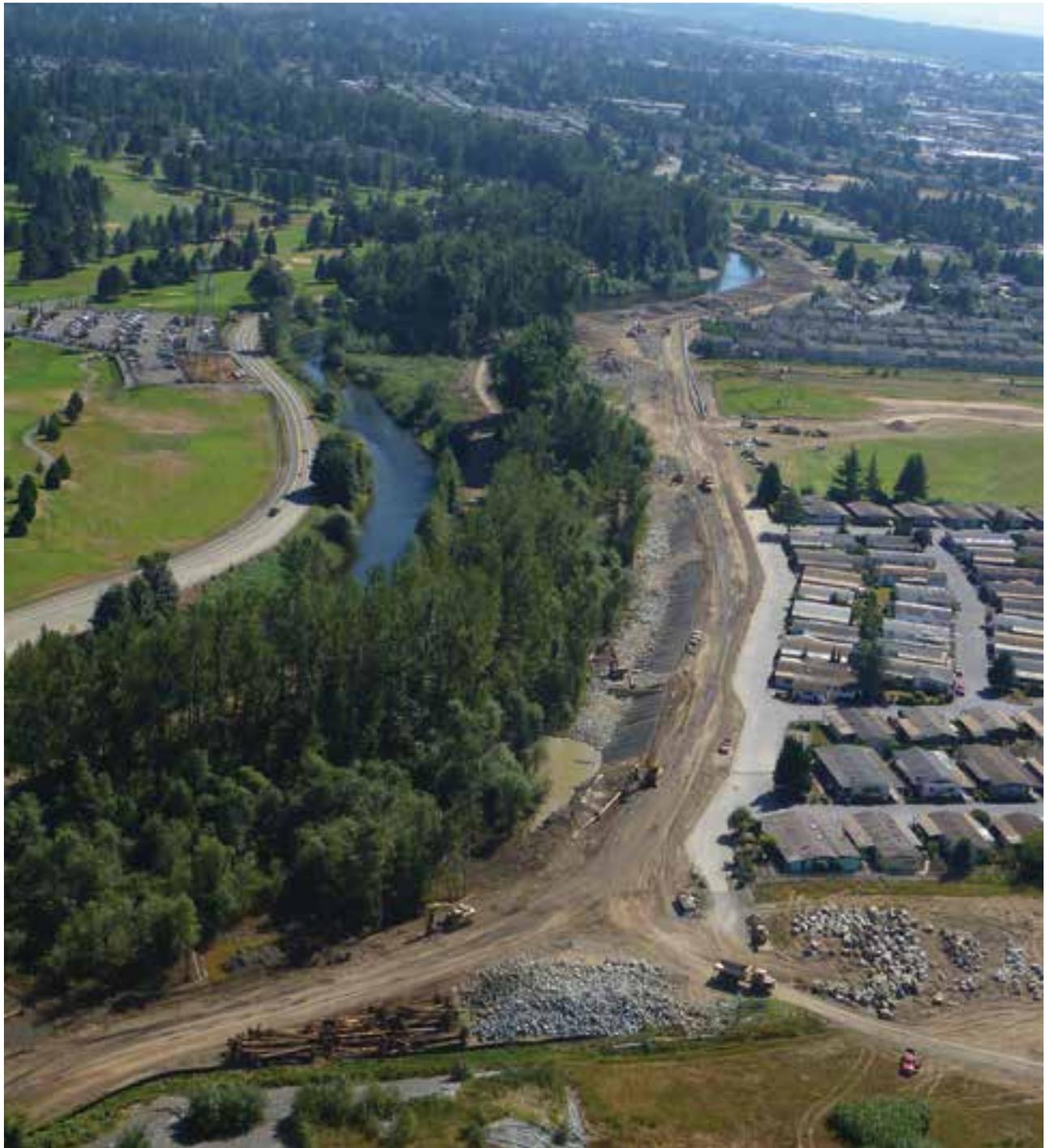


# King County Flood Control District Scope of Services 2013 Annual Report and 2014 First Quarter Performance Report

*April 2014*





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*April 2014*



Department of Natural Resources and Parks  
Water and Land Resources Division

**River and Floodplain Management Section**

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*Cover photo: Reddington Levee  
Setback and Extension Project,  
Green River*

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# I. Introduction and Highlights

The King County Flood Control District (Flood District) work program is implemented by the Water and Land Resources (WLR) Division of the King County Department of Natural Resources and Parks. This annual report summarizes the accomplishments of the Flood District's two major work program components:

1. A capital improvement program to rehabilitate flood protection facilities and other projects to protect people and property at high risk of flooding.
2. Operational and programmatic activities, such as identifying and communicating flood and channel migration risk to the public; preparing for and responding to flood events; maintaining more than 500 facilities in King County's flood protection system; and coordination of the Flood District's Advisory Committee and Basin Technical Committees.

## Report period highlights:

- **Green River System-Wide Improvement Framework (SWIF)** – In 2013, the U.S. Army Corps of Engineers (the Corps) approved the Flood District's Letter of Intent to complete an integrated flood management plan, known as a SWIF, for the lower Green River by 2015 (p. 11).
- **Major construction projects** – The completion of the Reddington Levee Setback Project is part of a larger overall flood management strategy for the lower Green River that also includes the development of the System-Wide Improvement Framework. A two-decade long effort to reconnect the Cedar River's floodplain at Rainbow Bend near Maple Valley, was also completed. Engineering and design work is underway for the Willowmoor Floodplain Restoration project (Sammamish); the Middle Fork Snoqualmie and South Fork Levee System improvements (Snoqualmie) and the Tolt corridor (Tolt).
- **Flood damage repairs** – Completion of the Belmondo Revetment Enhancement Project (Cedar) finished bank stabilization and flood control work that was initiated during an emergency repair in 2009 due to flooding. Engineering design of the Winkelman and Sinnema Quaale revetment repairs (Snoqualmie) are underway with final planned design expected in 2014 and construction in 2015.



*Belmondo Revetment Enhancement Project, Cedar River.*

- **Acquisitions for levee or revetment projects** – Nineteen parcels were acquired at a cost of \$10.6 million to support the following flood-risk reduction projects: Riverbend Mobile Home Park acquisition project (Cedar River); the Right Bank Levee Setback (White River); the Tolt River Mile 1.1 Levee Setback, San Souci Flood Risk Reduction, and Tolt River Natural Area projects (Tolt River); and other flood risk reduction acquisitions in the Upper and Lower Snoqualmie Valley.



- **Agricultural flood mitigation** – One barn was elevated and technical assistance was provided to model four farm pads in 2013 and to expand or build eight new farm pads in 2014 to support the sustainability of agricultural production in the lower Snoqualmie Valley.

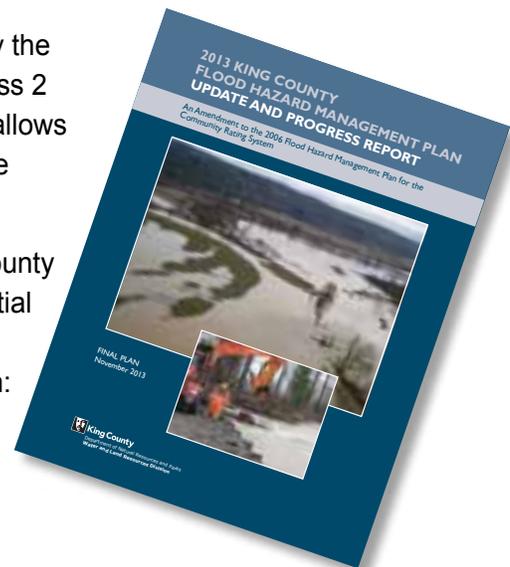


*During and after photos of a 2013 farmhouse elevation in the Snoqualmie Valley.*

- **Flood buyout, relocations, deconstructions and demolitions** – Demolished, removed or salvaged 32 structures from flood-prone locations and future levee setback sites.
- **Home elevations** – Two frequently-flooded homes were elevated in the Snoqualmie Basin. Project management was provided for an additional 15 residential structure elevations.

- **Flood insurance savings** – King County was recertified by the Federal Emergency Management Agency (FEMA) as a Class 2 county under the Community Rating System (p. 19) which allows unincorporated King County residents to continue to receive a flood insurance discount of up to 40 percent.

