

LAS VEGAS VALLEY WATERSHED ADVISORY COMMITTEE

Southern Nevada Water Authority
100 City Parkway
Las Vegas, NV
April 10, 2018
2:00 p.m.

Members Present: Mark Dunbar, *City of Las Vegas (CLV)*
Priscilla Howell, *City of Henderson (COH)*
Dave Johnson, *Las Vegas Valley Water District (LVVWD)*
Zane Marshall, *Southern Nevada Water Authority (SNWA)*
Mindy Meyers, *Clark County (alt. CC)*
Tom Minwegen, *Clark County Water Reclamation District (CCWRD)*
Steve Parrish, *Clark County Regional Flood Control District (CCRFCD)*

Also Present: Keiba Crear Ebrahim Juma
Elizabeth Bickmore Carlton Parker
James Dotchi Ryan Pearson
Adrian Edwards Peggy Roefer
Dan Fischer David Stoft
Kevin Fisher John Tennert
John Hiatt Todd Tietjen
Zach Hills Andrew Trelease

1. Welcome/Call to Order

Zane Marshall called the meeting to order at 2:04 p.m.

2. Public Comment

Seeing no request for public comment, Zane moved forward with the meeting.

3. Introductions

Participants introduced themselves.

4. Approve February 13, 2018 Meeting Minutes

Motion to approve the meeting summary with a correction was passed. The correction was to replace Randy DeVaul's name with Steve Parrish's name on item # 10 (second paragraph).

5. Receive an Informational Update on Items Related to the Las Vegas Valley Watershed Advisory Committee (LVVWAC) that may appear on Future Regular Board Meetings of LVVWAC Members' Appointing Agencies

Tom asked if there was a follow-up document to the Las Vegas Wash (Wash) operating budget that was approved at the February LVVWAC meeting. Keiba noted that each LVVWAC member agency would receive an individual copy of the budget for their reference.

Zane noted that SNWA is set to hold their budget workshop in April. In May, the board of directors will consider the interlocal agreement and approval of the 2018 Las Vegas Wash Capital Improvements Plan (CIP) pending approval from today's meeting.

6. Receive a Presentation on the Nevada Environmental Response Trust (NERT)

Carlton Parker, Nevada Division of Environmental (NDEP), presented. Carlton noted that surface water sampling was conducted at the Wash last spring. NERT began noticing high perchlorate concentrations in the north and south banks of the Wash. To obtain more detailed information, staff used phantom drones with FLIR thermal camera to fly the Wash from bank to bank from Duck Creek Confluence Weir to Fire Station Weir. Staff gathered a total of 15,000 photographs and stitched them together into an image that showed 163 thermal anomalies. Being able to see these anomalies allows NERT to detect areas where additional sampling is needed.

Carlton reported that NERT is currently using several technologies to test and treat perchlorate concentrations including the Wash bioremediation pilot study, the Galleria Road ZVI and bioremediation treatability studies and the SNWA weir dewatering treatment. All these technologies have been demonstrated to work very well.

7. Review and Approve the 2018 Las Vegas Wash Capital Improvements Plan

Ryan Pearson, SNWA, presented. The 2018 CIP includes the estimated design and construction schedule, total cost, cash flow forecasts, priority based on scoring system, and the two-year work plan. Ryan also displayed the ranking criteria and channel bed stabilization priorities.

The 2018 CIP includes the Tropicana Weir (under construction since November 2016) and the Historic Lateral and Sunrise Mountain weirs (under construction since October 2017), for a projected cost of \$6,300,000; revegetation ongoing at Three Kids, Silver Bowl, Archery weirs and new efforts at Tropicana Weir, for a cost of \$1,421,000; comprehensive programs at \$300,000; and interest expenses at \$1,141,000, for a total cost of \$9,162,000. There is a projected shortfall of approximately \$71,000.

Tom Minwegen asked if it had been verified that the weirs were behaving the way that was intended and if it was fair to say that there will always be some type of revegetation work needed to maintain the weir structures.

Dave Johnson replied that staff intends to have the Louis Berger analysis completed, which will help determine what weir maintenance will look like going forward. Dave added that the engineering evaluation being developed will provide guidance on long-term plans for weir structures. Once the evaluation report is complete, staff will have discussions with the LVVWAC to address future weir maintenance.

