

2012 King County Flood Control Advisory Committee Recommendations

August 22, 2012

To the King County Flood Control District Board of Supervisors:

Each year, the King County Flood Control District (FCD) Advisory Committee provides you with our recommendations regarding the capital improvement program and operating budget for the District. We have been serving in this capacity since 2007. In this year's recommendations we also provide comments on funding for Water Resource Inventory Area (WRIA) watershed management grants.

Meeting summaries and materials are available at the link below, and the Advisory Committee roster is included as an attachment to this document.

<http://www.kingcounty.gov/environment/waterandland/flooding/flood-control-zone-district/governance/advisory-committee.aspx>

Since 2010 we have recommended a six-year capital program that was in the red in later years. This year's recommendations include significant project deferrals to balance the overall financial plan over the six-year timeframe. The 10-year financial plan was balanced when first proposed in 2007, and it assumed a large fund balance in the early years that would be spent once large levee rehabilitation projects entered the construction phase in later years. Over the last five years we recognize that the financial plan has shifted to reflect changing flood risks, updated priorities, revised revenue assumptions, as well as additional unanticipated expenditures (see Attachment 2). Each of these revisions was made with good reason, but as noted in previous years there continues to be a tension between deferring high-priority, time-sensitive projects due to revenue constraints, or financing options that would allow high-priority projects to proceed more quickly to reduce flood risks to our residents and businesses. As the District and King County update the King County Flood Hazard Management Plan in the next few months, we understand that the District will evaluate financing options to expedite project implementation alongside status quo funding options.

Our specific recommendations on a number of issues associated with the 2013-2018 capital program, and 2013 operating budget are summarized in table format below, and more context is provided under each recommendation:

Recommendation #1: Operating Budget

The Advisory Committee generally supports the Operating Budget proposal, but some members identified concerns regarding funds for (1) sediment removal on the Sammamish River and (2) staffing support for capital project design and communications on recreational safety.

- **Sediment Removal:** The Committee understands the need to improve flows out of Lake Sammamish to maintain lake levels within authorized levels. There is a maintenance proposal to remove sediments from the high flow areas of the Sammamish channel, and there is also a capital project proposal (Willowmoor Floodplain Conveyance project) to

increase conveyance out of the lake during high flows. Feasibility and design work is currently underway, but at this time we are not in a position to compare the overall effects, costs, and implementation timeframes for the two efforts. The group supported funding for both the maintenance work and the project design in 2013, with the recognition that the scope (and cost) may be modified based on the technical findings in the coming months.

- **Capital project design and communication:** In response to recommendations from an independent review of King County's capital project development and delivery model, King County is recommending additional support related to (1) incorporating recreational safety into project designs and (2) increasing outreach about capital projects that are in design and proposed for construction in each basin. Some members felt that these expenses should be paid out of capital project budgets rather than as an on-going operating expense.

Recommendation #2: Capital Budget

While the Advisory Committee was generally supportive of the 2013-2018 capital projects, two members identified concerns regarding the impacts of delaying previously identified high-priority projects to balance the financial plan.

Tolt River Levees: One member was concerned that the proposed capital program maintains funding for river corridor feasibility analyses to better define projects, but does not include funding to implement projects. If implementation is several years away, the feasibility work may become obsolete as conditions change, and the money spent on studies is wasted.

Staff recommended that updated revenue forecasts may create some additional funding capacity over the life of the financial plan, and recommended that any such funding be targeted at replenishing projects such as the Tolt River levee setback construction that are currently proposed for deferrals.

Green River Levees: One member was concerned with the deferral of Green River levee projects, particularly the Lower Russell project where recent damage has been observed that appears to increase the urgency of completing repairs.

Staff noted that the site in question has been the subject of site visits and is being evaluated to determine the appropriate next steps. Should the engineering review determine that emergency repair is needed, appropriate action will be taken. It was noted that funding for this project was deferred to 2018 as a result of the Green River sandbag removal agreement in May 2012. Should this project (whether a short-term repair or a more long-term levee setback) be determined to be a priority due to imminent risk, funding for a separate Green River project will need to be deferred to be consistent with the condition that the financial impact of funding Green River sandbag removals be confined to the Green River projects.

