

**SOUTH VALLEY WATER RECLAMATION FACILITY
BOARD MEETING
Wednesday, September 15, 2021
7495 South 1300 West
West Jordan, Utah 84084**

Attendance	Board Chairman	Jerry L. Knight, Sandy Suburban Improvement District
	Board Vice Chairman	Brad Powell, Midvalley Improvement District
	Board Member	Craig L. White, South Valley Sewer District
	Board Member	Glen Kennedy, Midvale City
	Board Member	Brian Clegg, City of West Jordan
	General Manager	Lee Rawlings
	Facility Engineer	Taigon Worthen
	Facility Clerk	Belinda Patterson
	Attorney for South Valley	Tracy S. Cowdell
	Carollo Engineers	Brad Jeppson

Call to Order Chairman Knight called the meeting to order at 12:30 p.m. and welcomed those in attendance.

Roll Call Roll call vote was as follows:

Mr. Powell	“here”
Mr. Clegg	“here”
Mr. Kennedy	“here”
Mr. White	“here”
Chairman Knight	“here”

**Ceremonies/
Presentations/Public
Comments** None

**Presentation of the
Capital Facility Plan
(98% complete)** Mr. Brad Jeppson, with Carollo Engineers, gave a brief presentation on the preliminary findings of the Capital Facility Plan. Technical Memorandum 04 was included in the board packet.

He covered condition assessment results, developing flow and load projections, regulatory outlook, and identified deficiencies and evaluated alternatives.

Condition Assessment Results – Carollo spent multiple days working with staff walking through all the facilities focusing on areas where there were challenges, issues, whether it was capacity rated, process related, mechanical equipment related and then compiled the identified deficiencies in each of the facilities across the plant giving them a condition score.

Flow and Load Projections - Currently South Valley Water Reclamation Facility’s (SVWRF) flows are at 20mgd.

Mr. White added that Jordan Basin Water Reclamation Facility (JBWRF) is now running at 100% capacity. Which means all new flows will be coming to SVWRF. JBWRF's new connections are growing at 6.5% but flows are at 1.5%.

Based on historical data, flow and load projections will be based on a 2.3% annual flow projection rate over the next 20 years. It is estimated that average annual flows will top out at approximately 30mgd and then drop to approximately 18mgd following JBWRF's phase two expansion.

Mr. White asked if we are currently designed for 50mgd. Mr. Worthen said yes that was correct for our current permit. Mr. Rawlings stated that any improvements are being designed for 40mgd. Mr. Worthen added that due to the construction of JBWRF, Project 5 was designed for 40mgd advanced grit removal with the technology-based discharge limit on phosphorous. If JBWRF doesn't expand, or the project gets delayed, 40mgd will take us out into that larger horizon.

Regulatory Review Findings – Over the next 5-10 years potential regulations include total nitrogen limits with an anticipated limit of 10mg/L, unsure if that will be total nitrogen or total inorganic nitrogen; lowering the limit for Total Suspended Solids (TSS) which may require Tertiary filtration. Mr. Rawlings added that this is a result of the Jordan River TMDL study. There is low dissolved oxygen in the lower parts of the river. They've identified dissolved organic matter as being a major contributor. As a result, lowering of the TSS levels have been discussed.

Over the next 10-20 years we may be looking at water reuse which may require tertiary filtration and disinfection improvements. Mr. Rawlings added that this is a result of the Central Utah Water Project; Mr. White said that South Jordan is looking at a scalping plant on 11800 South, South Jordan is also doing a pilot project which should be underway in the next 60-90 days to demonstrate toilet to tap. Draper irrigation has a main trunk line ready to install a pump station for reuse. Chairman Knight said that Sandy Suburban looked into a scalping plant years ago and asked what good is a scalping plant if you don't have the infrastructure? Mr. Worthen said that we've worked with Jordan Valley Water Conservancy District testing our effluent for possible reuse. Mr. Cowdell said that the political climate for reuse is getting easier with the ongoing drought. He felt that any cities interested in re-use should pay for the needed infrastructure. Our mission is to treat the water not to get water to the citizens.

