



**KING COUNTY**  
**Signature Report**

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

**November 15, 2011**  
**FCD Resolution**

**Proposed No. FCD2011-06.3**

**Sponsors**

1           A RESOLUTION relating to the operations and finances  
2           of the King County Flood Control Zone District; adopting  
3           the District's 2012 work program, budget, operating  
4           budget for King County, capital budget, six-year capital  
5           improvement program, oversight budget and opportunity  
6           fund project list; and authorizing improvements.

7           WHEREAS, the Advisory Committee of the King County Flood Control Zone  
8           District ("District") has reviewed and recommended the District's proposed 2012 work  
9           program, budget, operating budget for King County, capital budget, six-year capital  
10          improvement program, opportunity fund project list, and management budget; and

11          WHEREAS, pursuant to RCW 86.15.140, the District held a public hearing on the  
12          proposed budget on November 7, 2011; and

13          WHEREAS, pursuant to RCW 86.15.110, the Board of Supervisors ("Board") has  
14          determined that the flood control improvements adopted by this resolution generally  
15          contribute to the objectives of the District's comprehensive plan of development; and

16          WHEREAS, the Board desires to adopt the District's 2012 work program, budget,  
17          operating budget for King County, capital budget, six-year capital improvement program,  
18          opportunity fund project list, and management budget; now, therefore

19 BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF THE KING  
20 COUNTY FLOOD CONTROL ZONE DISTRICT:

21 SECTION 1. The Board of Supervisors adopts the 2012 work program for the  
22 King County Flood Control Zone District, consisting of the programs and activities set  
23 forth in Attachment A to this resolution, titled "2012 Work Program".

24 SECTION 2. The Board of Supervisors adopts the 2012 budget for the District,  
25 as set forth in Attachment B to this resolution, titled "2012 Annual Budget".

26 SECTION 3. The Board of Supervisors adopts the 2012 operating budget for  
27 King County, as set forth in Attachment C to this resolution, titled "2012 Operating  
28 Budget." The "Overhead/Central Costs" category of the 2012 Operating Budget includes  
29 \$470,618 for risk management costs. King County shall submit a report to the District  
30 Executive Committee by March 31, 2012 explaining the increase in risk management  
31 costs for 2012. The report shall include (1) documentation and explanation of King  
32 County risk management costs and the formulas used to ensure equitable distribution of  
33 costs among King County departments, including those costs being charged to the  
34 District, and (2) a strategy for managing District risk over the next five years, including  
35 actions the District might take to reduce the costs being charged to the District. The  
36 amount of \$470,618 in the Overhead/Central Costs category of the 2012 Operating  
37 Budget shall not be paid to King County until this report has been submitted to and  
38 accepted by the District Executive Committee. Funding for the policy/program analyst is  
39 limited to the duration of the Flood Hazard Plan update process, consistent with the  
40 adopted King County Budget.

41           SECTION 4. The Board adopts the 2012 capital budget for the District,  
42 consisting of the projects and expenditures, including the subregional opportunity fund,  
43 as set forth in Attachment D to this resolution, titled "2012 Capital Budget". The  
44 "Countywide Miscellaneous" category of the 2012 Capital Budget includes \$300,000  
45 related to Lake Francis outfall flooding (Maxwell Road SE Flood Control Project) in the  
46 Cedar River Basin. King County shall submit a work plan to the District Executive  
47 Committee by March 31, 2012 regarding the expenditure of \$300,000 to address flooding  
48 problems related to Lake Francis outfall flooding (Maxwell Road SE Flood Control  
49 Project) in the Cedar River Basin. The amount of \$300,000 in the "Countywide  
50 Miscellaneous" category of the 2012 Capital Budget shall not be paid to King County  
51 until this report has been submitted to and accepted by the District Executive Committee.

52           SECTION 5. The Board of Supervisors adopts the six-year capital improvement  
53 program for the District, as set forth in Attachment E to this resolution, titled "Six-Year  
54 CIP 2012-2017".

55           SECTION 6. The Board of Supervisors adopts the 2012 oversight budget for the  
56 District Board of Supervisors as set forth in Attachment F to this resolution, titled "2012  
57 District Oversight Budget".

