

**SOUTHERN NEVADA WATER AUTHORITY
BOARD OF DIRECTORS
REGULAR MEETING
MARCH 21, 2019
MINUTES**

CALL TO ORDER 9:00 a.m., Board Chambers, Southern Nevada Water Authority,
100 City Parkway, Seventh Floor, Las Vegas, Nevada

BOARD MEMBERS PRESENT Marilyn Kirkpatrick, Chair
Scott Black
Jim Gibson
Justin Jones
Peggy Leavitt
John Marz

BOARD MEMBERS ABSENT Bob Coffin, Vice Chair

STAFF PRESENT John Entsminger, Julie Wilcox, Dave Johnson, Greg Walch, Kevin Bethel,
Colby Pellegrino

OTHERS PRESENT

Unless otherwise indicated, all members present voted in the affirmative.

COMMENTS BY THE GENERAL PUBLIC

For complete comments, audio is available online at snwa.com

There were no speakers.

ITEM NO.

1. ***For Possible Action:*** Approve agenda with the inclusion of tabled and/or reconsidered items, emergency items and/or deletion of items, and approve the minutes from the regular meeting of January 17, 2019.

FINAL ACTION: Director Gibson made a motion to approve the agenda for this meeting and to approve the minutes from the regular meeting of January 17, 2019. The motion was approved.

CONSENT AGENDA

2. ***For Possible Action:*** Approve an interlocal agreement between the Colorado River Joint Powers Authority and the Authority to support funding for the development of a Colorado River traveling exhibition and to authorize the General Manager to enter into funding agreements in substantially similar form.
3. ***For Possible Action:*** Approve two resolutions authorizing the submission of two grant proposals to the Bureau of Reclamation's WaterSMART: Water and Energy Efficiency Grant Program, requesting \$300,000 and \$1,500,000, respectively; if either proposal is accepted, the Authority's matching contribution would be \$3,000,000 or \$25,000,000, respectively.
4. ***For Possible Action:*** Authorize an increase in expenditures for the Annual Requirements Contract for Liquid Chlorine awarded to DX Ventures, L.P., dba DX Systems Company, L.P., from an annual amount not to exceed \$595,130, with an increase not to exceed 5 percent per renewal term, to an annual amount not to exceed \$645,680, with an increase not to exceed 5 percent per renewal term.

FINAL ACTION: Director Gibson made a motion to approve staff's recommendations. The motion was approved.

BUSINESS AGENDA

5. ***For Possible Action:*** Receive a presentation from staff on the status of Low Lake Level Pumping Station construction activities near Lake Mead.

Dave Johnson, Deputy General Manager – Engineering and Operations, gave a status update. A copy of his presentation is attached to these minutes.

NO ACTION REQUIRED

6. ***For Possible Action:*** Approve and authorize the General Manager to sign a second amended and restated purchase agreement between Indar Consortium and the Authority for the supply of two additional submersible high-lift pumps and motors for the Lake Mead Intake No. 3 Low Lake Level Pumping Station for an increased amount of \$6,023,536.

Director Gibson asked where the pumps were produced. John Entsminger, General Manager, said that the pumps were built in northern Spain. When the Authority issued a worldwide request for proposals to supply the pumps needed for this project, the Authority only received three responses from manufacturers, which were located in Spain, Germany and Japan.

FINAL ACTION: Director Black made a motion to approve staff's recommendation. The motion was approved.

7. ***For Possible Action:*** Approve and authorize the General Manager to sign an agreement between the City and County of Denver, acting through its Board of Water Commissioners, and the Authority to accept funds for climate and hydrology projects in the Colorado River Basin for an amount not to exceed \$250,000.

Colby Pellegrino, Director of Water Resources, spoke concerning items 7 and 8. She said that about two years ago, staff identified that some of the best climate change research was not being incorporated into water agency operational toolkits. To address this need, a symposium made up of premiere climate scientists, hydrology researchers and modelers. The outcome of the symposium has been an increase in collaboration between the research community and water organizations to improve modeling projections. Five projects have been selected for near-term implementation as the most fruitful for improving forecasting in the Colorado River Basin.

FINAL ACTION: Director Jones made a motion to approve staff's recommendation. The motion was approved.

8. ***For Possible Action:*** Approve and authorize the General Manager to sign, in substantially the same form as attached hereto, an agreement between the University Corporation for Atmospheric Research and the Authority for a climate downscaling project in the Colorado River Basin for an amount not to exceed \$150,000.

FINAL ACTION: Director Jones made a motion to approve staff's recommendation. The motion was approved.

9. ***For Possible Action:*** Approve a one-time increase in an amount not to exceed \$750,000 for the remainder of FY 18/19 between R&R Partners, Inc. and the Authority to enhance and increase integrated marketing, communications and public outreach services for the Authority's water efficiency public education campaign and comprehensive water conservation initiatives.

Mr. Entsminger said that the proposed on-time increase was in line with the Board's direction last November to significantly increase focus on conservation programs. Therefore, staff was preparing to roll out new major water conservation ad campaigns. The ads would be featured on television, radio and online.

FINAL ACTION: Director Gibson made a motion to approve staff's recommendation. The motion was approved.

10. ***For Possible Action:*** Authorize an award of bid for the Supply Contract for Raw Water Treatment Chemicals for an amount not to exceed \$3,469,189 for an initial 14-month period, which includes a 15 percent contingency, authorize the General Manager or his designee to select the best bid received based on each bid package, execute multiple supply contracts, and renew each supply contract for up to five additional one-year periods, with an increase not to exceed 30 percent per year.

FINAL ACTION: Director Gibson made a motion to approve staff's recommendation. The motion was approved.

11. ***For Possible Action:*** Receive an update from staff on water resources including, but not limited to, drought conditions in the Colorado River Basin, conservation programs and activities, activities on the Colorado River, and water resource acquisition and development.

Mr. Entsminger said that on March 19, 2019, the seven Colorado River Basin States transmitted a final version of the Drought Contingency Plans (DCP) that the Board had approved last November to Congress and the U.S. Secretary of the Interior. There was a broad coalition of various interests dedicated to moving the process forward, including major environmental organizations, Native American tribal groups, and agricultural interests.

Ms. Pellegrino gave a presentation on water resources and drought conditions in the Colorado River Basin. She also gave a conservation programs presentation. Copies of her presentations are attached to these minutes.

Director Jones asked if there was an opportunity for the State of California to step in to mediate any negative actions by the Imperial Irrigation District (IID) to disrupt the DCP approval process. Mr. Entsminger said that the State of California had approved DCP and that since IID was a political subdivision of California there was opportunity for the California Legislature to get involved if it chose to do so.

Director Gibson asked how much of California's Colorado River apportionment was used by IID. Mr. Entsminger said that IID used about 3 million acre-feet of the state's 4.4 million acre-foot apportionment. IID uses more water from the Colorado River than the states of Nevada, New Mexico and Wyoming combined.

Chair Kirkpatrick asked about homeowners associations and properties wanting to participate in turf conversions, but are precluded by local development codes. Mr. Entsminger said that staff was coordinating with a group from all of the local jurisdictions to examine county and municipal code, as well as developer agreements, to make those codes and agreements more water conservation-friendly.

Director Jones thanked Ms. Pellegrino for the presentations and encouraged the Board to work with staff to identify water saving opportunities in their jurisdictions.

