



REGIONAL FLOOD CONTROL DISTRICT
ANNUAL REPORT

2012|2013

CLARK COUNTY, NV





Lake Mead Sunrise

VISION

Premier regional agency providing a community safe from the devastation of floods while protecting the surface water environment.

MISSION

To improve the protection of life and property for existing residents, future residents and visitors from the impacts of flooding while also protecting the environment.

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DISTRICT MESSAGE

General Manager Gale Fraser and Board Chairman, Commissioner Larry Brown, at the 2012 Flood Safety News Conference.



Larry Brown

Lawrence L. Brown III

RFCD Chairman
Clark County Commissioner



Gale Wm. Fraser, P.E.

Gale Wm. Fraser, II, P.E.

General Manager / Chief Engineer

FROM THE CHAIR

At times we are so focused on long range regional flood control planning, that we forget how far we've come in constructing our facilities. This marks the 25th year since we started our very first construction project. Since then, we've remained focused on the big picture and are pleased to report more than 75 percent of our master plan is finished.

That isn't to say we're slowing down. An additional 31 detention basins and 226 miles of conveyance are planned for our next 25 years.

Last year, our community was reminded how critical the District's mission remains. We experienced record rainfall during the summer monsoon season, with 4.5 inches of rain falling between July 1 and Oct. 15. In areas where our system was built out, little or no damage occurred to private property.

However we saw all too clearly the importance of our mission when flash flooding last August took the life of a 17-year-old Green Valley High School student and a September storm killed a 31-year-old maintenance worker at Desert Rose Golf Course.

These events are a tragic reminder why we are so committed to keeping floodwaters away from people and property and educating people to avoid floodwaters.

As you read this report, you'll find updates on just how we're working at this twofold mission. There are updates on our capital program, our finances, our public information campaign and our new smartphone app. The success of the District is due to tremendous cooperation of our member agencies: Clark County and the cities of Las Vegas, North Las Vegas, Henderson, Boulder City and Mesquite. Working together toward "regional solutions" will continue to protect lives, property and the environment in Southern Nevada.

FROM THE GENERAL MANAGER

As the economy continues to improve we currently have 21 projects under construction or about to begin construction. These range from improving flood control along the Muddy River to completely overhauling the Desert Rose Golf Course and working to remove 1,700 homes from the flood zone.

These projects total more than \$130 million and will be built thanks to our strong partnerships with member entities and private sector partners. Ultimately, our community will be safer and we'll put 1,450 people to work on these jobs.

To date we've built 90 detention basins and 581 miles of channel. In the last year alone we finished 10 projects totaling nearly \$40 million.

Over time we've invested \$1.7 billion in flood control improvements across Clark County, making neighborhoods, homes and businesses safer from flooding. We're working each day to avert loss of life and property.

Our ongoing work helps make our Southern Nevada community safer and more resilient during times of flooding and will be here long into the future.

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BOARD OF DIRECTORS

The Clark County Regional Flood Control District is governed by a Board of Directors consisting of eight members. The Board serves as a policy-making body and employs a General Manager/Chief Engineer to serve as executive officer.

The Board of Directors meets on the second Thursday of each month in the Clark County Commission Chambers.

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BOARD OF DIRECTORS AS OF JULY 2013



Lawrence L. Brown III
Chairman
Commissioner
Clark County



Debra March
Vice Chairman
Councilwoman
City of Henderson



Chris Giunchigliani
Commissioner
Clark County



John Lee
Mayor
City of North Las Vegas



Mark Wier
Mayor
City of Mesquite



Steven D. Ross
Councilman
City of Las Vegas



Dr. Lois Tarkanian
Councilwoman
City of Las Vegas



Roger Tobler
Mayor
City of Boulder City



Kraig Hafen
Former Councilman
City of Mesquite



Robert L. Eliason
Former Vice Chairman
Councilman, City of
North Las Vegas

AUTHORITY OF THE DISTRICT

The Nevada Legislature authorized the creation of the District in 1985 to develop a coordinated and comprehensive Master Plan to solve flooding problems, to regulate land use in flood hazard areas, to fund and coordinate the construction of flood control facilities and to develop and contribute to the funding of a maintenance program for Master Plan flood control facilities. The District also provides public education regarding flood dangers and monitors rainfall and flow data during storms, disseminating information to appropriate public works and safety crews. The service area for the District includes Clark County and the incorporated areas of Boulder City, Henderson, Las Vegas, Mesquite and North Las Vegas.

The District is governed by a Board of Directors comprised of the same membership as the Regional Transportation Commission, except that each board/commission elects its own officers. The Board includes two representatives from both Clark County and the City of Las Vegas and one representative each from Boulder City, Henderson, Mesquite and North Las Vegas. Public meetings are generally held on the second Thursday of the month, at which time the Board acts on policy and other flood control matters.

The Board annually elects a chairman and a vice chairman from among its members. The General Manager/Chief Engineer is responsible for surveying, investigating, reporting and estimating the extent of flood control problems and for presenting flood control recommendations to the Board.

The Regional Flood Control District is a distinct local governmental agency. The District contracts with Clark County for various legal and administrative services provided by departments such as the Comptroller, District Attorney, General Services, Human Resources, Information Systems and Treasurer.

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ADVISORY COMMITTEES



Citizens Advisory Committee left photo

The Citizens Advisory Committee (CAC) is comprised of one citizen appointed by each city council and county commission included in the District and one citizen appointed by each Board Member. The CAC, per state law, was created to represent public interest and to advise the Board on various matters.

Members of the CAC (July 2013)

STANDING: Dr. Nachman Kataczynsky, Las Vegas	Greg Bulloch, Mesquite	John Birkland, North Las Vegas
Terry Kane, Las Vegas	Paul Henderson, Mesquite	NOT PICTURED: Dr. Linda Young, Las Vegas
Calvin Black, Henderson	SEATED: Larry Nelson (Vice Chairman), Henderson	Ryan Wheeler, Mesquite
Jim Beneda, Boulder City	M.J. Harvey (Chairman), Clark County	Nelson Stone, North Las Vegas
Jennifer L. Taylor, Esq., Clark County	Ron Newell, Clark County	

Members of the TAC (June 2013)

BACK ROW: *Robb Herr, Henderson, Assistant Director, Public Works	NOT PICTURED: Denis Cederburg (Chairman), Clark County, Public Works Director	*Joseph Leedy, Clark County, Principal Planner (DAQEM)
*Randy Fultz, Las Vegas, Assistant City Engineer	Ebrahim Juma, Clark County, Environmental Assistant Planning Manager, Water Quality, Research and Technical Services (DAQEM)	*Robert Thompson, Clark County, Deputy Director, Public Works
*Bill Tanner, Mesquite, Public Works Director	Robert Murnane, Henderson, Public Works Director	*Oh-Sang Kwon, Las Vegas, Engineering Project Manager
*Richard Secrist, Mesquite, Principal Planner	Jorge A Cervantes, Las Vegas, Public Works Director	*Mike Callahan, Mesquite, Internal Services Director
FRONT ROW: *Joe Yatson, Clark County, Manager, Design Engineering Division	David Bowers, Las Vegas, City Engineer	*Thomas Brady, North Las Vegas, Manager, Engineering Planning
Qiong Liu, North Las Vegas, Director, Public Works	Kurt Sawyer, Mesquite, Development Services Director	*Jennifer Doody, North Las Vegas, Development and Flood Control Supervisor
Scott Hansen, Boulder City (Vice-Chairman), Director, Public Works	*Jim Keane, Boulder City, City Engineer	*Randall DeVaul, North Las Vegas, Deputy Director of Engineering

*Alternates

Technical Advisory Committee right photo

The Regional Flood Control District Board is advised on technical matters, per state law, by a Technical Advisory Committee (TAC), the representation of which mirrors that of the Board of Directors. The current members include local public works directors, city engineers or planning directors. The General Manager/Chief Engineer (serving as the Executive Director of the Committee) and a representative of the Citizens Advisory Committee are both non-voting members of the TAC.