58           SECTION 7. The Board adopts the 2012 opportunity fund project list, as set forth  
59 in Attachment G to this resolution, titled "2012 Subregional Opportunity Fund  
60 Allocations".

61           SECTION 8. In accordance with the interlocal agreement between the District  
62 and King County, Section 3.5, King County shall notify the District Executive Director in  
63 writing if the County needs to modify or reprioritize capital projects. The interlocal

64 agreement, Section 5, provides that if King County needs to amend the annual budget or  
65 work plan, King County should prepare an amendment for the Board's review and action  
66 by resolution. King County's notifications to the District should include information  
67 regarding variations within project budgets of more than twenty percent in the  
68 "acquisition", "design", "construction", "contingency" and "total" expenditure categories,  
69 shown on Attachments C and D to this resolution.

70 SECTION 9.

71 A. The Board of Supervisors authorizes the extension, enlargement, acquisition  
72 or construction of improvements, as applicable, as set forth on Attachments D and E of  
73 this resolution.

74 B. The 2006 King County Flood Hazard Management Plan ("Flood Plan"), as  
75 amended, serves as the comprehensive plan of development for flood control and  
76 floodplain management, and has been prepared for the streams or watercourses upon  
77 which the improvements will be enlarged, extended, acquired, or constructed. The  
78 improvements authorized herein generally contribute to the objectives of the Flood Plan.

79 C. For improvements that are to be constructed, preliminary engineering studies  
80 and plans have been made, consisting of one or more of the following: the Flood Plan, as  
81 amended, preliminary feasibility analyses, conceptual designs, and design manuals, and  
82 such plans and studies are on file with the county engineer.

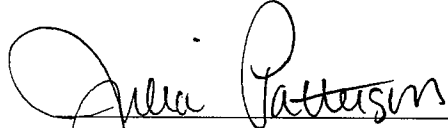
83 D. Estimated costs for acquisitions and improvements together with supporting  
84 data are set forth on Attachments D and E.

85           E. The improvements set forth in Attachments D and E are determined to benefit  
86 the county as a whole, as well as the zone.  
87

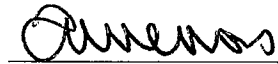
FCD Resolution was introduced on and passed as amended by the King County Flood Control District on 11/14/2011, by the following vote:

Yes: 6 - Mr. Phillips, Mr. Gossett, Ms. Patterson, Ms. Lambert, Mr. Ferguson and Mr. McDermott  
No: 0  
Excused: 3 - Mr. von Reichbauer, Ms. Hague and Mr. Dunn

KING COUNTY FLOOD CONTROL ZONE  
DISTRICT  
KING COUNTY, WASHINGTON

  
\_\_\_\_\_  
Julia Patterson, Chair

ATTEST:

  
\_\_\_\_\_

Anne Noris, Clerk of the District

**Attachments:** A. 2012 Work Program 10-31-11, adopted November 14, 2011, B. 2012 Annual Budget 10-31-11, C. 2012 Operating Budget 10-31-11, D. 2012 Capital Budget 10-31-11, E. Six-Year CIP 2012-2017 10-31-11, F. 2012 District Oversight Budget 10-31-11, G. 2012 Subregional Opportunity Fund Allocations 10-31-11

## King County Flood Control District 2012 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
  - KCFCD Implementation
  - Resource Management, Annual Maintenance, and Facility Monitoring
  - Management, Finance, Budget and General Administration
  
- Capital Improvement Program (CIP) King County shall provide a recommendation to the Executive Committee by March 31, 2012 regarding expenditure rate goals and capital budget performance goals.
  - 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.

#### 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.

### KCFCD Advisory Committee Coordination

- Staff and coordinate the KCFCD 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 KCFCD to ensure consistent outreach across basins.
- Report KCFCD 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

- Provide the Executive Committee with a report on short-term borrowing options by March 31, 2012.
- 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

