

REGIONAL FLOOD CONTROL DISTRICT



NOTICE OF PUBLIC MEETING

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
BOARD OF DIRECTORS COMMITTEE
TO EVALUATE THE PERFORMANCE
OF THE GENERAL MANAGER,
STEVEN C. PARRISH, P.E.

JANUARY 25, 2017
3:00 P.M.

RFCD/RTC ADMINISTRATION BUILDING
THIRD FLOOR MEETING ROOM #309
600 SOUTH GRAND CENTRAL PARKWAY
LAS VEGAS, NEVADA 89106

FOR ADDITIONAL INFORMATION CONTACT:

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This meeting has been properly noticed and posted at the following locations:

Clark County Regional Flood Control District 600 South Grand Central Parkway Las Vegas, Nevada 89106	Clark County Regional Flood Control District Worldwide Website www.regionalflood.org
Clark County Government Center 500 South Grand Central Parkway Las Vegas, Nevada 89155	City of Boulder City 401 California Boulder City, Nevada 89024
City of Henderson 240 Water Street Henderson, Nevada 89015	City of Las Vegas 495 S. Main Street Las Vegas, Nevada 89101
City of Mesquite 10 East Mesquite Boulevard Mesquite, Nevada 89027	City of North Las Vegas 2250 Las Vegas Boulevard North Ste. 800 North Las Vegas, Nevada 89030
The Notice, Agenda, and Agenda Full-Backup have been posted on the District's Website at www.regionalflood.org	The Notice has been posted on the State of Nevada Public Notice Website at https://notice.nv.gov/

By: Sherry Allen

REGIONAL FLOOD CONTROL DISTRICT



AGENDA

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT BOARD OF DIRECTORS COMMITTEE TO EVALUATE THE PERFORMANCE OF THE GENERAL MANAGER

JANUARY 25, 2017

3:00 P.M.

I. Call the meeting to order and approve the agenda with deletion of any items

1. Comments By the General Public

This is a period devoted to comments by the general public about items on **this** agenda. If you wish to speak to the Regional Flood Control District Board of Directors Subcommittee to evaluate the performance of the General Manager about items within its jurisdiction but not appearing on this agenda, you must wait until the “Comments By the General Public” period listed at the end of this agenda. Comments will be limited to three minutes. Please step up to the speaker’s podium, clearly state your name and address and please **spell** your last name for the record. If any member of the Regional Flood Control District Board of Directors Subcommittee to evaluate the performance of the General Manager wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors Subcommittee by majority vote.

2. Evaluate the performance of Steven C. Parrish, P.E., the Regional Flood Control District General Manager for calendar year 2016, set goals and objectives for calendar year 2017 and adjust compensation or take action as deemed appropriate *(For possible action)*

3. Comments By the General Public

A period devoted to comments by the general public about matters relevant to the Regional Flood Control District Board of Directors Subcommittee to evaluate the performance of the General Manager jurisdiction will be held. No vote may be taken on a matter not listed on the posted agenda. Comments will be limited to three minutes. Please step up to the speaker’s podium, clearly state your name and address

and please **spell** your last name for the record. If any member of the Regional Flood Control District Board of Directors Subcommittee to evaluate the performance of the General Manager wishes to extend the length of a presentation, this will be done by the Chairman, or the Regional Flood Control District Board of Directors Subcommittee by majority vote.

All comments by speakers should be relevant to the Regional Flood Control District Board of Directors Subcommittee action and jurisdiction.

REGIONAL FLOOD CONTROL DISTRICT



2016 STRATEGIC PLAN

RESULTS

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.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2016 Strategic Plan Summary

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.

KEY SERVICE AREAS

Master Planning
Capital Improvement Program
Operations and Maintenance
Floodplain Management
Environmental Protection

GOALS

Provide updated Master Plans for the control of flooding.
Implement projects that provide the community with flood protection.
Effect regulations, criteria and programs that protect the environment and are sound storm water management tools.
Enhance public awareness of flood safety and other District programs.
Seek opportunities to maximize the efficiency and effectiveness of District services.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2016 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. Capital Improvement Program
 3. Operations and Maintenance
 4. Floodplain Management
 5. Environmental Protection
-

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.

Goal #1 Provide updated Master Plans for the control of flooding.
(Master Planning and Environmental)

Strategies:

1. Identify sustainable solutions to mitigate flooding problems that are efficient, cost effective, and can be implemented.
2. Account for the need to manage the flood risk for both existing and future development.
3. Respond to opportunities that enhance the usefulness of the Master Plans.
4. Update the Master Plan by utilizing the best resources and information available.
5. Comply with the requirements of the Nevada Revised Statutes.
6. Present Master Plan updates, changes, and amendments to governmental bodies for consideration and adoption.
7. Coordinate the Master Plans with regional planners to allow opportunities for recreational, transportation, and environmental enhancements.

Objectives:

1. Manage the Master Plan Update for Muddy River and Tributaries for adoption by March 2016.
The Master Plan Update (MPU) was reviewed and completed in coordination with the District, Clark County, the Nevada Department of Wildlife and local communities. Due to the sparse development in the Upper Muddy River floodplain (Moapa and Glendale), the plan continues to recommend sound floodplain management for that area, however, several changes and amendments were recommended for the Lower Muddy River area, including:
 - *changes to the size and locations of the Western Washes detention basins;*
 - *the Western Washes railroad channel has been upsized;*
 - *two new detention basins have been added to address flows from the east of the Muddy River;*
 - *the previously proposed parallel channel below Cooper Street has been replaced by a newly proposed West Creek channel; and*
 - *the previously recommended levee along the east side of Muddy River channel below Lewis Avenue has been removed from the Master Plan, as has the excavated channel through the Overton Wildlife Management Area.*

2. Initiate the Master Plan Update for Bunkerville and Mesquite by May 2016 for adoption by August 2017. Attempt to streamline the update process to minimize cost while meeting the needs of the community and requirements of state law.
On August 11, 2016, the District Board authorized the General Manager/Chief Engineer to solicit proposals, select a consultant and negotiate a professional services contract to prepare a Master Plan Update for the Town of Bunkerville and the City of Mesquite. A professional services contract to perform the work was approved by the Board on December 8, 2016 and the completion of the MPU is scheduled to be finalized and presented to the Board for adoption in November 2017.

