and retrofitting or relocating infrastructure out of flood-prone areas to reduce risk.
184	WLFLG CULVERT & FISH PASSAGE GRANTS	Countywide	Grant		$3,000,000	$3,000,000	($3,000,000)	$0	$0	$0	$0	$0	($3,000,000)			$0	Reduces flooding and improves fish passage and water quality by replacing and/or removing culverts or other blockages to fish passage. This program will focus on accelerating replacement or removal of culverts that address both significant flood risks to critical infrastructure, and restore fish passage.
185	WLFLG FLOOD REDUCTION GRANTS	Countywide	Grant	$13,907,874	$26,732,458	$12,824,584	$12,301,795	$12,611,180	$12,928,346	$13,253,488	$13,586,807	$13,928,509	$78,610,125			$105,342,583	Competitive grant program for flood reduction projects. Increases as a proportion of total FCD tax revenue.
186	WLFLG URBAN STREAMS GRANTS	Countywide	Grant		$3,000,000	$3,000,000	($3,000,000)	$0	$0	$0	$0	$0	($3,000,000)			$0	Invests in urban flooding projects that reduce risks to people, property, and public infrastructure.
187	WLFLG WRIA GRANTS	Countywide	Grant	$30,406,157	$51,686,674	$21,280,517	$10,007,902	$10,259,596	$10,517,620	$10,782,133	$11,053,299	$11,331,285	$63,951,835			$115,638,509	Cooperative Watershed Management Grant Program; priorities recommended by watershed groups. Increase based on assumed inflation rate.
188	WLFLM EFFECTIVENESS MONITORING	Countywide	FCD Const	$3,762,973	$5,455,622	$1,692,649	$850,701	$1,191,950	$1,064,100	$815,500	$628,200	$608,500	$5,158,951			$10,614,573	Evaluation of capital projects to determine effectiveness and identify project design improvements.
189	WLFLO SUBREGNL OPPRTNTY FUND	Countywide	Grant	$46,215,045	$67,376,883	$21,161,837	$6,012,016	$6,092,142	$6,170,764	$6,247,632	$6,324,334	$6,408,362	$37,255,250			$104,632,133	Allocation to all King County jurisdictions for flooding, water quality, or watershed management projects. Increases as a proportion of total FCD tax revenue.
190	WLFLX CENTRAL CHARGES	Countywide	FCD Const	$864,056	$1,111,493	$247,437	$100,000	$100,000	$100,000	$100,000	$100,000	$100,000	$600,000			$1,711,493	Central charges related to the FCD's capital fund.
191	WLFLX CONST MATERIALS STOCKPILE	Countywide	FCD Const	$149,992	$500,000	$350,008	$0	$0	$0	$0	$0	$0	$0			$500,000	Stockpile material for future flood damage repairs.
192	WLFLX FLOOD EMERGENCY CONTGNCY	Countywide	FCD Const	$419,042	$1,669,042	$1,250,000	$0	$250,000	$250,000	$250,000	$250,000	$250,000	$1,250,000			$2,919,042	Contingency for emergency response actions during a flood event.
193	**Countywide Subtotal**			$95,725,139	$163,532,172	$67,807,032	$20,272,414	$30,504,868	$31,030,830	$31,448,753	$31,942,640	$32,626,656	$177,826,161	$0	$0	$341,358,333	
194																	
195	**Grand Total**			**$347,765,290**	**$603,224,971**	**$255,459,681**	**$132,843,015**	**$109,359,364**	**$169,492,585**	**$108,864,364**	**$70,238,745**	**$61,677,274**	**$652,475,347**	**$125,450,000**	**$121,300,000**	**$1,502,450,317**	