**King County Flood Control District**  
**2012 Budget**  
**Attachment B**

October 31, 2011

<b>Program</b>	<b>2011 Approved</b>	<b>2011 Revised</b>	<b>2012</b>
<i>Flood District Administration</i>	\$473,000	\$647,062	\$687,864
<i>Levy Suppression Payment</i>		\$3,258,000	
Net Flood District Administration	\$473,000	\$3,905,062	\$687,864
Maintenance and Operation	\$7,107,188	\$7,805,537	\$8,368,689
<i>Proposed Construction &amp; Improvements</i>	\$34,845,464	\$65,578,029	\$30,025,046
<i>Levy Suppression Contra</i>	(\$8,500,000)	\$0	\$0
Net Construction and Improvements	\$26,345,464	\$65,578,029	\$30,025,046
Bond Retirement and Interest	\$0	\$0	\$0
Fund Balance (Reserve)	\$3,325,580	\$5,103,137	\$6,980,535
<b>Total</b>	<b>\$37,251,232</b>	<b>\$82,391,764</b>	<b>\$46,062,135</b>

**King County Flood Control District**  
**2012 Operating Budget**  
**Attachment C**

October 31, 2011

	<b>2011 Adopted</b>	<b>2011 Revised</b>
Annual Maintenance	\$1,508,460	\$1,508,460
Flood Hazards Plan, Grants, Outreach	\$523,930	\$720,136
Flood Hazard Studies, Maps, Technical Services	\$1,482,056	\$1,962,576
Flood Preparation, Flood Warning Center	\$372,421	\$372,421
Program Management, Supervision, Finance, Budget	\$707,867	\$713,901
Program Implementation	\$1,823,966	\$1,839,555
Overhead / Central Costs	\$688,489	\$688,489
<b>Total</b>	<b>\$7,107,188</b>	<b>\$7,805,537</b>

**2012**

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\$1,478,481

\$485,268

\$1,172,787

\$463,757

\$580,620

\$2,499,228

\$1,688,548

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**\$8,368,689**

**King County Flood Control District**  
**2012 Capital Budget**  
**Attachment D**

October 31, 2011

<b>Basin</b>	<b>Acquisition</b>	<b>Design</b>	<b>Construction</b>	<b>Contingency</b>
Snoqualmie River Basin	\$3,510,810	\$1,786,200	\$1,202,857	\$133,651
Cedar River Basin	\$0	\$1,648,872	\$1,392,400	\$143,600
Green River Basin	\$3,427,532	\$1,503,500	\$3,568,415	\$396,491
White River Basin	\$0	\$0	\$2,700,000	\$300,000
Seattle	\$0	\$0	\$3,500,000	\$0
Maintenance / Monitoring	\$0	\$0	\$409,000	\$0
Subregional Opportunity Fund	\$0	\$0	\$3,630,219	\$0
Countywide Miscellaneous	\$0	\$0	\$126,500	\$645,000
<b>Total</b>	<b>\$6,938,342</b>	<b>\$4,938,572</b>	<b>\$16,529,391</b>	<b>\$1,618,741</b>

**Total**

\$6,633,518

\$3,184,872

\$8,895,937

\$3,000,000

\$3,500,000

\$409,000

\$3,630,219

\$771,500

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\$30,025,046

# King County Flood Control District

## Six-Year CIP 2012 - 2017

### Attachment E

October 31, 2011

Name	2012	2013	2014	2015	2016	2017
Snoqualmie River Basin	\$6,633,518	\$11,850,741	\$8,102,019	\$7,070,415	\$6,136,781	\$3,446,600
Cedar River Basin	\$3,184,872	\$4,436,733	\$8,727,125	\$6,849,837	\$6,201,848	\$5,212,326
Green River Basin	\$8,895,937	\$18,028,774	\$11,117,486	\$6,151,405	\$13,563,507	\$6,666,269
White River Basin	\$3,000,000	\$3,567,198	\$163,909	\$2,251,018	\$0	\$2,575,201
Seattle Projects	\$3,500,000	\$10,000,000	\$10,000,000	\$5,750,000	\$0	\$0
Construction Monitoring/Maintenance	\$409,000	\$418,270	\$427,818	\$437,653	\$447,782	\$458,216
Subregional Opportunity Fund	\$3,630,219	\$3,688,651	\$3,751,916	\$3,823,543	\$3,902,040	\$3,986,897
Countywide Miscellaneous	\$771,500	\$303,045	\$304,636	\$306,275	\$307,964	\$309,703
<b>Total</b>	<b>\$30,025,046</b>	<b>\$52,293,412</b>	<b>\$42,594,909</b>	<b>\$32,640,145</b>	<b>\$30,559,921</b>	<b>\$22,655,212</b>