NO ACTION REQUIRED

Public Comment

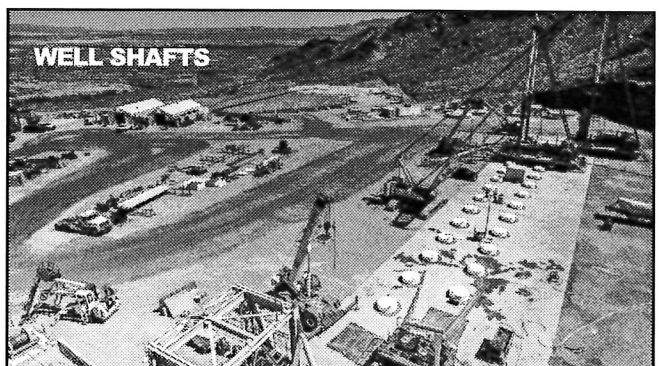
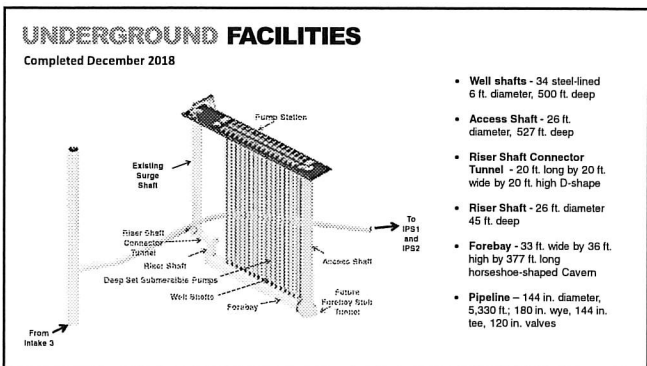
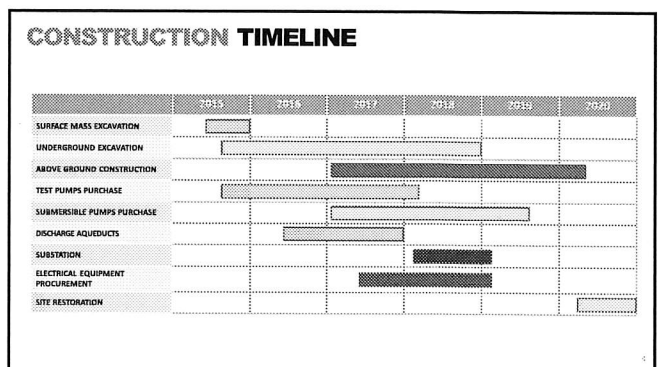
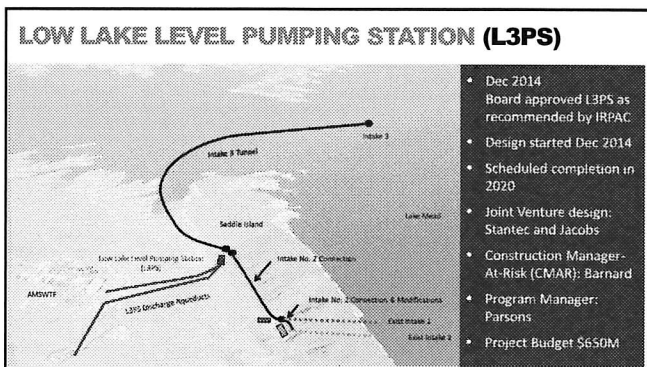
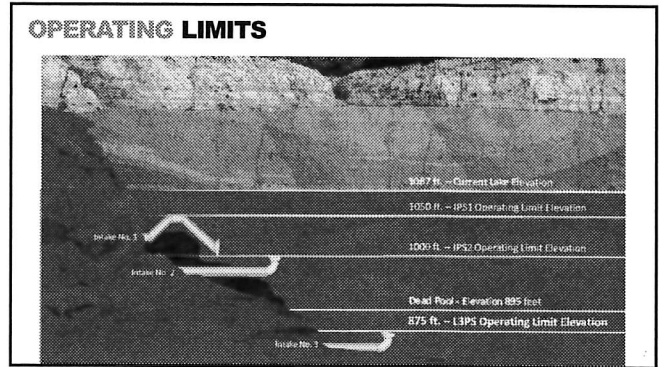
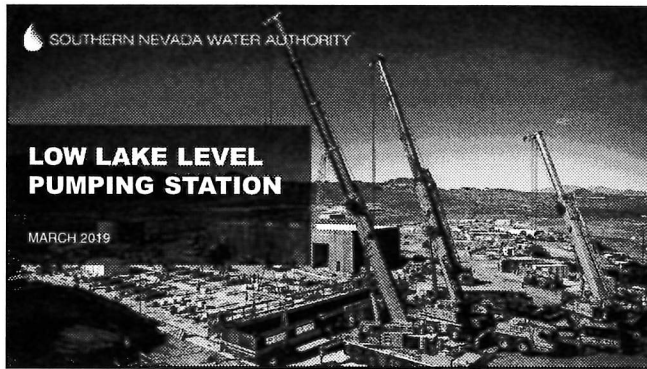
Kyle Roerink, Great Basin Water Network, spoke concerning quarter-cent sales tax. He asked for an accounting of sales tax proceeds used to support Authority ranching operations in eastern Nevada. Chair Kirkpatrick asked Mr. Roerink to submit his questions in writing so that she can provide him with a response.

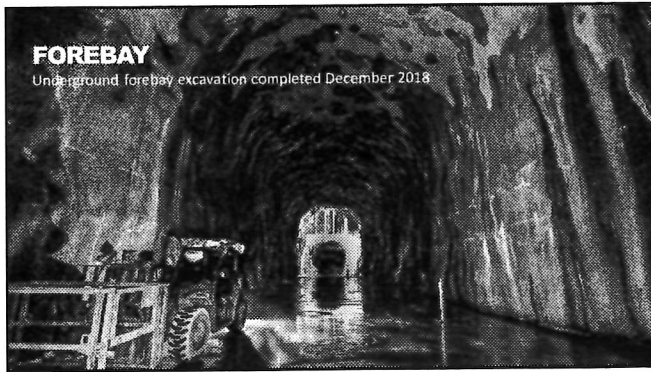
Ed Uehling spoke regarding the Authority's use of cookies on its website. He also spoke concerning the Authority's water conservation ad campaigns. He said that the ads should make a distinction between outdoor and indoor water use.

Adjournment

There being no further business to come before the Board, the meeting adjourned at 9:56 a.m.

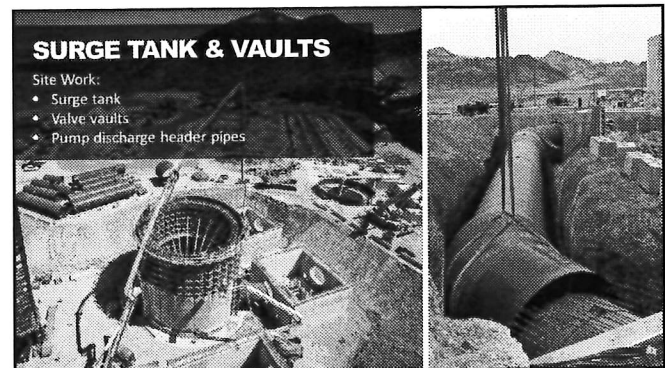
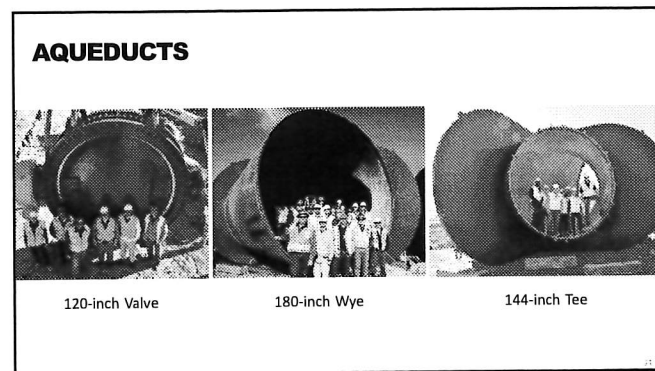
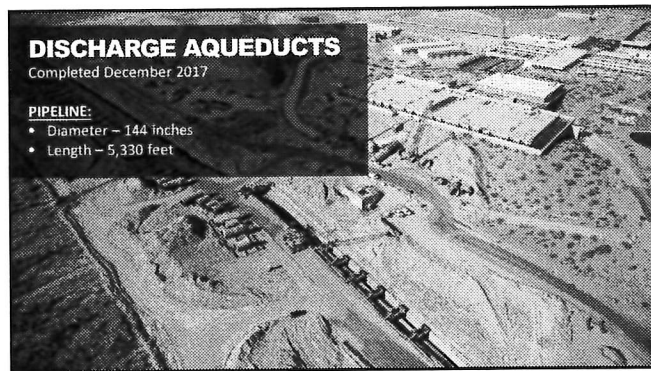
Copies of all original agenda items and minutes, including all attachments, are on file in the General Manager's office at the Las Vegas Valley Water District, 1001 South Valley View Boulevard, Las Vegas, Nevada.





CONNECTING L3PS


- On December 18, 2018 crews removed a 16-foot diameter temporary bulkhead from the bottom of the existing shaft
- Provides for the connection of the L3PS underground facilities to the Intake No. 3 tunnel system



ELECTRICAL & MAINTENANCE BUILDING / WELL PAD

Site Work:

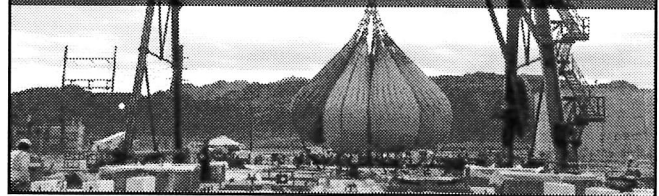
- Constructed building
- Placed concrete for well pad slab and crane rail foundation
- Installed sole plates and crane rail



GANTRY CRANE

Site Work:

- Feb. 22, 2019 – load testing (220-ton crane capacity)
- Load tested at 271 tons
- 65,000 gallons of water used in test
- Equivalent to approximately four swimming pools




PUMP PAD

Current contract

- 22 Low Lift Pumps
- 10 High Lift Pumps
- 2 empty pump wells


Proposed:

- 2 additional High Lift Pumps

Total:

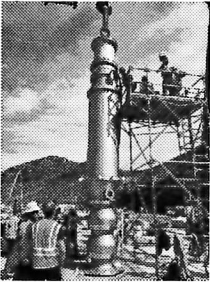
- 22 Low Lift Pumps
- 12 High Lift Pumps

(Note: Pumps to be installed as part of the CMAR L3PS contract)



2019. 2. 23

LOW LIFT PUMP



Test Pump Procurement

Current Status

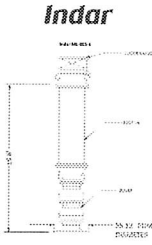
- 3 Low Lift pumps purchased
 - Andritz - delivered
 - Ebara - delivered
 - Indar - delivered

Indar Pump Procurement

Current Status

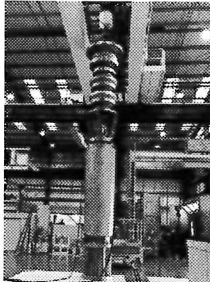
- 19 pumps purchased - all delivered

Lake EL. (ft)	Flow (MGD)	Head (ft)	Efficiency (%)	Shaft Power (HP)	Weight (tons)
875	30	435	86.3%	3350	22.8