King County Flood Control District

Flood Program Financial Plan: 2022 Budget and 6-Year CIP

10/4/2021

	2020 Actual	2021 Adopted	2021 Revised	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Beginning Balance	94,668,973	89,876,187	75,948,139	72,832,891	62,681,152	52,467,161	34,518,990	6,069,501	(21,254,451)
Revenue									
Flood District									
Flood District Levy [1]	58,632,467	58,403,522	57,901,556	58,768,481	59,551,728	60,320,270	61,071,676	61,821,451	62,642,833
Interest Earnings [2]	1,651,003	2,493,457	1,324,516	1,270,187	1,093,143	915,014	602,002	105,851	(370,672)
Miscellaneous Revenue [3]	254,721	270,000	250,000	250,000	250,000	250,000	250,000	250,000	270,000
King County									
Inter-County River Improvement [4]	44,000	0	0	0	0	0	0	0	0
Grants [10]	(649,937)	2,869,028	2,869,028	2,869,028	2,869,028	0	0	0	0
Miscellaneous Revenue [5]	59,221	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Total Revenue	59,991,475	64,136,007	62,445,100	63,257,697	63,863,900	61,585,284	62,023,679	62,277,301	62,642,161
Expenditure									
District Administration [6]	(1,917,031)	(2,338,637)	(2,338,637)	(2,338,637)	(2,408,796)	(2,408,796)	(2,481,060)	(2,481,060)	(2,555,492)
Other District Expenditures									
Tax Refund									
Operating Expenditure	(10,637,693)	(13,171,717)	(14,146,717)	(16,313,808)	(13,513,808)	(13,919,222)	(14,336,799)	(14,766,903)	(15,209,910)
Capital Expenditure	(66,157,584)	(48,694,443)	(49,074,995)	(54,756,991)	(58,155,287)	(63,205,437)	(73,655,309)	(72,353,291)	(68,435,513)
Total Expenditure	(78,712,309)	(79,024,594)	(65,560,348)	(73,409,436)	(74,077,891)	(79,533,455)	(90,473,168)	(89,601,254)	(86,200,915)
Ending Fund Balance (Cash)	**75,948,139**	**75,058,885**	**72,832,891**	**62,681,152**	**52,467,161**	**34,518,990**	**6,069,501**	**(21,254,451)**	**(44,813,205)**
Target Fund Balance		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Budgetary Carryover Reserves	*(142,118,102)*	*(132,625,036)*	*(205,955,687)*	*(284,041,711)*	*(335,245,788)*	*(441,532,936)*	*(476,741,991)*	*(474,627,444)*	*(467,869,206)*
Ending Budgetary Fund Balance [9]	**(66,169,963)**	**(57,566,151)**	**(133,122,796)**	**(221,360,559)**	**(282,778,627)**	**(407,013,946)**	**(470,672,490)**	**(495,881,896)**	**(512,682,411)**

Flood Program Financial Plan: 2022 Budget and 6-Year CIP

Notes:

1 Property tax forecast provided by the Office of Economic and Financial Analysis in August 2020, less undercollection assumption of 1%.

2 Future interest earnings approximated using the ration of prior year interest to prior year fund ending fund balance.

3 District miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, unrealized investments, leashold excise taxes, and immaterial corrections from prior years.

4 The ICRIF amount is based on the 1919 Inter-County Agreement for improvements to the White River, set to expire at the end of 2020.

5 Miscellaneous revenue due to multiple sources such as state forest sales, private timber harvest tax, rent from tenants of acquired real estate, and immaterial corrections from prior years.

6 Costs based on contract established under FCD 2008-07 for District executive services, and inflated at 3% in succeeding years.

7 The capital expenditure is equal to the expenditure rate times the sum of the new capital appropriation and carryover. Rationale for the expenditure rates forecasted for A-E in the capital program is as follows:

A. Based on prior year experience and knowledge of existing staff capacity to implement construction projects implemented by WLR Division. The expenditure rate increases at the end of the six years as new appropriation decreases and carryover projects are completed.

B. Based on prior year experience for acquisitions and home elevations, where expenditure patterns are strongly influenced by factors such as landowner willingness. Rate shown here is similar to the expenditure rate for acquisition-focused funds such as King County's Conservation Futures Trust (CFT).

C. Based on increase from past expenditure rates as city projects move through the engineering design phase toward construction.

D-E. Based on prior year experience with expenditure rates for these capital grant programs, which have a 2-3 year minimum time lag between appropriation and expenditures due to funding allocation decision-making process, execution of agreements for awarded projects, and reimbursement of eligible expenditures during or following implementation by the grant recipient. While the Opportunity Fund does not require time for an allocation process, many jurisdictions choose to accrue funding over multiple years which limits the expenditure rate. Note that a constant expenditure rate results in increased expenditures as unspent allocations are carried over each year.

8 The Unreserved Fund Balance is the remaing balance less reserves described in resolution FCD2016-21.1 adopting a fund balance reserve policy. While the policy provides general guidance on types of reserves, it does not specify their quantification. The reserve quantities above reflect initial considerations by the District in lieu of more formal direction.