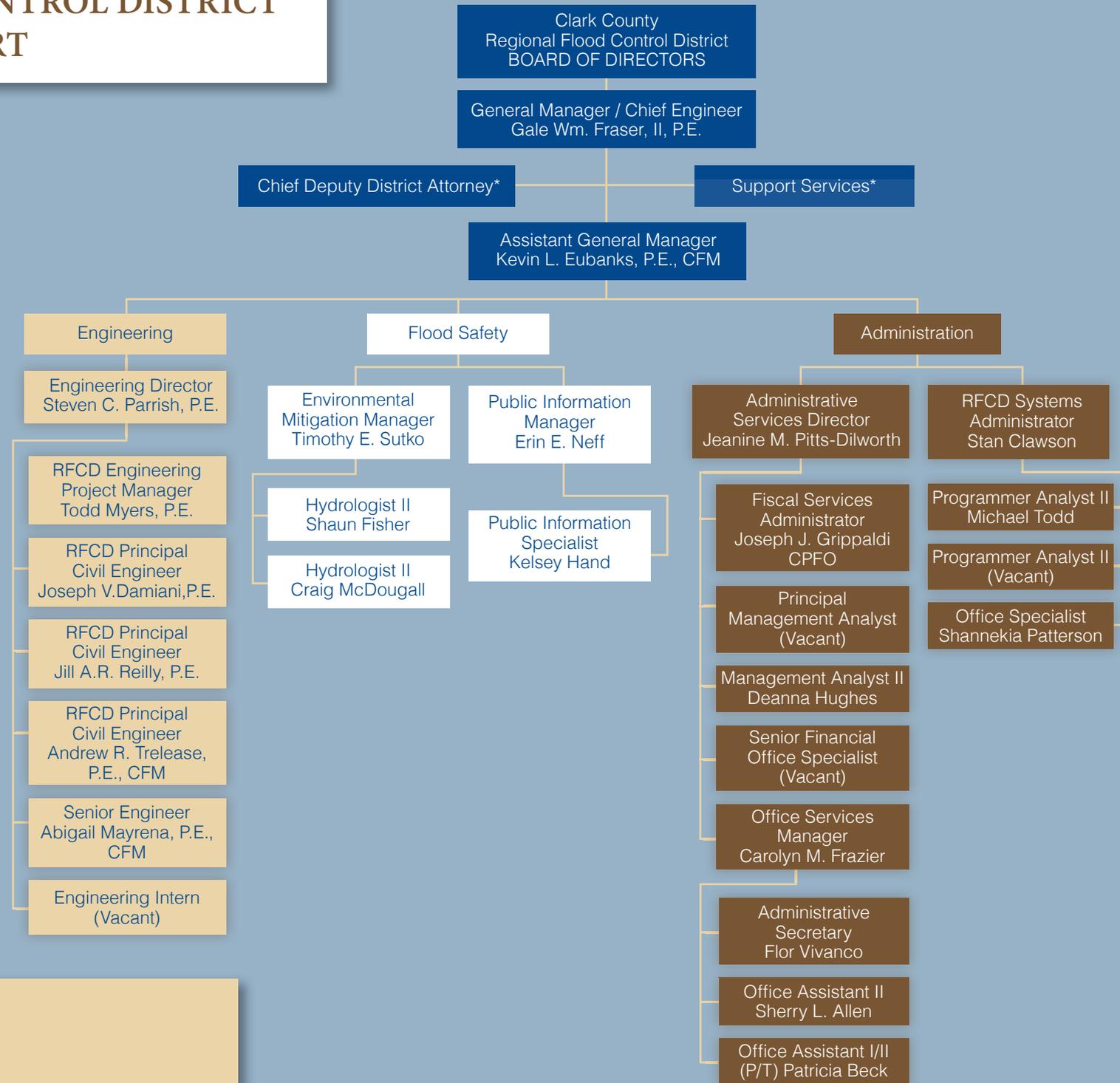


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REGIONAL FLOOD CONTROL DISTRICT ORGANIZATION CHART



P.E. - Principal Engineer
 CFM - Certified Floodplain Manager
 CPFO - Certified Public Finance Officer

*The Regional Flood Control District receives various support from several Clark County departments as authorized by state statute.

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ABOUT OUR REGION

Clark County, Nevada, continues to rebound from the economic recession and saw a modest 1 percent increase in its population in the last year. At more than 2 million residents, Clark County has more people than three US states combined.

Las Vegas continues to be a worldwide destination for tourists and conventioners, with nearly 40 million visitors in 2012, according to the Las Vegas Convention and Visitors Authority. Another 16.5 million people have vacationed in Clark County through May 2013.

Clark County stretches from Laughlin in the south to Mesquite in the north. The Las Vegas Valley, in the heart of Clark County, is surrounded by mountains that provide numerous recreational activities. One can bike the hills or climb the rocks of Red Rock Canyon, or escape the summer heat at Charleston Peak (elevation: 11,916 feet) in the Spring Mountains.

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MONITORING THE WEATHER

The District, in cooperation with the U.S. Geological Survey (USGS) and the National Weather Service (NWS), began implementing a Flood Threat Recognition System (FTRS) throughout the Clark County area in 1987. The system includes a network of strategically located field stations that automatically report data from more than 410 meteorological sensors in real-time to computerized base stations operated by each of the cooperating agencies. While more than 75 percent of the FTRS field stations are located in the Las Vegas Valley, other gages installed in Laughlin, Searchlight, Jean, Primm, Goodsprings, Mesquite, Bunkerville, Moapa Valley, Coyote Springs, CalNevAri and Indian Springs allow emergency responders to monitor weather conditions throughout Clark County.

The total number of field stations in operation at the end of the fiscal year was 183. Of this total, 38 stations collect temperature, humidity and wind data in addition to rainfall data. Further, 103 stations collect rainfall and water level information. The remaining 42 stations report only rainfall data. Two water level stations were temporarily decommissioned to accommodate construction activities. Eight of the field stations are maintained by the USGS under the terms of a joint funding agreement with the District. The District staff maintains the remaining stations as well as five radio repeater sites that allow data from the outlying areas to be transmitted into the Las Vegas Valley.

The FTRS provides valuable information on water levels, rainfall and other meteorological parameters. Humidity sensors alert NWS forecasters when summer monsoonal moisture is sufficient to trigger thunderstorms. Information on wind speed and direction helps the NWS track severe storms in the Clark County area and issue more timely, site-specific weather statements than were previously possible. The District's fully automated base station notifies staff, both in and out of the District's offices, of potentially dangerous situations. Then, staff can assess the potential for flooding and alert public works and other emergency response personnel.

The information provided by this system helps emergency response agencies to more effectively direct their limited resources. The District maintains an FTP site to provide local governments and staff access to the FTRS. The District also provides the public and the media with access to the FTRS data through its website (www.regionalflood.org). Both historic and current rain and weather data collected from any of the District's field stations can be accessed from the District's website.



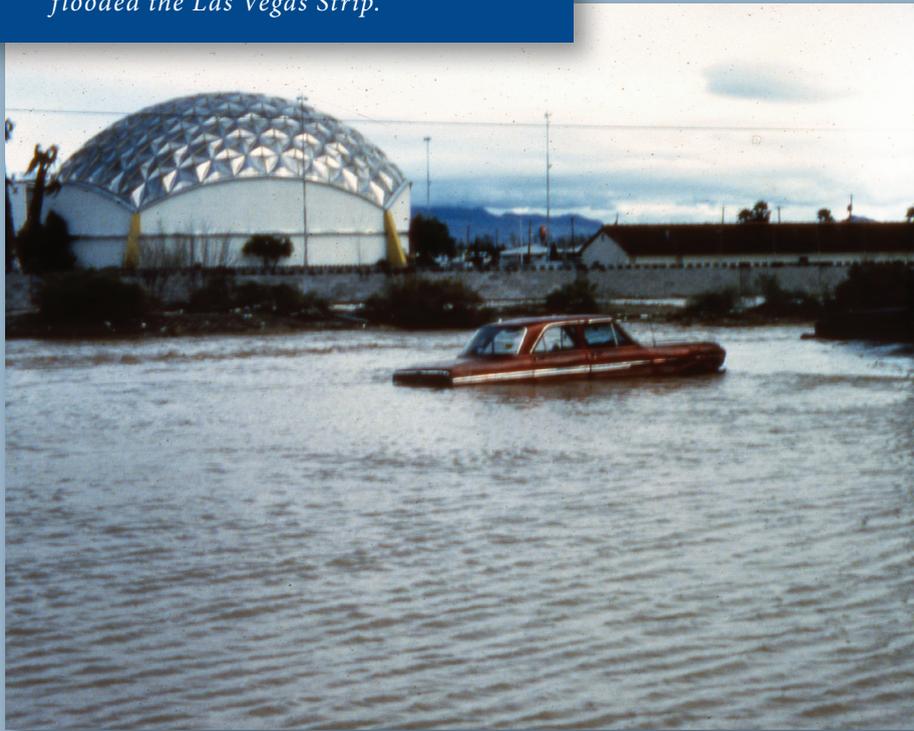
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In July of 1975, the Las Vegas Sun reported the torrential downpour that flooded the Las Vegas Strip.



HISTORY OF FLOODING IN CLARK COUNTY

The desert southwest is an environment of extremes. Typically thought of as a dry and hot region, the area often experiences intense rainfall and subsequent flash floods. Recorded reports of flooding in Clark County date back more than 100 years. In a special report entitled “History of Flooding, Clark County, Nevada 1905-1975,” the U.S. Soil Conservation Service documented 184 different flooding events that resulted in damages to private property and public facilities. Since 1960, the area has experienced at least 11 floods that resulted in more than \$1 million in property damage. In that same period, 33 lives were lost in 23 separate flash flood events.

While floods can and have occurred in almost every month of the year, the most damaging storms typically occur between July and September. During these hot summer months, moist unstable air, usually from the Gulf of Mexico or Gulf of California, is rapidly forced upward by hot air currents. The dynamics of this process often result in spectacular displays of lightning in the desert sky. Too often, they also cause severe thunderstorms with intense rainfall on steep mountain slopes and armored desert surfaces. The rainwater runs off rapidly and concentrates in the urbanized areas at lower elevations.

Most residents and visitors are unaware of the flood potential or never see flooding occur until it is too late. Aside from the tremendous property damage and deaths related to flooding, Clark County residents experience inconveniences caused by impassable or difficult-to-travel roads. Support services such as police, fire and ambulance are sometimes delayed in responding to victims of life-threatening incidents.

Flood events can also adversely impact the local economy through loss of business at commercial establishments due to decreased access. Furthermore, flooding in the Las Vegas Valley can become national news and deter tourists from visiting the area.

The average rainfall in the Las Vegas Valley is 4.19 inches and this amount is nearly equally divided between summer and winter rainy seasons. During FY 2012-13, the official rainfall total reported by the National Weather Service for Las Vegas was 5.67 inches. While the normal rainfall for Las Vegas for July 1 through October 15 is 1.15 inches, the official rainfall amount measured by the NWS for this period in 2012 was 4.57 inches, making 2012 the wettest summer on record for Las Vegas. For August 2012, the NWS recorded 2.28 inches of rainfall, nearly seven times the normal rainfall total for that month. This was the 2nd wettest August in Las Vegas since the NWS began keeping records in 1937. Of the 183 FTRS rain gages, fifty-three (53) reported receiving more than 2-inches of rainfall during August 2012.

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SIGNIFICANT FLOOD EVENTS

During the evening hours of August 21-22, rainfall moved through the Mesquite area. Ten of the District's FTRS in gages in that area reported more than 2 inches of rain. The flood control infrastructure functioned as designed and damages were generally limited to erosion of landscaped areas and roadway clean-up.