Indar

HIGH LIFT PUMP

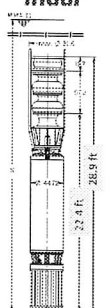


Indar Pump Procurement

Current Status

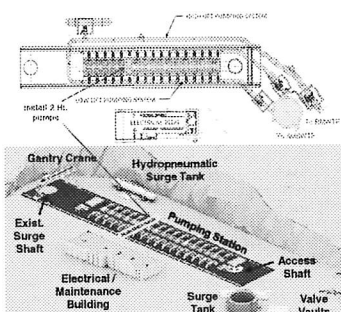
- 10 high lift pumps purchased – 2 delivered

Lake EL. (ft)	Flow (MGD)	Head (ft)	Efficiency (%)	Shaft Power (HP)	Weight (tons)
875	34	695	84.2%	5500	30.3



Indar

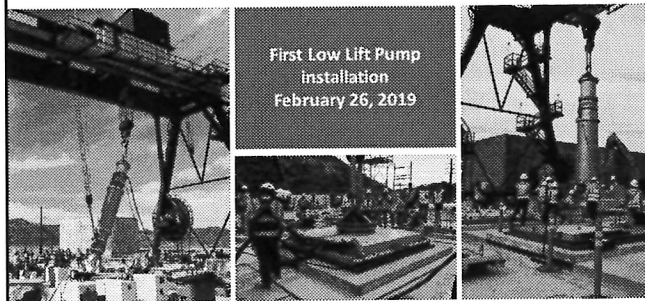
PROPOSED TWO ADDITIONAL PUMPS



Two additional Indar pump procurement

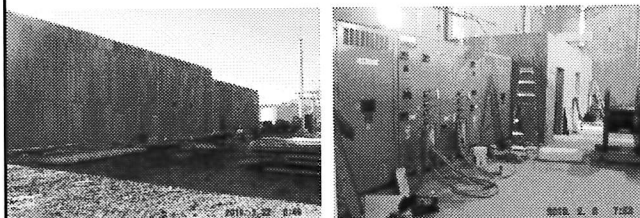
- Proposed adding two High Lift pumps (Indar pumps) in two empty wells
- Pumps to be installed as part of the CMAR L3PS contract
- 10 High Lift pumps – Capacity 300 MGD
- 12 High Lift pumps – Capacity 360 MGD
- This provides ability to pump more flow to RMWTF
- This provides ability to divert additional flow to AMSWTF through EBROFC

LOW LIFT PUMP INSTALLATION



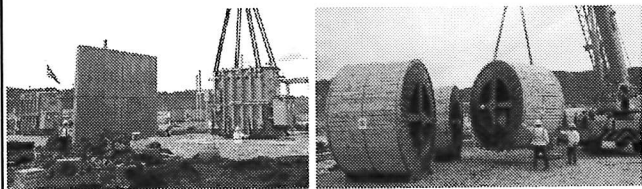
ELECTRICAL & MAINTENANCE BUILDING

- Installing doors and door frames
- Installing wiring, terminations and bus duct



TRANSFORMERS & CABLE

- Transformers delivered January 2019
- Cable, circuit breakers and accessories delivered December 2018
- All equipment delivered on time

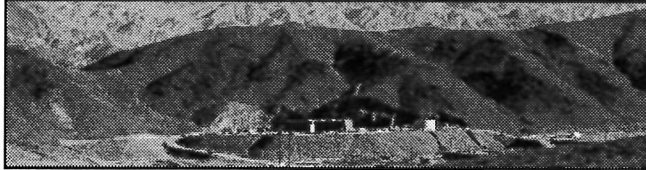


SUBSTATION

Construction through April 2019


SITE RESTORATION

- Removal of temporary access road, construction trailers, and final restoration grading
- Approval by National Park Service
- Lakeshore Road – Assessment and possible pavement restoration
- Planned for Sept. 2020 – Dec. 2020

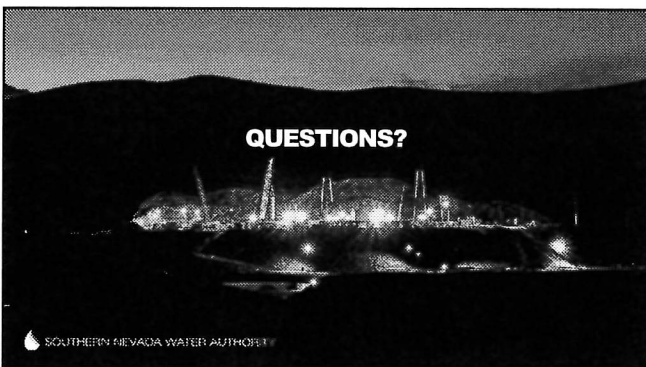



OVERALL PROJECT STATUS

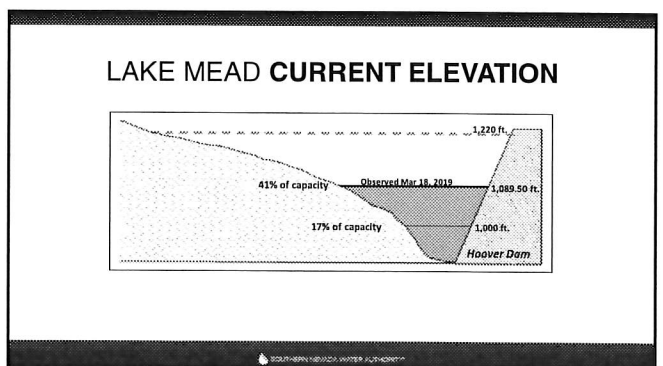
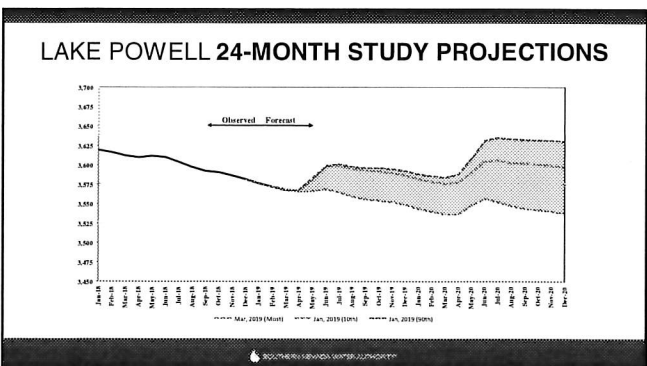
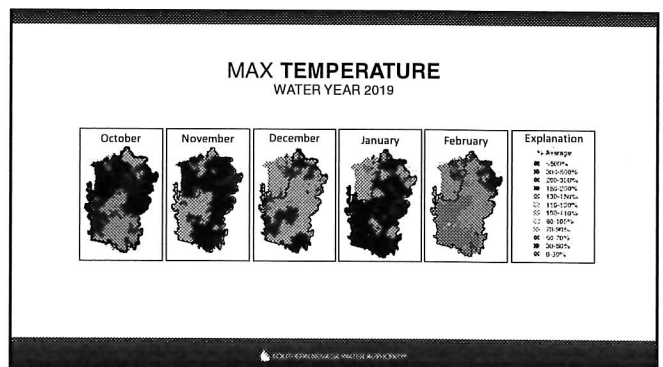
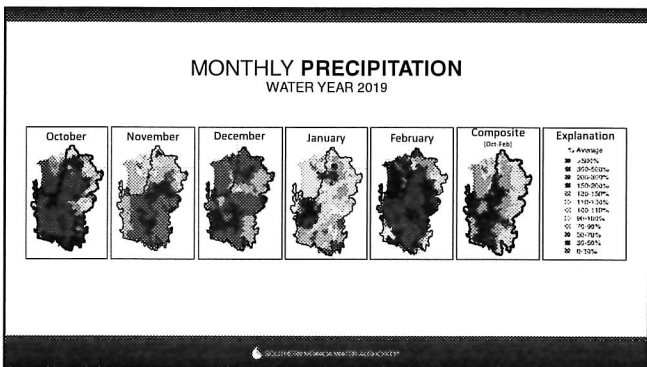
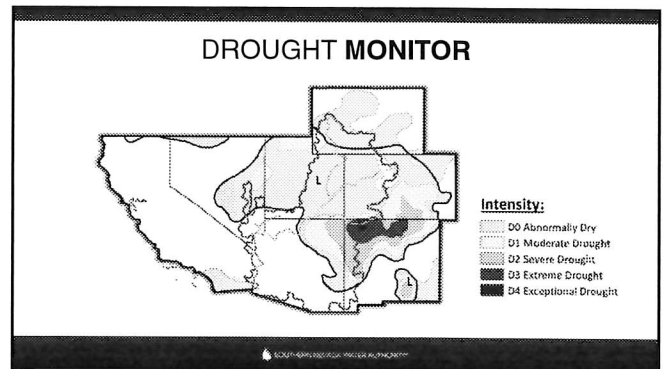
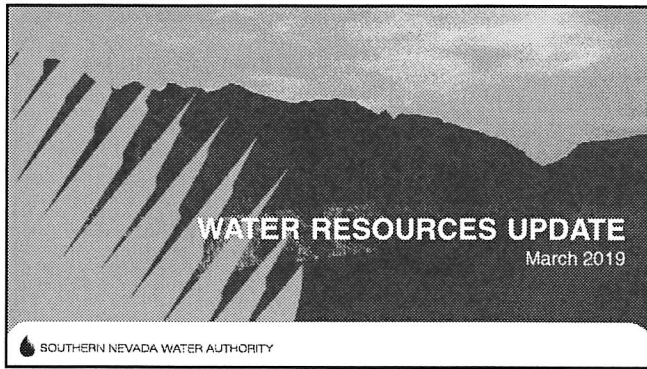
- On schedule – Operational in early 2020
- On budget – Current estimated total project cost: \$580 million (\$70 million under budget)



QUESTIONS?

