

SOUTH DAVIS SEWER DISTRICT  
BOARD OF TRUSTEES  
REGULAR MEETING  
16 May 2019

The Board of Trustees of the South Davis Sewer District, Davis and Salt Lake Counties, met in regular session at 5:00 p.m. at the District Office located at 1800 West 1200 North, West Bountiful, Utah, with the following members present:

Dee Hansen	Chairman
Howard Burningham	Vice-Chairman
John Davies	Trustee
Mark Preece	Trustee
Len Arave	Trustee
Ryan Westergard	Trustee (Excused 7:00 pm)

Excused:

Randy Lewis	Trustee
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Others meeting with the Board:

Dal Wayment	General Manager/Treasurer
Mark Katter	Accounting Manager/Clerk
Susanne Monsen	Administrative Asst/Asst Clerk
Matt Myers	Engineer
Jacob Scott	E-I-T
Scott Rogers	Aqua Engineering
Debra Marshall	Resident, West Bountiful

1. MINUTES:

The meeting was called to order at 5:00 p.m. at which time the Chairman asked for comments of the regular Board Meeting held 18 April 2019. After consideration motion was made by Mr. Len Arave seconded by Mr. John Davies to accept the Minutes as presented. Motion carried unanimously with Trustees Hansen, Burningham, Preece, Arave and Westergard voting "aye",

2. BUDGET REPORT:

A. SOUTH DAVIS SEWER DISTRICT.

The Budget Report dated 5/14/19 was presented for review. The combined Revenue Budget has received 31% in revenues; the Collection System is 28% expended; Treatment Plants are 37% expended; Industrial Pretreatment is 37% expended; Capital Expansion is 12% expended; Water Quality Group (JR/FB) is 29% expended; OU2 Remediation is 14% expended; Water Quality Group (Utah Lake) is 22% expended; and General & Admin is 39% expended. The budget ratio to calendar months is 36%.

B. WASATCH RESOURCE RECOVERY (WRR).

The Budget Report dated 5/13/19 for WRR was presented for review. This report includes revenues and expenses from 1/1/19 to present. The combined Revenue Budget has received 2% in revenues and is 19% expended.

3. INVESTMENT REPORT:

No changes from the last meeting.

4. APPROVAL OF DISBURSEMENTS:

Trustees requested review on Zions Bank check number 23896. After consideration and some review motion was made by Mr. John Davies seconded by Mr. Howard Burningham to accept the Disbursements as presented. Motion carried unanimously with Trustees Hansen, Burningham, Davies, Preece, Arave and Westergard voting "aye".

5. CONSIDER LEASE FOR WESTECH ENGINEERING INC FOR HYDRAULIC TEST TANK AT THE NORTH PLANT:

WesTech Engineering, Inc., is a wastewater and water treatment process equipment manufacturer. They have requested the District consider leasing them a small parcel at the North Plant to erect a hydraulic testing tank. This tank would be used to study the design and performance of mixers, aerators, etc. and would be used for certified performance testing. A wastewater treatment site is desirable because of the ready access of wastewater for the testing and discharge of wastewater back to the plant.

Motion was made by Mr. John Davies seconded by Mr. Ryan Westergard to approve a lease between the District and WesTech Engineering as presented. Motion carried unanimously with Trustees Hansen, Burningham, Davies, Preece, Arave and Westergard voting "aye".

6. CONSIDER APPROVAL OF MUNICIPAL WASTEWATER PLANNING PROGRAM (MWPP) ANNUAL REPORT FOR 2018:

The Annual Self-Assessment Report questionnaire from the Division of Water Quality addressing performance and planning issues for both operational and financial planning for the District was submitted for review.

Motion was made by Mr. Ryan Westergard seconded by Mr. Mark Preece to approve the State of Utah Municipal Wastewater Planning Program (MWPP) Annual Report for 2018 for the District as presented and reviewed. Motion carried with Trustees Hansen, Burningham, Davies, Preece, Arave and Westergard voting "aye".

7. ADVANCED BIOLOGICAL NUTRIENT REMOVAL (ABNR) PROJECT - PROGRESS REPORT:

For the last several weeks the District has been trying to identify the toxicity in the South Plant effluent using nutrient removal testing equipment provided by Clearas. Several weeks ago, we were able to successfully remove the toxicity. This was done by raising the pH to 12.0, filtering out the resultant precipitates and readjusting the pH to 7.0. After this manipulation the algae performed perfectly. A subsequent test confirmed toxicity removal. In the second test the precipitate was not filtered, was allowed to settle and water for the test was decanted off the top of the container. Not having to filter would significantly reduce the cost of pretreating our effluent.