Recommendations #3: Watershed Management

Overall, the Advisory Committee felt that it is premature to make specific recommendations until the King Conservation District's work program and assessment have been confirmed.

The Committee members expressed strong commitment to implementing watershed management projects developed in partnership through the WRIA groups. Several members identified the need for a long-term watershed management funding solution that is free of separate funding "silos" for water quality, flooding, habitat, and open space, and instead recognizes that these attributes are part of an integrated watershed system.

Given the uncertain status of King Conservation District (KCD), there was a wide range of opinion expressed regarding both reimbursement for the 2012 WRIA funding grants funded by the FCD and the prospect of funding WRIA grants again in 2013 through the FCD:

- Several members agreed that their first preference would be to have KCD reimburse the \$3 million provided in 2012 by the FCD for watershed management grants. (Note: The FCD opted to pay the grant program in 2012, recognizing that otherwise the grants would be foregone. There is no formal loan or reimbursement agreement between the FCD and KCD).
- While many noted the desire to keep watershed management funding within the KCD in the future, they also expressed willingness to fund the program through the FCD as a back-up option, at least in the short-term, on the condition that the KCD assessment is reduced from the currently proposed levels.
- Several members noted the need to keep any FCD rate increase "revenue-neutral," meaning that the Flood District levy rate increase would be offset (for a median home value) by the reduced KCD assessment.
- It was noted that there is no truly revenue-neutral option at the parcel scale since some jurisdictions have not historically paid into the KCD assessment and property values vary.
- It was also noted that the shift from KCD to FCD could be considered revenue neutral at the regional scale.

Table 1: Advisory Committee Recommendations

Advisory Committee Member	2013 Operating Budget Proposal	2013-8 Capital Budget Proposal	Watershed Management – 2012 Funding Reimbursement	Watershed Management – 2013 Funding?
Snoqualmie	Yes	Yes	Support rate increase if equal decrease in assessment – revenue neutral.	Fund through KCD if possible; if shifted to FCD is should come with a decrease in KCD assessment.
Auburn	Yes	Yes	Premature due to ongoing KCD funding discussions.	Premature due to ongoing KCD funding discussions.
Mercer Island (SCA)	Yes	Yes	No – concerned about tax impacts.	No. Fund through KCD. FCD should not take on the federal and tribal pressure to recover habitat for listed species.
North Bend	Yes	Yes	Maybe – not in favor of an increase but willing to stay open to it at this time.	Maybe.
Kirkland (SCA)	Yes	Yes (particularly supportive of Riverbend project on the Cedar).	Yes, with understanding that it is revenue neutral.	Prefer it stay with KCD, but premature due to ongoing KCD funding discussions. Very supportive of regional funding for salmon recovery projects.
Kent	Yes, but not supportive of communication and recreational safety design support as an ongoing operating expense. Include as a design cost.	No. Too many delays to critical projects (e.g. Lower Russell, Boeing Setback ERP project).	KCD should repay the \$3 million, with interest if it goes past a year.	Solution needs to be revenue neutral.
Lake Forest Park (SCA)	Yes	Yes	Support rate increase if equal decrease in assessment – revenue neutral.	Strong need to figure out a long-term, sustainable watershed management solution that gets past funding silos for water quality, habitat, flooding, etc.
Renton	Yes	Yes	Support rate increase if equal decrease in assessment – revenue neutral.	Fund through KCD if possible; if shifted to FCD is should come with a decrease in KCD assessment.
Seattle	Yes	Yes	Yes – if revenue neutral.	Premature due to ongoing KCD funding discussions.
Bellevue	Yes	Yes	KCD should	May make sense for a

Advisory Committee Member	2013 Operating Budget Proposal	2013-8 Capital Budget Proposal	Watershed Management – 2012 Funding Reimbursement	Watershed Management – 2013 Funding?
			reimburse.	limited time until there is a longer-term fix; FCD is not the best place for habitat funding in the long term. “Revenue neutral” is not possible at the parcel level.
King County	Yes	Yes	Leaning toward a revenue neutral solution – at the regional rather than parcel level.	Need to develop watershed management approach that gets past funding silos.
Carnation	Yes	Opposed to deferrals of Tolt levee construction. Corridor study funding is wasted if not tied to construction in a reasonable timeframe because river conditions will change.	No levy rate increase. Supports getting reimbursed by KCD, but not sure if this is possible.	If revenue neutral, support FCD funding for WRIAs. Agrees watershed management needs to be addressed at a larger level, problem is bigger than KCD.
Unincorporated Areas	Yes	Yes	KCD should reimburse funds as a starting position.	Supportive of salmon funding, but FCD is not the right place for it. Need a watershed management program for the future.