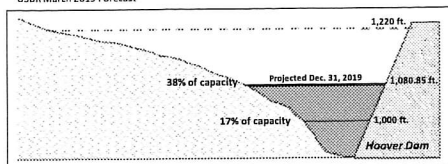


 SOUTHERN NEVADA WATER AUTHORITY



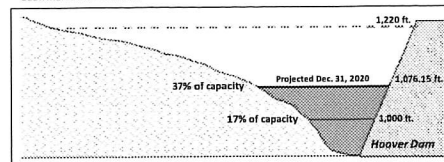
LAKE MEAD PROJECTED ELEVATION

USBR March 2019 Forecast

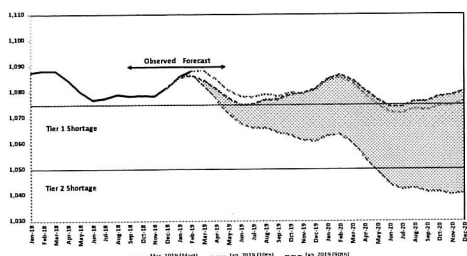


LAKE MEAD PROJECTED ELEVATION

USBR March 2019 Forecast



LAKE MEAD 24-MONTH STUDY PROJECTIONS

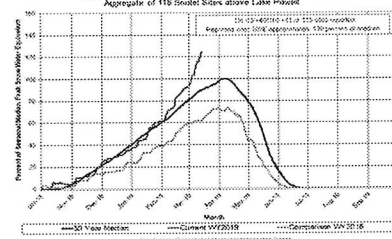


UPPER BASIN SNOW CONDITIONS

Upper Colorado River above Lake Powell Snow Tracking
Aggregate of 110 Gauges above Lake Powell

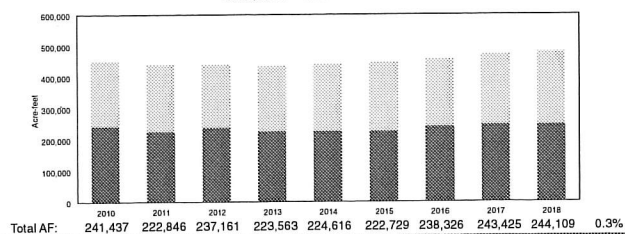
- Water Supply**
- Precipitation to date: 126% of average
 - Snowpack to date: 138%
- Forecasted Inflow to Lake Powell**
- WY 2019: 92% of average
 - Apr-Jul: 102% of average

(As of Mar 18, 2019)



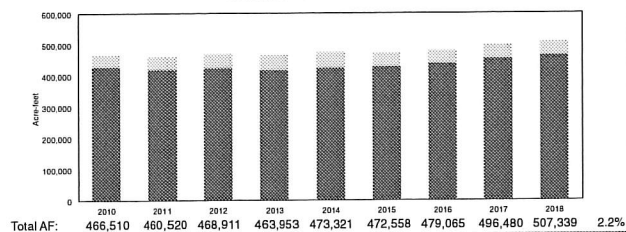
COLORADO RIVER CONSUMPTIVE USE 2018

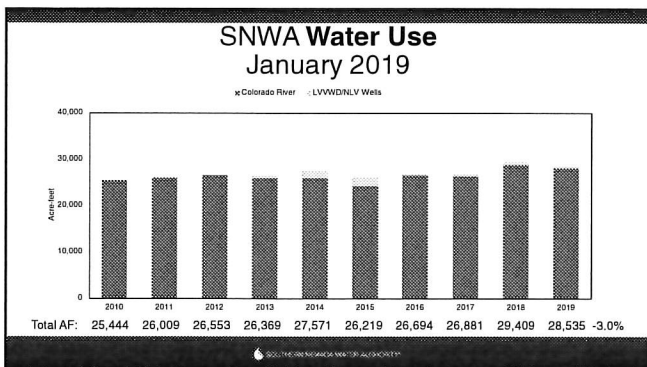
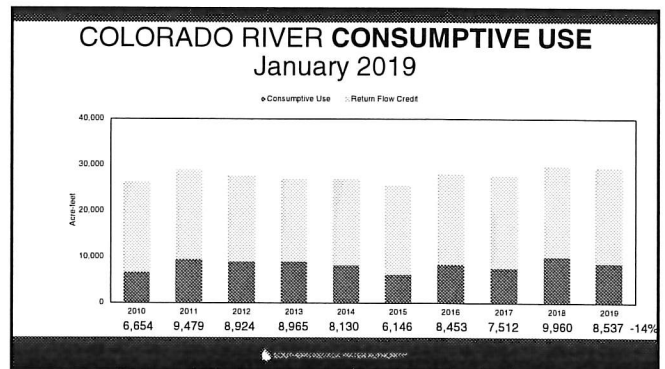
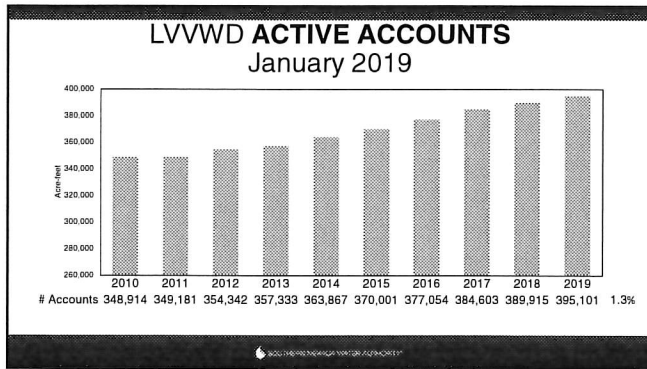
Consumptive Use Return Flow Credit

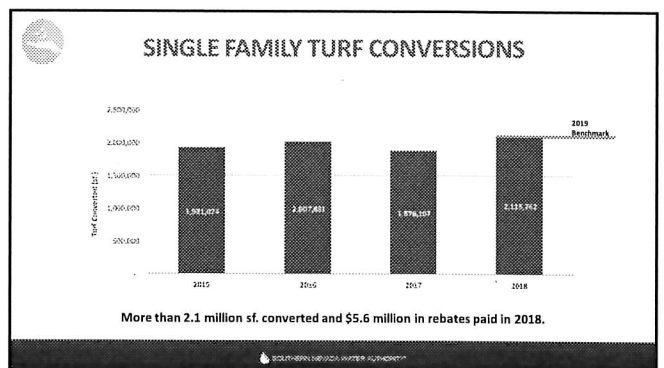
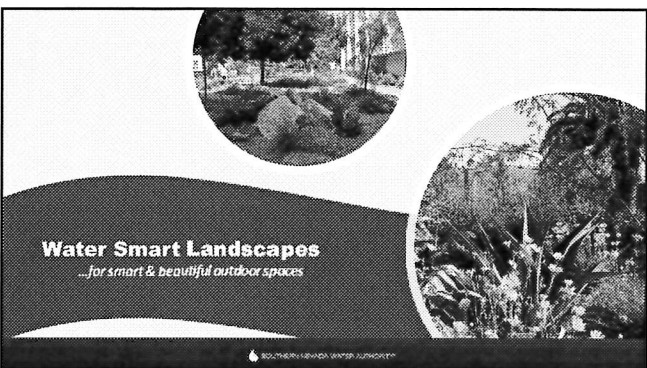
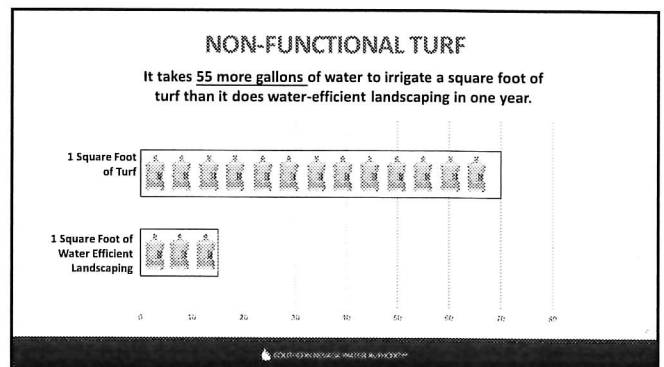
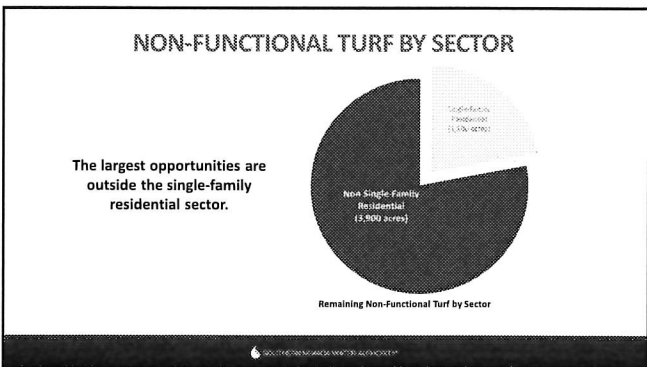
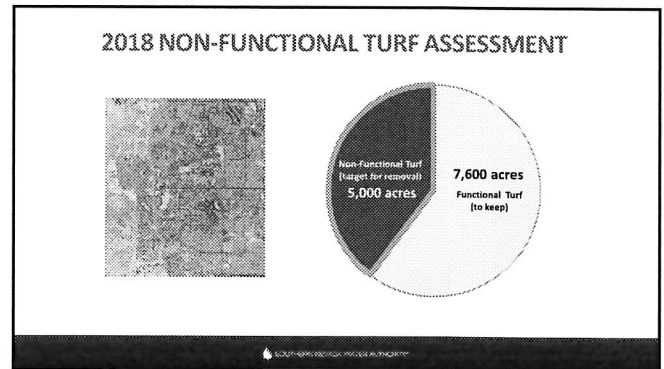