3. Initiate the Master Plan Update for the Las Vegas Valley by April 2016 for adoption by September 2018. Attempt to streamline the update process to minimize cost while meeting the needs of the community and requirements of state law.
On May 19, 2016, the District Board authorized the General Manager/Chief Engineer to solicit proposals, select a consultant and negotiate a professional services contract to prepare a Master Plan Update for the Las

Vegas Valley. A professional services contract to perform the work was approved by the Board on September 8, 2016 and the completion of the MPU is scheduled to be finalized and presented to the Board for adoption in September 2018.

4. Review all Master Plan Changes and Amendments to see if they require Southern Nevada Regional Planning Coalition (SNRPC) action. Review Nevada Revised Statute requirements for Master Plan Changes and Amendments and propose changes as necessary.
District staff reviews all changes and amendments to ensure they conform to the SNRPC Regional Policy Plan. In August and October of 2016, two separate Master Plan Changes were adopted in the Duck Creek Blue Diamond Watershed. In November of 2016, a Master Plan Amendment was adopted in the Lower Northern Las Vegas Wash Watershed. District staff coordinated the changes and amendment to the Las Vegas Valley Master Plan with the planning departments at the respective entities to ensure the actions would conform to the SNRPC Regional Policy Plan and be heard by the SNRPC for approval.
5. Continue to participate in forums on the water cycle and assess the effect on future Master Plans.
District staff continues to participate in regular meetings to discuss these issues. Regular meetings include Stormwater Quality Management Committee, Lake Mead Water Quality Forum, Las Vegas Valley Watershed Advisory Committee, and the Las Vegas Wash Coordination Committee.
6. Review future Bureau of Land Management (BLM) land sales to determine impacts on the Master Plans and identify real estate to be reserved for future flood control infrastructure.
The review process has been established to address BLM sales, and comments are offered when appropriate to secure future rights-of-way. During calendar year 2016, 40 parcels were reviewed as part of 11 BLM land sales.
7. Continue routine maintenance of the District's Geographic Information System (GIS) with engineering and cost data for the Capital Improvement Program.
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 is continually updated to reflect new flood insurance studies and completed flood control projects. This GIS data is provided to Clark County's GIS central data repository for use by other entities, agencies, and customers. This data is also utilized in the District's web, desktop, and mobile applications. Information Technology staff also responds to custom map and other GIS product requests.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2016 Strategic Plan

Key Service Areas

1. Master Planning
 2. *Capital Improvement Program*
 3. *Operations and Maintenance*
 4. Floodplain Management
 5. *Environmental Protection*
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Goal #2 Implement projects that provide the community with flood protection.
(Capital Improvement Program, Operations and Maintenance, Environmental, and Local Drainage)

Strategies:

1. Improve regional coordination of flood control activities.
2. Expeditiously implement Master Plan facilities in a logical order.
3. Acquire, design, construct, and maintain facilities utilizing the best available information.
4. Improve partnerships with stakeholders.
5. Ensure the effective use of funds for implementation and maintenance of flood control facilities.
6. Ensure compliance with local, state, and federal programs and/or regulations.
7. Keep abreast of new rules, regulations, and technologies that impact the continued implementation of the District's Master Plan.
8. Maximize the benefits of the regional system through a local drainage program for entities to implement local drainage projects.
9. Provide quality assurance, quality control, and value engineering on projects.
10. Explore all opportunities to discharge the Master Plan in a timely manner.

Objectives:

1. *Oversee the construction of flood control facilities identified in the Regional Flood Control District Master Plan(s). Currently, the District has the successful administrative and fiscal management of 98 open interlocal contracts totaling \$408.9 million, of which \$139.2 million is remaining. In FY 2015-16, the District's Board of Directors acted upon 64 projects funding approximately \$52.8 million using resources from Pay-As-You-Go of \$15.2 million and project closeouts and reductions totaling \$37.6 million. As of December 2016 (FY 2016-17), the Board has acted upon 15 projects funding \$25.0 million, of which \$22.2 million used resources from Pay-As-You-Go funding and Bond funding and \$2.8 million in returns from project closeouts and reductions.*

During FY 2015-16, 9 projects were awarded for construction totaling \$203.0 million. This amount includes District funding of \$125.3 million with the remainder funded by other sources. Additionally, 14 projects completed construction over the fiscal year with a total value of \$87.4 million, of which \$72.7 million were RFCD funds. With a combined total of \$290.4 million, approximately 3,457 jobs would be created or sustained.

In FY 2015-16, the District spent \$9.6 million in Facility Maintenance. The Facility Maintenance budget for FY 2016-17 is \$10.5 million and the Local Drainage Program is \$1,000,000 to allow maximum funding for the Capital Improvement Program. Revenue trends will continue to be evaluated and additional cost-savings measures implemented to maximize funding for projects.