9 The budgetary fund balance assumes 100% expenditure of all budgeted amounts and is used to understand the District's total budgetary commitment.

10 Grant revenue is assumed only for grants that have been awarded or where an award is likely and imminent.

11 Total New Capital Appropriation corresponds to the "Grand Total" shown in each year on Attachment H.

12 In general, construction projects assume inflationary increases of 3% per year.

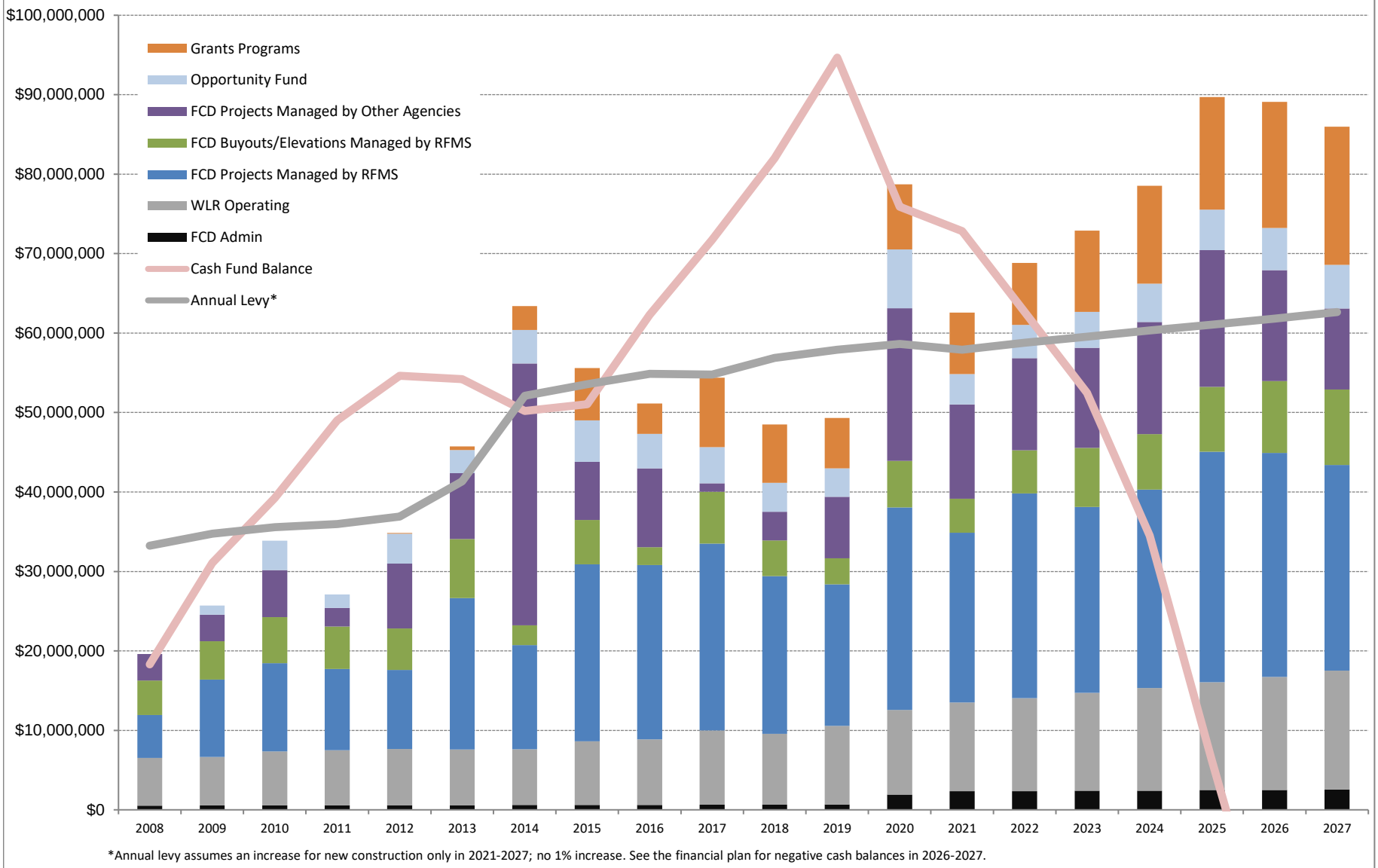
Flood Program Financial Plan: 2022 Budget and 6-Year CIP