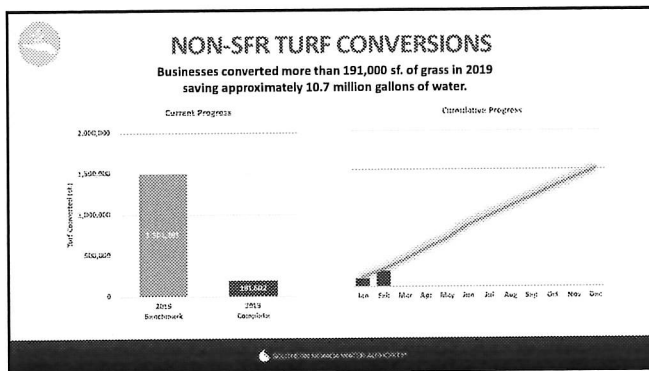
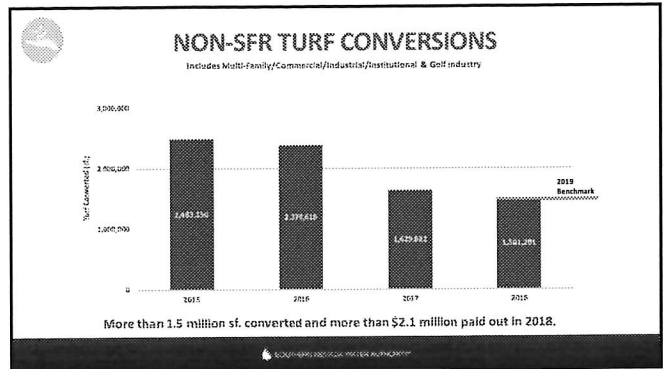
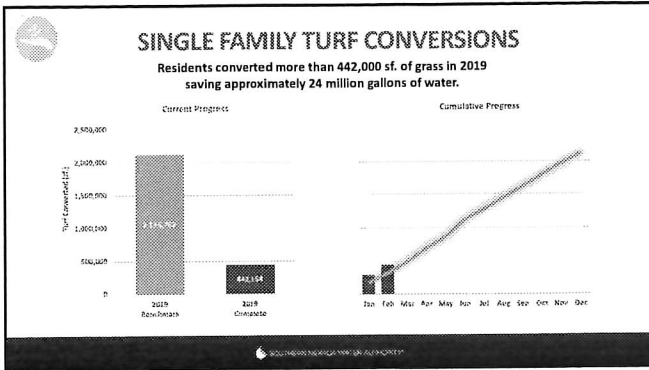
SNWA Water Use 2018

Colorado River LVWWD/NLV Wells









Significant amounts of non-functional turf remain:

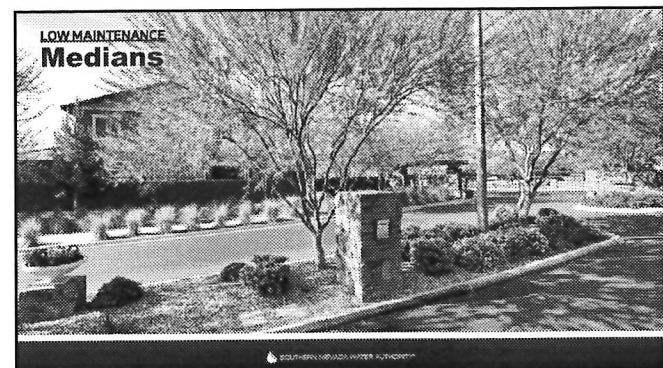
- Golf Course Rough
- Streetscapes
- Medians
- Community Entrances
- Roundabouts
- Commercial Frontage

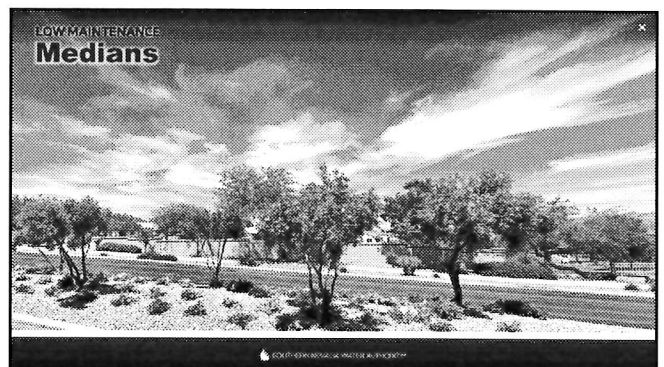
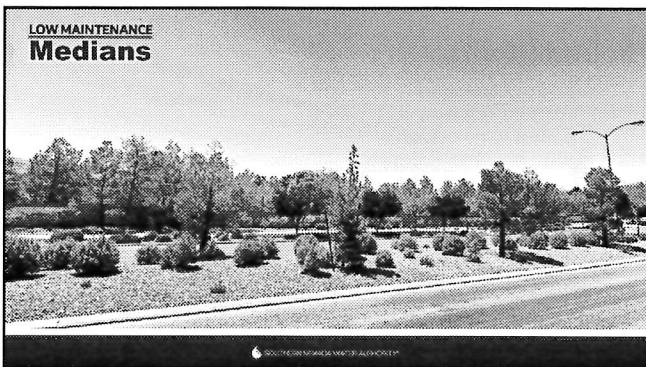
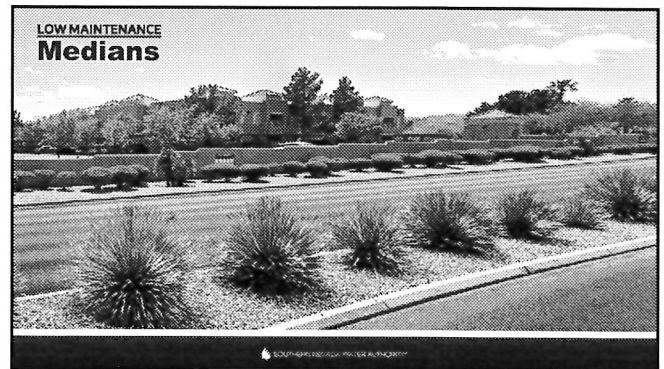
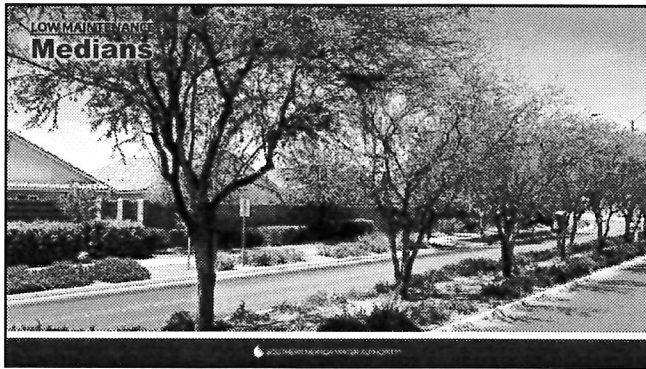
SOUTHERN NEVADA WATER AUTHORITY