Another regulatory finding over the next 10-20 years may be to lower total phosphorus removal limits less than the current 1.0 mg/L annual average, which may require chemical addition depending on the limit.

20+ years we may be looking at PFAS regulations regarding land applied biosolids. PFAS is a contaminate which could be found in biosolids. Incineration is promising but not yet a proven technology for total PFAS.

Identified deficiencies and Evaluated Alternatives - After meeting with staff, projects were identified and prioritized to address deficiencies. These projects were broken down into three different categories with cost estimates in today's dollars. 1-5-year projects estimated at \$11.3 million; 6-10-year projects estimated at \$116 million; 11-20-year projects estimated at \$96.6 million.

Mr. Worthen stated that there's quite a bit of coordination that still needs to be done. We need to determine where we want to go as a facility and what would be the appropriate time frame for some of these projects?

Mr. White said that with the combined RM&A funds of \$2 million each year, spread out over the next five years, we have enough funds to cover years 1-5. There shouldn't be a problem financially. It's year 6 that becomes a problem. Mr. Worthen said that was a good observation but not entirely true. If you look at the 10-year RM&A plan there are some items that are being replaced or purchased i.e. vehicles, pumps, etc. That money is programmed for other uses. Mr. White added that every time we get in to a project and run out of money we take it from the RM&A.

Mr. Knight said that "\$86 million for a thermal drying facility seems a little unreasonable. All this screams flow and load. I don't understand how capacity rights pays for this. How does capacity rights wear out thermal drying? How does capacity rights wear out most of this stuff? Just trying to understand."

Mr. Cowdell asked if thermal drying is something we still want to get into based on past experience. Mr. Worthen said that if reducing biosolids is our goal, and putting it in a form that can be re-used, is thermal drying the path we want to go down? This estimate is not to replace what we have but more geared to what JBWRF has, which is a belt dryer system.

Mr. Rawlings referred the board to a page included in the 2022 tentative budget which breaks down cost for capital projects by entity for years 2023-2032. He said that when we hold our work session we will need to discuss how the board would like to fund some of these items. An option to consider is increasing the annual amount for RM&A, or consider possibly bonding.

Mr. Knight said that if we're really going to fund these future projects, we need to be careful and keep our hands off of it. Mr. Worthen added "Especially if there is anything you're trying to build in the RM&A fund such as a \$5-\$6 million-dollar project in UV, you want to make sure the deposits are kept separate for that project." Mr. White said "That's where RM&A started many years ago. It was being held in a separate fund, it was to be annual, it was to accumulate. That's how we sold it to each of our member entities. We couldn't keep getting hit with these wide ups and downs every year. Let's equalize it out. It's intended to be there but we keep pulling it out. "

Mr. Worthen will spend more time over the next few months coordinating the RM&A 10-year plan with some of the items in the Capital Facility Plan. Mostly the 1-5-year projects.

Several board members will not be available for the October 20 board meeting therefore the meeting has been changed to October 13, 2021.

Insituform's Proposal to Extend Using Styrene Cure from Designated Location Going Under 7800 South to Gardner Village

Bowen and Collins received a request for information from Insituform asking to extend the area where they can use styrene cure and offered a reduction in cost for the work in the designated area.

Staff has been collecting samples to test the styrene levels at the pipe and the styrene levels when it gets down to the facility to be sure this will not affect the biological process. Staff is comfortable with accepting the proposal but will continue testing throughout.

Mr. Powell moved that the board accept Insituform's request to change the location where styrene cure liners are being used from the specified location south of 7800 South to the first manhole on the south side of Gardner Village. Mr. Clegg seconded the motion. All were in favor, motion carried.

Resolution No. 09/15/2021(A) Extension of Interlocal Agreement with Wasatch Front Water Quality Council

This agreement will extend the interlocal cooperation agreement between the participating agencies another five years.

Mr. Rawlings stated that this group does good work. In 2021 they supported SVWRF and JBWRF's request to have the Division of Water Quality change the designation of our section of the Jordan River from a cold-water fishery to a warm water fishery.