The Las Vegas Wash - Sloan Channel to Bonanza Road and Flamingo Wash below Nellis Boulevard project includes improvements to the existing channel and the Desert Rose Golf Course to increase the capacity of Las Vegas Wash to convey a flow rate of approximately 14,000 cubic feet per second (cfs) at Cedar Avenue to over 21,000 cfs at Sloan Channel from a tributary area of over 1,100 square miles. The majority of this project lies within Clark County with the remainder being within the City of Las Vegas. Clark County is the Lead Agency and is managing the design and construction of the project. With the advent of improved analytical technology, a greater flood risk than previously estimated has been identified along this reach of the Las Vegas Wash. As a result, on November 16, 2011 a revised flood hazard map was published by the Federal Emergency Management Agency (FEMA), which added in excess of 1,700 structures (homes and businesses) to the Special Flood Hazard. This project has reduced flood risk to life and property and allowed FEMA to revise the flood hazards maps in the area to reflect the reduced flood threat. To date, \$82,884,000 of RFCD funds have been encumbered for construction and construction engineering for the project. Outside funding totaling

\$41,817,210 from the City of Las Vegas for sewer improvements and Clark County for reconstruction of the club house is also included for a total project cost of \$120,261,666. The channel and major bridge structures within the limits of the golf course are complete, as well as the reconstruction of the golf course itself. The club house reconstruction is complete and the golf course is open to the public. The design of the north reach of Las Vegas Wash extending from Nellis Boulevard to the north is completed, the project is currently under construction and scheduled to be completed in spring 2017. A request for a Letter of Map Revision was submitted to FEMA in the fall of 2015 to remove Special Flood Hazard Areas where possible. The request was approved by FEMA in May 2016, and the new Flood Insurance Rate Maps became effective September 22, 2016. In addition, a conditional letter of map revision has been approved by FEMA for the reach extending north from Nellis Boulevard. Once construction is complete on this reach, a final Letter of Map Revision request will be submitted to FEMA to revise the flood zone limits as a result of the new channel.

2. Ensure effective and efficient maintenance of flood control facilities.

Approved interlocal contracts for all entities in FY 2015-16 totaled \$12,307,350.00, of which \$9,604,598.88 was spent on the Maintenance Work Program to ensure efficient operation of the flood control network.

Staff is reviewing and monitoring the FY 2016-17 use of maintenance funds, of which \$10,454,750.00 was approved in Interlocal contracts for the six member entities. As of the second quarter of FY 2016-17, \$2,443,665.53 has been spent.

3. Manage the Local Drainage Program to aid the community.

In FY 2016-17 there were no requests for funding for the Local Drainage Program. Since the inception of the Local Drainage Program in fiscal year 2003, 26 projects have been funded by the District totaling \$12,970,513.63, which includes reductions and project closeouts. In FY 2016-17, \$1,000,000.00 is budgeted for this program.

4. Monitor and respond to state/federal legislation that may impact the discharge of the Master Plans.

District staff and consultants work with state and federal representatives to monitor, suggest, and support legislation that is favorable for design and construction of the Master Plan projects. These efforts are ongoing. District consultant has engaged local entities to create a database of public facilities on federal lands in support of legislation intended to turn the ownership of those lands including mineral rights to the local governmental entity. In addition, District General Manager provided testimony in July 2016 to the House Natural Resources Committee chaired by Representative Rob Bishop (R-Utah) to further inform congressional leaders of the benefits and the importance of passing legislation to resolve issues related to BLM control of lands where local public facilities have been constructed.

5. Evaluate multi-use proposals for projects.
District staff periodically reviews multiple use proposals from member entities and private developers planning multi-use projects in Regional facilities. District staff participates in the Regional Open Space and Trails workgroup monthly meetings to help identify and coordinate new trail projects which may impact Regional facilities.
6. Participate in engineering associations.
District staff participated in several local and national engineering association events. District staff are members of, or contributors to the following organizations/committees: 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, Department of Homeland Security Dam and Levee Sectors, Floodplain Management Association, Government Finance Officers Association, International Association of Business Communicators, Lake Mead Water Quality Forum, Las Vegas Valley Watershed Advisory Committee, Las Vegas Wash Coordination 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 Silver Jackets, Nevada Taxpayers Association, Public Relations Society of America, Southern Nevada Home Builders Association, State of Nevada Entity Technical Alliance, Stormwater Quality Management Committee, UNLV Civil and Environmental Engineering and Construction Department Advisory Board.
7. Solicit and evaluate input from the construction industry and design community, including entity consultants, to address design, construction, and maintenance of flood control projects.
Engineering staff regularly attend progress meetings for all District funded design and construction projects with entity Public Works personnel, design consultant and contractors. District staff have been intimately involved with constructability reviews for projects constructed with the Construction Manager at Risk (CMAR) project delivery method.
8. Review proposed Capital Improvement Program design submittals within 30 days after receipt.
Engineering staff review all Capital Improvement Program (CIP) design submittals to ensure conformance with the "Uniform Regulations for the Control of Drainage" and the "Hydrologic Criteria and Drainage Design Manual". As of December 2016, 28 reviews were performed/completed on 16 projects with an average review time of 20 days duration. In addition to CIP, 5 major maintenance projects, trail projects, or other

projects funded by outside agencies that affect facilities on the master plan have been reviewed within the required review time of 30 working days.

9. Update the District's Ten Year Construction Program by July 1 to integrate the financial and engineering planning processes.

The Ten Year Construction Program (TYCP) and Fiscal Year Project List are required to be updated annually. TYCP resources generally consist of sales tax revenues and debt financing. On June 9, 2016, the Board adopted the Ten Year Construction Program which totaled \$865,436,614.

10. Investigate participation in the Cooperating Technical Partner Program offered by the Federal Emergency Management Agency to determine suitability with District operations.