Capital Expenditure Detail

	2020 Actual	2021 Adopted	2021 Revised	2022 Projected	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
FCD Projects New Appropriation	*(42,782,730)*	*(46,573,971)*	*(49,915,913)*	*(40,410,401)*	*(37,380,405)*	*(92,398,541)*	*(51,816,189)*	*(23,495,444)*	*(12,756,092)*
FCD Projects Carryover	*(16,148,408)*	*(18,209,493)*	*(16,884,214)*	*(45,424,086)*	*(60,084,141)*	*(74,073,055)*	*(141,500,857)*	*(164,319,489)*	*(159,642,693)*
Expenditure Rate	*43%*	*28%*	*32%*	*30%*	*24%*	*15%*	*15%*	*15%*	*15%*
A. FCD Projects Managed by RFMS	*(25,500,412)*	*(18,139,370)*	*(21,376,041)*	*(25,750,346)*	*(23,391,491)*	*(24,970,739)*	*(28,997,557)*	*(28,172,240)*	*(25,859,818)*
FCD Flood Mitigation New Appropriation	*(1,866,201)*	*(14,662,191)*	*(7,790,806)*	*(15,456,292)*	*(18,641,919)*	*(16,096,081)*	*(17,036,564)*	*(15,253,861)*	*(13,053,026)*
FCD Flood Mitigation Carryover	*(13,223,472)*	*(18,791,547)*	*(17,314,614)*	*(20,837,499)*	*(30,849,722)*	*(42,067,894)*	*(51,184,299)*	*(60,034,359)*	*(66,253,633)*
Expenditure Rate	*39%*	*18%*	*17%*	*15%*	*15%*	*12%*	*12%*	*12%*	*12%*
B. FCD Elevations/Buyouts Managed by RFMS	*(5,849,783)*	*(6,021,673)*	*(4,267,921)*	*(5,444,069)*	*(7,423,746)*	*(6,979,677)*	*(8,186,503)*	*(9,034,586)*	*(9,516,799)*
Other Agency New Appropriation	*(28,744,062)*	*(35,716,921)*	*(30,730,808)*	*(57,654,609)*	*(24,374,123)*	*(31,381,233)*	*(9,728,358)*	*(525,000)*	*(4,200,000)*
Other Agency Carryover	*(53,485,324)*	*(73,208,987)*	*(68,127,388)*	*(86,995,212)*	*(133,077,836)*	*(144,855,801)*	*(162,138,071)*	*(154,679,786)*	*(141,236,356)*
Expenditure Rate	*23%*	*8%*	*12%*	*8%*	*8%*	*8%*	*10%*	*9%*	*7%*
C. FCD Projects Managed by Other Agencies	*(19,231,846)*	*(8,714,073)*	*(11,862,983)*	*(11,571,986)*	*(12,596,157)*	*(14,098,963)*	*(17,186,643)*	*(13,968,431)*	*(10,180,545)*
Opportunity Fund New Appropriation	*(6,091,017)*	*(5,974,680)*	*(5,974,680)*	*(6,012,016)*	*(6,092,142)*	*(6,170,764)*	*(6,247,632)*	*(6,324,334)*	*(6,408,362)*
Opportunity Fund Carryover	*(16,535,261)*	*(18,101,022)*	*(15,187,158)*	*(17,352,707)*	*(19,159,073)*	*(20,705,996)*	*(22,038,943)*	*(23,194,992)*	*(24,205,847)*
Expenditure Rate	*33%*	*20%*	*18%*	*18%*	*18%*	*18%*	*18%*	*18%*	*18%*
D. Opportunity Fund Payments	*(7,398,123)*	*(4,815,140)*	*(3,809,131)*	*(4,205,650)*	*(4,545,219)*	*(4,837,817)*	*(5,091,584)*	*(5,313,479)*	*(5,510,558)*
Grants New Appropriation	*(15,500,545)*	*(21,762,382)*	*(21,762,382)*	*(13,309,697)*	*(22,870,776)*	*(23,445,966)*	*(24,035,621)*	*(24,640,106)*	*(25,259,794)*
Grants Carryover	*(13,898,666)*	*(22,049,408)*	*(21,342,719)*	*(35,346,183)*	*(40,870,939)*	*(53,543,041)*	*(64,670,766)*	*(74,513,365)*	*(83,288,915)*
Expenditure Rate	*28%*	*25%*	*18%*	*16%*	*16%*	*16%*	*16%*	*16%*	*16%*
E. Grant Payments	*(8,177,420)*	*(10,952,948)*	*(7,758,918)*	*(7,784,941)*	*(10,198,674)*	*(12,318,241)*	*(14,193,022)*	*(15,864,555)*	*(17,367,794)*
	59%	*50%*	*36%*	*22%*	*25%*	*23%*	*22%*	*21%*	*21%*
Capital Summary - All Expenditures A-F									
Total New Capital Appropriation [11]	*(94,984,555)*	*(124,690,145)*	*(116,174,589)*	*(132,843,015)*	*(109,359,364)*	*(169,492,585)*	*(108,864,364)*	*(70,238,745)*	*(61,677,274)*
Total Carryover	*(113,291,131)*	*(150,360,458)*	*(138,856,093)*	*(205,955,687)*	*(284,041,711)*	*(335,245,788)*	*(441,532,936)*	*(476,741,991)*	*(474,627,444)*
Overall Expenditure Rate	*32%*	*18%*	*19%*	*16%*	*15%*	*13%*	*13%*	*13%*	*13%*
Total Capital Expenditure [7]	(66,157,584)	(48,643,203)	(49,074,995)	(54,756,991)	(58,155,287)	(63,205,437)	(73,655,309)	(72,353,291)	(68,435,513)