In the Las Vegas valley, most areas saw at least 0.50 inches of rain on August 22. However, the Henderson and south Valley areas experienced heavy rainfall, with 26 FTRS rain gages reporting at least 1.50 inches of rain over a 4-hour period; nine of those gages reported more than two inches of rainfall with one gage reporting 3.15 inches of rain. The 1.65 inches officially measured by the NWS made August 22, 2012 the second wettest calendar day ever recorded for Las Vegas. As in Mesquite, the flood control infrastructure functioned as designed and aside from flooded roadways, damage to public and private property was very limited. Tragically, there was one flood related death during this event when a Green Valley High School student was swept downstream by flood flows in Pittman Wash.

On September 11, 2012 severe weather with widespread heavy rain moved through the Las Vegas Valley and other parts of Clark County causing deadly flooding. Seventeen FTRS rain gages in the Las Vegas Valley recorded more than one inch of rain, with two sites measuring more than two inches of rainfall. The NWS officially recorded 1.18 inches of rain, the most rainfall ever recorded for any September day since records began to be kept in 1937. The swift moving storm caused wide-spread flooding of roadways and significant flows in some of the area's washes, most notably the Las Vegas Wash and Flamingo Wash. The most heavily impacted areas were the residential areas adjoining the Desert Rose Golf Course, downtown Las Vegas, and the UNLV campus and surrounding area. Approximately 73 residential properties were identified as having received minor damage and nine businesses received major damage. Damage to roads, parks, buildings and other types of public infrastructure was estimated at just under \$1.4 million dollars. There were numerous instances of stranded drivers needing assistance after their vehicles were inundated by flood flows. This event also turned deadly when fast moving flood flows in the Las Vegas and Flamingo washes converged at the Desert Rose Golf Course and carried a member of a landscape crew several miles downstream.

For the third time in as many months, monsoonal moisture pushed into Clark County, particularly the Las Vegas Valley, October 10-11. Rainfall began late in the evening of Oct. 10 and periodic showers persisted throughout the area for the next 24 hours. Eighteen FTRS gages measured more than two inches of rainfall during this event; an additional 67 gages recorded rainfall totals in excess of one inch. Flood control facilities functioned as designed and there was only limited damage to private and public properties.

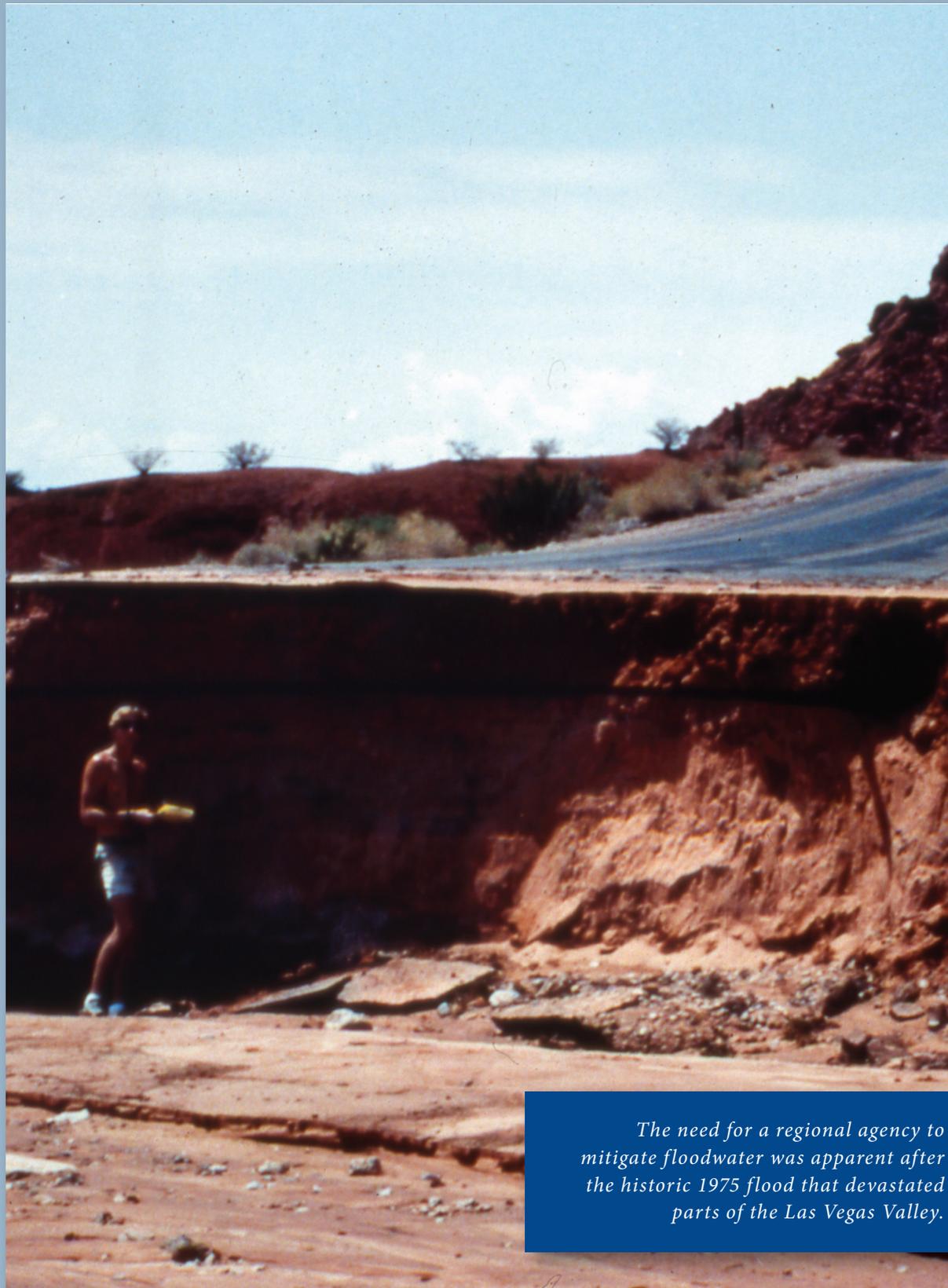


The historic flood of 1975 made front page headlines with pictures of cars washed on top of each other in casino parking lots.

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The need for a regional agency to mitigate floodwater was apparent after the historic 1975 flood that devastated parts of the Las Vegas Valley.

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WAIT OUT FLASH FLOODS

befloodsafe.com

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KEEPING THE COMMUNITY INFORMED

The District's Public Information Program focuses on educating the public about the dangers of flash flooding and informing the community about the progress of flood control in Clark County. The program also works to educate the community about stormwater quality and how residents can help improve the quality of urban runoff and rainwater draining to Lake Mead.

Several ongoing programs present information about drainage improvements and flood safety throughout the year. Following is a summary of some of those activities:

- The Board of Directors designated July as "Flash Flood Awareness Month" and held a news conference on June 27 kicking off Flash Flood Season. The event was covered by all major news media and helped increase public awareness of a heightened potential for flash floods during the summer months. The local news media are very supportive of the District's efforts to communicate flood safety information and are strong community partners.
- The District educated students about the dangers of playing in floodwater and drainage facilities. This past school year, District staff made classroom presentations at 54 elementary schools speaking to approximately 7,600 students. In addition, the District mailed curriculum materials and a school DVD to 900 students at teachers' requests.

- To kick off Flash Flood season, the District launched a smartphone application called FloodSpot that allows users to get weather updates, see flood reports, share flood photos and learn about floods and insurance. The app also features a game aimed at younger audiences. FloodSpot is available for a free download on both iPhone and Android.
- The District conducted a paid Flood Safety Advertising Campaign between July and September when heavy rain and flash flooding are more likely to occur. The campaign used billboards, radio, television and print media to inform residents of the dangers of flooding. Creative artwork featuring recognizable locations and flood safety messages reminded motorists to stop and think before entering flooded streets. District staff complemented this campaign with social media and earned media efforts.
- A new 30-second Public Service Announcement (PSA) was produced as part of the District's Flood Safety Campaign. The PSA shows how quickly floods can happen and what to do if you encounter a flooded roadway. A Spanish-language ad was also produced.
- The District continued with production of The Flood Channel, a 30-minute informational television program airing on local government access stations, Cox Cable channels 2 and 4. Each episode informs the public about construction progress, flood safety and environmental issues.

Future Public Information projects include the annual report and a survey of residents to gauge the efficacy of our paid advertising campaign.





FLOODSPOT



*FLOODSPOT APP
The Clark County Regional Flood Control District's
FloodSpot app has everything you need to stay
Flood Safe in the palm of your hands.*

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Interactive **Flood Zones** Map, **Weather Reports**, quick **Flood Reporting** with photo/video uploading, a fun for all-ages educational **Interactive Game** and much more.



ENHANCING INFORMATION SYSTEMS

The District's website (www.regionalflood.org) is designed to provide information to the public about the District, current and historical rainfall data, flood control projects and facilities, 100-year flood zone status, public outreach and flood emergency information.

The District continued to provide leading-edge Geographic Information Systems (GIS) technologies to both staff and the public. The District's GIS staff maintained Digital Flood Insurance Rate Map (DFIRM) data and flood control facility data, which was provided to the Clark County's GIS central data repository for use by other entities, agencies and customers. This data was also utilized in the District's web and desktop applications. Staff also responded to custom map requests.

During the past year, the Information Technology (IT) staff completed major steps toward integrating decision support tools and web-based applications into staff work processes and offering external customers web-based tools to enhance usability and efficiency. Among the highlights were:

- Enhancement of the District Document Management System through database maintenance, developing new document retrieval techniques and elimination of storage of documents through digital conversion
- Improvement of the FloodView desktop application with the completion of the FloodView Editor
- Enhancement and upgrade of the Regional Flood Management System with current technology by converting legacy Visual Basic code to .NET applications
- Upgraded the data-editing tool for the Conrail rain gauge application

Future IT projects include completing hardware modernization and on-going enhancements to Enterprise Resource Planning (ERP) integration with Clark County.