In 2016, District staff met with FEMA to determine the viability of becoming a Cooperating Technical Partner (CTP). FEMA representatives agreed to investigate possible projects/programs which could be funded by the CTP Program. Discussions are still ongoing.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2016 Strategic Plan

Key Service Areas

1. Master Planning
 2. Capital Improvement Program
 3. Operations and Maintenance
 4. *Floodplain Management*
 5. *Environmental Protection*
-

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Goal #3 Effect regulations, criteria and programs that protect the environment and are sound stormwater management tools. (Hydrologic Criteria and Drainage Design Manual (HCDDM) Regulations, National Pollutant Discharge Elimination System (NPDES), Emergency Action Plans (EAP), National Flood Insurance Program (NFIP), Community Rating System (CRS), Environmental, Wetlands, and Water Quality)

Strategies:

1. Assist customers to increase their understanding of flood control rules, regulations, and the National Flood Insurance Program (NFIP).
2. Ensure compliance with the Uniform Regulations for the Control of Drainage for all projects that have regional significance.
3. Provide a sound basis for the expenditure of private, public, and regional monies.
4. Utilize the best available information in the planning and design of private and public infrastructure.
5. Promote programs that qualify communities to receive credits under the NFIP's Community Rating System (CRS).
6. Cooperate with entities to provide the Federal Emergency Management Agency (FEMA) with information to facilitate publication of accurate flood insurance rate maps.
7. Ensure compliance with the District's Environmental Impact Statement (EIS).

8. Ensure compliance with the Las Vegas Valley National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit issued by the Nevada Department of Environmental Protection.
9. Ensure compliance with the minimum requirements of the District's HCDDM to produce flood resistant land development and effective flood control infrastructure.
10. Participate in multi-agency environmental protection efforts.
11. Collaborate with the entities to develop Emergency Action Plans that provide communities with a safety plan during flood control emergencies.

Objectives:

1. Assist with map revision requests associated with capital improvement projects as necessary. Address flood mapping issues as needed.

District staff reviews impacts to FEMA Special Flood Hazard Areas during the design phase of every project. Letters of Map Change (LOMC) are processed through FEMA as appropriate through design and construction of all capital improvement program projects. In 2016, based on designs of projects in the capital improvement program there were no Conditional Letters of Map Revision (CLOMR) issued.

The following Letters of Map Revision (LOMR) were issued by FEMA in 2016 based on projects built as part of the capital improvement program:

- *Duck Creek – Green Valley Parkway to Mountain Vista; and*
- *Las Vegas Wash – Sloan Channel to Nellis Blvd.*

The following Letters of Map Revision (LOMR) are being prepared or are under review by FEMA based on projects built as part of the capital improvement program:

- *Lone Mountain Road/Rancho Boulevard;*
- *Brooks Street at I-15;*
- *Colton Avenue at I-15;*
- *Duck Creek Wash, Sunset to Sandhill;*
- *Equestrian Detention Basin;*
- *I-15 Corridor – Cactus Avenue to Pebble Road; and*
- *Muddy River – Cooper Avenue Bridge.*

2. Communicate the NFIP rules, regulations and/or changes to established rules and regulations to customers as necessary.
District staff responds to questions and inquiries regarding the National Flood Insurance program (NFIP) rules and regulations as needed.
3. Review regionally significant private and public development proposals to ensure conformance with established rules, regulations, and criteria within 30 working days after receipt.
The District reviewed plans as submitted to ensure conformance with the guidelines established for private development including addendums. As of December 2016, a total of 154 comments/concurrence letters have been completed. On average, staff completed these reviews within 15 working days.
4. Continue to assist entities in complying with environmental regulations.
District staff continues to assist member entities in complying with all environmental regulations.
5. Continue to assist entities prepare Emergency Action Plans for flood control facilities.
District staff continues to assist member entities in developing or updating Emergency Action Plans.
6. Coordinate execution of the illicit discharge detection and elimination program including a component for construction site inspection. Continue implementation of a construction site stormwater education program for Las Vegas Valley jurisdiction inspectors and construction site operators as needed.
The current construction site inspection program continues from previous years with the goal to reduce sediment and construction pollutants entering the storm drain system. In 2016, the District helped prepare updated training materials for local city and county staff to use in the development of construction site inspectors. Training sessions for contractors are held annually for local construction companies to aid in their compliance with the program. The District helped organize and present the sessions. In 2016, two contractor training sessions were held using updated construction site training material. Future training will be scheduled as indicated by inspection results.
7. Comply with state and federal stormwater quality management programs by annually conforming with NPDES permit activities.
In accordance with the Clean Water Act, the Clark County Regional Flood Control District has been operating under a National Pollutant Discharge Elimination System (NPDES) permit with the Las Vegas Valley entities since December 1990. The permit, which has a five-year duration, was most recently renewed in February 2010. It outlines a schedule of monitoring requirements and best management practices designed to protect the quality of surface waters in the Las Vegas Valley. To maintain consistent representation throughout the term, the District negotiated and the Board approved a NPDES consultant contract on June 9, 2016. The

annual permit compliance report was submitted to NDEP in September 2016 and is presently being reviewed by the NDEP.