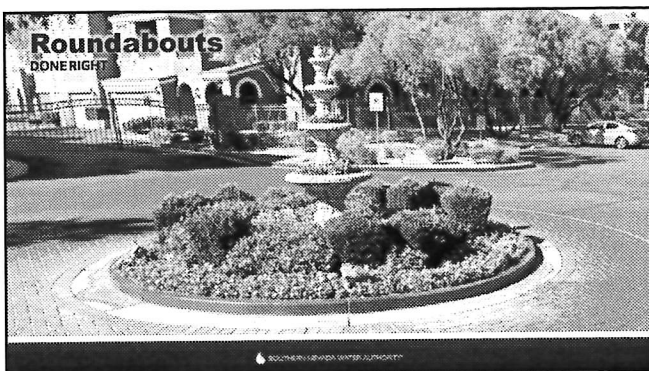
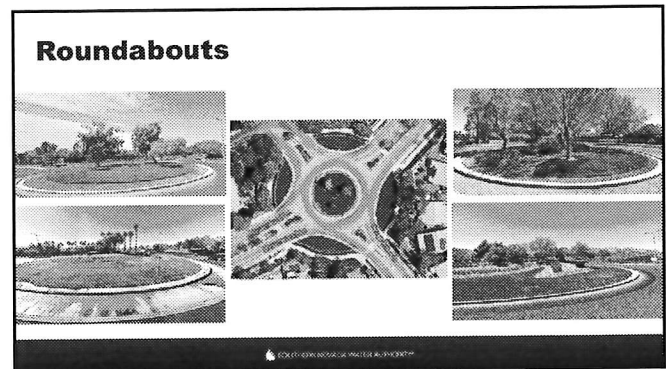
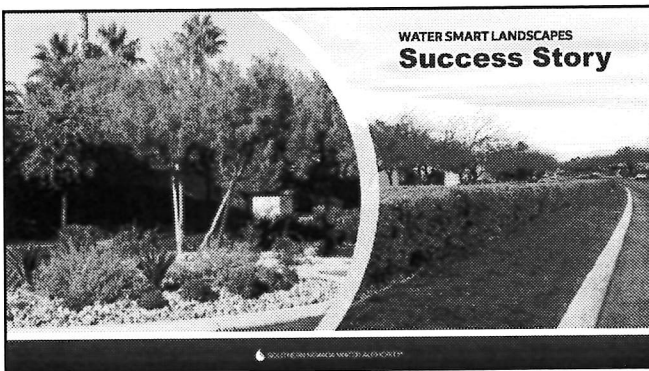
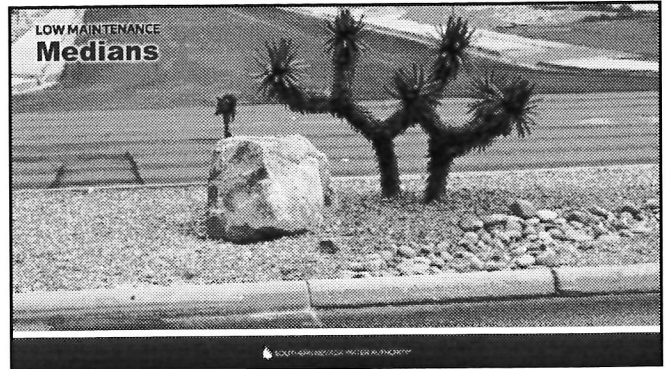
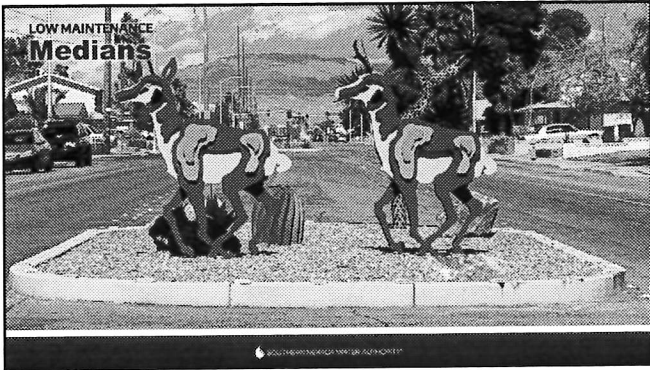
Median Turf: 1,031,000 sf. remaining

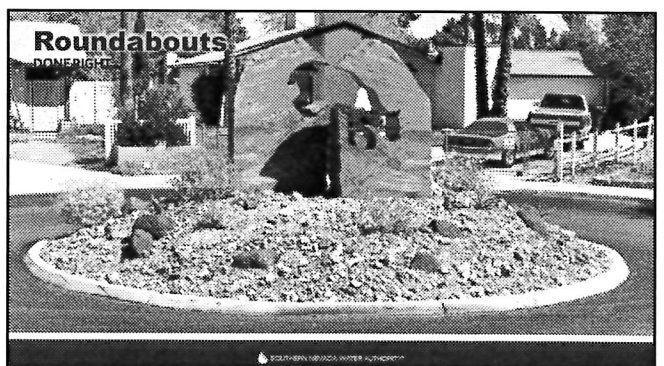
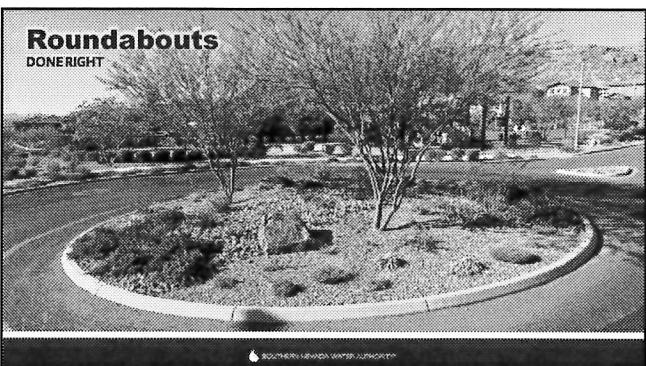
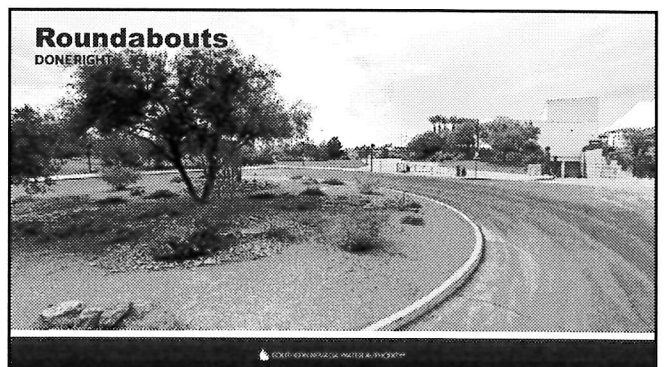
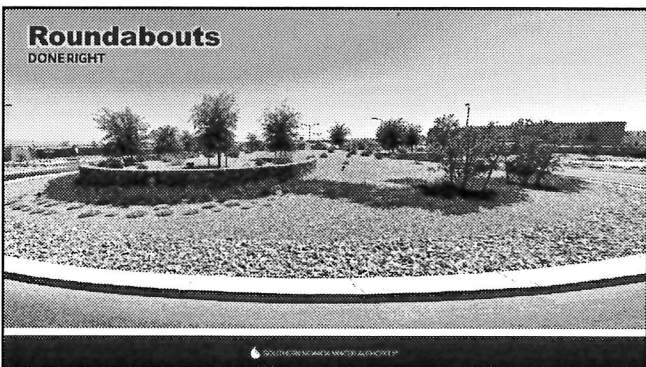
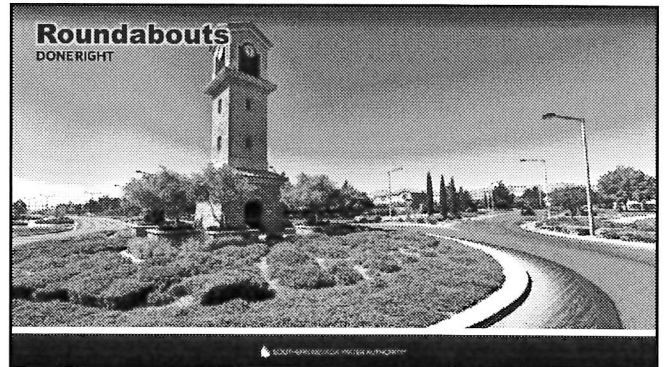
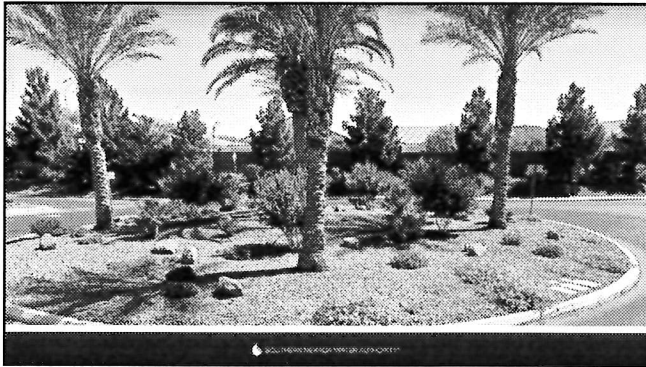
Upgrading grassy medians could save our community more than 57.7 million gallons of water annually.