The public is encouraged to visit the website as enhancements are continually being made. Educational materials for children and teachers can also be found on the District's website as part of the School Outreach Program.



The District continues to provide leading edge Geographic Information Systems (GIS).

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KEEPING OUR WATERS CLEAN

In accordance with the federal Water Pollution Control Act, the Clark County Regional Flood Control District, as lead agency, has been operating under a National Pollutant Discharge Elimination System (NPDES) permit with the various city and county agencies since December 1990. The permit, which lasts five years, was most recently renewed in February 2010. It outlines a schedule of monitoring requirements, best management practices and conditions designed to protect the quality of surface waters in the Las Vegas Valley.

This past year, the District continued execution of a Storm Water Management Plan (SWMP) adopted in November 2011 identifying specific program areas which must be addressed. The newest program presented in the SWMP deals with mitigation of impacts to storm water quality associated with new development. These new programs are being developed with the intent to be sensible and effective in Las Vegas' unique arid environment and focus on regional solutions that employ the existing and future detention basins. Final program descriptions were submitted to the Nevada Department of Environmental Protection in November 2012 with full implementation planned by November 2013. Revisions and additions to the District's Hydrologic Criteria and Drainage Design Manual are expected to be processed next year to support these new programs.

Three detention basin storm water quality modification projects were funded for construction this year -- Angel Park, Pioneer, and Equestrian detention basins. These modifications will slow down smaller storm flows and allow sediments and pollutants attached to them to settle out, keeping them out of the downstream environment. Regular maintenance will remove accumulated sediments and dispose of them properly. Construction is expected to start next year.



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KEEPING OUR WATERS CLEAN (CONTINUED)

The current construction site inspection program continues with the goal of reducing sediment and construction pollutants entering the storm drain system. Training sessions are held twice a year for local construction companies to aid in their compliance with the program.

The District is also an active member of the Lake Mead Water Quality Forum, the Las Vegas Wash Coordination Committee and participates on the Las Vegas Valley Watershed Advisory Committee. Annual reports of NPDES compliance activities are available on the District's website at www.regionalflood.org.

Additional information useful to the general public in the reduction of stormwater pollution is available at www.lvstormwater.com. The site provides information about stormwater quality, describes proper use and disposal of household chemicals and fertilizers and educates the community about how to improve the quality of urban runoff that travels untreated to Lake Mead. Similar information is distributed at several community events throughout the year.

Residents can also help reduce the impact of pollutants on the environment. By notifying the District and the local government entities about improper disposal of chemicals and pollutants, corrective action can be taken by the appropriate agency. Clogged storm drains and washes, littered with debris, may also cause pollution and flooding problems. In the case of severely clogged curb inlets/storm drains, residents should notify the city or county jurisdiction where the drain is located. Residents can also notify the District at (702) 685-0000 and staff will direct the call to the appropriate entity.

The District continues to develop public service announcements (PSAs) that focus on the importance of not polluting our desert environment. These commercials point out behaviors residents can adopt to help protect Lake Mead, our drinking water source.

Commercials are placed as paid advertising in the spring and fall with the four major television networks to reinforce the importance of not dumping trash; reporting clogged storm drains; proper fertilization; disposal of pet waste; and using commercial car washes. The District staff is also available to give presentations to groups interested in environmental topics associated with flood control.



Lower Las Vegas Wash Detention Basin

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FLOODPLAIN MANAGEMENT

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Las Vegas Wash - Decatur and Elkhorn, CC215 is a \$26.8 million project that should be complete by spring 2014.



FLOODPLAIN MANAGEMENT

(CONTINUED)



Las Vegas Wash - Decatur and Elkhorn, CC215

Master Planning

Master Plans include descriptions of the proposed flood control facilities, cost estimates and suggested phasing. Typical facilities are detention basins, channels, bridges and storm drains. Master Plans for all areas of Clark County are updated every five years. A Master Plan Update for the City of Boulder City was presented to the Advisory Committees in June 2013 and to the Board for adoption in July 2013. The next area scheduled for a master plan update is the Las Vegas valley in September 2013. The elements of a comprehensive floodplain management program include environmental and flood insurance regulations, the community rating system, land development reviews, floodplain mapping and drainage standards. The following sections briefly describe each of these categories being utilized by the entities and the District, as well as the milestones accomplished in fiscal year 2012-13.



Fulfilling Environmental Regulations

Throughout its history, the District has nurtured its relationships with the Bureau of Land Management, United States Fish and Wildlife Service, U.S. Army Corps of Engineers and other resource management agencies. The District continues to assist local governments in their efforts to obtain rights-of-way and environmental permits from regulatory agencies.

The Clean Water Act requires a federal permit for the deposition of fill material in “waters of the United States.” Fill material includes channel armoring, (e.g. concrete and riprap) as well as detention basin embankment materials. Permits for projects which include these types of activities often require some form of mitigation to compensate for adverse impacts to the “waters of the United States.” Identifying acceptable mitigation projects is one of the biggest challenges currently facing the District. We continue to work with the regulatory and permitting agencies to identify mitigation projects and sites so that construction of drainage facilities, that protect life and property, can move forward without delays.

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FLOODPLAIN MANAGEMENT (CONTINUED)

Regulatory Program

The National Flood Insurance Program (NFIP), administered by the Federal Emergency Management Agency (FEMA), has established rules and requirements to address the diverse issues that encompass flood insurance and flood hazard mitigation. Clark County and the incorporated communities within the county have adopted the revised Uniform Regulations for the Control of Drainage in accordance with state statutes. The Board adopted minor revisions to the Uniform Regulations at its February 14, 2013 meeting. These regulations are designed to protect the health, safety and welfare of residents within the community from the hazards associated with flooding. The regulations provide the minimum regulatory control necessary to:

- 1) Promote comprehensive floodplain management
- 2) Require safe flood-prone area development
- 3) Foster sound development policies and construction procedures
- 4) Reduce storm water runoff damage to public and private property

By meeting and exceeding the NFIP requirements, the regulations ensure that all residents of Clark County and incorporated areas are eligible for flood insurance that is available from the federal government. Additionally, all participating communities are eligible for a higher federal match for disaster assistance in the event of a flood.

The Community Rating System

Initiated in 1990, the Community Rating System (CRS) reduces flood insurance premiums to reflect those community activities that are above and beyond the NFIP's minimum standards. The objective of the CRS is to reward insured residents for their community's extra efforts in floodplain management, as well as to provide an incentive for new flood protection activities.

Nationwide, of the nearly 20,100 communities participating in the NFIP, roughly 1,049 community flood management programs are recognized by CRS verification audits. In a cooperative effort with the District, Clark County, the City of Henderson, the City of Las Vegas, the City of Mesquite and the City of North Las Vegas were among the communities to realize a 15 to 25 percent reduction in flood insurance premiums as a result of these audits.

These entities received credit for the District's public information programs, maintenance activities, re-mapping efforts and the Flood Threat Recognition System. In addition, the District's Master Plan, Hydrologic Criteria and Drainage Design Manual and the Uniform Regulations for the Control of Drainage serve as the foundation of a higher regulatory standard that has been recognized by CRS auditors as one of the most comprehensive in the nation.



Flood insurance is available to every homeowner, renter and business owner whether you live in a flood zone or not. Make sure to ask your insurance agent or visit www.floodsmart.gov for more information.

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FLOODPLAIN MANAGEMENT (CONTINUED)

Land Development Reviews

The District performs land development reviews to ensure compliance with the Uniform Regulations for the Control of Drainage and the District's Hydrologic Criteria and Drainage Design Manual, both adopted pursuant to state statutes. The entities are responsible for the review and approval of all drainage plans and studies within their boundaries. The entities must submit development proposals to the District for review if the development impacts the implementation of the Master Plan or lies within a Special Flood Hazard Area. In accordance with the District's Policies and Procedures, staff will commence review once the entity approval is obtained for the pending studies.

This past year, the District received 96 studies and 97 addenda related to the development of private properties deemed to have regional flood control significance. Reviews by the District resulted in the issuance of 90 concurrence letters and 15 related comment letters.