Attachment 1:

King County Flood Control District Advisory Committee Roster

City of Algona: Councilmember Bill Thomas (representing SCA)

City of Auburn: Mayor Pete Lewis; alternate Councilmember Bill Pelozza

City of Bellevue: Councilmember Don Davidson

City of Carnation: Mayor Jim Berger

City of Covington: Councilmember MarllaMhoon (representing SCA)

City of Duvall: Councilmember Will Ibershof (alternate representing SCA)

City of Federal Way: Councilmember Linda Kochmar(alternate representing SCA)

City of Kent: Mayor Suzette Cooke, Advisory Committee Chair

City of Kirkland: Mayor Joan McBride (representing SCA)

King County: Deputy Executive Fred Jarrett

King County Unincorporated Area Councils: Richard Bonewits

City of Lake Forest Park: Councilmember Robert Lee, Advisory Committee Vice-Chair (representing SCA)

City of Maple Valley: Councilmember Erin Weaver (alternate representing SCA)

City of Mercer Island: Councilmember Mike Cero (alternate representing SCA)

City of North Bend: Mayor Kenneth Hearing

City of Renton: Mayor Denis Law

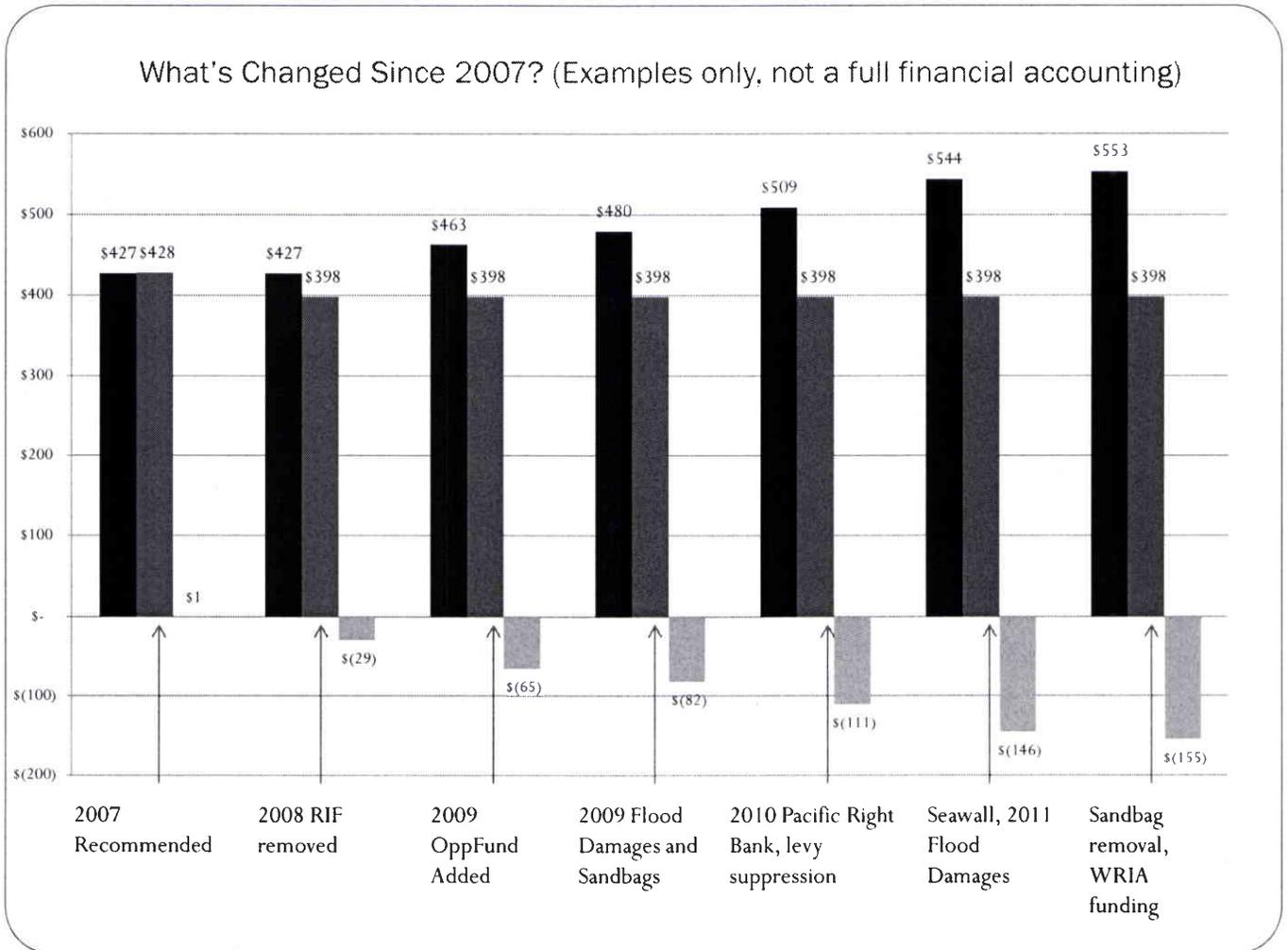
City of Seattle: Councilmember Tim Burgess