- **Flood hazard management planning** – The 2013 King County Flood Hazard Management Plan was adopted and substantial data collection and technical analyses was completed on three river corridor planning efforts in the Snoqualmie Basin: on the Tolt River and the South and Middle forks of the Snoqualmie River. Work on a Cedar River corridor plan has also been initiated.



### 2008-2013 Capital Improvement Projects and Mitigation Accomplishments by Basin

RIVER BASIN	• Acquisitions* • Acres • Expenditures	Homes elevated**	Agricultural structures elevated	Farm pads built	Structures demolished or removed	Construction projects completed
<b>Snoqualmie-Skykomish</b>	<ul style="list-style-type: none"> <li>• 86 parcels</li> <li>• 224.6 acres</li> <li>• \$19,242,085</li> </ul>	54	3	26	65 demolished	33
<b>Cedar-Sammamish</b>	<ul style="list-style-type: none"> <li>• 34 parcels</li> <li>• 69.2 acres</li> <li>• \$18,921,000</li> </ul>	0	0	0	81 demolished	26
<b>Green-Duwamish</b>	<ul style="list-style-type: none"> <li>• 13 parcels</li> <li>• 44.4 acres</li> <li>• \$9,220,065</li> </ul>	0	0	0	1 demolished 11 relocated	16
<b>White</b>	<ul style="list-style-type: none"> <li>• 27 parcels</li> <li>• 18.09 acres</li> <li>• \$4,908,799</li> </ul>	0	0	0	13 demolished 6 relocated	1
<b>TOTAL</b>	<ul style="list-style-type: none"> <li>• 160 parcels</li> <li>• 356.29 acres</li> <li>• \$52,291,949</li> </ul>	54	3	26	160 demolished 17 relocated	76

\* Includes King County Flood Control District funding, grant expenditures, and combined funding with the Rural and Regional Services Section of the King County Department of Natural Resources and Parks.

\*\* Home elevations as of 1993.



## II. Capital Improvement Program

The Flood District's 2013 capital program included 70 capital projects.<sup>1</sup> More than 90 percent of the Flood District's 2013 budget of \$108 million is allocated to the capital component of the work plan, backed by state and federal revenue of \$3.6 million to implement flood damage repairs and acquire or elevate at-risk residential structures.

The Flood District's capital projects meet one or more of the following flood hazard management objectives:

1. Repair, rehabilitate, and improve flood facility protection throughout major commercial, residential areas;
2. Reduce hazards by removing flood, erosion, and landslide-prone residential structures;
3. Improve flood water conveyance and capacity; and
4. Provide safe access to homes and businesses by protecting key transportation routes.

### Program highlights:

- **Winkelman and Sinnema Quaale revetment reconstruction,**

**Snoqualmie River** – These two major projects to repair eroding banks along public infrastructure on the mainstem lower Snoqualmie advanced into their formal design phase in 2013. The Winkelman revetment provides protection to a large City of Seattle water supply pipeline, while Sinnema Quaale provides protection to SR-203 and the Snoqualmie Valley Trail. Progress in 2013 included procuring contracts with engineering consultants for design services, and in the case of Sinnema Quaale, selection of a preferred alternative for addressing the bank erosion.



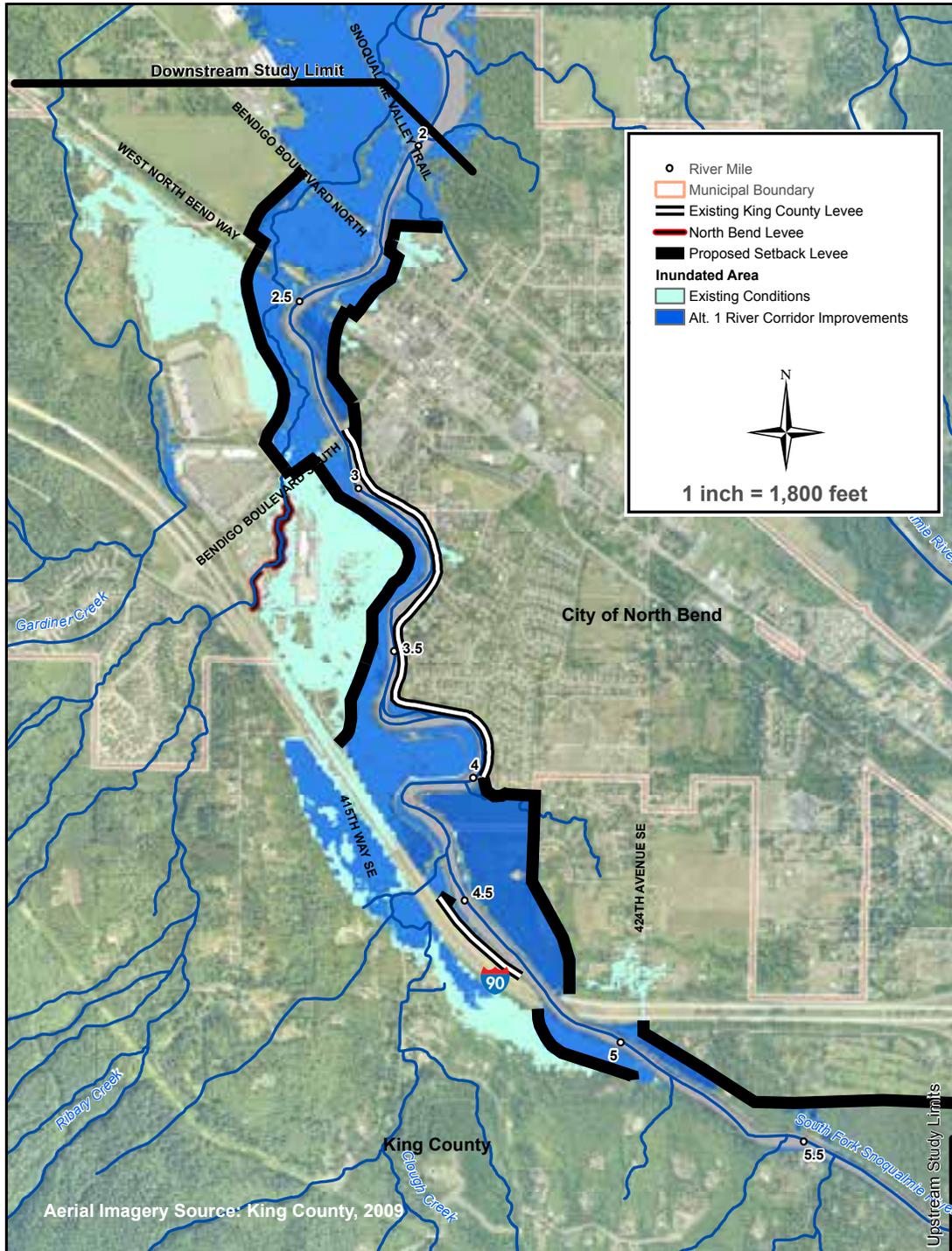
*Rainbow Bend Levee Removal and Floodplain Reconnection Project, Cedar River.*



*The new side channel reconnects the river to its historical floodplain, reduces flood risks and protects the highway and downstream infrastructure.*

<sup>1</sup> This number includes every active project, regardless of the level of activity.

- **Circle River Ranch** – King County staff met with the Circle River Ranch community along the South Fork Snoqualmie River to discuss the flood and channel migration risks faced by residents. King County has acquired two of the five most at-risk properties in the neighborhood as part of its flood risk reduction strategy for the reach.
- **South Fork Levee Improvement** – A draft levee characterization report was completed and analysis began of long-term comprehensive solutions that will address risk throughout the South Fork Snoqualmie River Corridor. Short-term actions being considered include levee repairs, levee setbacks, levee crest elevations and sediment management. Long-term solutions under consideration include two approaches to corridor flood management: constructing large scale levee setbacks and raising the levees in place.



*A long-term alternative for large-scale levee setbacks along the South Fork Snoqualmie River Corridor.*

- **Belmondo Revetment Enhancement, Cedar River** – This flood-risk reduction project, funded by FEMA, completed emergency repair work done as a result of flooding in 2009 by providing substantial mitigation and a vegetated embankment. Extensive design reviews, public input and input from regulatory agencies resulted in a project that balanced habitat requirements and recreational safety considerations.