DRAFT: Actual and Forecasted Flood District Expenditures by Type

October 4, 2021



*Annual levy assumes an increase for new construction only in 2021-2027; no 1% increase. See the financial plan for negative cash balances in 2026-2027.

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Resolution

Proposed No. FCD2021-13.1 **Sponsors**

A RESOLUTION relating to the finances of the King County Flood Control Zone District; authorizing a property tax levy to implement the District's 2022 budget; reserving banked capacity; and protecting up to $.25 per $1,000 of assessed value of the Flood Control Zone District's property tax levy from proration.

WHEREAS, every year, King County faces threats from flooding, the impacts of which are far-reaching and pose significant threats to public health and safety and economic activities throughout the county, and

WHEREAS, the one hundred-year floodplain in the county covers more than 25,000 acres or almost forty square miles, and

WHEREAS, more than five hundred flood protection facilities throughout the county protect property with an estimated assessed value of more than $7,000,000,000, and

WHEREAS, flood control facilities provide vital protection to the regional economy, and

WHEREAS, one of the most fundamental functions of government is to protect citizens and public and private property from the ravages of natural disasters, such as flooding, and

WHEREAS, the board of supervisors of the King County Flood Control Zone District ("the District"), after holding a hearing on _____, 2021, and after

duly considering all relevant testimony presented, desires to increase its property tax revenue from the previous year by the additional amounts permitted under RCW 84.55.010, if any, resulting from new construction, improvements to property, newly constructed wind turbine, solar, biomass and geothermal facilities, any increase in the value of state-assessed property, any annexations that have occurred, and refunds made, and

WHEREAS, the board of supervisors finds it necessary to protect the District's tax levy from prorationing by imposing up to $0.25 per $1,000 of assessed value of the levy outside of the $5.90 per $1,000 assessed value limitation under RCW 85.52.043(2), and

WHEREAS, the board of supervisors duly considering all relevant evidence and testimony presented, determined that the District requires a regular levy in the amount of $58,768,481, and amounts resulting from the addition of new construction and improvements to property and any increase in the value of state-assessed property, and amounts authorized by law as a result of any annexations that have occurred and refunds made, in order to discharge the expected expenses and obligations of the district and in its best interest;

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

SECTION 1. The District's actual levy amount from the previous year was $57,901,556. An increase in the regular property tax levy is hereby authorized for the levy to be collected in the 2022 tax year. The dollar amount of the increase over the actual levy amount from the previous year shall be $0, which is a percentage increase of

zero percent from the previous year. This increase is exclusive of additional revenue resulting from new construction, improvements to property, newly constructed wind turbine, solar, biomass and geothermal facilities, any increase in the value of state-assessed property, any annexations that have occurred, and refunds made.

SECTION 2. As authorized by RCW 84.55.092, the District continues to reserve its "banked capacity" for future regular tax levies of the District.

SECTION 3. Pursuant to RCW 84.52.815, the District shall protect the property tax levy of Section 1 of this Resolution from prorationing under RCW 84.52.010 by imposing up to $0.25 per $1,000 of assessed value of such tax levy outside of the $5.90

per $1,000 of assessed value limitation under RCW 84.52.043, if the taxes raised by such tax levy would otherwise be prorated under RCW 84.52.010.