<b>Total</b>
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\$43,240,072
\$34,612,740
\$64,423,378
\$11,557,326
\$29,250,000
\$2,598,739
\$22,783,266
\$2,303,123
<hr/>
\$210,768,645

# King County Flood Control District

## 2012 District Oversight Budget

### Attachment F

October 31, 2011

	2011	2011 Revised	2012
Management & Support	\$250,000	\$185,000	\$167,500
Communications		\$65,000	\$52,500
Levy Prorationing management and legal services		\$117,977	
Management carryforward		\$56,085	
Rent and Equipment	\$10,000	\$10,000	\$5,000
Legal Services	\$82,000	\$82,000	\$90,000
Accounting	\$65,000	\$65,000	\$95,000
State Auditor	\$15,000	\$15,000	\$15,000
Council staff and other professional services	\$36,000	\$36,000	\$45,000
Expenses	\$15,000	\$15,000	\$3,000
SWLSFCZD Closeout - Transfer to Bellevue	\$0	\$0	\$139,864
Insurance	\$0	\$0	\$75,000
<b>Total</b>	<b>\$473,000</b>	<b>\$647,062</b>	<b>\$687,864</b>

# King County Flood Control District

## 2012 Subregional Opportunity Fund Allocations

### Attachment G

October 31, 2011

Jurisdiction	2012 Opportunity Fund Allocation	Project Name
Algona	\$3,960	N/A
Auburn	\$69,746	Mill Creek Flow Improvement Project at Wetland 5K
Beaux Arts	\$1,151	N/A
Bellevue	\$362,013	1. Valley Creek NE 21st Street Flood Control Project 2. Kelsey/ SE 9th-Lake Hills Flood Control Project 3. SE 30th St./Sunset Creek Improvements –Phase 2
Black Diamond	\$6,289	N/A
Bothell	\$27,965	N/A
Burien	\$50,992	N/A
Carnation	\$2,177	N/A
Clyde Hill	\$16,120	N/A
Covington	\$19,886	Stormwater conveyances improvements on SE 268 <sup>th</sup> St.
Des Moines	\$30,727	N/A
Duvall	\$8,986	Retrofitting Carrie Rae Stormwater Pond
Enumclaw	\$11,148	N/A
Federal Way	\$93,280	N/A
Hunts Point	\$8,693	N/A
Issaquah	\$65,482	N/A
Kenmore	\$31,073	N/A
Kent	\$116,022	Upper Russell Road Levee

King County	\$478,964	1. Public Safety Emergency Capital Projects; 2. Horseshoe Lake Flood Reduction Implementation; 3. Clough Creek Interim Sediment Removal; 4. May Creek Flood Reduction Program: May Creek Drainage Improvement Project; 5. Mullen Creek Drainage Improvements;
Kirkland	\$118,896	Totem Lake outlet improvements
Lake Forest Park	\$23,496	McAleer/Lyon Creek Flood Mitigation
Maple Valley	\$27,217	N/A
Medina	\$28,580	Medina Park Stormwater Ponds Retrofit
Mercer Island	\$97,486	N/A
Milton	\$836	N/A
Newcastle	\$21,107	Lake Boren flooding remediation
Normandy Park	\$12,954	Deferred
North Bend	\$9,083	N/A
Pacific	\$4,724	Deferred
Redmond	\$134,245	Tosh Creek flood prevention project at West Sammamish Parkway
Renton	\$123,747	Lower Cedar River Flood Hazard Reduction Project
Sammamish	\$93,517	Deferred
SeaTac	\$29,044	Deferred
Seattle	\$1,326,606	Meadowbrook Pond detention facility improvements
Shoreline	\$75,348	Upgrading stormwater conveyance system at Meridian Park
Skykomish	\$245	N/A
Snoqualmie	\$18,911	N/A
Tukwila	\$42,921	1. Lily Pointe Levee setback easement 2. Gilliam Creek Trash Rack
Woodinville	\$28,192	Woodinville-Duvall Road drainage improvements
Yarrow Point	\$8,393	Northeast 42 <sup>nd</sup> Street stormwater improvements
Total	\$3,630,219	