8. Provide support to the NPDES co-permittees in permit compliance programs.
The NPDES consultant contract advises, supports, and documents permit compliance for all co-permittees of the NPDES permit. In addition, the District currently serves as chair of the Stormwater Quality Management Committee (SQMC) to coordinate storm water program elements and ensure compliance with the permit. The District Public Information staff assists co-permittees with public outreach and works to ensure compliance with the increasing rigor of NPDES and EPA regulations.
9. The current NPDES program was audited by the Nevada Division of Environmental Protection (NDEP) in February 2014. Findings from the audit were received by permittees in August 2015. Provide support and coordination during 2015-16 to co-permittees for potentially enhanced program elements based on comments from NDEP and the Environmental Protection Agency (EPA) as a result of the program audit.
Findings from the February 2014 audit were received from NDEP on August 24, 2015. District coordinated with the permittees and prepared a unified response to NDEP, which was submitted on December 4, 2015. District also coordinated the development of an implementation plan and schedule to be carried out in 2016. The implementation plan consisted of six sets of deliverable documentation packages to NDEP on various audit items. As of December 2016, the six packages have been sent to NDEP per the agreed schedule. NDEP is reviewing the final documents. The audit is expected to be favorably closed in early 2017.
10. The current NPDES MS4 permit expired in February 2015. Provide support during 2015-16 on discussions/negotiations relative to permit renewal.
The current permit has been administratively extended by NDEP until a new permit can be written and negotiated. Once the 2014 audit is closed, NDEP plans to begin writing and negotiating a new MS4 permit. This process is expected to begin in early 2017 and will likely take several months to complete.
11. Provide funding for outreach, research, study, design and/or construction to protect and/or enhance the stormwater environment and support common elements of the Las Vegas Valley NPDES stormwater permit compliance programs.
The District continues to develop public service announcements (PSA) that focus on the importance of not polluting our desert environment. These commercials point out behaviors residents can change to help protect Lake Mead, our drinking water source. Commercials are placed as paid advertising in the spring and fall with four major television networks to reinforce the importance of not dumping trash, reporting clogged storm drains, fertilizing properly, disposing of pet waste and using commercial car washes. In 2016, the District spent \$25,000 in both spring and fall stormwater advertising. The Nevada Division of Environmental Protection is

providing a matching grant for this endeavor. District staff is also available to give presentations to groups interested in environmental topics associated with flood control.

The District's Be Lake Friendly campaign, launched in 2015, was honored in 2016 by winning two Telly Awards. Additionally, the campaign has the full support of the co-permittees. Co-permittees helped establish the website content in a new outreach and education campaign. This campaign is aimed at creating a Be Lake Friendly environment and features desert animals in their homes.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2016 Strategic Plan

Key Service Areas

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 5. *Environmental Protection*
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Goal #4 Enhance public awareness of flood safety and other District programs.
(Public Information, Information Technology, Flood Threat Recognition System (FTRS), and Website/Internet)

Strategies:

1. Educate the public about the dangers of flash flooding; flood insurance, and the importance of protecting the environment.
2. Enhance the Flood Threat Recognition System (FTRS).
3. Provide printed and electronic information that is graphically appealing and easily understood.
4. Enhance the District's Website (www.regionalflood.org).
5. Communicate with the public about all key District service areas across traditional and digital methods.

Objectives:

1. Produce the Annual Report by October 2016.
The Board adopted the FY 2015-16 Annual Report on November 10, 2016.

2. Ensure funds provided for public information services are utilized in the most cost effective manner. Produce Public Service Announcements (PSAs), brochures, social media and other media methods to inform the public about flood safety, flood insurance and stormwater quality.
The District places safety PSA's as commercial time with the major network stations. In 2016, the District spent \$264,000 placing commercials in both English and Spanish starting in mid-June and continuing through mid-September of the summer flash flood season. An additional \$25,000 was spent on Stormwater PSA's in May and November 2016.
3. Educate the public about flood safety through an annual Flood Safety Advertising Campaign.
District staff monitors funds used for the Flood Safety Advertising Campaign for compliance and cost effective use of District funding. On February 11, 2016, the District Board approved a professional services contract for the 2016 Flood Safety Advertising Campaign. As of December 2016, \$915,000 has been spent, meeting budget requirements. It is anticipated in February 2017, a new professional services contract will be approved for the 2017 campaign.
4. Produce *The Flood Channel* television program that focuses on flood safety, flood insurance, and protecting the environment by educating the community about District programs.
On June 9, 2016, the District Board approved an annual agreement with the City of Las Vegas, KCLV-TV2 for videotaping and editing of up to six (6) flood channel television shows for a total contract cost of \$89,900. From July to December, the District produced two (2) programs and a third was being finalized by KCLV for air.
5. Continue the public information program in schools for first through fifth grades and conduct science-based outreach opportunities for older students.
 - Provide the Desert Floods school video in either English or Spanish.
During calendar year 2016, 9,800 students received curriculum materials and teachers were provided with the Desert Floods school video in either English or Spanish. The District also updated printed student materials prior to the start of the 2016-17 school year.
 - Solicit and conduct school presentations upon teachers' request.
The District made students aware of the dangers of playing in floodwater and drainage facilities. During calendar year 2016, District staff made 568 classroom presentations at 115 elementary schools speaking to approximately 9,800 students.
 - Monitor the effectiveness of the expanded program by surveying participating teachers.
100% of teachers who returned surveys about the schools outreach program stated they believe their students were deterred from playing in flood waters.

6. Plan and execute a media event to heighten media coverage and public awareness of flash flood season no later than July 2016.
The Board of Directors designated July as "Flash Flood Awareness Month" and held a news conference on June 29 at the National Weather Service. The event was attended by all local mainstream and Spanish television stations and resulted in more than 36 hours of news coverage. Additionally, the District saw unprecedented growth of downloads of the FloodSpot app as a result of news coverage and staff social media work.
7. Communicate NFIP Insurance availability to residents as necessary prior to May of each year.
Disseminating information about flood insurance continues to be a priority. Commercial placement of the flood insurance spots continued through the year. District staff continues to respond to questions and inquiries regarding National Flood Insurance Program rules and regulations. Additionally, important information about flood insurance has been featured on The Flood Channel Show several times over the past year and flood insurance information is featured on the FloodSpot app.
8. Continue to evaluate and update the District's Information Technology.
 - Routinely update the District's Website.
Updates are routinely implemented on the District's website. New features such as weather radar and enhanced search tools were added to the Floodview Advanced web application. As of December 2016, there were 2,066,212 unique visitors to the website.
 - Routinely update Desktop, Web and mobile applications.
The Information Technology (IT) staff continued to enhance and maintain the decision-support tools available in the desktop application Regional Flood Management System (RFMS). Included in the improvements were additional financial reports and refinements to the display functions of both the Floodview application and other RFMS applications. A mobile application was created for the District's FTRS system in both Android and iOS mobile phones.
 - Routinely monitor changes to the Enterprise Resource Planning System, and integrate the Regional Flood Management System (RFMS) accordingly.
Continuing maintenance on the process of downloading data from the County resulted in increased integration between the Enterprise Resource Planning System (ERP) and the RFMS reporting system. Additional reports were created from the enhancement.