- **Willowmoor Floodplain Restoration, Sammamish River**

– A Stakeholder Advisory Committee, convened by King County, began meeting in 2013 to provide input on this project that will address several longstanding flood control and habitat issues on the Sammamish River at its outlet from Lake Sammamish.

The first phase of the project – planning and 30 percent design by the end of 2014 – is co-funded by the City of Redmond’s Sub-Regional Opportunity Fund and will be done in coordination with the King County Parks and Recreation Division, the Muckleshoot Indian Tribe, environmental groups and lakeside property owners. Based on the low priority flood-risk score of the project, Flood District funding is not slated for construction. Instead grant applications will be submitted for implementation funding.



*Willowmoor Floodplain Restoration Study Area Map.*

- **Rainbow Bend, Cedar River** – The Flood District funded \$1 million for the final phase of this flood risk-reduction and habitat improvement project that was over 20 years in the making. In 2013, the obsolete levee was removed which completed the reconnection of the river to the historic floodplain and side channels. Flood protection goals were met in earlier phases of the project which included flood buyout of more than 50 flood-prone homes and relocation of the residents out of harm’s way.
- **Riverbend Mobile Home Park Acquisition, Cedar River** – Located in an area with a severe channel migration risk, this mobile home park was acquired through a partnership that included \$3 million in Flood District funding and \$4.1 million in funding from the Washington State Department of Ecology awarded to the WLR Division. Community outreach was done in English and Spanish about the acquisition and relocation process, as well as dedicated flood preparedness education. Relocations began in 2013, targeting the most vulnerable homes first, with the remaining relocations continuing through 2014 and possibly 2015. Once residents are safely relocated, at-risk structures will be removed and existing levees will be set back to improve flood conveyance, reduce impacts on neighboring properties and infrastructure, and improve habitat.

- **Gravel Removal, Cedar River** – With Flood District support, the City of Renton is leading this \$5.3 million project to remove approximately 125,000 cubic yards of accumulated sediments from the river channel in 2015. Contracting, stakeholder outreach, permitting and 30 percent project design were completed in 2013. The goal is to maintain 100-year flood protection for public safety, infrastructure and capital improvements through the heavily urbanized lower 1.2-miles of the Cedar River, including the Boeing 737 Production Facility and the Renton Municipal Airport. Final design and permitting are expected to be completed by early 2015, and construction is anticipated to commence in summer 2015.

- **Green River System-Wide Improvement Framework (SWIF)** – In 2013, the Corps approved the Flood District’s Letter of Intent to complete a SWIF by February 2015. The result will be an integrated River and Floodplain Management Plan for the lower Green River that improves flood protection, public safety and ecological, economic, and community resiliency. A Technical Advisory Committee and an Advisory Council were convened to provide technical, policy, and strategic input throughout the project. The project is funded by the Flood District and a \$300,000 grant from the State of Washington through the Puget Sound Partnership.



*The Green River System-Wide Improvement Framework will improve flood protection, public safety and the resiliency of the Kent Valley’s ecology, economy and community.*

- **Reddington Levee Setback, Green River** – Construction of this new, mile-long levee along the western bank of the Green River was completed on time and within budget. The new levee protects more than 300 residential properties and 275 commercial properties with a combined value of \$680 million, plus several major transportation corridors and thousands of Auburn residents. The \$17 million project involved excavating enough soil to fill 80,000 full-sized, pickup trucks, installing nearly 4,300 feet of drainage pipe, placing 340 logs and 48,000 tons of rock and planting more than 18,000 native trees and shrubs (p. 21) to stabilize soil and provide habitat for fish and wildlife.



*Construction of the Reddington Levee Setback Project on the Green River, August 2013.*

- **Black River Pump Station Improvements, Green River** – Major work to improve operations and safety at the pump station, which regulates flows from the Black River into the Green River, were completed in 2013, including fuel system upgrades, sediment removal and the replacement of bulk storage diesel tanks outside the facility. Early in the year, several gallons of oil spilled into the river through an engine leak and was contained. Additional improvements are being evaluated for 2014-15 implementation.
- **City of Kent Levee Improvement Projects** – The following projects were managed by the City of Kent, with funding and support from the Flood District, as part of its Green River Levee Improvement Program to provide flood protection to countless businesses, homes and infrastructure in the Kent valley.
  - **Boeing Levee Improvement** – A new earthen levee and flood wall combination was constructed behind 1,000 feet of the existing Boeing Levee on the right bank in 2013. The new segment and wall exceed FEMA insurance mapping minimum requirements for a 100-year flood protection. This project was funded by the City of Kent and the Flood District, backed by a \$2.07 million grant from the Washington State Department of Ecology grant.
  - **Hawley Road Levee** – Earthen levees were installed behind the existing Hawley Road Levee on the right bank of the river in 2013. Of the \$1.2 million project, \$900,000 was funded by the Flood District, backed by a grant from the Department of Ecology. The final project phase, to include landscaping and road improvements, is expected in 2014.
  - **Briscoe-Desimone Levee Improvements** – The construction contract for this levee improvement project was awarded in January 2014 with work scheduled to begin in April. The Flood District is funding the \$18 million project, backed by a \$7 million grant from the Department of Ecology.
  - **Russell Road Upper Levee Improvements** – The City of Kent began installation of a 1,190 foot secondary levee behind the existing Russell Road Upper Levee-North reach on the right bank and in the first quarter 2014, an interlocal agreement is anticipated between the Flood District and the City of Kent to construct another secondary levee along the Russell Road Upper Levee-South reach. Flood District funding for both projects is \$3.8 million.
- **Countyline Levee Setback, White River** – This project will increase flood conveyance and storage capacity to protect the cities of Pacific and Sumner. In fall 2013, the 60 percent design level plans were completed and permit applications were provided to federal and state review agencies when an appeal was submitted under the State Environmental Protection Act, delaying the project. The appeal was settled in the first quarter 2014 and the project is scheduled for 2015 construction.
- **Right Bank Levee Setback, White River** – Feasibility work on this capital project to construct a setback levee along the Pacific City Park boundary and adjacent residential areas on the right bank began in 2013. In preparation for construction, five parcels were acquired, two structures were demolished and three manufactured homes were surplused and relocated.
- **Sub-Regional Opportunity Fund** – This fund is a percentage of the Flood District's annual tax revenue, which is allocated to jurisdictions based on prorated assessed value for approved projects. In 2013, \$2.91 million in reimbursements were paid to 18 King County jurisdictions to support flood risk reduction activities. For example, the City of Kent offset the costs of removing sandbags along the Green River; and the City of Kirkland retrofitted stormwater facilities to address long-standing flood issues at Totem Lake. The 2014 fund is \$5.25 million with a funding floor of \$10,000.

- **Collaborative watershed management grants** – In 2013, the Flood District funded \$3.15 million in grants for Watershed Resource Inventory Area (WRIA) collaborative watershed management for the Snoqualmie portion of WRIA 7, WRIs 8 and 9, and the King County portion of WRIA 10. The 2014 budget adopted by the Flood District Board of Supervisors includes \$4.02 million to continue this program. By the end of 2013, \$454,667 was paid to reimburse grant recipients.
- **Flood Reduction Fund** – New in 2014, this grant fund totaling \$2.6 million targets flood reduction projects throughout King County. An announcement of the fund availability was made in February 2014. A request for proposals was announced in March 2014 with a deadline of June 15, 2014. The selection of recipients will be announced shortly thereafter.

# III. Operational and Programmatic Activities

## A. Regional Flood Warning Center, Flood Preparedness and Outreach

The Flood District's operational work program includes characterizing hazards and vulnerabilities; preparing and educating citizens for flood events; coordinating emergency responses; running the regional flood warning center during flood events; and ensuring consistency across basins for post-flood recovery actions and maintenance.

**2013-2014 Flood Events and Response** – While no major floods occurred during the 2013-2014 season, the Flood Warning Center opened due to flood conditions of short duration nine times. During the Dec. 23 and March 5 floods, both the Tolt and Snoqualmie rivers exceeded the phase 2 threshold, the other minor flood events were caused by the Snoqualmie River exceeding phase 2. During moderate flooding March 8-11, the Tolt, Snoqualmie and Green rivers exceeded phase 3 and the Cedar River exceeded phase 2. During inspections, flood patrol staff identified damage in several locations of the Green River levee system that will need further inspection, though no significant damages were reported.

