

MINUTES OF MEETING BOARD OF DIRECTORS FOUNTAIN HILLS SANITARY DISTRICT

The Board of Directors of the Fountain Hills Sanitary District met in a **Regular Meeting** on **Wednesday, December 18, 2019** at **5:30** p.m. in the District's Board Room located at 16941 E. Pepperwood Circle, Fountain Hills, Arizona.

Agenda Item No. 1

Call to order and roll call

Upon roll call, the following Directors were present:

Chairman Gregg Dudash, Vice Chairman Jerry Butler, Director Michael Maroon, Director Robert Thomson, and Director Tom Reski.

(Note: Unanimous votes refer to all Directors present.)

The following Executive Staff members were present:

Dana Trompke, District Manager, Bill Sullivan, Legal Counsel, Tori Myers, District CPA, and Penny Cook, Assistant Secretary.

Agenda Item No. 2

Approval of Minutes: Regular Meeting: November 20, 2019

A motion was made by Director Thomson to approve the minutes of the Regular Meeting of November 20, 2019 as presented. Vice Chairman Butler seconded the motion which passed unanimously.

Agenda Item No. 3

Call to public.

There was no public comment.

Agenda Item No. 4

District Manager's report; items to be discussed include plant and recharge statistics for November, permit compliance, new and existing sewer services, active project updates, recent activities, public communication efforts, and Town communication and/or coordination efforts.

District Manager reported for the month of November: The average daily influent flow was 1.996 MGD, total WW treated was 59,867,000 gallons.

The District was in compliance with all permit requirements for the month.

November Reclaimed Water delivered to reusers was 31,998,000.

The District Manager reported the District's total recharge credit available as of November 30, 2019 was 631,339,657 gallons.

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There were four new sewer service agreements issued in November - two single-family and two multi-family units.

The Ribbon Cutting event for the building at Well #2 for the ASR Well Vault Replacement project was held December 18th. There are still some punch list items and touch-up items to be completed at ASR Well #2. ASR Well #4 will be complete by end of January or early February.

A draft Master Plan Study report was received, and a summary will be presented later on the agenda.

The air compressors have been delivered for the Air Compressor Replacement project. A request for approval to authorize a Job Order to perform the installation and necessary electrical modifications is later on the agenda.

Staff has been making significant progress on locating and inspecting all the Air Release Valves (ARVs) on the reclaimed water mains.

District Manager has granted permission for staff with electric vehicles to charge them while at work. A project will be included in next year's FY budget to provide 1 to 3 electric charging stations for employee benefit as well as future additions to the District fleet.

An additional humorous sign was hung at the ASR Well #2 well construction site.

Communications and planning for the ribbon cutting ceremony was completed.

District Manager is providing input into the Town's effort to update its General Plan.

Agenda Item No. 5

District CPA's report; items to be discussed include status of income and expenditures, billing, report on collection efforts to date, FY 2020/21 budget schedule, and general direction from Board.

District CPA's report indicated the Income Statement for November was favorable to budget.

Agenda Item No. 6

Discussion and consideration to authorize District Manager to issue a Job Order to MGC Contractors for the procurement and delivery of replacement AWTF valves in the amount of \$49,016.30.

District Manager explained that this will be the first Job Order issued. District Manager is requesting for the procurement and delivery of the AWTF valves in the amount of \$49,016.30. The installation of the valves will be included in the FY 2020/21 budget.

After a discussion, Director Reski made a motion to authorize District Manager to issue a Job Order to MGC Contractors for the procurement and delivery of replacement AWTF valves in the amount of \$49,016.30. Director Maroon seconded the motion which passed unanimously.

Agenda Item No. 7

Discussion and consideration to authorize District Manager to purchase replacement lamps, sleeves, sensors and accessories for the UV system at the AWTF in the amount of \$47,913.80.

After a discussion, Director Reski made a motion to authorize District Manager to purchase replacement lamps, sleeves, sensors and accessories for the UV system at the AWTF in the amount of \$47,913.80. Director Maroon seconded the motion which passed unanimously.

Agenda Item No. 8

Discussion and consideration to authorize District Manager to issue a Job Order to Felix Construction for the installation of new air compressors and associated electrical upgrades at the AWTF in the amount of \$292,185.50.

After a discussion, Director Reski made a motion to authorize District Manager to issue a Job Order to Felix Construction for the installation of new air compressors and associated electrical upgrades at the AWTF in the amount of \$292,185.50. Vice Chairman Butler seconded the motion which passed unanimously.

Agenda Item No. 9

Discussion and consideration of findings in the Draft Master Plan.