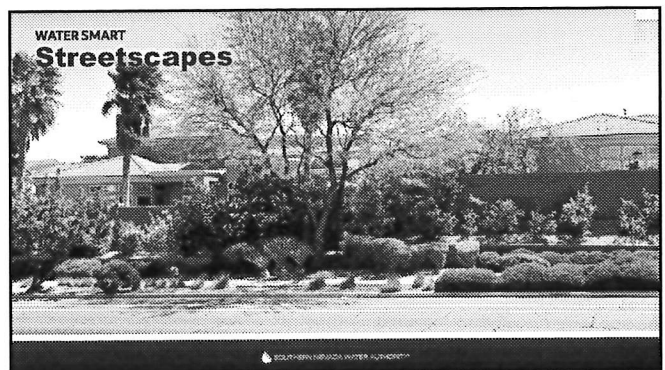
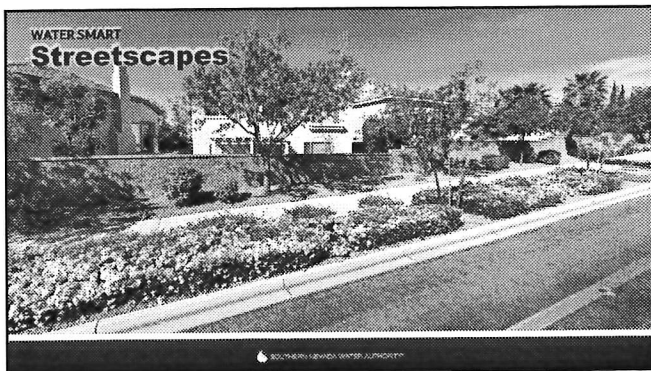
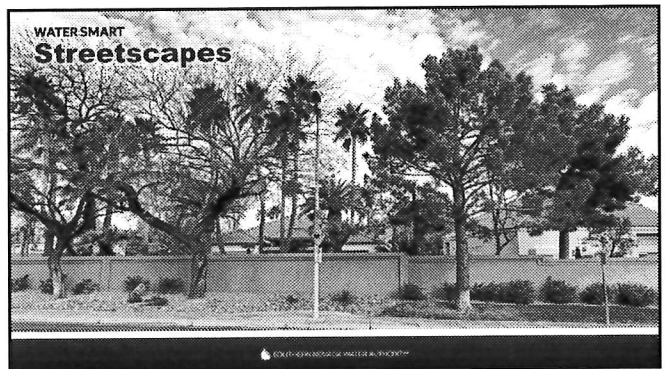
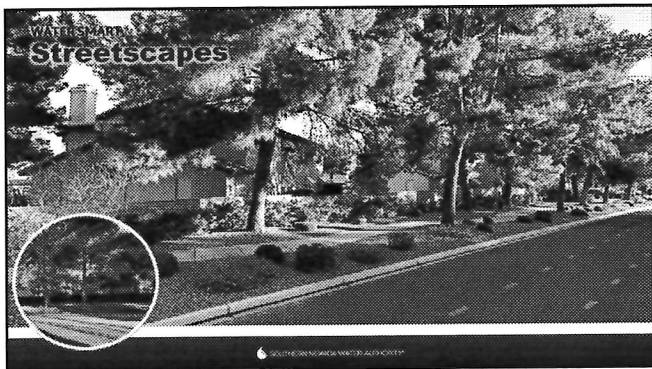
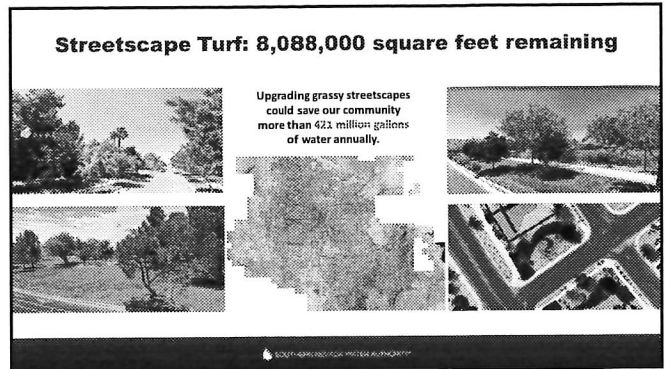
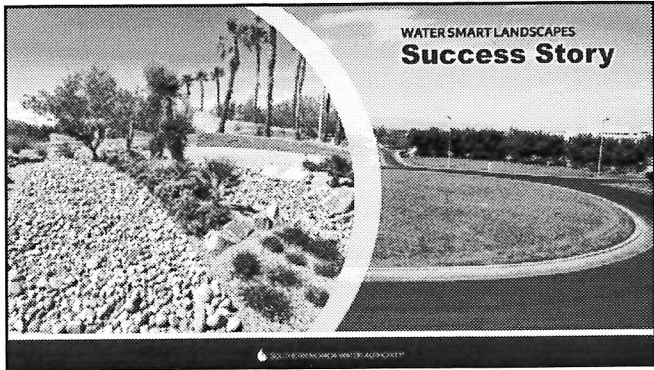
SOUTHERN NEVADA WATER AUTHORITY

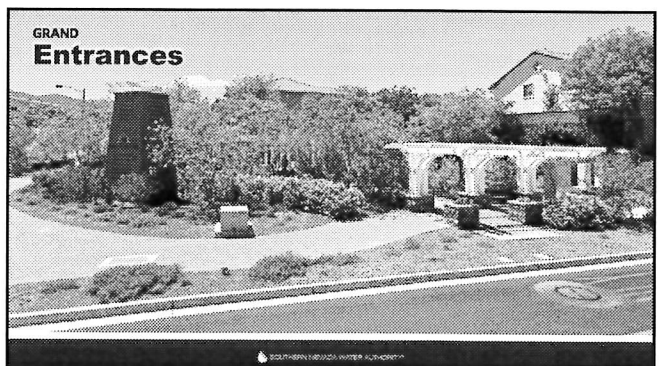
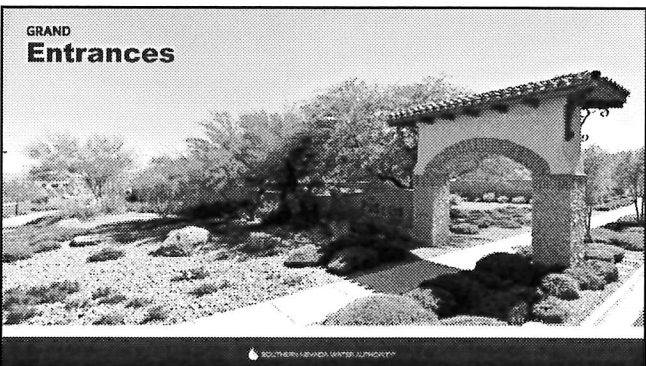
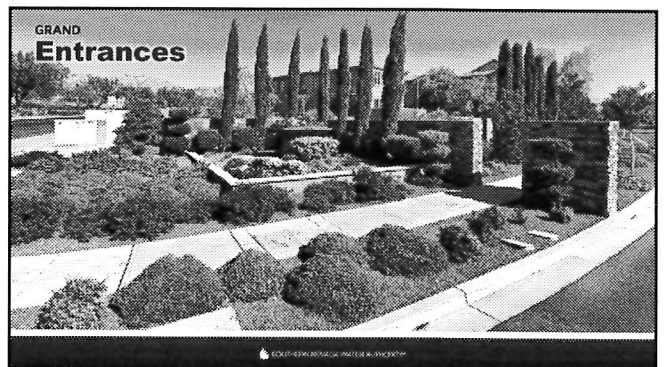
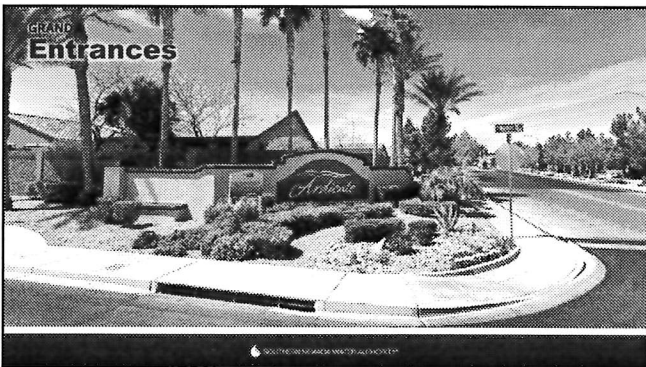
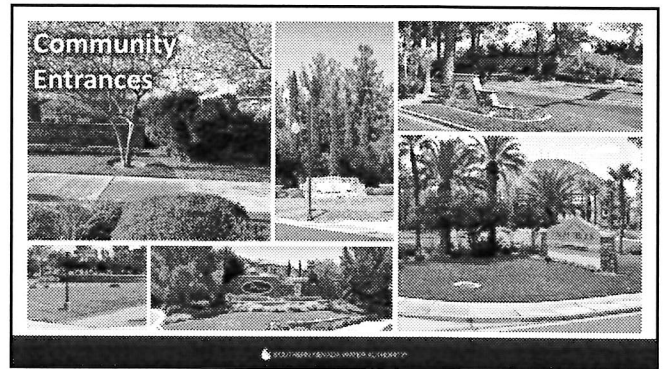
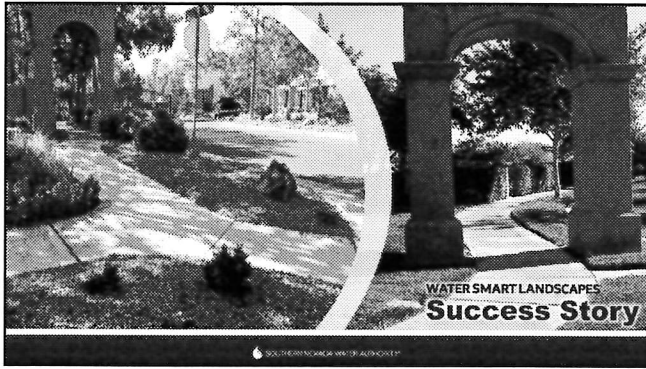