City of Snoqualmie: Mayor Matt Larson

City of Tukwila: Mayor Jim Haggerton

Attachment 2:

Examples of Changes in Revenue and Expenditure Assumptions since 2007 Advisory Committee Recommended 10-year Work Program



LEGEND:

Column 1 = Total Projected Expenditures (million)

Column 2 = Total Projected Revenue (million)

Column 3 = Net deficit (million)

King County Flood Control District Proposed 2013 Work Program

The King County Flood Control District (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 interlocal agreement for services
 - Financial planning, budgeting, levy rate, bonding (if any)
 - *2006 King County Flood Hazard Management Plan Update*
 - Asset management
 - Capital improvement priorities
 - Capital improvement project cost estimating, procurement, change orders, reporting
 - Expert/Peer review of basin plans, levy design
 - Public awareness priorities
 - Technical study scoping of emerging issues
 - Sediment removal
 - Woody-debris
 - Sandbags
 - Agricultural needs
 - Post flood event review and evaluation
 - Federal and state legislative agenda

- Operations Work Program
 - Flood Preparedness, Regional Flood Warning Center, and Post Flood Recovery
 - Flood Hazard Assessments, Mapping, and Technical Studies
 - Planning, Grants, Mitigation, and Public Outreach
 - District Implementation
 - Resource Management, Annual Maintenance, and Facility Monitoring
 - Management, Finance, Budget and General Administration

- Capital Improvement Program (CIP)
 - Capital Improvement Projects
 - Acquisitions and Elevations

Flood Preparedness, Regional 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. Specific programmatic elements include:

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.
- Track and disseminate flood hazard technical information to other King County departments (Department of Transportation [DOT], Department of Development and Environmental Services [DDES], 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 U. S. Army Corps of Engineers (Corps) on dam operations
 - National Weather Service on weather forecasts and flood predictions
 - King County Office of Emergency Management for coordinated emergency response activities
 - United States Geological Survey (USGS) on river gauging contract and gage 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 Project Worksheet completion, expenditures and general documentation.
- Coordinate with the Federal Emergency Management Agency (FEMA) and Corps on flood damage repairs and federal funding opportunities; determine eligibility.
- Identify projects and complete grant applications for post-disaster Hazard Mitigation Grant Program opportunities.

Flood Hazard Studies, Mapping, and Technical Services Program

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. Specific programmatic elements include:

- 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
- 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 Hazard Planning and Grants, Repetitive Loss Mitigation, and Public Outreach

Program Summary: Manage repetitive loss area mitigation coordination, public outreach, flood hazard management planning, and grant preparation. Specific programmatic elements include:

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 Acquisition Program.