Despite the lack of significant flooding, public interest in river data remained high. Total flood warning website page views exceeded 66,000 in 2013 and searches for data from the mobile site and mobile apps exceeded 16,700 visits. As more flood data has become available online, phone calls to the Flood Warning Center and automated information line have declined from more than 2,000 calls in 2012 to 1,648 in 2013.

**White River Emergency Flood Protection Barrier** – Sediment build-up in the White River alongside the City of Pacific created an increased flood risk for the area in 2013. In response, more than 5,000 lineal feet of HESCO barriers were installed by King County Roads crews to increase flood protection along 3rd Place



*Emergency action along the White River in the City of Pacific called for increasing the level of flood protection using HESCO barriers.*

SE, around the city park (closed for flood season) and for the White River Estates neighborhood. The Corps provided the HESCO units at no cost to the Flood District and the project was completed on time and under the \$425,000 budget authorized by the Flood District to fill and install the HESCO units.

**Flood Awareness Month and Take Winter By Storm campaigns –**

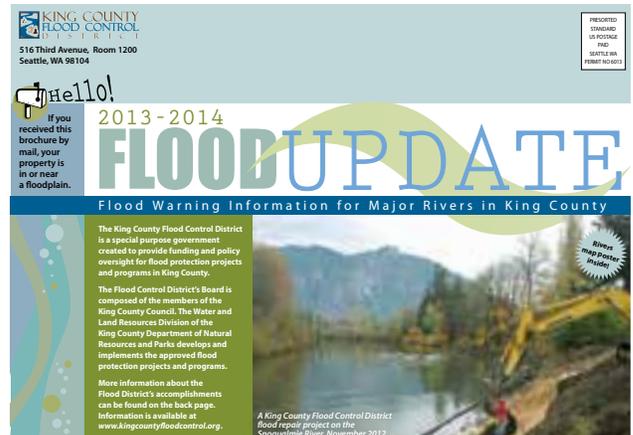
The Flood District participated in two annual outreach campaigns to support flood preparedness among King County residents. Elements included two news releases (Sept. 30 and Oct. 21), a multi-jurisdiction media event held on Oct. 21, demonstrating how to correctly use sandbags, and a related instructional video ([www.kingcounty.gov/floodservices](http://www.kingcounty.gov/floodservices)).



*The Flood District promoted the proper use of sandbags at this October 2013 media event as a partner of the award-winning Take Winter By Storm regional campaign.*

**2013-2014 Flood Update Brochure –**

As part of an annual campaign, this brochure was mailed to more than 10,000 addresses in the King County floodplain to provide flood warning, preparedness and response information and updates. The English version of the brochure was mailed; the English and Spanish versions were distributed to select King County libraries. The information will also be made available in 20 languages on the King County Flood Warning website ([www.kingcounty.gov/flood](http://www.kingcounty.gov/flood)).



**Flood Preparedness Media Tour –** On Oct. 30, WLR Division staff participated in the National Weather Service’s annual flood preparedness media tour. The tour group, which included staff from the Corps and King County Office of Emergency Management, visited nine local news organizations to brief reporters on what to expect during flood season, services offered to the public and how best to collaborate during a flood. Several news features resulted, including one on NPR featuring the new King County Flood Warning App. (“Worried about Flooding? There’s an App for That in King County,” Bellamy Pailthorp, National Public Radio, Nov. 4, 2013.)



*King County’s award-winning annual flood preparedness brochure in English and Spanish.*

**Interagency Flood Preparedness Meeting** – On Oct. 7, King County staff hosted an annual meeting for agency and city staff from throughout King County to coordinate and prepare for flood season. Presentations were given on the King County Flood Warning Program and the U.S. Army Corps of Engineers operation of major dams and flood management projects and programs in each of the major river basins. Staff also participated in a King County Winter Weather Seminar and pre-flood season coordination meetings with the Corps.

**Flood Preparedness Community Meetings** – Multiple community meetings were either hosted or attended by King County staff to provide dedicated outreach to communities that could be notably affected by flooding issues in 2013. Meetings were held with the North Bend community along the Snoqualmie River on Sept. 26; the Riverbend Mobile Home Park community along the Cedar River on Oct. 16 (all materials were translated into Spanish and interpreters provided); and the City of Pacific along the White River on Oct. 30.

#### **King County Flood Warning App –**

The Flood District's Flood Warning app was launched in September 2013 for both Android and iOS devices. With more than 900 downloads in the first four months it is the first and only stand-alone flood warning app nationwide. It was designed to allow the public to more readily track real-time and forecasted flooding conditions on King County rivers; augmenting previously available resources such as the mobile web site. A Microsoft Windows mobile app is planned for development in 2014.

**King County Flood Alerts** – More than 5,400 subscribers receive free automated Flood Alerts by either text message, email or phone call. In 2013 over 6,900 Flood Alert messages were sent.



*The new Flood Warning app provides users with real time data to help monitor river conditions.*

## **B. Flood Hazard Studies, Mapping and Technical Services Program**

**Preliminary Flood Insurance Rate Maps and Flood Insurance Study** – FEMA released the preliminary study and maps in Feb. 2013 for unincorporated and incorporated King County coastal areas, the Sammamish River and the White River near Enumclaw. King County provided review and comments on the mapping and attended staff-level meetings FEMA held with affected cities in April 2013. King County hosted public meetings on Vashon-Maury Island (Aug. 2013) and in the City of Redmond (Jul. 2013) where FEMA presented the preliminary mapping and provided information on flood insurance zones and requirements. A 90-day public appeal period was initiated by FEMA in September and appeals were received in December. FEMA will be reviewing the appeals in 2014 to determine if any revisions are warranted for the study and maps.

**River Facility Inspections and Geodatabase Inventory** – In 2013, 176 flood protection facilities and 107 of 159 maintenance and monitoring sites were inspected. Inspection data from annual field inspections of flood protection facilities and flood buyout properties is maintained in a geographic database of more than 500 river flood protection facilities and 1,427 river properties owned by King County. The database provides documentation of facility conditions, and compiles annual inspection reports that can be used to plan for future capital and maintenance needs.

**River Recreation Study** – To inform the planning, design and implementation of capital projects, a recreational river use study was conducted in priority reaches of the Snoqualmie, Cedar, Green and White rivers. Data was collected from June through September on the type and frequency of recreational use on each river. Study methods included intensive data collection by direct observation, in-person interviews, remote cameras, and aerial fly overs. The results will inform future river corridor and individual project planning and related policy.



*Data from the River Recreation Study will be used to inform future projects and corridor planning.*

The report is available at [www.kingcounty.gov/rivers](http://www.kingcounty.gov/rivers).

**Elevation Certificate Training and Repository** – King County maintains a repository of elevation certificates for unincorporated King County and makes them available to the public upon request. Recent changes in the National Flood Insurance Program have resulted in a tremendous increase in inquiries related to floodplain mapping and elevation certificates. In August, King County hosted an elevation certificate training so that local community officials could ensure that new permits are in compliance with local floodplain management codes. Representatives from six jurisdictions participated.

**Channel Migration Zone Mapping Methods Revision** – In conjunction with the King County Department of Permitting and Environmental Review (DPER) staff, a revised public rule for channel migration mapping methods was completed, public comment was solicited and DPER hosted a public meeting. Following comment review, King County’s public rule was adopted on February 28, 2014 and became effective on March 31, 2014.

## **C. Flood Hazard Planning and Grants, and Repetitive Loss Mitigation**

**Leveraging External Resources through Grants and Partnerships** – During the report period, the Flood District had three active FEMA grant-funded projects underway; three active Washington State Department of Ecology grants for levee projects; one FEMA Public Assistance grant for a repair project on the Cedar River; and two FEMA Flood Mitigation Assistance grant applications that were submitted but not awarded.