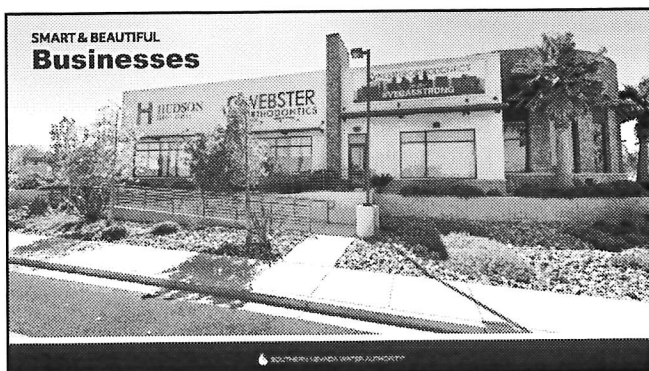
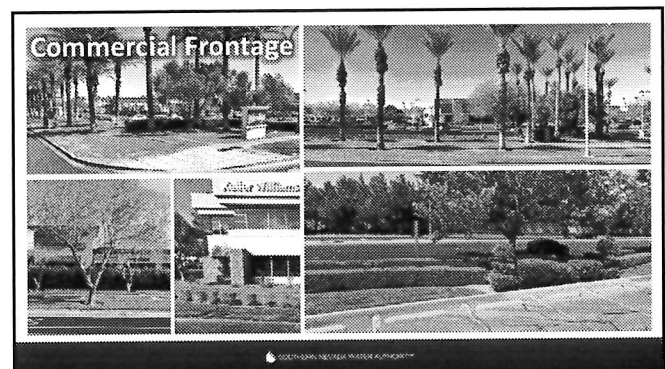
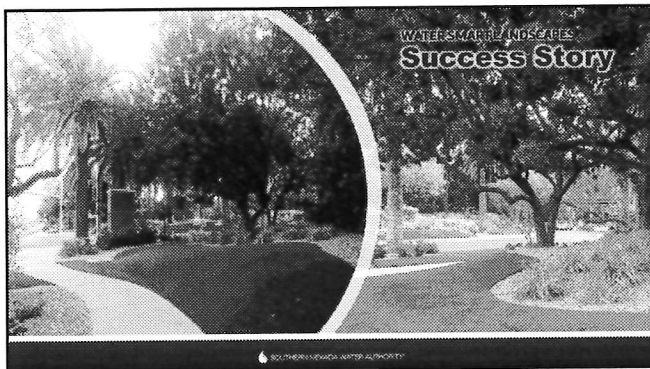
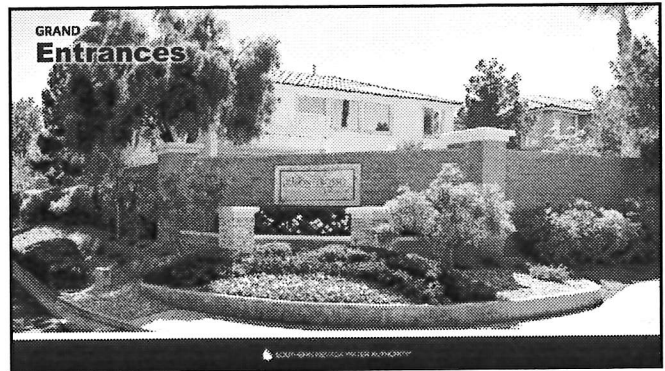
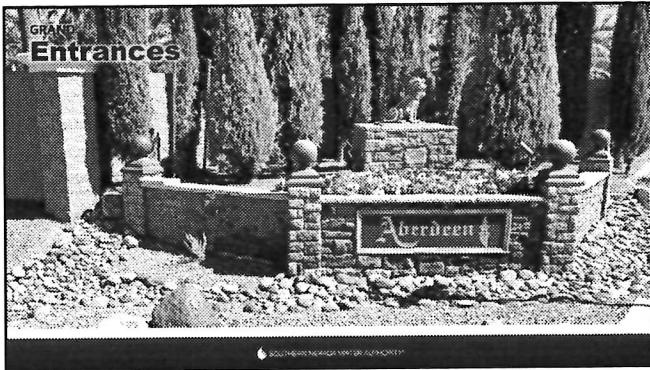


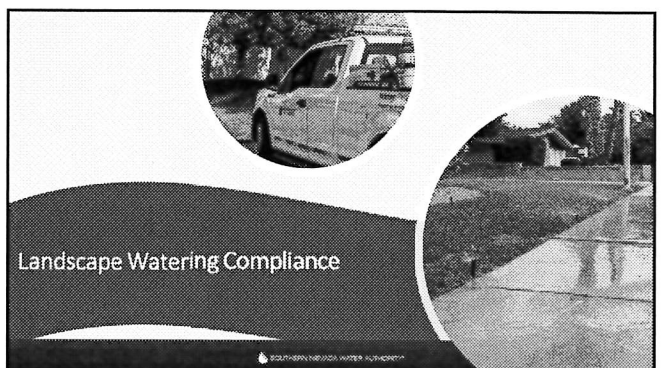
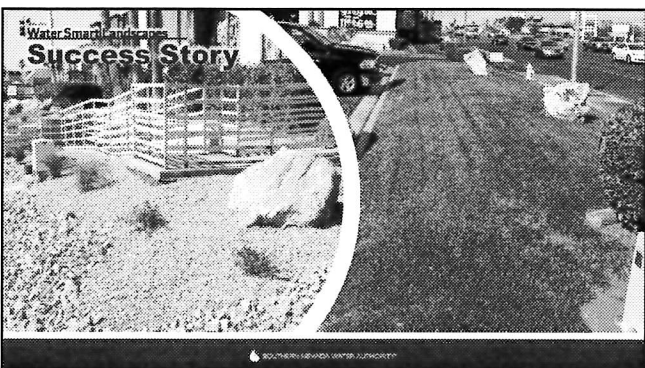
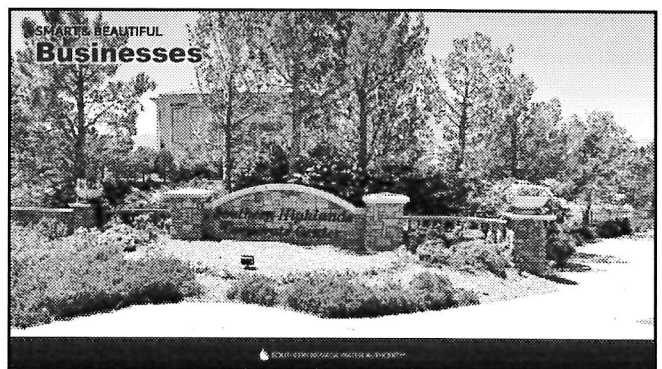
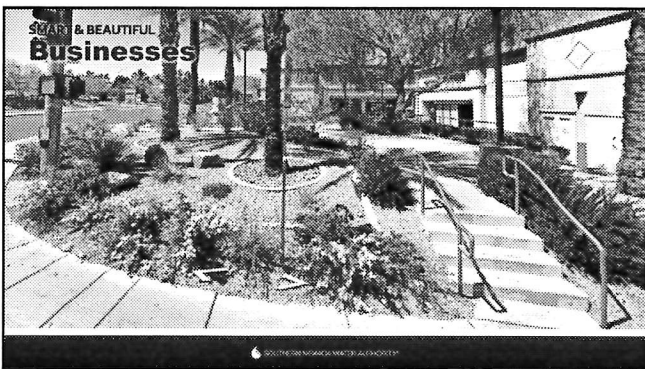
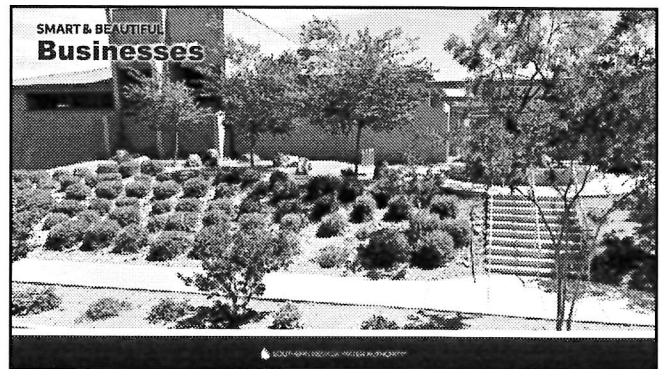
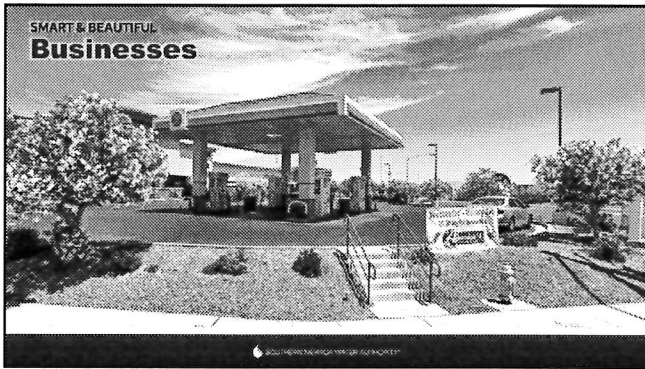






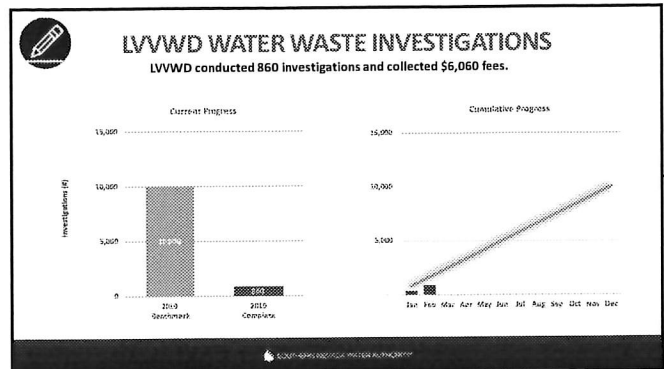






LANDSCAPE WATERING COMPLIANCE

WATER NO MORE THAN 3 DAYS A WEEK.
IT'S THE LAW. MARCH 1 - APRIL 30



LANDSCAPE WATERING COMPLIANCE
YTD Efforts (through February)

ADVERTISING	TARGETED OUTREACH	LVVWD ENFORCEMENT
Compliance Ads Placed more than 2,200 ads and made more than 18 media appearances.	General Communications Reached nearly 2 million engineers through direct mail and e-newsletters.	Reports Received more than 2,700 engineer reports.
Social Media Reached more than 257,100 and engaged nearly 10,000 users through through social media.	Courtesy Letters Issued more than 200 courtesy letters.	Investigations Conducted 860 investigations and issued 231 citations.
Coordination Engaging coordination with local water agency for outreach and education on landscape watering.	Bill Inserts Reached 250,000 with landscape watering.	Citations and Fees Issued 89 citations and collected \$6,060 in water waste fees.