9. Monitor and evaluate the effectiveness of the Public Information Program through consistent tracking of media hits, social media metrics and other evaluation methods.
The District has been surveying residents since 1999. The results of the 2015 survey were presented to the Citizens Advisory Committee at their February 1, 2016 meeting and to the District Board at their February 11, 2016. Another survey is planned for 2017.
10. Continue, and potentially expand public information efforts for the Spanish speaking community.
District staff now conduct all Spanish outreach activities, including expanded efforts to reach Spanish media. Hispanic media was present at the 2016 Flood Safety News Conference and the District responded to several interviews initiated by Spanish media stations before and during storms throughout 2016.
11. Attend and support community outreach events and other activities that promote protecting the environment and flash flood awareness.
During calendar year 2016, the District participated in 18 community events providing information about flash flood safety and stormwater quality.
12. Ensure that FTRS field stations are operational at least 96 percent of the time and install new FTRS field stations as necessary.
Based on monthly rainfall summary reports (between March and October 2016), the FTRS field stations were operational 98.1% of the time. The District assumed responsibility for two (2) rain gauges previously operated by Clark County Public Works (CCPW). The District assisted CCPW in upgrading the water level gauge at Winnick Avenue and it no longer needs to be manually reset weekly. There are currently two hundred four (204) total field stations, of which District staff operates and maintains one hundred ninety-six (196).
13. Review and update the District's Flood Response Plan by June 2016.
The Flood Response Plan was revised and updated in June 2016.
14. Continue to provide training to entities and staff on the use of FTRS software as required.
District staff designed, developed and implemented a new web-based application to allow emergency responders and the public to easily and reliably access FTRS data; additional functionality and utility were added during the past year. Training on the use of FTRS software for entities and staff is an ongoing process.
15. Assist District staff with communications needs regarding all District programs and provide training as needed.
District Public Information staff met with other District staff as needed throughout 2016 to facilitate communication needs. This included preparation for interviews, assistance with presentations, legislative briefings throughout early 2016 and a training on crisis communications in June prior to Flash Flood Season.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2016 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. *Capital Improvement Program*
 3. *Operations and Maintenance*
 4. *Floodplain Management*
 5. *Environmental Protection*
-

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.

Goal #5 Seek opportunities to maximize the efficiency and effectiveness of District services.
(Multi-use Facilities, Developer Participation, Entity Advance Funding, Joint Funding, Bonding, and Over sizing)

Strategies:

1. Enhance the level of service provided to the District's internal and external customers.
2. Expedite the construction of flood control facilities.
3. Ensure the financial integrity and stability of the District.
4. Maintain open communications with the Board of Directors, advisory committees, local governments and agencies, and the public.
5. Enhance the District's Document and Management System (DDMS).
6. Allow for the development of multiple uses (e.g. recreational, wetlands) for flood control facilities with local entities.
7. Work with community partners to maximize the use of District resources.

Objectives:

1. Closely monitor the economic conditions in Southern Nevada.
 - Maintain operational expenses at 10 percent or less of sales tax revenues.
 - Evaluate financial impacts to the Capital Improvement Program.
 - Evaluate financial impacts to the Maintenance Work Program.
 - Evaluate financial impacts to the Local Drainage Program.

Operational expenditures were 6.3 percent of the sales tax revenues of \$94.5 million in FY 2015-16. Additionally, operating expenses are budgeted at 9.1 percent of estimated sales tax revenues of \$97.1 million in FY 2016-17. The District is able to meet its financial commitments, due to solid fiscal policies that have been in place for many years. Fiscal policies have set the framework that allows the District to operate smoothly.

In the District's FY 2016-17 Ten Year Construction Program (TYCP), \$200 million and \$175 million in General Obligation bonds have been programmed in fiscal year 2019-20 and fiscal year 2024-25, respectively. Bonding is one of the methods the District uses to continue expediting funding to flood control infrastructure projects to protect life and property. No new bonds were issued in calendar year 2016. The debt service remains level at about \$40 million for future years. Bonding is one of the methods the District uses to continue expediting funding to flood control infrastructure project to protect life and property.

The FY 2016-17 budget amount for the Maintenance Work Program is \$12.0 million. The budget amount for maintenance was developed and evaluated with input from each of the entities to ensure that adequate funds are available for maintenance needs as well as unexpected repairs and clean up after storm events during the fiscal year.

Included in the budget for FY 2016-17 is \$1.0 million for the Local Drainage Program. This amount was evaluated to determine a budget that is reasonable based on economic conditions, estimates of revenue and anticipated funding needs of upcoming capital improvement projects.

Revenue trends will continue to be evaluated to maximize funding for projects.