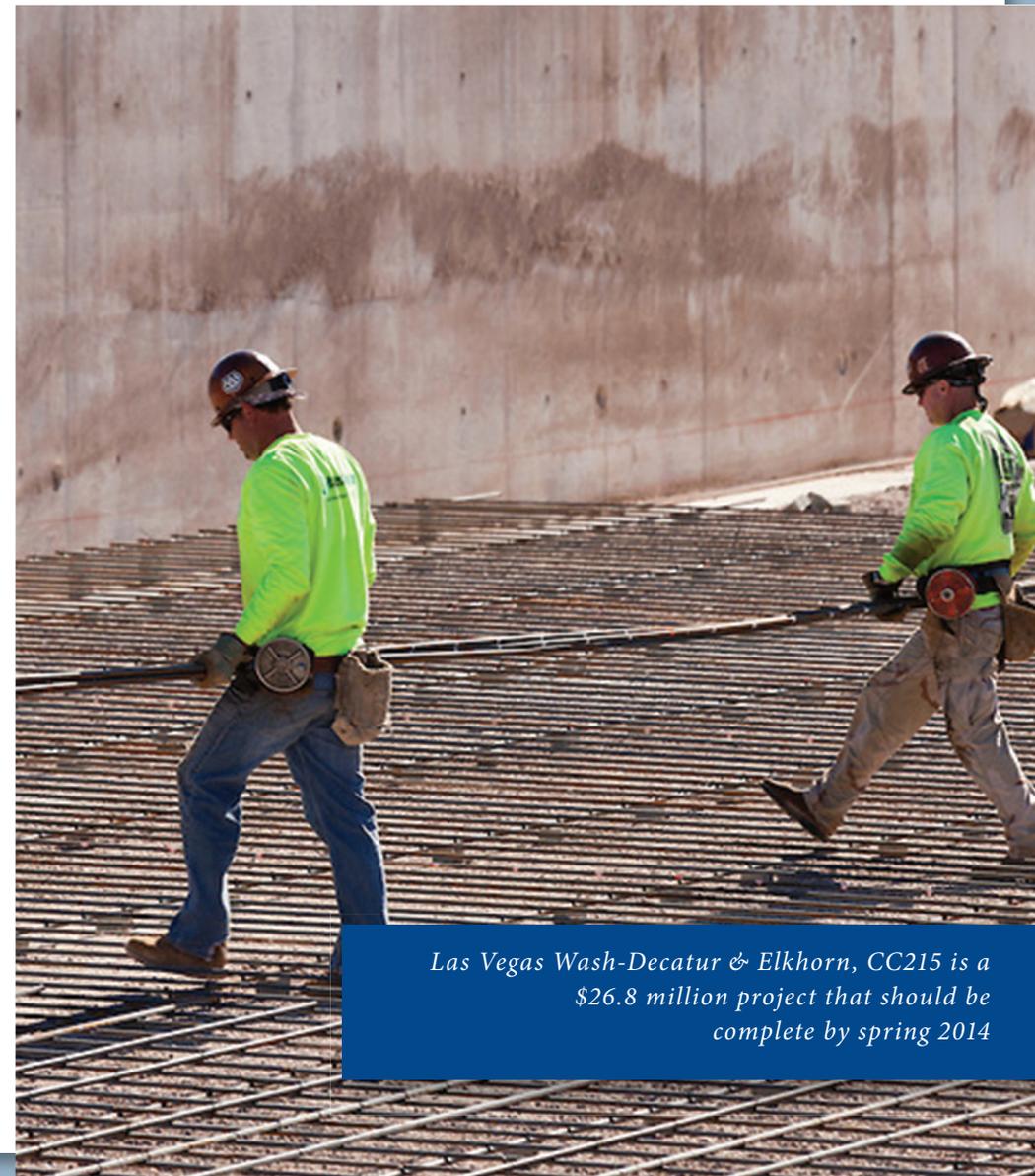
Floodplain Mapping

All six local governments in Clark County are currently participating in the Federal Emergency Management Agency's (FEMA) National Flood Insurance Program (NFIP). In participating communities, all residents are eligible for federal flood insurance whether they live in a flood zone or not. In order to participate in the NFIP, communities must adopt flood hazard maps prepared by FEMA and floodplain regulations in compliance with FEMA's minimum requirements. It is the District's objective to reduce flood hazards by implementing the Flood Control Master Plan. As part of the District's ongoing effort to improve the accuracy of FEMA's flood insurance rate maps and take credit for completed flood control facilities, restudy of flood hazard areas is required. Many areas have already been restudied resulting in the removal of approximately 51.5 square miles or 32,900 acres from identified 100-year flood zones. FEMA published a new assessment of flood hazards on November 16, 2011 for Las Vegas Wash from I-15 to Lake Las Vegas and the Muddy River at Logandale. As a result, 1,900 properties were added to Special Flood Hazard Areas (SFHA). We are working to implement the Master Plan facilities to eventually remove these new flood hazard areas as quickly as revenues permit. The Board approved a resolution to reserve \$50 million of our bonding capacity for the Las Vegas Wash project from Bonanza through the Desert Rose Golf Course including the Flamingo Wash from Nellis Boulevard to the Las Vegas Wash confluence. In addition, The Muddy River Logandale Levee is currently in design. Both projects should be in construction next year.

The District will continue to work closely with the entities and FEMA to further the restudy efforts. In fact, Clark County and the entities were issued one of the first state-of-the-art Digital Flood Insurance Rate Maps (DFIRM) in the nation in fiscal year 2002-03. This has made it possible to make detailed flood hazard information available to the public on the District's website.

Drainage Standards

The District and the entities have adopted the Hydrologic Criteria and Drainage Design Manual (Manual) that presents drainage standards and criteria for the Clark County area. It provides uniformity in drainage planning and design within the District's service area, improves the urban environment and provides a sound basis for the expenditure of future private, public and regional monies. The Manual is used by governmental designers and reviewers and consulting engineers. The Manual was originally adopted in 1990 and updated in 1999 to provide more clarity and address advances in state-of-the-art hydrologic and hydraulic techniques.



Las Vegas Wash-Decatur & Elkhorn, CC215 is a \$26.8 million project that should be complete by spring 2014

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In the primary election of 1986, Clark County voters approved a one-quarter of one percent sales tax increase to fund flood control improvements. The sales tax increase became effective in March 1987, and the first sales tax revenues were received in May 1987. Sales tax revenue for fiscal year 2012-13 totaled \$79.7 million, bringing total revenues derived from sales tax since 1987 to \$1.37 billion.



DEMONSTRATING FISCAL INTEGRITY (CONTINUED)

During the financial crisis of 2007-2010 (The Great Recession), sales tax revenues declined by more than 24 percent. However, as the economy has improved each year since 2010, sales tax revenues have increased, and next year's revenues are projected to be \$81.2 million, which is 3 percent more than the prior year. More than 90 percent of sales tax revenue is used to build and maintain flood control projects and pay for the associated debt service. The remainder, 10 percent of sales tax revenue, is used to pay for salaries and benefits, professional consulting contracts, and other administrative costs. During fiscal year 2012-13, the District expended approximately \$111.7 million for flood control projects, debt service and flood control maintenance and \$5.5 million for administrative costs. Since inception, the District has overseen the design and construction of approximately \$1.73 billion in flood control improvements throughout Clark County.



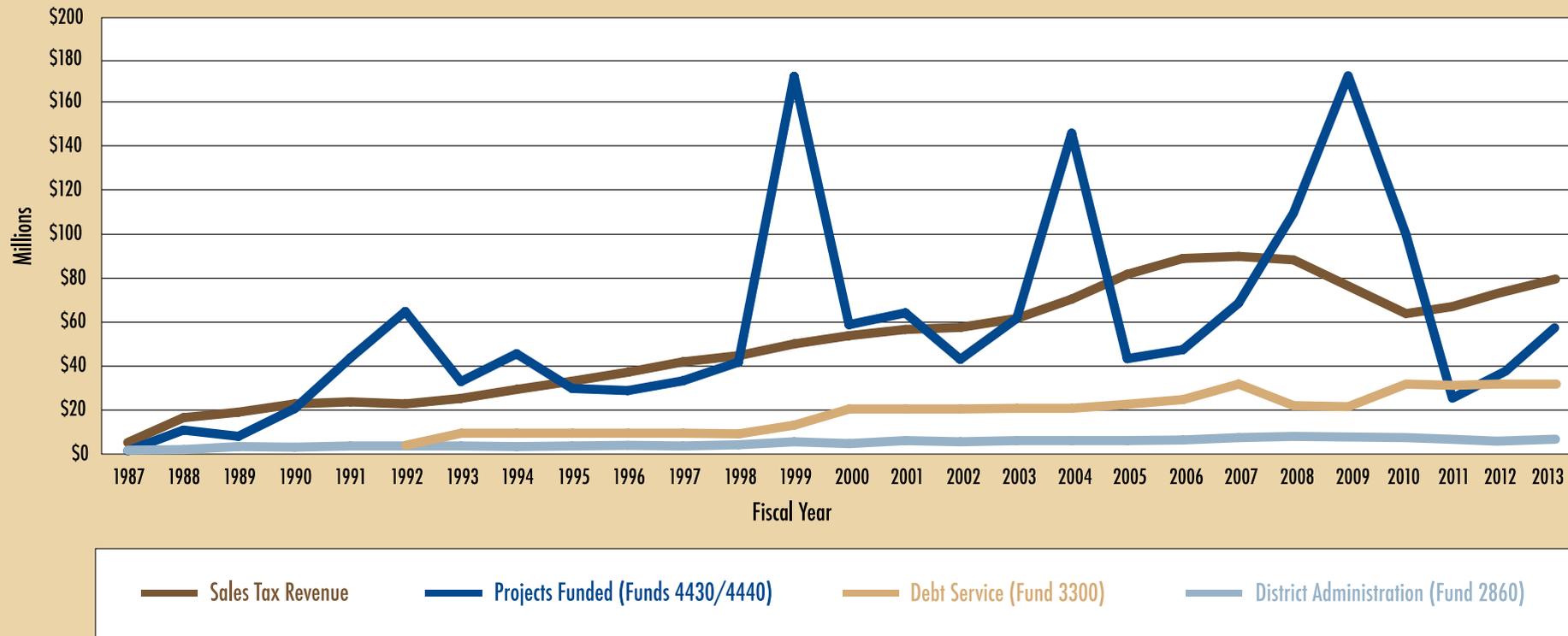
Kyle Canyon Detention Basin

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HISTORICAL FINANCIAL INFORMATION



Each year, in conjunction with the development of the Ten-Year Construction Program (TYCP), a 10-year forecast of project funding is developed. The forecast incorporates revenues including sales tax, interest earnings, and debt-financing and expenditures for projects, operations, maintenance, and debt service. This long-range financial plan drives the TYCP project funding schedule including the planning and coordination of upcoming design and construction projects. Although revenues are still nine percent below their peak in 2007, the District has been able to maximize resources for the TYCP. More than \$152.4 million in resources are available for projects in the first year of the TYCP, and total available resources for the TYCP are estimated to be \$598.5 million, including potential debt issues of \$175 million. However, there is no guarantee that future debt will be issued—the District will evaluate whether to issue debt based on economic conditions and progress in project development at the time debt is considered.