KING COUNTY FLOOD CONTROL ZONE DISTRICT
KING COUNTY, WASHINGTON

_____

ATTEST: Dave Upthegrove, Chair

_____

Melani Pedroza, Clerk of the District

Attachments: None

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

KING COUNTY

Signature Report

FCD Motion

Proposed No. FCD21-03.1 **Sponsors**

A MOTION relating to the Lower Green River Corridor Flood Hazard Management Plan; updating the planning process for a proposal that will result in the Lower Green River Corridor Flood Hazard Management Plan; confirming the goals and purposes of the proposal; and redefining alternative means of accomplishing the goals and purposes of the proposal; and requesting the District responsible official to continue State Environmental Policy Act review of the proposal.

WHEREAS, the King County Flood Control District ("the District") through Resolution FCD2016-05 directed the District executive director to prepare a work plan and budget for a Lower Green River Corridor Plan ("the LGRCP") and to issue a request for proposal for a consultant to prepare a State Environmental Policy Act ("SEPA") programmatic environmental impact statement ("PEIS") for the LGRCP, and

WHEREAS, Motion FCD18-01 initiated a PEIS for the LGRCP, described the goals and purposes of the proposal, described alternatives, and requested the SEPA responsible official begin SEPA review of the proposal, and

WHEREAS, the LGRCP is now referred to as the Lower Green River Flood Hazard Management Plan ("the LGRCFHMP"), and

WHEREAS, the Lower Green River study area includes flood risk reduction facilities in multiple jurisdictional ownerships and is surrounded by mixed land uses, including agricultural, commercial, industrial, open space, recreational and residential, and

WHEREAS, the Lower Green River study area is the largest warehouse and distribution hub in the entire Northwest, second largest warehouse district on the west coast, and third largest in the nation, supplying the region with groceries, food service products, gasoline, medical supplies and other critical provisions and includes many of the region's major employers, and

WHEREAS, flood risk modeling conducted by the District in 2014 finds that levee overtopping or breaching resulting in floodplain inundation of one to 10 feet or more put at risk, people, structures, infrastructure and economic activity including approximately 22,000 people living in the floodplain and approximately 9,000 residential, commercial and public facilities, based on 2014 data, and

WHEREAS, expected annual damages and economic impacts due to flooding were estimated in 2014 to be $47.1 million over a 50-year period and the present value of those impacts were estimated to be $1.1 billion, and

WHEREAS, the LGRCFHMP is a follow-up plan to the System-Wide Improvement Framework ("the SWIF") submitted by the District to the United States Army Corps of Engineers ("the USACE") in March 2019 and accepted by the USACE in September 2019, and

WHEREAS, the SWIF maintains eligibility for flood damage repairs under the federal PL 84-99 Program, but does not include projects to extend flood protection and does not use an integrated floodplain management approach, and

WHEREAS, Resolution FCD2016-05 determined the broader objectives supported by stakeholders who participated as SWIF advisors can best be achieved through a long-range planning process that includes a SEPA PEIS analyzing cumulative impacts and reasonable alternatives for accomplishing the multiple objectives of flood protection; equity and social justice; environmental justice; habitat protection and salmon recovery; resilient communities and ecosystems; productive and viable agriculture; sustainable development; jobs and sustainable livelihoods; open space conservation; sustainable and clean water; and recreation and other opportunities to connect people with nature, and other issues to be defined through a PEIS scoping process, and

WHEREAS, Resolution FCD2014-09.1 adopted provisional levels of protection for 43.7 shoreline miles of the Lower Green River as described in the map exhibit dated, June 12, 2014, attached to Resolution FCD2014-09.1, and

WHEREAS, Motion FCD20-07.1 declared the District's commitment to integrated floodplain management and multi-benefit projects, and

WHEREAS, the District desires to continue the planning process for a proposal resulting in the LGRCFHMP, by adopting the goals and purposes of the proposal, and

WHEREAS, the District through Resolution FCD2016-04 adopted SEPA procedures designating the District executive director as the District's SEPA responsible official ("the SEPA Official"), and

WHEREAS, the SEPA Official issued a legal notice of the Determination of Significance on November 28, 2018, commencing the scoping period inviting tribes, agencies and members of the public to comment on the scope of the PEIS, and

WHEREAS, the SEPA Official extended the scoping period until May 1, 2019, to allow 154 days for tribes, agencies and members of the public to comment on the scope of the PEIS, and