2. Continue to explore and implement alternatives to expedite construction of flood control infrastructure integrating financial and engineering management.
Quarterly Project Status Reports and Monthly Financial Reports are included in the Board agenda. Additionally, through integration of financial and engineering resources, staff produces monthly management reports which assist in financial management and planning in expediting flood control infrastructure.
3. Expedite construction of flood control facilities by seeking other funding opportunities which may include cost sharing.
District staff coordinates infrastructure construction with governmental entities like the Regional Transportation Commission of Southern Nevada (RTC SNV), Nevada Department of Transportation (NDOT), Southern Nevada Water Authority (SNWA), Southern Nevada Public Management Land Act (SNPMLA), Clark County Water Reclamation District (CCWRD), University of Nevada, Las Vegas (UNLV), and member entities to ensure that construction of 100-year flood level protection is a coordinated and cost effective process. Additionally, some entities have chosen to go with the Construction Manager at Risk method (CMAR) for delivery of construction projects.

During Calendar Year 2016 construction began on the following projects using cost sharing efforts:

- *Pittman North Detention Basin and Outfall, Phase I (RFCD, RTC, City of Henderson);*
 - *Racetrack Channel, Drake to Burkholder (RFCD, RTC, City of Henderson);*
 - *Pittman North Detention Basin & Outfall, Phase II – Starr Avenue (RFCD, RTC);*
 - *Ann Road Channel East, ULVW to Fifth Street (RFCD, RTC, Developer Participation); and*
 - *Local Drainage Improvements for Lexington Street Storm Drain (RFCD, City of Las Vegas).*
4. Continue to evaluate and update the District's Document and Management System (DDMS).
As of December 2016, all of historical District documents have been scanned and electronically catalogued. Scanning of District documents is an ongoing process. Enhancements of the DDMS and refinements of document retrieval techniques continue to be made. The DDMS has been very successful through database maintenance, providing new document retrieval techniques, and elimination of storage through digital conversion.

REGIONAL FLOOD CONTROL DISTRICT



2017 STRATEGIC PLAN

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.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT
2017 Strategic Plan Summary

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.

KEY SERVICE AREAS

Master Planning
Capital Improvement Program
Operations and Maintenance
Floodplain Management
Environmental Protection

GOALS

Provide updated Master Plans for the control of flooding.
Implement projects that provide the community with flood protection.
Effect regulations, criteria and programs that protect the environment and are sound storm water management tools.
Enhance public awareness of flood safety and other District programs.
Seek opportunities to maximize the efficiency and effectiveness of District services.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

2017 Strategic Plan

Key Service Areas

1. *Master Planning*
 2. Capital Improvement Program
 3. Operations and Maintenance
 4. Floodplain Management
 5. Environmental Protection
-

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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.

Goal #1 Provide updated Master Plans for the control of flooding.
(Master Planning and Environmental)

Strategies:

1. Identify sustainable solutions to mitigate flooding problems that are efficient, cost effective, and can be implemented.
2. Account for the need to manage the flood risk for both existing and future development.
3. Respond to opportunities that enhance the usefulness of the Master Plans.
4. Update the Master Plan by utilizing the best resources and information available.
5. Comply with the requirements of the Nevada Revised Statutes.
6. Present Master Plan updates, changes, and amendments to governmental bodies for consideration and adoption.
7. Coordinate the Master Plans with regional planners to allow opportunities for recreational, transportation, and environmental enhancements.

Objectives:

1. Manage the Master Plan Update for Bunkerville and Mesquite for adoption by November 2017.
2. Manage the Master Plan Update for the Las Vegas Valley for adoption by September 2018.
3. Initiate the Master Plan Update for Boulder City for adoption by November 2018.
4. Ensure all Master Plan Changes and Amendments receive Southern Nevada Regional Planning Coalition (SNRPC) and Southern Nevada Strong approval. Review Nevada Revised Statute requirements for Master Plan Changes and Amendments and propose changes as necessary.
5. Submit for approval all Master Plan Updates to SNRPC and Southern Nevada Strong.
6. Continue to participate in forums on the water cycle and assess the effect on future Master Plans.
7. Review future Bureau of Land Management (BLM) and Cooperative Management Area (CMA) land sales to determine impacts on the Master Plans and identify real estate to be reserved for future flood control infrastructure.
8. Continue routine maintenance of the District's Geographic Information System (GIS) with engineering and cost data for the Capital Improvement Program.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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1. Master Planning
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Goal #2 Implement projects that provide the community with flood protection.

(Capital Improvement Program, Operations and Maintenance, Environmental, and Local Drainage)

Strategies:

1. Improve regional coordination of flood control activities.
2. Expeditiously implement Master Plan facilities in a logical order.
3. Acquire, design, construct, and maintain facilities utilizing the best available information.
4. Improve partnerships with stakeholders.
5. Ensure the effective use of funds for implementation and maintenance of flood control facilities.
6. Ensure compliance with local, state, and federal programs and/or regulations.
7. Keep abreast of new rules, regulations, and technologies that impact the continued implementation of the District's Master Plan.
8. Maximize the benefits of the regional system through a local drainage program for entities to implement local drainage projects.
9. Provide quality assurance, quality control, and value engineering on projects.
10. Explore all opportunities to discharge the Master Plan in a timely manner.