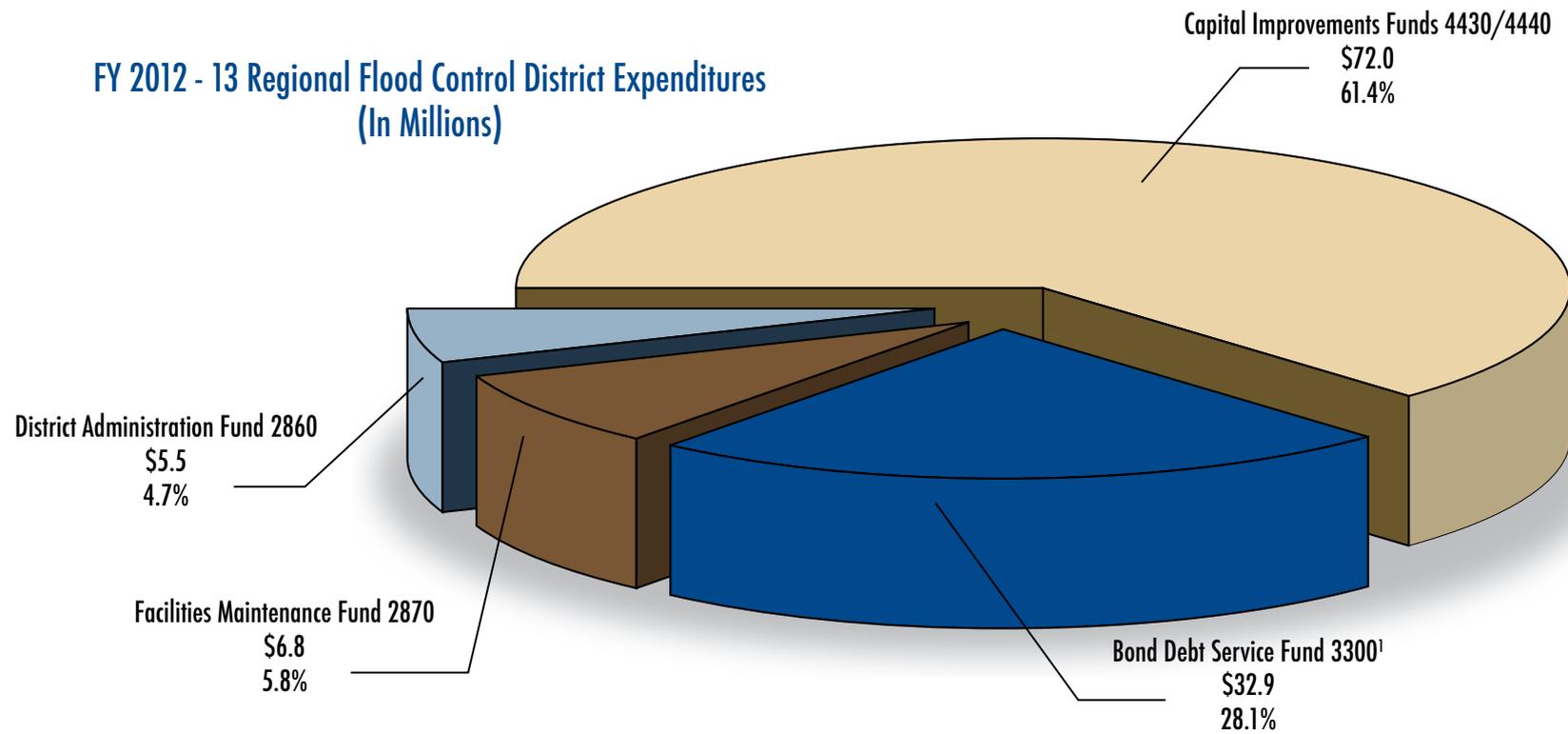
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DISTRICT EXPENDITURES FISCAL YEAR 2012-13

In order to expedite flood control project design and construction, from 1991 to the present, the District has issued a total of \$580 million in general obligations, of which \$393.3 million remains outstanding. These funds have been directly used to pay for flood control projects. Due to the District's and Clark County's excellent credit rating, extremely favorable interest rates have been obtained, which saves the community millions in interest costs. The District has used a blended approach to finance flood control projects including short-term and long-term debt instruments with interest rates that have averaged from less than one percent to 6.2 percent.



¹Bond Debt Service includes the 2006 (\$200 million) General Obligation Flood Control Refunding Bonds, the 2008 (\$50.57 million) General Obligation Flood Control Refunding Bonds, the 2009B General Obligation Flood Control Build America Bonds (\$150 million) and the 2010 (\$29.425 million) General Obligation Flood Control Refunding Bonds that were issued to expedite construction of flood control improvements.

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CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT FUNDS

Governmental Funds - Fiscal Year 2012-13
Sources and Uses of Funds Summary In Millions of Dollars (Unaudited¹)

	Operating Fund 2860	Facilities Maintenance Fund 2870	Bond Debt Service Fund 3300	Capital Improvement Funds 4430 / 4440	Total District Funds ¹
Beginning Balance (July 1, 2012)	\$10.7	\$1.7	\$11.5	\$155.6	\$179.5
SOURCES OF FUNDS					
Sales Tax Revenue	79.7	0.0	0.0	0.0	79.7
Build America Bonds Rebate	3.2	0.0	0.0	0.0	3.2
Interest / Other	0.1	0.0	0.1	1.1	1.3
Transfers from Other Funds	0.7	8.0	33.1	39.6	81.4
Total Sources of Funds	83.7	8.0	33.2	40.7	165.6
USES OF FUNDS					
Salaries and Wages	(2.1)	0.0	0.0	0.0	(2.1)
Employee Benefits	(0.7)	0.0	0.0	0.0	(0.7)
Services and Supplies	(2.6)	(6.8)	0.0	(0.8)	(10.2)
Capital Outlay	(0.1)	0.0	0.0	(71.2)	(71.3)
Principal	0.0	0.0	(11.2)	0.0	(11.2)
Interest	0.0	0.0	(21.7)	0.0	(21.7)
Transfers to Other Funds	(80.7)	0.0	0.0	(0.7)	(81.4)
Total Uses of Funds	(86.2)	(6.8)	(32.9)	(72.7)	(198.6)
Fiscal Year Net Change	(2.5)	1.2	0.3	(32.0)	(33.0)
Ending Balance (June 30, 2013)	\$8.2	\$2.9	\$11.8	\$123.6	\$146.5

Audited financial statements are expected to be available in November 2013.





MAINTAINING FLOOD CONTROL FACILITIES

The Board has adopted an Operations and Maintenance Manual to establish performance standards and guidelines for the maintenance of flood control facilities located within the District's service area. Each of the separate entities in Clark County is provided funds by the District to maintain the regional flood control facilities within their respective jurisdictions. The District worked with the entities to develop the fiscal year 2012-13 Maintenance Work Plans and Budgets, which were approved by the Board on June 14, 2012, in the amount of \$8,810,700. The Board approved a supplemental budget request of \$77,700 on February 14, 2013, bringing the total approved budget to \$8,888,400.

Flood control facility maintenance was performed using a combination of private contractors and entity maintenance staff. During this year, approximately 581 miles of channel and underground storm drains, of which 132 miles are natural washes, were inspected and/or maintained throughout the service area of the District, along with 90 detention basins.

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MAINTENANCE WORK PROGRAM EXPENDITURES

Entity.....	FY 2012-13 (Unaudited)
Boulder City.....	\$181,461.65
Clark County.....	\$2,121,646.50
Henderson.....	\$547,143.98
Las Vegas.....	\$2,049,604.38
Mesquite.....	\$287,700.00
North Las Vegas.....	\$1,621,533.99
TOTAL.....	\$6,809,090.50

Pedestrian bridge at Las Vegas Wash and Cheyenne





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Las Vegas Wash - Lake Mead to Las Vegas Boulevard

Central Freeway Channel at Lake Mead





North and South
Environmental Enhancement
Areas at Floyd Lamb Park

TOTAL PROJECT FUNDING

Through Fiscal Year 2012-13 (\$ Millions)

	Total-to-Date	FY 2012-13
Boulder City.....	\$27.1	\$2.9
Clark County ¹	\$764.9	\$21.3
Henderson.....	\$161.2	\$4.0
Las Vegas.....	\$451.1	\$31.1
Mesquite.....	\$24.0	\$0
North Las Vegas ²	\$286.4	\$(2.4)
TOTAL FUNDING¹	\$1,714.7	\$56.9

¹ Includes federal funding for the Tropicana and Flamingo Washes Project.

² As a result of favorable bids for projects funded in prior years, amounts returned exceed amounts funded in FY 2012-13.