This item was approved by LVVWAC.

8. Receive an Update on the Stormwater Quality Management Committee

John Tennert, CCRFCD, presented. The Stormwater Quality Program is in charge of addressing non-point source pollution in the Las Vegas Valley. NDEP conducted its 5-year audit of the program in spring 2014. NDEP delivered the final audit report to the permittees in August 2015

and the permittees sent an initial response to the audit in December 2015. Permittees met with NDEP to address audit findings and completed six submittals over the course of 18 months.

John stated that program improvements include: amendment of the interlocal agreement defining the Stormwater Quality Management Committee (SQMC), reconstitution of the SQMC to be staffed by management-level representatives from each of the permittees, implementation of more frequent reporting, and updated training, program documents and standard operating procedures.

The SQMC is currently waiting for NDEP to finalize the permit with the Nevada Department of Transportation (NDOT) and was provided a draft of their permit as a preview of what to expect, but there are substantial differences between Las Vegas Valley activities and NDOT activities.

John reported that issues related to the upcoming permit include: implications of the 2016 remand rule, overlapping responsibilities and jurisdictions, potential overemphasis on minor infractions, and monitoring requirements.

9. Receive an Update on the Wastewater Dischargers

Adrian Edwards, COH, provided the update. The COH has the capacity to treat 40 million gallons per day (MGD) between two treatment plants. In 2017, 8.8 billion gallons of water were treated. There are 94 miles of reclaimed pipes and the treatment facility delivered 2.8 billion gallons of water in 2017. Currently, there are 14 lift stations.

The COH's reclaimed water system is comprised of 8 reservoirs, 4 pump stations, 94 miles of pipe and 12 customers, which are mostly golf courses and Palm Mortuary. The COH's collection system consists of 966 miles of sanitary sewers, 14 sanitary sewer stations and more than 22,000 sanitary sewer manholes. COH plans to spend approximately \$280 million over the next 10 years in replacement, rehabilitation and improvement projects.

Mark Dunbar, CLV, provided the update. The City of Las Vegas Water Pollution Control Facility (WPCF) has the capacity to treat 43 MGD and in 2017, 52 million gallons of reuse were diverted to three golf courses. The WPCF also has a \$24 million, 3 mega-watt solar project.

The CLV's collection system is comprised of 1,798 miles of pipeline and more than 42,000 manholes. CLV plans to spend approximately \$205 million over the next five years on their collection system and treatment improvements.

The CLV recently completed a renewable energy study. As a result of the study, staff will use biogas onsite with natural gas to flex fuel engines. The biogas will be fully cleaned and injected into a Southwest Gas pipeline. Lastly, the biogas will be compressed and staff will look at options for selling it as vehicle fuel.

Dan Fischer, CCWRD, provided the update. Dan indicated that 100% of water at publicly owned treatment works is reclaimed both through indirect reuse and direct non-potable reuse. In 2017, CCWRD directly reused 15 MGD (10%) and indirectly reused 165 MGD (90%).

CCWRD's collection system is comprised of 2,190 miles of sanitary sewers, 45,000 manholes, 23 lift stations and 60 private sewer systems.

CCWRD plans to spend approximately \$509 million over the next five years in treatment upgrades, rehabilitation and other capital projects.

10. Receive an Update from Members and Staff Regarding Water Resources, Stormwater, Wastewater, and Water Quality, Including but Not Limited to Regulations, Permitting and Status of the Lower Las Vegas Wash

Todd Tietjen reported that there was a hit last week for a very low level of algae toxins at Lake Mead. Todd added that currently there are two real-time water quality instruments at the lake and staff plans to add three more instruments by the end of the month.

Dan Fischer invited the LVVWAC and members of the public to attend the Water Reuse Nevada quarterly meeting scheduled for April 11, 2018.

11. Set Next Meeting Date and Propose Items for the Next Meeting's Agenda

The next meeting is scheduled for July 10, 2018. The July meeting is typically cancelled but will be kept on the calendar for the time being. Staff will coordinate the agenda.

12. Public Comment

There were no comments. Meeting adjourned.