Project Description
Defer funds for a future year.
This project will alleviate flooding problems along Mill Creek due to low gradient and high sediment loading. Increase in culvert capacity and stream channel re-establishment as well as riparian habitat restoration will improve flow while also providing salmon habitat benefits.
Defer funds for a future year.
<p>1. Analysis of alternatives to reduce flooding from Valley Creek. Select best alternative using social, environmental and technical criteria and design the project</p> <p>2. Feasibility study to ascertain inter-relatedness of sources of flooding in sub-basin. An alternative analysis will be followed by the design of the best alternative.</p> <p>3. This multi-phase project addresses street and structural flooding. This phase will restore channel conveyance capacity and stabilize the streambanks.</p>
Defer funds for a future year.
Defer funds for a future year.
Defer funds for a future year.
Defer funds for a future year.
Defer funds for a future year.
Construct ditches and catch basins and install storm pipes in an area where such facilities do not exist. This will reduce flooding to adjacent properties. Furthermore, water will be treated before it enters Pipe Lake.
Defer funds for a future year.
Retrofit the stormwater pond by increasing its volume thereby attenuating peak discharge rates, improve water quality and reduce downstream erosion.
Defer funds for a future year.
Defer funds for a future year.
Defer funds for a future year.
Defer funds for a future year.
Defer funds for a future year.
Levee is not built to current standards for rapid draw-downs. A secondary levee will be built and a road and utilities will be relocated.

<p>1. Unforeseen flood-related incidents require the maintenance of an emergency fund to protect public safety, property and public infrastructure. This fund will help with the design, construction, technical assistance and partnership cost-share of emergency projects.</p>
<p>2. Design and install a pump system that will convey flow from the lake to a stormwater facility thereby reducing the threat of flooding to nearby residences. Once installed the community will be responsible for securing, operating and maintaining the pump system.</p>
<p>3. Clough Creek transports significant sediments and debris from Rattlesnake Ridge. This has caused near annual flooding at a triple culvert crossing under 415th Ave. SE. Funds will be used as match to a FEMA grant to acquire and demolish a floodway structure and design and construct a sedimentation facility. FEMA grant is still in application stage.</p>
<p>4. Two projects will be selected to reduce flooding duration during small storm events. This will entail vegetation removal, dredging and sensitive area mitigation and monitoring. The second project will consist of installing sedimentation features to reduce deposition in May Creek.</p>
<p>5. The project will consist of stream reconnaissance of agricultural drainages and the restoration of these conveyances to recent historical levels for draining fields. Mitigation measures will be incorporated. A larger</p>
<p>Design and construction of an improved outflow channel at Totem Lake to include sediment removal, new outflow channel and revegetation of outflow channel banks to prevent choking from non-native vegetation.</p>
<p>Demolish frequently flooded structure purchased in 2011.</p>
<p>Defer funds for a future year.</p>
<p>The project will increase pond capacity and meter discharge to match downstream channel capacity</p>
<p>Defer funds for a future year.</p>
<p>Defer funds for a future year.</p>
<p>The design will consist of a weir/pipe system at the lake to reconnect it to its former channel, Boren Creek at a wetland located 800 ft downstream.</p>
<p>Defer funds for a future year.</p>
<p>Defer funds for a future year.</p>
<p>Defer funds for a future year.</p>
<p>The design will address the elimination of gravel deposition, the replacement of an undersized culvert and the revegetation of the creek in the project footprint. Besides addressing flooding, this project will also have fish</p>
<p>Planning for future phases of gravel removal, maintenance dredging and monitoring of associated mitigation site (Elliott Spawning Channel)</p>
<p>Defer funds for a future year.</p>
<p>Defer funds for a future year.</p>
<p>Facility improvements include better maintenance access, dredging and construction of a high flow by-pass into the pond.</p>
<p>Replacement of several undersized culverts causing flooding in nearby residential properties. Upgrade will convey stormwater from 50-100 year storm events into the Wallington Ave. N Right of Way.</p>
<p>Defer funds for a future year.</p>
<p>Defer funds for a future year.</p>
<p>1. Levee setback required purchase of easement on private property. Funds will be used to pay interest on an easement.</p>
<p>2. Install trash rack to prevent debris from blocking flood gate at Gilliam Creek outlet into Green River</p>
<p>Installation of new culvert pipe and catch basin improvements</p>
<p>Design for the upgrade of a failing and undersized stormwater conveyance</p>