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CLARK COUNTY	ESTIMATED COMPLETION DATE
Airport Channel - Naples, Design	June 2015
Blue Diamond Wash - Arville to I-15, Design	June 2015
Blue Diamond Wash Railroad, Right-of-Way	June 2015
Duck Creek at Dean Martin, Design	April 2015
Duck Creek Las Vegas Boulevard, Design	June 2015
Duck Creek at Sunset to Sandhill, Design	January 2014
Duck Creek - Sunset to Sandhill, Construction	August 2015
F-4 Patrick Lane/Ft. Apache Road Lateral, Design	February 2014
F-4 Patrick Lane/Ft. Apache Road Lateral, Construction	August 2015
Flamingo Wash, Industrial Road to Hotel Rio Drive, Design	June 2014
Flamingo Wash, Industrial Road to Hotel Rio Drive, Construction	June 2015
Flamingo Wash, Tioga to Eastern, Construction	December 2014
Las Vegas Wash - Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard, Design	February 2014
Las Vegas Wash - Sloan Channel to Bonanza & Flamingo Wash below Nellis (CC Segment), Construction Mgmt.	August 2015
Outlying Areas - Fairgrounds Detention Basin, Design	March 2014
Outlying Areas - Fairgrounds Detention Basin, Construction	September 2015
Outlying Areas - Goodsprings - Phase I, Design	June 2014
Outlying Areas - Goodsprings - Phase I, Right-of-Way and Construction	December 2015
Outlying Areas - Laughlin - SR 163 to Casino Drive, Design	March 2014
Outlying Areas - Muddy River Logandale Levee, Design	February 2014
Outlying Areas - Muddy River Logandale Levee, Construction	August 2015
Outlying Areas - Searchlight - South, Encinitas St. Storm Drain, Design	July 2014
Outlying Areas - Searchlight - South, Encinitas St. Storm Drain, Construction	December 2015
Outlying Areas - Windmill Wash Detention Basin Expansion, Design	April 2014
Outlying Areas - Windmill Wash Detention Basin Expansion, Construction	October 2015
Silverado Ranch Detention Basin, Design	June 2015
Tropicana Avenue Conveyance - Las Vegas Wash to Mountain Vista, Design	June 2014
HENDERSON	
Anthem Parkway Channel, Horizon Ridge to Sienna Heights, Design	June 2014
Anthem Parkway Channel - Horizon Ridge to Sienna Heights, Construction	September 2015
Center Street Storm Drain, Design	December 2014
Horizon Ridge Debris Basin & Outfall at Sumner Ranch Road, Design	December 2014
C-1 Channel Lake Mead - C-1 to Shoshone, Construction	June 2015
C-1, Four Kids Wash - Lake Mead to Eagle Rock, Design	June 2014
Pittman Burns, Sunset to Galleria, Design	January 2014
Pittman North Detention Basin, Design	June 2015



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Pittman North Detention Basin Outfall, Design and Right-of-Way	June 2015
Pittman Wash, Duck Creek at I-515, Design	July 2015
Pittman West Horizon - Palm Hills, Design	December 2014
Pittman West Horizon - Palm Hills, Construction	June 2015
Racetrack Channel - Drake to Burkholder, Design	September 2014
Racetrack Channel - Drake to Burkholder, Construction	March 2016
LAS VEGAS	
Boulder Highway Sahara Avenue, Mojave Road to Boulder Highway, Design	July 2015
Brent Drainage System - Floyd Lamb Park to Durango, Design	December 2014
Cedar Avenue Channel Improvements, Design	December 2014
Centennial Parkway Channel West - CC 215, Pioneer to US 95, Design	February 2015
Flamingo Wash, Boulder Highway North - Main Street, Design	December 2014
Flamingo - Boulder Highway North, Main Street, Construction	June 2016
Freeway Channel - Washington, MLK to Rancho Drive, Design	May 2014
Gowan Outfall - Alexander Road, Rancho to Decatur, Design	February 2015
Gowan Outfall - Buffalo Branch, Lone Mountain to Washburn, Design	January 2015
Gowan Outfall - Simmons, Alexander to Craig, Design	June 2014
Las Vegas Wash - Sloan Channel to Bonanza & Flamingo Wash below Nellis, Design	February 2014
Las Vegas Wash - Sloan Channel to Bonanza & Flamingo Wash below Nellis (CLV Segment) Construction Mgmt.	August 2015
Oakey - Meadows Storm Drain, Construction	October 2015
Rancho Road System - Elkhorn, Fort Apache to Grand Canyon, Design	January 2014
Rancho System - Beltway to Elkhorn, Design	November 2013
Rancho Road System - Beltway to Elkhorn, Construction	May 2015
MESQUITE	
Town Wash - Mesa Boulevard, Pioneer to Town Wash, Design	June 2015
Virgin River Flood Wall, Design	December 2016
NORTH LAS VEGAS	
Ann Road Channel East - ULVW to Fifth Street, Design	April 2014
Ann Road Channel East, Las Vegas Wash to Fifth Street, Right-of-Way	October 2013
Ann Road Channel East, Las Vegas Wash to Fifth Street, Construction	October 2015
Beltway Detention Basin & Channel, Design and Right-of-Way	June 2015
Brooks Channel, Design and Right-of-Way	February 2014
Brooks Channel, Construction	August 2015
Centennial Collector, Design and Right-of-Way	July 2015
Colton Channel, Design	February 2014
Colton Channel, I-15 to Fifth Street, Construction	August 2015
Fifth Street Collector - Centennial to Deer Springs, Design and Right-of-Way	June 2015

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Hollywood System, Las Vegas Blvd to Azure, Design and Right-of-Way	September 2015
Las Vegas Boulevard Drain, Design	April 2015
Las Vegas Wash - N Channel, Cheyenne to Gowan, Design and Right-of-Way	August 2015
Las Vegas Wash - Sloan Channel to Bonanza & Flamingo Wash below Nellis (NLV Segment) Construction Mgmt.	August 2015

PROJECTS FUNDED OR UNDER CONSTRUCTION (AS OF JUNE 30, 2013)

	ESTIMATED COMPLETION DATE
BOULDER CITY	
Bootleg Canyon Detention Basin, Phase II	December 2014
Buchanan Blvd., Phase III Improvements	December 2014
North Railroad Conveyance	July 2013
CLARK COUNTY	
Carey Avenue Storm Drain, Local Drainage Project	July 2013
Flamingo - Boulder Highway North, Sahara Avenue to Flamingo Wash	July 2013
Flamingo Diversion - Rainbow Branch	December 2014
Orchard Detention Basin	November 2014
Outlying Areas - Muddy River Cooper Street Bridge	October 2014
Tropicana Wash at Swenson Street	March 2014
Washington/Hollywood Street Storm Drain, Local Drainage Project	August 2014
HENDERSON	
Equestrian Detention Basin Expansion	November 2013
Equestrian Tributary, Phase II	December 2014
Pioneer Detention Basin Expansion and Inflow	November 2014
Pittman Wash, UPRR to Santiago, Phase II	November 2014
LAS VEGAS	
Angel Park Detention Basin Expansion	November 2014
Ann Road Channel West - Rainbow Boulevard	November 2014
Centennial Parkway Channel West - US 95 Crossing	December 2014
Concord Street Storm Drain, Local Drainage Project	December 2014
LVW - Grand Teton, Mountain Spa to Durango Drive	December 2014
Vegas Drive Storm Drain - Rancho to Shadow Mountain	July 2014
NORTH LAS VEGAS	
Freeway Channel - Owens Avenue to Miller Avenue, Phase II	August 2013
Las Vegas Wash - Main Branch, Lake Mead Boulevard to Las Vegas Boulevard	July 2013



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PROJECTS COMPLETED (DURING FISCAL YEAR 2012-13)

CLARK COUNTY

Annie Oakley Drive at Rawhide Channel Storm Drain, Local Drainage Project	January 2013
Flamingo Diversion - South Buffalo Branch, Flamingo Wash to Sunset Road	June 2013
Olive Street Storm Drain, US-95 to Palm Street, Local Drainage Project	March 2013

HENDERSON

NV Energy Relocation, Equestrian Tributary, Phase I	January 2013
Pittman Wash, UPRR to Santiago, Phase I	March 2013

LAS VEGAS

Oakey Drain - Cahlan to Barnard	January 2013
Oakey Meadows Storm Drain - Phase IIB	June 2013

NORTH LAS VEGAS

Simmons Street - Phase II, Carey to Cheyenne	March 2013
Las Vegas Wash - Las Vegas Boulevard to Cheyenne Avenue	May 2013

PROJECTS COMPLETED (DURING FISCAL YEAR 2011-12)

BOULDER CITY

Yucca Debris Basin, Collection and Outfall	February 2012
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CLARK COUNTY

Duck Creek, Mountain Vista Street to Green Valley Parkway	February 2012
Duck Creek, Robindale to I-215	March 2012
Flamingo Wash, Nellis Boulevard to I-515	June 2012
Lower Flamingo Detention Basin	June 2012

LAS VEGAS

Gowan Outfall - Lone Mountain Branch (Rancho Drive to Decatur Boulevard)	June 2012
Langtry Channel - Bonanza Road to Washington Avenue (DESIGNED WITH MWP)	November 2011
Las Vegas Wash - Decatur & Elkhorn, CC 215	June 2012
North and South Environmental Enhancement Areas - Floyd Lamb Park	April 2012
Oakey - Meadows Storm Drain, Phase IIA	April 2012

MESQUITE

Town Wash Conveyance, I-15 to Virgin River	July 2011
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REGIONAL FLOOD CONTROL DISTRICT MEMBERSHIPS

ALERT User's Group • American Meteorological Society • American Public Works Association • American Society for Public Administration • American Society of Civil Engineers • Arizona Floodplain Management Association • Association of State Dam Safety Officials • Association of State Floodplain Managers • City-County Communications and Marketing Association • Construction Managers Association of America • Floodplain Management Association • Government Finance Officers Association • International Association of Business Communicators • Las Vegas Valley Watershed Advisory Committee • National Association of Flood and Storm Water Management Agencies • National Association of Government Communicators • National Hydrologic Warning Council • National Society of Professional Engineers • Nevada Hazard Mitigation Planning Committee • Nevada Taxpayers Association • Public Relations Society of America • Southern Nevada Home Builders Association • State of Nevada Entity Technical Alliance • UNLV Civil and Environmental Engineering Department Advisory Board

SPECIAL DISTRICT RECOGNITION

2013 GOVERNMENT FINANCE OFFICERS ASSOCIATION (GFOA)

- Distinguished Budget Presentation Award for the District's Fiscal Year 2012-13 Budget and Financial Plan

2012 GOVERNMENT FINANCE OFFICERS ASSOCIATION (GFOA)

- Distinguished Budget Presentation Award for the District's Fiscal Year 2011-12 Budget and Financial Plan