Public Outreach and Communications Program

- Provide increased citizen preparedness for floods.
- Provide community outreach support for capital projects.
- 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.

Community Rating System (CRS) Coordination

- Manage the CRS program.
- 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. Includes coordination with other jurisdictions.

Grants Program

- Administer 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.

- Administer the Subregional Opportunity Fund annual application process and monitor progress and compliance with requirements.
- Administer the Cooperative Watershed Management grant program

Agriculture Needs Assistance

- Provide technical and modeling assistance and permitting support for farm pad proposals.
- Management of 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.
- Coordinate outreach to farmers and the King County Agriculture Commission to gather input on the unique needs of agriculture lands within flood hazard areas.

King County Flood Control Zone District Implementation

Program Summary: Implement flood hazard management programs and capital improvement projects for the District. Teams of staff will be organized by river basin and will be responsible for identifying, implementing, and tracking flood risk reduction program and project actions within a given basin. Staff will also coordinate five basin technical committees with partner jurisdictions and maintain relationships with communities and other agencies. A District Coordinator will ensure that District governance, reporting, legislative process and cross-basin consistency is achieved. Specific programmatic elements include:

Basin Team and Basin Technical Committee Program

- Identify and prioritize projects for implementation, and refine as needed based on work program priorities.
- Provide project design, construction and management on major maintenance and repair projects, new facility design and construction, home buyouts and acquisitions, and home elevations, including technical oversight and quality control of plans and documents for capital improvement projects within basin.
- 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 under the countywide Flood Control Zone District framework.
- Coordinate on acquisitions with Acquisition Unit.
- Provide river stewardship activities.
- 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.
- Work with the River Safety Council on project design proposals.
- Coordinate with the DOT Roads 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

- Staff and coordinate the District Advisory Committee meetings and provide staff support to the Board of Supervisors.
- Track basin technical committee meetings, issues, and cross-basin policy issues.
- Serve as internal representative to analyze and prepare policy recommendations to the Board of Supervisors.
- Coordinate public process across 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.

2006 King County Flood Hazard Management Plan Update

- Manage the planning process necessary to update the District's comprehensive plan consistent with the requirements of the Community Rating System, the Disaster Mitigation Act, and the Growth Management Act. The plan update will address the following issues:
 - Update flood and channel migration hazard information, vulnerability analysis, and action plan (including capital projects) to reduce vulnerability to flood and channel migration risks in King County
 - Update basin-specific risk reduction strategies
 - Geographic scope of the plan
 - Levee certification and accreditation
 - Levee vegetation
 - Acquisition policy regarding the use of eminent domain
 - Economic impacts of flooding on King County and the region

Resource Management, Annual Maintenance, and Facility Assessment Program

Program Summary: Coordinate facility and property maintenance for the District, which includes 500 flood protection facilities covering 119 linear miles and approximately 430 acres of land acquired for flood mitigation purposes. Specific programmatic elements include:

Annual Maintenance Program:

- Manage work authorizations and coordinate with DOT Roads Services Division or contractor 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 revegetation 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.
- 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.

Program Management and Supervision; Finance, Budget and General Administration

Program Summary: Provide supervisory, budgeting and administrative services for the District. Specific programmatic elements include:

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.
- Provide grant and cost-share reporting, billing and documentation.
- Provide contract and procurement management, support and strategy.
- Support capital project managers/engineers with detailed project expenditures, revenues, scheduling, contract management and other finance needs in support of CIP implementation.

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.
- 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 changes from the adopted capital improvement plan.
- Notify Executive Director of grant requests and awards.
- Work with Executive Committee and Executive Director in setting the agenda for Advisory Committee meetings.

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.

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 Flood Hazard Management Program (FHMP) Plan recommends approximately 135 capital projects for the ten-year period (2008-2017), of which approximately 95 are construction projects and 40 are acquisition only.