Objectives:

1. Oversee the construction of flood control facilities identified in the Regional Flood Control District Master Plan(s).
2. Ensure effective and efficient maintenance of flood control facilities.
3. Manage the Local Drainage Program to aid the community.
4. Monitor and respond to state/federal legislation that may impact the discharge of the Master Plans.
5. Evaluate multi-use proposals for projects.
6. Participate in engineering associations.
7. Solicit and evaluate input from the construction industry and design community, including entity consultants, to address design, construction, and maintenance of flood control projects.
8. Review proposed Capital Improvement Program design submittals within 30 days after receipt.
9. Update the District's Ten Year Construction Program by July 1 to integrate the financial and engineering planning processes.
10. Investigate participation in the Cooperating Technical Partner Program offered by the Federal Emergency Management Agency to determine suitability with District operations.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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Goal #3 Effect regulations, criteria and programs that protect the environment and are sound stormwater management tools. (Hydrologic Criteria and Drainage Design Manual (HCDDM) Regulations, National Pollutant Discharge Elimination System (NPDES), Emergency Action Plans (EAP), National Flood Insurance Program (NFIP), Community Rating System (CRS), Environmental, Wetlands, and Water Quality)

Strategies:

1. Assist customers to increase their understanding of flood control rules, regulations, and the National Flood Insurance Program (NFIP).
2. Ensure compliance with the Uniform Regulations for the Control of Drainage for all projects that have regional significance.
3. Provide a sound basis for the expenditure of private, public, and regional monies.
4. Utilize the best available information in the planning and design of private and public infrastructure.
5. Promote programs that qualify communities to receive credits under the NFIP's Community Rating System (CRS).
6. Cooperate with entities to provide the Federal Emergency Management Agency (FEMA) with information to facilitate publication of accurate flood insurance rate maps.
7. Ensure compliance with the District's Environmental Impact Statement (EIS).

8. Ensure compliance with the Las Vegas Valley National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit issued by the Nevada Department of Environmental Protection.
9. Ensure compliance with the minimum requirements of the District's HCDDM to produce flood resistant land development and effective flood control infrastructure.
10. Participate in multi-agency environmental protection efforts.
11. Collaborate with the entities to develop Emergency Action Plans that provide communities with a safety plan during flood control emergencies.

Objectives:

1. Assist with map revision requests associated with capital improvement projects as necessary. Address flood mapping issues as needed.
2. Communicate the NFIP rules, regulations and/or changes to established rules and regulations to customers as necessary.
3. Review regionally significant private and public development proposals to ensure conformance with established rules, regulations, and criteria within 30 working days after receipt.
4. Continue to assist entities in complying with environmental regulations.
5. Continue to assist entities prepare Emergency Action Plans for flood control facilities.
6. Coordinate execution of the illicit discharge detection and elimination program including a component for construction site inspection. Continue implementation of a construction site stormwater education program for Las Vegas Valley jurisdiction inspectors and construction site operators as needed.
7. Comply with state and federal stormwater quality management programs by annually conforming with NPDES permit activities.
8. Provide support to the NPDES co-permittees in permit compliance programs.
9. The current NPDES program was audited by the Nevada Division of Environmental Protection (NDEP) in February 2014. Findings from the audit were received by permittees in August 2015. Provide support and coordination during 2016-17 to co-permittees for potentially enhanced program elements based on comments from NDEP and the Environmental Protection Agency (EPA) as a result of the program audit.
10. The current NPDES MS4 permit expired in February 2015. Provide support during 2016-17 on discussions/negotiations relative to permit renewal.

11. Provide funding for outreach, research, study, design and/or construction to protect and/or enhance the stormwater environment and support common elements of the Las Vegas Valley NPDES stormwater permit compliance programs.

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Goal #4 Enhance public awareness of flood safety and other District programs.
(Public Information, Information Technology, Flood Threat Recognition System (FTRS), and Website/Internet)

Strategies:

1. Educate the public about the dangers of flash flooding; flood insurance, and the importance of protecting the environment.
2. Enhance the Flood Threat Recognition System (FTRS).
3. Provide printed and electronic information that is graphically appealing and easily understood.
4. Enhance the District's Website (www.regionalflood.org).
5. Communicate with the public about all key District service areas across traditional and digital methods.

Objectives:

1. Produce the Annual Report by October 2017.
2. Ensure funds provided for public information services are utilized in the most cost effective manner. Produce Public Service Announcements (PSAs), brochures, social media and other media methods to inform the public about flood safety, flood insurance and stormwater quality.
3. Educate the public about flood safety through an annual Flood Safety Advertising Campaign.

4. Produce *The Flood Channel* television program that focuses on flood safety, flood insurance, and protecting the environment by educating the community about District programs.
5. Continue the public information program in schools for first through fifth grades and conduct science-based outreach opportunities for older students.
 - Provide the Desert Floods school video in either English or Spanish.
 - Solicit and conduct school presentations upon teachers' request.
 - Monitor the effectiveness of the expanded program by surveying participating teachers.
6. Plan and execute a media event to heighten media coverage and public awareness of flash flood season no later than July 2017.
7. Communicate NFIP Insurance availability to residents as necessary prior to May of each year.
8. Continue to evaluate and update the District's Information Technology.
 - Routinely update the District's Website.
 - Routinely update Desktop, Web and mobile applications.
 - Routinely monitor changes to the Enterprise Resource Planning System, and update the Regional Flood Management System (RFMS) accordingly.
9. Monitor and evaluate the effectiveness of the Public Information Program through consistent tracking of media hits, social media metrics and other evaluation method.
10. Continue, and potentially expand public information efforts for the Spanish speaking community.
11. Attend and support community outreach events and other activities that promote protecting the environment and flash flood awareness.
12. Ensure that FTRS field stations are operational at least 96 percent of the time and install new FTRS field stations as necessary.
13. Review and update the District's Flood Response Plan by June 2017.
14. Continue to provide training to entities and staff on the use of FTRS software as required.
15. Assist District staff with communications needs regarding all District programs and provide training as needed.
16. Conduct a Survey of Residents by December 2017 to ensure District public communications are being received by target audiences.

CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT

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Strategies:

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2. Continue to explore and implement alternatives to expedite construction of flood control infrastructure integrating financial and engineering management.
3. Expedite construction of flood control facilities by seeking other funding opportunities which may include cost sharing.
4. Continue to evaluate and update the District's Document and Management System (DDMS).