2012 NAFSMA EXCELLENCE IN COMMUNICATIONS AWARD

- Special Recognition/Comprehensive Campaign (Flood Safety Awareness/Water Quality)

2012 FLOODPLAIN MANAGEMENT ASSOCIATION

ANNUAL AWARDS

- Media Award: Flood Safety License Plate Campaign

2012 PUBLIC RELATIONS SOCIETY OF AMERICA

PINNACLE AWARDS

- Pinnacle Award: 2011-12 Annual Report
- Pinnacle Award: The Flood Channel #91 – Efficient Use of Taxpayer Dollars

2011 PUBLIC RELATIONS SOCIETY OF AMERICA

PINNACLE AWARDS

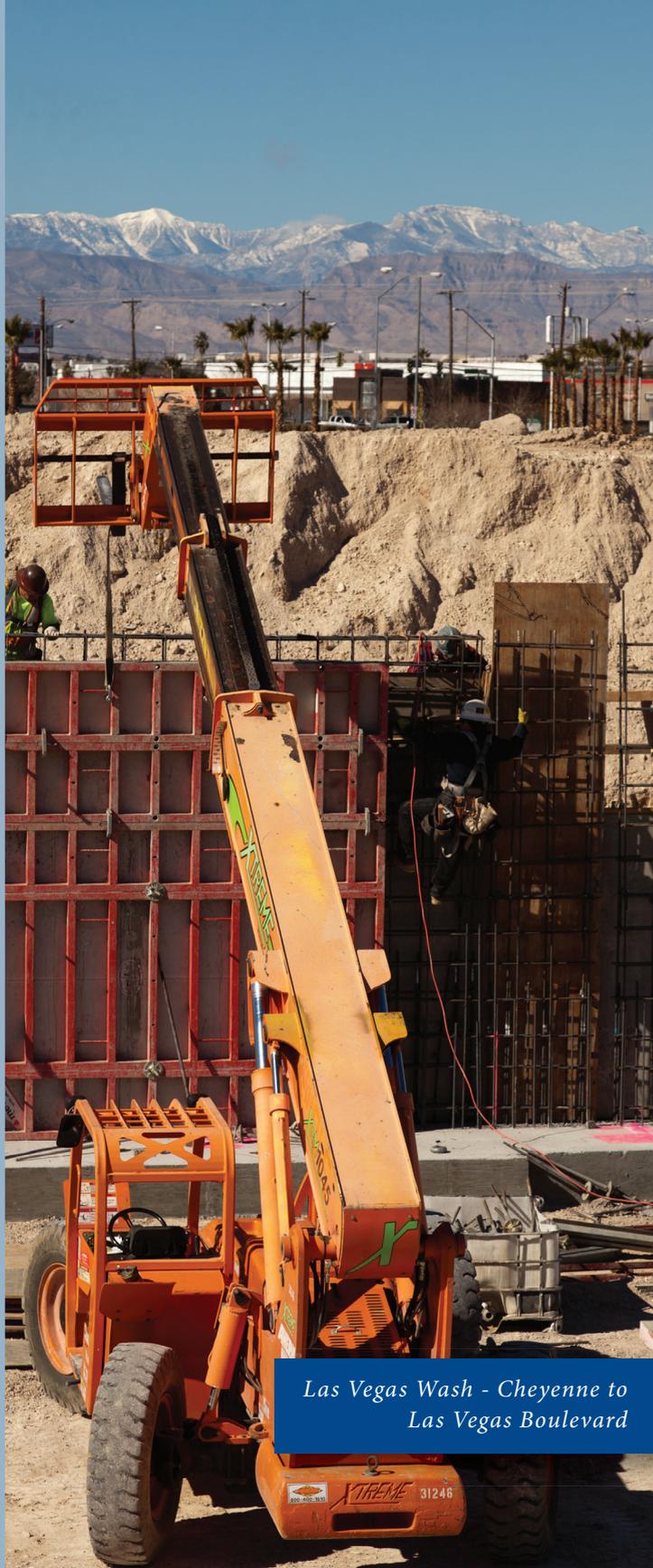
- 2nd place Award of Excellence for the "Don't Trash Clark County Pet Waste" PSA



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*Las Vegas Wash - Cheyenne to
Las Vegas Boulevard*

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Las Vegas Wash - Cheyenne to Las Vegas Boulevard



Kyle Canyon Detention Basin

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*Central Freeway Channel Owens
Avenue to Miller Avenue*

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Las Vegas Wash at Cheyenne

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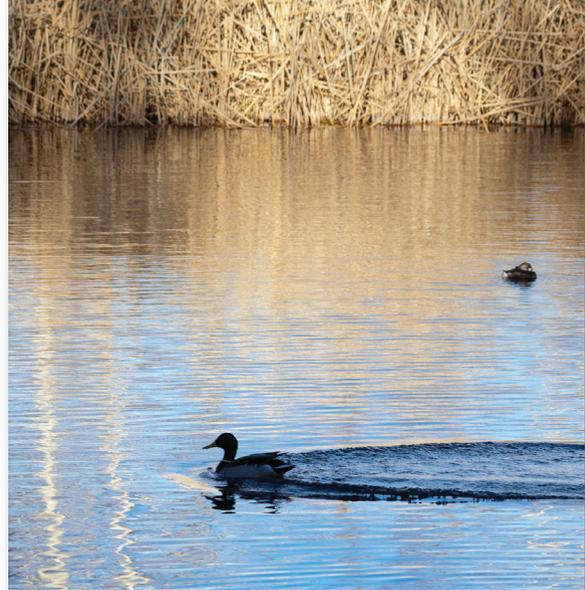
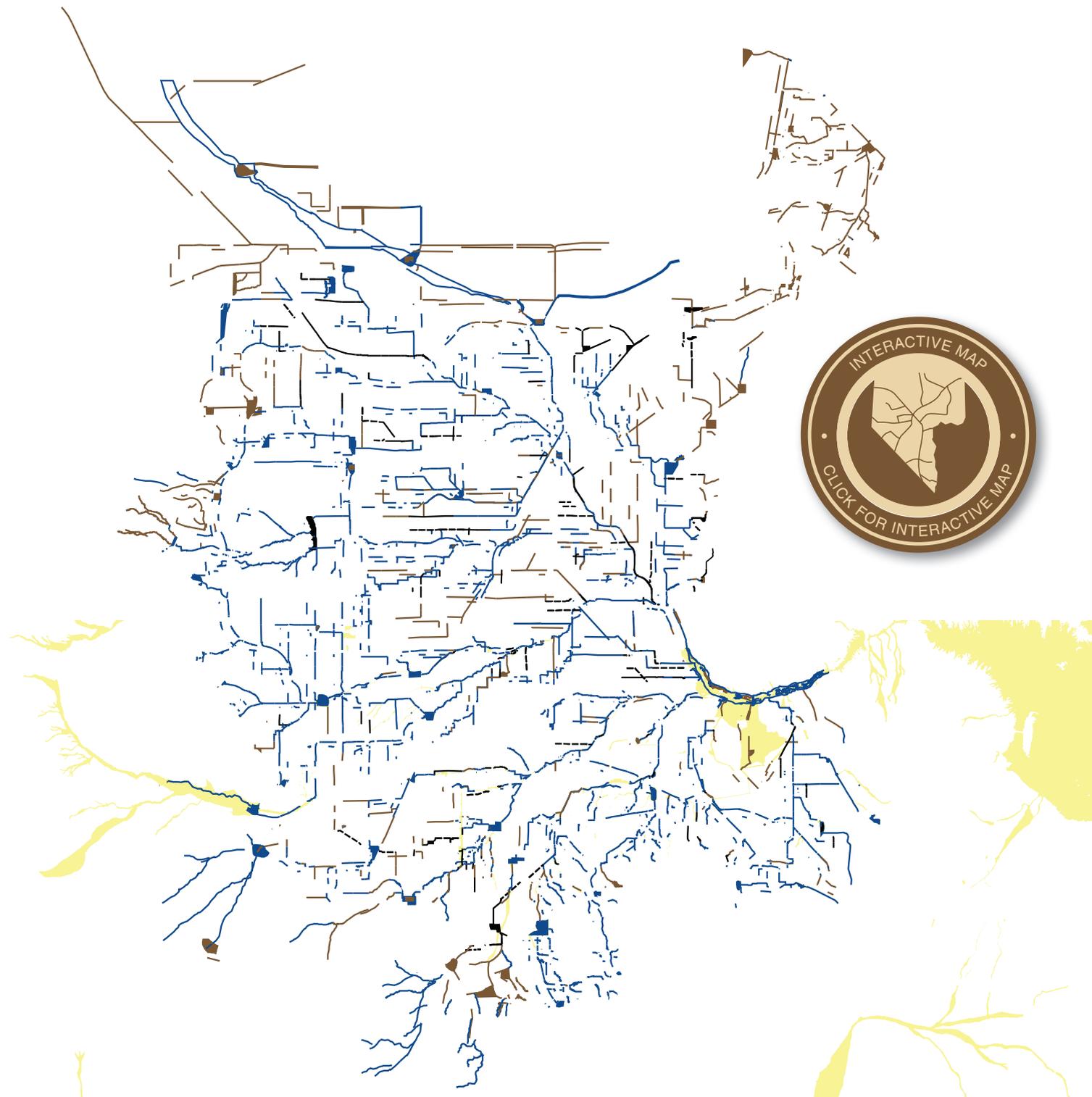
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Las Vegas Wash - Decatur & Elkhorn, CC215



TEN-YEAR CONSTRUCTION PROGRAM LAS VEGAS VALLEY



LEGEND

<p>Conveyances</p> <p>— Completed</p> <p>— Proposed</p>	<p style="text-align: center;">N</p> <p>Basins</p> <p>■</p> <p>■</p>
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Service Area
Includes all of Clark County



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Monday – Friday 8am to 5pm
702.685.0000

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