The CIP will provide project design, construction and management on the following project implementation elements:

- 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, Environmental 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 Endangered Species Act consultation
 - Coordinate or support permitting and permit agency outreach
 - State Environmental Policy Act (SEPA)
 - Complete individual project SEPA
 - Complete programmatic SEPA
 - Geotechnical Engineering Support/Geologist/Geotechnical
 - Provide sediment management monitoring, analysis and modeling
 - Conduct pre- and post-construction monitoring
 - Conduct pre-project feasibility studies/analysis
 - Provide project design support
 - Engineering (may include Project Management function as well)
 - Lead design engineer for projects
 - Manage construction of projects
 - Obtain resources for projects; make task assignments
 - Track and report project scope, schedule, and budget
 - Develop plan set for construction, or bid documentation support
 - Provide overall project quality assurance and quality control oversight

- Project Management
 - Obtain resources for projects; make task assignments
 - Track and report project scope, schedule, and budget
 - Provide overall project quality assurance and quality control oversight
 - Monitoring and Adaptive Management
 - Pre-project baseline information
 - Construction Monitoring
 - Conduct pre- and post-construction monitoring
 - Provide monitoring reports to DDES and other agencies as required

Project Number	Project Name	Flood Risk	Impl Risk	2008 - 2011 Exp	Final 2012 Budget	2012 Forecast (by PM)	2012 Estimated Carryover	2013 Budget Request	2013 Forecast	2014 Forecast & Budget Request	2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2013 - 2018 Total
FL7023	WLF L7 Renton- Cedar River Bridge Flood Rel	79%	62%												\$0
1112021	WLF L7 RHODE LVEE SETBACK 2	71%	56%	\$29,034	\$213,966	\$20,000	\$193,966	(\$173,366)	\$20,600	\$0	\$0	\$0	\$0	\$0	(\$32,677)
FL7021	WLF L7 Riverbend Mobile Home Park Acquisit	82%	46%												\$0
1116360	WLF L8 BLACK R PUMP STATION	N/A	N/A	\$0	\$0	\$0	\$0	\$1,907,766	\$1,907,766	\$1,263,956	\$581,331	\$598,771	\$616,734	\$635,236	\$5,603,793
1112025	WLF L8 BOEING LEVEE ADD-KENT	N/A	N/A	\$1,660	\$2,068,340	\$1,036,500	\$1,031,840	\$32,665	\$1,064,505	\$0	\$0	\$0	\$0	\$0	\$32,665
1116362	WLF L8 BOEING LEVEE USACE ERP	95%	77%	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000
1116515	WLF L8 BRISCOE LEVEE USACE ERP	100%	54%	\$0	\$7,000,000	\$7,000,000	\$0	\$3,650,000	\$3,650,000	\$5,804,500	\$5,463,635	\$5,627,543	\$1,463,710	\$835,836	\$22,845,224
1112051	WLF L8 BRISCOE LEVEE SETBACK	89%	54%	\$709,801	\$629,373	\$140,000	\$489,373	(\$223,053)	\$266,320	\$67,898	\$0	\$0	\$0	\$0	(\$155,155)
1044961	WLF L8 GREEN PRE-CONSTRCTN ACQ	37%	41%	\$17,374	\$465,212	\$465,212	\$0	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0	(\$0)
1044882	WLF L8 GREEN R PL84-99 MITIGATN	68%	46%	\$2,232,060	\$1,530,514	\$348,800	\$1,181,714	(\$487,173)	\$694,541	\$0	\$0	\$0	\$0	\$0	(\$487,173)
1112040	WLF L8 HAWLEY RD LEVEE-KENT	N/A	N/A	\$39,169	\$860,831	\$451,500	\$409,331	\$52,624	\$461,955	\$0	\$0	\$0	\$0	\$0	\$52,624