- **Hazard Mitigation Grant Program (multiple grants)** – In the Snoqualmie Basin, two home elevations were completed, eleven are under construction, one is waiting for contracts to be signed, and one is on hold due to foreclosure. One home, in the upper Snoqualmie Basin, has been acquired and the structure demolished.
- **Washington State Department of Ecology Grants** – Three levee improvement projects on the Green River received grant funding from the Department of Ecology: Hawley Road Levee Improvement, Boeing Levee Improvement, and Briscoe and Desimone Levee Improvement projects.

- **FEMA Public Assistance Program** – FEMA Public Assistance funding was used on the Cedar River Belmondo Levee to mitigate impacts caused by the emergency repair work done following the 2009 flood.
- **FEMA Flood Mitigation Assistance Grants** – Staff submitted two FEMA Pre-Disaster Mitigation grant applications to elevate 12 at-risk structures in the upper and lower Snoqualmie Valley, and acquire three at-risk properties in the lower Snoqualmie Valley and Cedar River areas. While landowners have signed letters of interest, these grants were not awarded due to FEMA funding limitations.

**King County Flood Hazard Management Plan** – The 2013 King County Flood Hazard Management Plan Update (Flood Plan Update) was adopted by the King County Council as a companion document to the 2007 Flood Hazard Management Plan (available at [www.kingcounty.gov/rivers](http://www.kingcounty.gov/rivers)). It is a technical update and progress report, updating information on flood and channel migration hazards, risks to people, property, and infrastructure, and the accomplishments since the King County Council created the King County Flood Control District in 2007. In 2014, the River and Floodplain Management Section of the WLR Division began river corridor planning efforts on the Snoqualmie, Green and Cedar rivers which will be integrated into the next required Flood Plan update in 2018.

**Community Rating System (CRS) Recertification** – King County and seven cities (Auburn, Bellevue, Issaquah, Kent, North Bend, Renton and Snoqualmie) participate in the CRS program under FEMA’s National Floodplain Insurance Program (NFIP). In 2013, the required CRS Recertification Process was successfully completed, confirming that King County’s flood risk reduction programs go beyond the NFIP minimum standards for floodplain management. King County’s floodplain management efforts benefit other cities and contribute to CRS insurance discounts in these communities. This, along with the adoption of the 2013 Flood Plan Update, preserves the flood insurance discount (up to 40 percent) available to residents of unincorporated King County for the next year. This discount saved policyholders more than \$850,000 in 2012 (2013 data not currently available from FEMA). Preparations have begun for a fall 2014 audit under FEMA’s new CRS Coordinators Manual.

## **D. King County Flood Control District Implementation**

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This work program element includes coordination with King County cities through the Basin Technical Committees (BTC) which are comprised of jurisdictions’ technical staff and the 15-member Advisory Committee of elected officials.

Activities in 2013 included multiple meetings in each basin to discuss basin strategies, corridor plans (including the Green River SWIF, p. 11), and to develop recommendations for the 2014 operating and capital budget and the 2014-2019 capital project list. The Advisory Committee’s Annual Report was transmitted to the Flood District Board of Supervisors (Board) by the King County Executive in August 2013 ([www.kingcounty.gov/rivers](http://www.kingcounty.gov/rivers)).

As part of the Board’s budget discussions in the fall of 2013, staff responded to Boardmember requests for information about a levy rate increase, which was ultimately adopted by the Board. The 2014 adopted Flood District budget also included several special program directions from the Board, including an external evaluation of the WLR Division as the service provider for the Flood District; a report on the use of consultants to implement the Flood District’s work program; and a report describing the WLR Division’s grant strategy for the Flood District.

During the first quarter of 2014, meetings of the BTCs and Advisory Committees are scheduled in preparation for the 2015 budget process. These meetings will also include updates on the status of corridor planning efforts on multiple river systems. Staff has also provided reports in response to the special program directions of the Board, and supported the Board's efforts to establish a new flood risk reduction grant program.

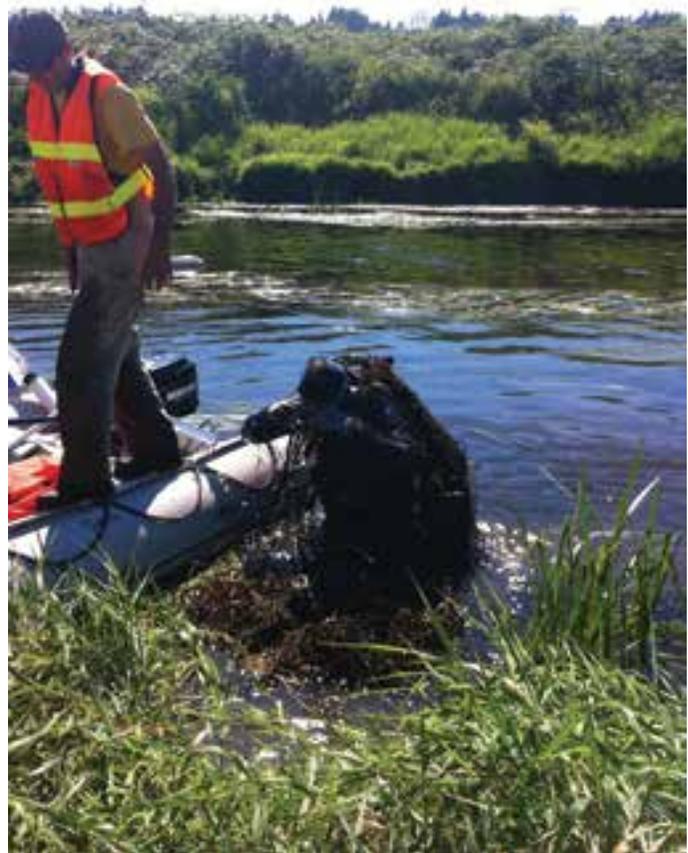
## **E. Resource Management, Annual Maintenance, and Facility Assessment Program**

**Large Wood Hazard Management** – In 2013, staff from the WLR Division worked with the King County Sheriff Marine/Dive/Rescue Unit, and on one occasion the City of Renton, to respond to five reports of large wood on the Cedar River. Of the five logs, one was moved, one was cut, two were left in place because they did not impede recreation; and one remains, which resulted in a temporary closure of that reach still in place. Total staff time was approximately 400 hours and expenses were approximately \$37,000.

**Sammamish River Transition Zone** – As part of the King County's Lake Sammamish Flood Reduction Plan, routine vegetation maintenance work and significant aquatic weed removal were completed in 2013 to increase flow conveyance. Divers removed approximately 6,000 lineal feet of aquatic weeds in the channel between NE 124th Street to NE 145th Street and 800 cubic yards of reed canary grass from approximately two acres of the transition zone. Monitoring to date has demonstrated that increased vegetation maintenance and the new sediment removal project have improved lake outflows for a given lake stage. Monitoring will continue through spring 2014.

**Vegetation and Land Management** – In 2013 and 2014, routine vegetation removal includes cutting blackberry bushes and tall grasses along 22 miles of levees to meet standards established under the Corps' Rehabilitation and Inspection Program and to enhance levee access for inspections and flood patrols. Twenty one parcels of King County land adjacent to rivers were mowed as part of the maintenance program.

The program continued its collaboration with the Cascade Land Conservancy (Cedar River) and Mountains to Sound Greenway (Raging River) to control Japanese knotweed on its flood protection facilities and flood buyout properties. Weed control work on the Snoqualmie, Cedar Green and White rivers was contracted directly by the WLR Division. More than 100 locations were treated to control this highly invasive



*Divers and snorkelers removed aquatic weeds from the Sammamish River Transition Zone as part of the Lake Sammamish Flood Reduction Plan.*

weed. In addition, a pilot project to replace the treated Japanese Knotweed with willow species resulted in the planting of over 1,800 willow stakes.

Installation of 18,200 plants on the Reddington Levee setback project has begun. Approximately 1,500 native plants were planted and maintained at nine small capital project and mitigation sites and an additional 176 plants were planted on three previously planted flood repair sites and one levee setback project site.

More than 100 flood protection facilities, repair projects and flood buyout properties – 20 percent of the 500 – were inspected in 2013 to collect monitoring data or identify maintenance needs. This included the identification of state-listed noxious weed infestations and necessary mowing to reduce the summer fire hazard and meet community expectations concerning aesthetics. These inspections resulted in the preparation of more than 70 maintenance work authorizations carried out by the Washington Conservation Corps, Earth Corps, Community Work Program and King County Roads crews. Thirteen project monitoring reports, including six final close-out reports, were completed.