Mr. Kennedy asked if we're seeing a \$75,000 return on this. Mr. Rawlings said year to year, no. Long term, yes.

Mr. Kennedy asked if stormwater groups would benefit from participating which would also spread the cost. Mr. Rawlings said periodically a storm water representative would come but they don't typically get involved because the state is not pushing anything upon them yet.

Mr. Kennedy moved that the board adopt Resolution 09/15/2020(A) Amendment #3 to the Interlocal Agreement with the Wasatch Front Water Quality Council and direct the chairman to sign the resolution and the amendment. Mr. Powell seconded the motion. Roll call vote was as follows:

<u>Mr. Powell</u>	<u>"yes"</u>
<u>Mr. Kennedy</u>	<u>"yes"</u>
<u>Mr. Clegg</u>	<u>"yes"</u>
<u>Mr. White</u>	<u>"yes"</u>
<u>Chairman Knight</u>	<u>"yes"</u>

All were in favor, motion carried.

Resolution No. 09/15/2021(B) Adoption of the 2022 Tentative Budget

Mr. Rawlings highlighted a few items included in the SVWRF 2022 Tentative Budget.

1. Annual Merit increase 3%

2. 5% Cost of Living Increase
3. 10% increase for medical/dental insurance. Rates will be received in October and numbers will be adjusted accordingly.
4. Travel to the usual conferences

Overall, the O&M budget for the departments has increased approximately 6%.

Mr. Dunn passed out the tentative budget books and will also send an electronic copy to the board.

Mr. White moved that the board adopt Resolution 09//15/2021(B) the South Valley Water Reclamation Facility’s 2022 Tentative Budget as set forth in Appendix “A” and direct the chairman to sign the resolution. Mr. Powell seconded the motion. Roll call vote was as follows:

<u>Mr. Powell</u>	<u>“yes”</u>
<u>Mr. Kennedy</u>	<u>“yes”</u>
<u>Mr. Clegg</u>	<u>“yes”</u>
<u>Mr. White</u>	<u>“yes”</u>
<u>Chairman Knight</u>	<u>“yes”</u>

All were in favor, motion carried.

**Award Bid for
Landscaping Around
Project 5 Construction
Area**

One bid was received and it was by Stratton and Bratt for \$102,550, which is within the budget. The cost for this project will be paid through the existing 2021 operating budget.

Mr. Kennedy moved the board award the Project 5 landscaping to Stratton and Bratt in the amount of \$102,550.00. Mr. Powell seconded the motion. All were in favor, motion carried.

Consent Calendar

Items included on the consent calendar are as follows:

- Ratify Check Register: August 2021
- Approval of Minutes: August 18, 2021 Board Meeting
- Next Board Meeting Date: October 20, 2021 – Meeting has been changed to October 13, 2021

Mr. Powell moved to approve the consent calendar. Mr. Kennedy seconded the motion. All were in favor, motion carried.

**General Manager
Report**

There was no additional discussion.

Project Updates

Project 5 - RSCI has begun to man down. The grit building is not yet on line. We're continuing to work towards clean water testing. We will be operating all the equipment, controls, and instruments with clean water. We'll eventually start up a train and run wastewater. Pipe work is continuing. This work will continue through the remainder of September through most of October. Landscaping will begin around the grit building.

Thermal Drying Piping Project – This project is wrapping up. Representative with Dynamic Air are on site. This project should be finished this month.

CIPP Project – Sub Contractor with Insituform on site around the dump station area. Staff is working on a temporary route to the dump station so entities can continue dumping. Substantial completion for this project is scheduled to be next June, 2022, possibly sooner.

Mr. Cowdell reminded the board that the easement from Jordan Valley Water Conservancy District (JVWCD), allowing us to go on their property to continue the CIPP Project, included a \$40,000 non-refundable easement fee. He spoke with their attorney and one of their board member's and created an appeal letter which has been submitted to their board for consideration at their October board meeting.

Closed Meeting

There was no closed meeting.

Other Business

There was no other business

Adjournment

Chairman Knight adjourned the meeting at 2:08 pm.

Jerry L. Knight, Board Chairman

Belinda Patterson, Facility Clerk