1112033	WLF L8 HORSESHOE BND ACQ-RCNCT	95%	41%	\$59,703	\$1,360,270	\$1,639,000	(\$278,730)	\$2,178,730	\$1,900,000	\$750,000	\$500,000	\$500,000	\$500,000	\$500,000	\$4,928,730
1116364	WLF L8 LEVEE VEGETATION COMPLIANCE	42%	36%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FL8042	WLF L8 Lone's Addition To 8th	76%	56%												\$0
FL8036	WLF L8 Lower Russell/Holiday	76%	56%												\$0
1112056	WLF L8 LWR RUSSELL/HOLIDAY	76%	56%	\$464	\$0	\$0	\$0	(\$140,747)	(\$140,747)	(\$140,747)	(\$140,747)	\$0	\$0	\$0	(\$422,241)
1112035	WLF L8 REDDINGTON REACH SETBACK	68%	62%	\$1,300,238	\$6,238,000	\$3,409,217	\$2,828,783	\$10,455,484	\$13,284,267	\$1,336,305	\$0	\$174,454	\$0	\$185,078	\$12,151,321
1044881	WLF L8 RUSSELL RD UPPER	76%	56%	\$15,768	\$2,719,168	\$1,315,189	\$1,403,979	(\$384,425)	\$1,019,554	\$1,436,716	\$0	\$0	\$0	\$0	\$1,052,291
100	WLF L8 SANDBAG REMOVAL			\$0	\$5,889,882	\$5,889,882	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
103	WLF L8 SANDBAG REIMB - KENT							(\$140,747)	(\$140,747)	(\$140,747)	(\$140,747)	\$0	\$0	\$0	(\$446,208)
104	WLF L8 SANDBAG REIMB - AUB							(\$74,368)	(\$74,368)	(\$74,368)	(\$74,368)	(\$74,368)	(\$74,368)	(\$74,368)	(\$284,058)
105	WLF L8 SANDBAG REIMB - TUK							(\$47,343)	(\$47,343)	(\$47,343)	(\$47,343)	(\$47,343)	(\$47,343)	(\$47,343)	\$320,862
1116363	WLF L8 USACE SWIF	87%	74%	\$0	\$0	\$0	\$0	\$67,980	\$67,980	\$70,019	\$43,709	\$45,020	\$46,371	\$47,762	\$9,230,773
1112049	WLF L9 COUNTYLINE TO A STREET	71%	N/A	\$1,446,071	\$4,161,066	\$2,057,600	\$2,103,466	(\$346,216)	\$1,757,250	\$4,559,217	\$4,176,949	\$388,300	\$40,575	\$411,948	\$100,000
FL9002	WLF L9 Red Creek Acquisitions	79%	64%												\$100,000
1112038	WLF L9 RIGHT BANK LEVEE SETBACK	66%	N/A	\$4,915,522	\$585,871	\$1,235,000	(\$649,129)	\$1,706,036	\$1,056,907	\$4,170,748	\$1,446,226	\$3,439,280	\$4,000,000	\$0	\$14,762,290
FL9004	WLF L9 White-Greenwater Acquisition														\$100,000
Countywide Underexpenditure Contra															
1112022	WLF L9 EFFECTIVENESS MONITORING	?	?	\$533,551	\$659,478	\$775,429	(\$115,951)	\$365,951	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,615,951
1045042	WLF L9 SUBREGNL OPPRTNTY FUND	N/A	N/A	\$6,546,120	\$11,029,327	\$11,029,327	\$0	\$4,046,182	\$4,046,183	\$3,780,920	\$3,845,698	\$3,910,741	\$3,978,152	\$4,047,726	\$23,609,419
1045041	WLF L9 AK WY SEAWALL CONSTRUCTN	100%	54%	\$2,250,000	\$2,000,000	\$2,000,000	(\$0)	\$5,030,000	\$5,030,000	\$15,030,000	\$5,780,000	\$0	\$0	\$0	\$25,840,000
1112036	WLF L9 SOUTH PARK DWMSH BACKWTR	79%	64%	\$0	\$1,450,000	\$1,450,000	\$0	\$1,800,000	\$1,800,000	\$1,250,000	\$0	\$0	\$0	\$0	\$3,050,000
1044281	WLF L9 CENTRAL CHARGES	N/A	N/A	\$223,812	\$221,500	\$184,377	\$37,123	\$180,172	\$217,295	\$223,814	\$230,528	\$237,444	\$244,567	\$251,904	\$1,368,430
1112027	WLF L9 FLD CNTRL BUDGET CONTRA			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1044279	WLF L9 FLOOD EMERGENCY CONTNGCY			\$196,547	\$250,000	\$250,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000
101	WLF L9 WRIA GRANTS			\$0	\$3,000,000	\$3,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals				\$47,034,616	\$83,953,253	\$60,956,247	\$22,997,006	\$32,111,916	\$55,108,921	\$62,026,055	\$36,438,545	\$26,384,289	\$15,535,166	\$12,814,640	\$185,310,611