*Following completion of construction on the Reddington Levee Setback project, planting is done to improve habitat, stabilize soil and prevent erosion. (Washington Conservation Corps crew)*

**Inspection and Monitoring of Maintenance Sites** – As noted, more than 100 inspections were completed in 2013 along with 13 regulatory post-project monitoring reports submitted to the King County Department of Permitting and Environmental Review.

In order to prevent illegal encampments, key properties were routinely inspected in 2013 resulting in a few evictions and cleanup efforts.

**Demolitions** – Thirty-three major structures (homes, mobile homes, cabins, barns and large garages) and one foundation were removed from fourteen flood buyout properties. This number includes 11 manufactured homes relocated during the Reddington Levee setback project and 22 other structures demolished countywide. One house was sold through surplus but has not yet been relocated.

During the first quarter of 2014, contracting for the demolition of eight structures is in progress. In addition, two manufactured homes were relocated and two others are pending relocation. One house sold for relocation in 2012 is scheduled to be moved to a new location in early 2014.

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

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### **Contract Management –**

New contracts and work orders executed in 2013 included:

- Forty-three engineering work orders and \$2,203,811 committed via these work orders;
- One small works roster construction contract totaling \$262,044;
- Three construction contracts totaling \$7,932,494;
- One architectural and engineering contract for \$799,863; and
- Three professional services contracts for \$4,747,760.

All contracts and work orders maintained by the WLR Division in 2013:

- Twenty-two contracts and 79 work orders listing a total of 137 consultants and contractors; and
- A total of \$10,247,981 paid under all contracts and work orders.

Pending contracts in 2014 include:

- Two Survey and Aerial Mapping Services work orders for \$500,000 each;
- One Demolition, Abatement and Well Decommissioning work order construction contract for \$1 million;
- One small-works roster construction contract estimated at \$150,000; and
- Two project-specific engineering contracts estimated at \$462,760.

### **Conclusion**

In 2013, two major flood risk reduction projects – the Reddington Levee Setback Project on the Green River, one of the largest undertaken by the WLR Division, and the Belmondo Revetment Repair Project on the Cedar River – were successfully completed to provide increased protection to people and infrastructure. The 2013-2014 flood season was comprised of unusually mild weather and as a result King County rivers experienced minor to moderate flooding. In response to flooding in early March, flood patrol inspections of the Green River levee system identified damage in several locations which will need follow-up inspection, though no significant damages were reported. In 2014, three corridor plans (including the Green River SWIF) will provide a solid technical foundation to inform the Flood District's decisions about capital projects, priorities and investments. Major stakeholder involvement in 2014 will provide a solid basis for the Green River System-Wide Improvement Framework and the Willowmoor Floodplain Reconnection project on the Sammamish River and Lake Sammamish.

# Appendix A

*2013 Final Budget*

## 2013 Budget

### Flood Control District Administration

Flood District Administration \$592,190

### Operating Budget

Description	Budget
Annual Maintenance	\$2,644,074
Flood Hazards Plan, Grants, Outreach	\$435,056
Flood Hazard Studies, Maps, Technical Services	\$567,984
Flood Preparation, Flood Warning Center	\$638,363
Program Management, Supervision, Finance, Budget	\$783,491
Program Implementation	\$3,415,289
Overhead / Central Costs	\$1,429,349
<b>Total</b>	<b>\$9,913,606</b>

### Capital Budget

Project	Description	Budget
<b>Snoqualmie River Basin</b>		
1112057	WLFL0 MALONEY CR CONF IMPVMNTS	\$76,244
1112059	WLFL0 MILLER R RD PROTECTION	\$52,575
1044459	WLFL0 MILLER RIVER HOME BUYOUT	\$249,998
1044461	WLFL0 SF SKYKMSH REP LOSS MIT	\$2,001
1044460	WLFL0 TIMBER LN EROSN BUYOUTS	\$70,004
1044468	WLFL1 CITY SNOQUALMIE NA ACQ	\$40,500
1112055	WLFL1 MEADOWBROOK 2011 REPAIR	\$4,999
1044469	WLFL1 MF LEVEE SYSTEM IMPRVMT	\$1,531,674
1112047	WLFL1 MSN THRSN EX 2011 REPAIR	\$6,549
1044465	WLFL1 N BEND RESID FLD MITGTN	\$195,847
1044466	WLFL1 SF LEVEE SYSTEM IMPROVE	\$2,315,865
1044517	WLFL1 UPR SNO RES FLD MITIGTN	\$2,723,057
1112032	WLFL1 RECORD OFFCE 2011 REPAIR	\$26,393
1044576	WLFL2 ALDAIR BUYOUT	\$1,574,100
1044581	WLFL2 FARM FLOOD TSK FORCE IMP	\$114,281
1044580	WLFL2 L SNO REP LOSS MITGTION	\$274,569
1044582	WLFL2 LWR SNO RESDL FLD MITGTN	\$450,000
1112020	WLFL2 MCELHOE/PERSON LEVEE	\$3,048
1112046	WLFL2 SINERRA QUALE 2011 REPR	\$1,013,373
1044579	WLFL2 TOLT PIPELINE PROTECTION	\$680,173
1112034	WLFL3 LOWER TOLT R ACQUISITION	\$932,408
1044645	WLFL3 SAN SOUCI NBRHOOD BUYOUT	\$1,205,498
1112058	WLFL3 TOLT R MILE 1.1 SETBACK	\$1,296,251
1115032	WLFL3 TOLT R NATURAL AREA ACQ	\$838,172
1044644	WLFL3 TOLT SUPPLEMENTAL STUDY	\$241,297
1044647	WLFL4 ALPINE MANOR MOB PRK ACQ	\$987,674
1044649	WLFL4 PRESTON FALL CTY UPR RPR	\$9,030
<b>TOTAL SNOQUALMIE BASIN</b>		<b>\$16,915,580</b>
<b>Cedar River Basin</b>		
1112037	WLFL5 WILLOWMOOR FLDPLAIN REST	\$414,729
1116846	WLFL6 LOWER COAL CRK PH I	\$200,000
1115747	WLFL6 ISSAQUAH CR REP LOSS MIT	\$125,000
1112024	WLFL7 BELMONDO REPAIR	\$704,002

**Cedar River Basin** *(continued)*

1044734 WLFL7 CDR PRE-CONST STRTGC ACQ	\$2,108,026
1116060 WLFL7 CEDAR LEVEE SETBACK FEAS	\$376,980
1044651 WLFL7 CEDAR R REP LOSS MITGATN	\$361,567
1112045 WLFL7 CEDAR RAPIDS 2011 REPAIR	\$141,579
1044729 WLFL7 CEDAR RVR GRAVEL REMOVAL	\$2,330,620
1044728 WLFL7 DORRE DON MEANDERS PH 1	\$252,465
1112041 WLFL7 ELLIOTT BR LEVEE SETBACK	\$508,118
1112042 WLFL7 HERZMAN LEVEE SETBACK 2	\$20,000
1112039 WLFL7 JAN RD-RTL DGE LVEE STBCK 2	\$45,600
1112031 WLFL7 MPLWD ACQ & SETBACK PH 1 2	\$25,000
1112029 WLFL7 RAINBOW BEND LEVEE STBCK	\$1,104,704
1112021 WLFL7 RHODE LVEE SETBACK 2	\$40,600
1115124 WLFL7 CEDAR RAPIDS REPAIR	\$2,188
1112043 WLFL7 YOUNGS REVETMENT REPAIR	\$31,147
1119888 WLFL7 RIVERBEND MPH ACQ	\$3,000,000
<b>TOTAL CEDAR RIVER BASIN</b>	<b>\$11,792,325</b>