District Manager presented the Board with some of the findings from the Draft Master Plan.

GIS And Sewer Model

- The GIS system is used for decision support for operations and maintenance activities as well as enhancing internal evaluations and studies.
- The District can now perform in-house sewer capacity analyses to determine impacts of changing or higher-density projects within the District service areas. This provides developers with much needed information much earlier in project development stages and to identify infrastructure improvements required for service, if needed.

Collection System Infrastructure

- Three pipe segments were identified as surcharging (backing up flow) under current conditions. It is recommended to perform flow monitoring at those pipe segments and obtain actual survey data to confirm invert elevations and flow conditions.
- Three additional sewer pipe segments were flagged for monitoring as flows approach a build-out condition.
- All of the pump stations were identified as meeting all of their capacity for both current and future conditions except for Pump Station 5. The pumps at PS #5 were identified for needing to be replaced with larger pumps under buildout flow conditions.
- Overall, the entire system has sufficient capacity for buildout conditions. (*Note, local redevelopment of commercial parcels to a higher-density use may require infrastructure improvements.*)

Wastewater Treatment Systems

- The most immediate need is for additional effluent pumping capacity at the effluent pump station located at the WWTP. There is not sufficient capacity for future flows, nor redundant capacity for current conditions.
- The UV disinfection system located at the AWTF should be increased in capacity to meet both future flow scenarios and maintain current redundancy requirements.
- The headworks screening equipment and structure will need to be expanded for buildout conditions.
- The repair and refurbishment of an existing grit removal system (currently out of operation) will be required for future build out conditions.

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- The construction of a third aeration basin is required for redundancy above average daily flows of 2.75 mgd.
- The filters located at the WWTP will need additional capacity when average daily flows approach 3.0 mgd.
- RW distribution pumps at the AWTF will need additional capacity as flows increase toward buildout conditions.

Recycled Water Systems

- No additional options for permitted discharges in the future nor available land for large-scale recharge and evaporation basins were identified. Therefore, the District will need to continue its practice of using ASR wells to manage the daily and seasonal supplies of RW.
- Additional recharge capacity is needed under current conditions. Begin the necessary planning and design needed for 1 additional ASR well.
- An additional 1 to 2 wells may be required for future Buildout.
- An additional storage reservoir at the FireRock Pump Station site will provide easier distribution to two of the three golf course RW users.
- A lined lake could be constructed at the FireRock PS site to store a portion of Fountain Lake water if needed (approximately 10 MG).
- An outfall to the Scottsdale sewer system only requires $\frac{3}{4}$ mile of piping. An outfall would benefit the District in multiple ways:
 - Provide a legal means of discharge when ASR wells don't have sufficient recharge capacity due to maintenance issues, mechanical failures, or extreme weather events;
 - This could reduce the number of ASR wells the District would need to construct and maintain in order to have sufficient peak day recharge capacity with redundancy.
 - Provide a legal means of discharge when the AWTF facility is out of service (and therefore water can not be recharged into the ASR wells) and golf courses are not accepting water due to seasonal temperatures or extreme weather events.
 - Possibly be used to discharge Fountain Lake water when the lake needs to be drained.

State Trust Land

The impacts of annexing the State Trust Land were evaluated under two future buildout scenarios: construction of 1,100 units and 1,600 units. In addition to the treatment capacity improvements listed above, the following additional items will be required:

- The construction of a third aeration basin is required.
- Additional recharge capacity is required, in equal quantity to the effluent produced.
- Additional infrastructure to convey raw sewage flows to the WWTP, including sewer mains, lift stations and forcemain(s).

Agenda Item No. 10

The Chairman, the individual members of the Board and the District Manager will each be permitted to provide a brief summary of current events. The Board will not propose, discuss, deliberate or take legal action at the meeting on any matter addressed in the summaries, unless the specific item is otherwise properly noticed.

Chairman Dudash complimented and congratulated District Manager and staff on the tremendous job that was seen today at ASR Well #2. There was a lot of work put into it and it didn't just happen.

Director Thomson also gave praise for the Ribbon Cutting event this morning.

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Agenda Item No. 11
Adjournment.

Director Maroon made a motion to adjourn the meeting at 6:55 p.m. Director Reski seconded the motion which passed unanimously.

Dated this 19th day of December, 2019.

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Minutes Prepared By:

A handwritten signature in cursive script, appearing to read "Penny Cook", is written over the printed name. The signature is fluid and stylized, with a large loop at the beginning and a long, sweeping tail.

Penny Cook, Assistant Secretary