**King County Flood District Financial Plan
2013-8 Advisory Committee Recommended**

	2011 Actual	2012 Proposed	2012 Revised	2013 Proposed	2014 Proposed	2015 Projected	2016 Projected	2017 Projected	2018 Projected
Beginning Balance	39,820,379	5,103,137	49,509,839	54,167,019	47,731,476	24,684,637	11,152,820	2,041,691	6,421,011
Revenue									
Flood District									
Flood District Levy ¹	35,962,280	36,302,192	36,527,188	40,461,825	37,809,199	38,456,983	39,107,407	39,781,519	40,477,256
Interest Earnings ²	258,965	321,942	266,734	274,736	282,979	291,468	300,212	309,218	318,495
Miscellaneous Revenue ³	193,257								
King County									
Delinquent River Improvement Fund Levy	1,000								
Inter-County River Improvement ⁴	45,359	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Grants	2,514,314	4,070,000	11,589,653	1,030,000	2,900,000	2,775,000	1,000,000	1,000,000	1,000,000
Total Revenue	38,975,176	40,744,134	48,433,576	41,816,561	41,042,178	41,573,451	40,457,619	41,140,737	41,845,751
Expenditure									
District Administration ⁵	(645,160)	(473,000)	(473,000)	(562,190)	(579,056)	(596,427)	(614,320)	(632,750)	(651,732)
District Miscellaneous									
Levy Suppression Payment ⁶	(3,090,823)								
Operating Expenditure	(5,969,528)	(8,368,689)	(9,027,919)	(10,103,606)	(9,527,523)	(9,298,349)	(9,577,299)	(9,864,618)	(10,160,557)
Capital									
New Capital Appropriation									
Carryover			(39,690,843)	(32,111,916)	(62,026,055)	(36,438,545)	(26,384,289)	(15,535,166)	(12,814,640)
Expenditure Rate			(45,997,847)	(51,413,214)	(45,938,821)	(53,982,438)	(45,210,492)	(32,217,651)	(21,488,768)
Capital Expenditure ⁷				40%	50%	50%	55%	55%	60%
Total Expenditure	(19,580,206)	(30,025,046)	(34,275,476)	(37,586,306)	(53,982,438)	(45,210,492)	(39,377,129)	(26,264,049)	(20,582,045)
Ending Balance	(29,285,716)	(38,866,735)	(43,776,395)	(48,252,104)	(64,089,017)	(55,105,268)	(49,568,748)	(36,761,417)	(31,394,334)
Target Fund Balance	49,509,839	6,980,535	54,167,019	47,731,476	24,684,637	11,152,820	2,041,691	6,421,011	16,872,428
Carryover Reserves	7,500,000								
Ending Undesignated Fund Balance	(45,997,847)	(51,413,214)	(45,938,821)	(45,938,821)	(53,982,438)	(45,210,492)	(32,217,651)	(21,488,768)	(13,721,363)
	3,511,992	2,753,805	1,792,655	1,792,655	(29,297,801)	(34,057,671)	(30,175,960)	(15,067,757)	3,151,065

Notes:

- Property tax forecast provided by the Office of Performance, Strategy, and Budget on 3/19/12.
- Interest earnings based on average daily cash balances considering the timing of flood levy receipts and transfers to the operating and capital funds.
- 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.
- The ICRIF amount is based on the 1914 Inter-County Agreement for improvements to the White River.
- Costs based on contract established under FCD 2008-07 for District executive services, and inflated at 3% in succeeding years.
- The "Levy Suppression Payment" is the amount paid to senior taxing districts in 2011 to allow the Flood District to continue collecting levy revenue.
- The capital expenditure is equal to expenditure rate times the sum of the new capital appropriation and the carryover.