**Green River Basin**

1116360 WLFL8 BLACK R PUMP STATION	\$2,450,941
1112025 WLFL8 BOEING LEVEE ADD-KENT	\$2,086,034
1116515 WLFL8 BRISCOE LEVEE SETBACK	\$7,223,000
1112051 WLFL8 BRISCOE REACH DESIGN	\$120,000
1044884 WLFL8 GREEN R FLD EMGNCY PREP	\$181,075
1044882 WLFL8 GREEN R PL84-99 MITIGATN	\$854,816
1112040 WLFL8 HAWLEY RD LEVEE-KENT	\$897,039
1112033 WLFL8 HORSESHOE BND ACQ-RCNCT	\$2,518,564
1120033 WLFL8 HOLIDAY KENNEL ACQ & BERM	\$500,000
1112035 WLFL8 REDDINGTON REACH SETBACK	\$12,900,498
1044881 WLFL8 RUSSELL RD UPPER	\$2,331,484
1117948 WLFL8 SANDBAG REMOVAL	\$5,468,980
1116363 WLFL8 USACE SWIF	\$420,000
<b>TOTAL GREEN RIVER BASIN</b>	<b>\$37,952,431</b>

**White River Basin**

1112049 WLFL9 COUNTYLINE TO A STREET	\$2,592,389
1112038 WLFL9 RIGHT BANK LEVEE SETBACK	\$1,792,250
<b>TOTAL WHITE RIVER BASIN</b>	<b>\$4,384,639</b>

**Seattle Projects**

1045041 WLFLS AK WY SEAWALL CONSTRUCTN	\$5,022,729
1112036 WLFLS SOUTH PARK DWMSH BACKWTR	\$2,250,240
<b>TOTAL SEATTLE PROJECTS</b>	<b>\$7,272,969</b>

**Countywide Costs**

1112022 WLFLM FLOOD CIP MON/MAINT	\$844,147
1045042 WLFL0 SUBREGNL OPPRTNTY FUND	\$11,745,806
1044281 WLFLX CENTRAL CHARGES	\$190,108
1044279 WLFLX FLOOD EMERGENCY CONTGNCY	\$429,552
1117333 WLFLX WRIA GRANTS	\$6,116,561
<b>TOTAL COUNTYWIDE COSTS</b>	<b>\$6,546,113</b>

**TOTAL CAPITAL BUDGET** \$97,644,118

**Flood Control District Total** \$108,149,914



# Appendix B

*2013 Expenditures*

## 2013 Expenditures

### Flood Control District Administration

Flood District Administration	\$372,956
Flood Levy Tax Refunds	\$105,612
<b>Total Flood District Administration</b>	<b>\$478,568</b>

### Operating Expenditures

Description	Expenditures
Annual Maintenance	\$1,433,266
Flood Hazards Plan, Grants, Outreach	\$716,864
Flood Hazard Studies, Maps, Technical Services	\$272,213
Flood Preparation, Flood Warning Center	\$632,067
Program Management, Supervision, Finance, Budget	\$844,585
Program Implementation	\$1,686,182
Overhead / Central Costs	\$1,417,823
<b>Total Operating</b>	<b>\$7,003,001</b>

### Capital Expenditures

Project	Description	Expenditures
<b>Snoqualmie River Basin</b>		
1112059	WLFL0 MILLER R RD PROTECTION	\$26,297
1044459	WLFL0 MILLER RIVER HOME BUYOUT	\$189,169
1044460	WLFL0 TIMBER LN EROSN BUYOUTS	\$40,533
1044468	WLFL1 CITY SNOQUALMIE NA ACQ	\$38,868
1112055	WLFL1 MEADOWBROOK 2011 REPAIR	\$1,164
1044469	WLFL1 MF LEVEE SYSTEM IMPRVMNT	\$270,059
1044465	WLFL1 N BEND RESID FLD MITGTN	\$1,728
1112032	WLFL1 RECORD OFFCE 2011 REPAIR	\$178,628
1044466	WLFL1 SF LEVEE SYSTEM IMPROVE	\$444,669
1044517	WLFL1 UPR SNO RES FLD MITIGTN	\$2,150,532
1044576	WLFL2 ALDAIR BUYOUT	\$222,196
1044581	WLFL2 FARM FLOOD TSK FORCE IMP	\$101,306
1044580	WLFL2 L SNO REP LOSS MITGTION	\$200,724
1044582	WLFL2 LWR SNO RESDL FLD MITGTN	\$215,519
1112020	WLFL2 MCELHOE/PERSON LEVEE	\$242
1112046	WLFL2 SINERRA QUALLE 2011 REPR	\$118,741
1044579	WLFL2 SNOQUALMIE 13.5 REVETMN	\$194,045
1112034	WLFL3 LOWER TOLT R ACQUISITION	\$727,101
1044645	WLFL3 SAN SOUCI NBRHOOD BUYOUT	(\$47,294)
1112058	WLFL3 TOLT R MILE 1.1 SETBACK	\$144,890
1115032	WLFL3 TOLT R NATURAL AREA ACQ	\$359,565
1044644	WLFL3 TOLT SUPPLEMENTAL STUDY	\$126,722
1044647	WLFL4 ALPINE MANOR MOB PRK ACQ	\$274,719
<b>TOTAL SNOQUALMIE BASIN</b>		<b>\$5,980,121</b>

### Cedar River Basin

1112037	WLFL5 WILLOWMOOR FLDPLAIN REST	\$343,058
1115747	WLFL6 ISSAQUAH CR REP LOSS MIT	\$108,373
1112024	WLFL7 BELMONDO FEMA 1653 PH I	\$1,045,588
1044734	WLFL7 CDR PRE-CONST STRTGC ACQ	\$107,656

**Cedar River Basin** *(continued)*

1116060 WLFL7 CEDAR LEVEE SETBACK FEAS	\$53,230
1044651 WLFL7 CEDAR R REP LOSS MITGATN	\$5,511
1115122 WLFL7 CEDAR R TR 2B FEMA	\$515
1112045 WLFL7 CEDAR RAPIDS 2011 REPAIR	\$9,027
1115124 WLFL7 CEDAR RAPIDS REPAIR	\$6,297
1044729 WLFL7 CEDAR RVR GRAVEL REMOVAL	\$267,957
1044728 WLFL7 DORRE DON MEANDERS PH 1	\$170
1112041 WLFL7 ELLIOTT BR LEVEE SETBACK	\$4,743
1112029 WLFL7 RAINBOW BEND LEVEE STBCK	\$499,608
1119888 WLFL7 RIVERBEND MHP ACQ	\$3,000,000
1112043 WLFL7 YOUNGS REVETMENT REPAIR	\$22
<b>TOTAL CEDAR RIVER BASIN</b>	<b>\$5,451,755</b>

**Green River Basin**

1116360 WLFL8 BLACK R PUMP STATION	\$920,537
1112025 WLFL8 BOEING LEVEE ADD-KENT	\$1,994,938
1116515 WLFL8 BRISCOE LEVY SETBACK	\$168,514
1112051 WLFL8 BRISCOE REACH DESIGN	\$82,745
1044961 WLFL8 GREEN PRE-CONSTRCTN ACQ	\$612
1044884 WLFL8 GREEN R FLD EMGNCY PREP	\$57,688
1044882 WLFL8 GREEN R PL84-99 MITIGATN	\$48,639
1112040 WLFL8 HAWLEY RD LEVEE-KENT	\$660,203
1112033 WLFL8 HORSESHOE BND ACQ-RCNCT	\$4,230
1120033 WLFL8 LOWER RUSSELL REPAIR	\$5,602
1112035 WLFL8 REDDINGTON REACH SETBACK	\$9,729,619
1044881 WLFL8 RUSSELL RD UPPER	\$14,104
1117948 WLFL8 SANDBAG REMOVAL	\$2,422,260
1116363 WLFL8 USACE SWIF	\$234,824
<b>TOTAL GREEN RIVER BASIN</b>	<b>\$16,344,514</b>

**White River Basin**

1112049 WLFL9 COUNTYLINE TO A STREET	\$555,223
1112038 WLFL9 RIGHT BANK LEVEE SETBACK	\$791,253
<b>TOTAL WHITE RIVER BASIN</b>	<b>\$1,346,476</b>

**Seattle Projects**

1045041 WLFLS AK WY SEAWALL CONSTRUCTN	\$5,068,993
1112036 WLFLS SOUTH PARK DWMSH BACKWTR	\$90,814
<b>TOTAL SEATTLE PROJECTS</b>	<b>\$5,159,807</b>

**Countywide Costs**

1112022 WLFLM EFFECTIVENESS MONITORING	\$226,612
1045042 WLFL0 SUBREGNL OPPRTNTY FUND	\$2,910,065
1044281 WLFLX CENTRAL CHARGES	\$114,164
1044279 WLFLX FLOOD EMERGENCY CONTGNCY	\$164,490
1117333 WLFLX WATERSHED MGMT GRANTS	\$454,667
0000000 XDEFAULT	\$32,644
<b>TOTAL COUNTYWIDE COSTS</b>	<b>\$3,902,642</b>

<b>Total Capital</b>	<b>\$38,185,314</b>
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<b>FLOOD DISTRICT TOTAL <sup>1</sup></b>	<b>\$45,666,882</b>
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<sup>1</sup> The Flood District total expenditure includes expenditures in the capital and operating funds backed by King County revenue such as grants and the InterCounty River Improvement Fund (ICRIF). For this reason, the total is higher than the expenditures shown in the King County Comprehensive Annual Financial Report (CAFR) for the Flood District fund 190010010.