WHEREAS, the three alternatives carried through the initial scoping process were developed before adoption of Motion FCD20-07.1, and

WHEREAS, pursuant to Motion FCD20-07.1 to the extent practicable and within the authority of the District, the LGRCFHMP will provide flood risk reduction while balancing the following multi-benefits: equity and social justice; environmental justice; habitat protection and salmon recovery; resilient communities and ecosystems; productive and viable agriculture; sustainable development; jobs and sustainable livelihoods; open space conservation; sustainable and clean water, and recreation and other opportunities to connect people with nature;

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

SECTION 1. The goals and purposes of a proposal that will result in the LGRCFHMP ("the Proposal") continue to provide an integrated and reasonable long-term approach to reduce flood-risk within the Lower Green River Corridor while balancing multiple objectives within the study area, including but not limited to economic vitality and environmental protection. This integrated approach is intended to protect people, property and jobs, while reducing conflicts between flood facilities, equity and social

justice, agricultural land use, economic development, habitat restoration, housing, recreation, salmon recovery, water quality and other issues that will be considered and analyzed through a SEPA PEIS scoping process.

SECTION 2. The SEPA Offical is requested re-initiate scoping for the PEIS as soon as possible to engage in a robust public process regarding the new alternatives described in Attachment A to this motion.

SECTION 3. The alternatives to the Proposal described in Attachment A to this motion each describe an approach to implementing integrated floodplain management as part of District actions taken pursuant to the purposes and powers described in chapter 86.15 RCW.

The alternatives use several types of facilities or actions to provide protection from or accommodation of flooding up to the provisional level of protection of 18,800 cfs., plus three feet of freeboard. These facilities and actions are used in different combinations to create each alternative:

A. Flood facility project "type a" are levees or floodwalls with riverward side slopes of less than 2.5:1. Project footprints would be designed to minimize property acquisitions while still meeting engineering standards for certification. This facility type is intended in the most constrained locations where a facility "type b or c" (described below) would impact existing agricultural land, buildings, parking or traveled roadways. The approximate footprint of this facility type is no greater than 100 feet from the ordinary high-water mark to the extent of maintenance access;

B. Flood facility project "type b" are levees or floodwalls with riverward side slopes of 2.5:1 or more that can be planted with vegetation and/or a bench, including

large woody debris, scour protection and enhanced vegetation. This facility type would likely require more land acquisition or easements than facility "type a" described above. This facility type is intended in locations where a wider footprint can be accommodated. The approximate footprint of this facility type is 100 to 150 feet from the ordinary high-water mark to the extent of maintenance access;

C. Flood facility project “type c” are levee or floodwall setbacks providing at least 150 feet from the ordinary high-water mark and a maximum of riverward side slopes of 3 to 1. These setbacks often require property acquisitions and possible relocations in the immediate vicinity but provide flood protection to people and property in the greater Lower Green River valley. These setbacks provide space for the District to incorporate habitat benches, side channels, vegetation providing shade, other riparian and aquatic enhancements, and access to the river for fishing and shoreline enjoyment, into the facility design. These setbacks often provide opportunity for the District, in collaboration with the local jurisdiction and other agencies, to provide open space and passive recreation riverward of the facility, trails on the top of the facilities, and help provide some relief from urban heat islands; and

D. Flood facility project “type d" are physical nonstructural measures such as home elevations, basement removal with utility addition, flood proofing, berms, ring levees, farm pads and drainage improvements. The USACE defines these measures as physical nonstructural measures applied to a structure or its contents that prevent or provide resistance to damage from flooding. Physical nonstructural measures differ from structural measures in that they focus on reducing the consequences of flooding instead of focusing on reducing the probability of flooding.

SECTION 4. The alternatives to the Proposal described in Attachment A to this motion each apply the District actions described in SECTION 3 of this Motion based on planning level estimates of where District action is needed to protect people and property from flood risk.

SECTION 5. Possible alternatives to be discussed and analyzed in a PEIS for the Proposal are described in Attachment A to this motion. The District acknowledges that

these alternatives may be modified, changed or replaced during the PEIS scoping process or preparation of the PEIS.

KING COUNTY FLOOD CONTROL ZONE DISTRICT
KING COUNTY, WASHINGTON

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ATTEST: Dave Upthegrove, Chair

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Melani Pedroza, Clerk of the District

Attachments: None