Testing at the University of Illinois has eliminated copper and zinc as possible toxicants. Two unusual constituents in the South Plant effluent are arsenic and fluoride. We have asked Dr. Guest, a professor at the University of Illinois to focus on those next. We have found that the Big West Oil refinery discharges significant amounts of fluoride.

8. WASATCH RESOURCE RECOVERY (WRR) PROJECT - PROGRESS REPORT:

Matt Myers, District Engineer, reviewed the progress on construction. He also reviewed startup and commissioning activities. We are receiving a number of different bottled and packaged wastes which are a challenge to get de-packaged and into the system. There have had numerous small problems with equipment and worked on how best to handle the waste, but nothing of significance. The digesters are full, but still need to build the solids concentration and chemical oxygen demand (COD). We are producing significant amounts of gas which is currently being flared. We have been notified of a major delay in the completion of the gas scrubbing equipment. The vendor of this highly technical equipment has been slow throughout the project. They have indicated the equipment won't be finished until the end of August. We will be seeking liquidated damages for these delays.

We are reaching a point where if we can't quickly resolve the toxicity issue at the South Plant, we need to pursue an alternative. The proposed alternative must provide for nitrogen and phosphorus removal at the North and South Plants to meet new permit limits.

Over the last several months alternatives have been examined. Mr. Scott Rogers, project engineer for ABNR, presented the proposed alternative. The proposal is to move the ABNR process to the North Plant using the knowledge and experience we have gained in pilot testing over the last year. We can increase the volume of wastewater treated by the ABNR process from 4 MGD to 6 MGD. We would remove enough phosphorus to meet the needs of both plants via nutrient trading. It would also address ammonia limits at the North Plant. Biological nitrification would be added to the South Plant to meet ammonia limits there.

Options for increasing the production of renewable natural gas (RNG) were also reviewed. Now that there is a connection to the natural gas network to market the RNG, connecting the South Plant's existing digesters in the system is economically very attractive. The District is participating in pilot testing of a new hydrolysis technology which would greatly improve gas production from both the South Plant and WRR. It would also make otherwise marginal feed stocks treatable.

9. GENERAL MANAGER'S REPORT:

A. LETTER FROM DIVISION OF WATER QUALITY (DWQ) REGARDING SANITARY SEWER OVERFLOW (SSO) REPORT.

On April 27<sup>th</sup> the electrical panel at the Eaglewood Village lift station in North Salt Lake failed. The cell phone based alarm system was disabled by the failure allowing the lift station to backup until the lowest manhole in the area overflowed. The overflow, about 2,500 gallons, ran to a storm water inlet box in the street. From there the wastewater would have reached the Salt Lake City sewer ditch. There was a significant existing flow in that storm drain and any wastewater was immediately swept away. There was no chance to capture any of the wastewater. Any SSO that reaches the waters of the State is significant. Therefore, the incident was immediately reported to the Davis County Health Department and the Department of Environmental Quality. We just received a letter from DWQ "warning" us that discharges to the waters of the State are a serious matter. They also indicated that given the circumstances and the District's immediate response no further action would be taken.

B. NATIONAL ASSOCIATION OF CLEAN WATER AGENCIES (NACWA) COST OF CLEAN WATER INDEX REPORT FOR 2018.

NACWA, a national organization of Publicly Owned Treatment Works, recently published a report with extensive rate information. The District's sewer rate is in the bottom 1% of the nation. Nationally, the average charge for wastewater services increased 3.9% in 2018. The District's current total sewer service cost including the monthly sewer bill and property tax for a \$250,000 home is \$12.81. The average total sewer cost for the Wasatch Front is \$35 per month.

10. NEXT MEETING SCHEDULED:

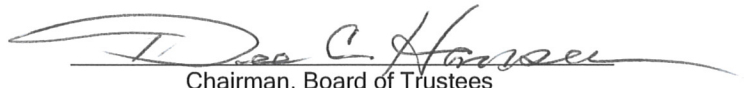
The next meeting has been scheduled for Thursday, 20 June 2019, 5:00 p.m.

11. DISMISSAL:

The meeting ended at 7:40 p.m.



Clerk



Chairman, Board of Trustees