# Appendix C

*2014 Budget*

## 2014 Budget

### Flood Control District Administration

Flood District Administration \$628,256

### Operating Budget

Description	
Annual Maintenance	\$2,367,254
Flood Hazards Plan, Grants, Outreach	\$405,008
Flood Hazard Studies, Maps, Technical Services	\$461,453
Flood Preparation, Flood Warning Center	\$706,032
Program Management, Supervision, Finance, Budget	\$767,430
Program Implementation	\$3,050,288
Overhead / Central Costs	\$1,676,196
<b>Total</b>	<b>\$9,433,661</b>

### Capital Budget <sup>1</sup>

Project	Description	
<b>Snoqualmie River Basin</b>		
1112057	WLFL0 MALONEY CR CONF IMPVMENTS	\$3,993
1112059	WLFL0 MILLER R RD PROTECTION	(\$11,974)
1044461	WLFL0 SF SKYKMSH REP LOSS MIT	\$2,060
1044460	WLFL0 TIMBER LN EROSN BUYOUTS	\$309,000
1121044	WLFL1 CIRCLE RVR RANCH RISK RED	\$51,500
1044469	WLFL1 MF SNO CORRIDOR PLAN	(\$1,031,678)
1121588	WLFL1 MF SNO CORRIDOR IMP	\$1,531,678
1044465	WLFL1 N BEND RESID FLD MITGTN	\$142,491
1112032	WLFL1 RECORD OFFCE 2011 REPAIR	\$150,000
1044466	WLFL1 SF SNO CORRIDOR PLAN	(\$75,000)
1121587	WLFL1 SF SNO CORRIDOR IMP	\$2,000,000
1122632	WLFL1 SF SNO CORR EARLY ACTION	\$500,000
1044517	WLFL1 UPR SNO RES FLD MITGTN	\$1,886,634
1044576	WLFL2 L SNO/ALDAIR CORRIDOR PLN	\$250,777
1044581	WLFL2 FARM FLOOD TSK FORCE IMP	\$88,719
1044580	WLFL2 L SNO REP LOSS MITGTION	\$450,000
1044582	WLFL2 LWR SNO RESDL FLD MITGTN	\$309,000
1122633	WLFL2 SE 19TH WAY REVETMENT	\$250,000
1044579	WLFL2 WINKELMAN REVETMENT	(\$68,736)
1112034	WLFL3 LOWER TOLT R ACQUISITION	(\$292,258)
1044645	WLFL3 SAN SOUCI NBRHOOD BUYOUT	\$478,950
1112058	WLFL3 TOLT R MILE 1.1 ACQ	\$36,917
1115032	WLFL3 TOLT R NATURAL AREA ACQ	(\$40,052)
1044644	WLFL3 TOLT SUPPLEMENTAL STUDY	\$48,660
1044647	WLFL4 ALPINE MANOR MOB PRK ACQ	\$417,759
1044649	WLFL4 PRESTON FALL CTY UPR RPR	(\$9,028)
<b>TOTAL SNOQUALMIE BASIN</b>		<b>\$7,379,412</b>
<b>Cedar River Basin</b>		
1112037	WLFL5 WILLOWMOOR FLDPLAIN REST	\$538,175
1116846	WLFL6 LOWER COAL CRK PH I	\$736,890
1116847	WLFL6 MCALEER/LYON CHAN IMPRVM	\$350,000
1112024	WLFL7 BELMONDO FEMA 1653	\$10,300
1044734	WLFL7 CDR PRE-CONST STRTGC ACQ	\$1,758,416
1116060	WLFL7 CEDAR LEVEE SETBACK FEAS	\$361,520

<sup>1</sup> The numbers shown here represent the budget as adopted in Resolution FCD2013-14.3. It is the new appropriation for 2014 and does not include carryover budget from 2013. It is anticipated the Board of Supervisors will adopt the carryover additions to the budget in the second quarter of 2014.

**Cedar River Basin** *(continued)*

1044651 WLFL7 CEDAR R REP LOSS MITGATN	\$257,585
1112045 WLFL7 CEDAR RAPIDS 2011 REPAIR	(\$137,579)
1115124 WLFL7 CEDAR RAPIDS REPAIR	(\$2,188)
1044729 WLFL7 CEDAR RVR GRAVEL REMOVAL	\$825,280
1044728 WLFL7 DORRE DON MEANDERS PH 1	(\$226,715)
1112041 WLFL7 ELLIOTT BR LEVEE	(\$132,567)
1112042 WLFL7 HERZMAN LEVEE	(\$19,998)
1112039 WLFL7 JAN RD-RTLDGE LVEE	(\$45,600)
1112031 WLFL7 MPLWD ACQ & SETBACK PH 1	(\$25,000)
1112029 WLFL7 RAINBOW BEND LEVEE STBCK	(\$11,520)
1112021 WLFL7 RHODE LVEE SETBACK	(\$40,598)
1112043 WLFL7 YOUNGS REVETMENT REPAIR	(\$31,147)
<b>TOTAL CEDAR RIVER BASIN</b>	<b>\$4,165,254</b>

**Green River Basin**

1116360 WLFL8 BLACK R PUMP STATION	\$1,263,956
1116362 WLFL8 BOEING LEVEE USACE ERP	\$1,000,000
1116515 WLFL8 BRISCOE LEVEE SETBACK	\$10,576,040
1044884 WLFL8 GREEN R FLD EMGNCY PREP	(\$58,685)
1120033 WLFL8 HOLIDAY KENNEL ACQ & BERM	\$500,000
1112056 WLFL8 LWR RUSSELL LEVEE SETBACK	\$3,000,000
1112035 WLFL8 REDDINGTON REACH SETBACK	\$395,362
1044881 WLFL8 RUSSELL RD UPPER	\$1,436,716
1117948 WLFL8 SANDBAG REMOVAL	(\$890,049)
1116363 WLFL8 USACE SWIF	\$1,112,400
<b>TOTAL GREEN RIVER BASIN</b>	<b>\$18,335,740</b>

**White River Basin**

1112049 WLFL9 COUNTYLINE TO A STREET	\$2,500,000
1112038 WLFL9 RIGHT BANK LEVEE SETBACK	\$1,993,143
1122630 WLFL9 WHITE - GREENWATER ACQ	\$375,000
<b>TOTAL WHITE RIVER BASIN</b>	<b>\$4,868,143</b>

**Seattle Projects**

1045041 WLFLS AK WY SEAWALL PRE-CONSTRUCTN	\$20,817,271
1112036 WLFLS SOUTH PARK DWMSH BACKWTR	(\$1,750,000)
<b>TOTAL SEATTLE PROJECTS</b>	<b>\$19,067,271</b>

**Countywide Costs**

1044281 WLFLX CENTRAL CHARGES	\$218,823
1044279 WLFLX FLOOD EMERGENCY CONTGNCY	\$138,185
1044282 WLFLM EFFECTIVENESS MONITORING	\$498,046
1045042 WLFLO SUBREGNL OPPRTNTY FUND	\$5,280,476
1122628 WLFLG GRANT FUND	\$2,666,329
1117333 WLFLX WATERSHED MGMT GRANTS	\$4,023,674
<b>TOTAL COUNTYWIDE COSTS</b>	<b>\$12,825,533</b>

**TOTAL CAPITAL BUDGET**

\$66,641,353

**Flood Control District Total**

\$76,703,270





