

**SOUTH VALLEY WATER RECLAMATION FACILITY
BOARD MEETING
Wednesday, August 19, 2020
7495 South 1300 West
West Jordan, Utah 84084**

GENERAL SESSION	Chairman	Jerry Knight, Sandy Suburban Improvement
	Vice Chairman	Brad Powell, Midvalley Improvement District
	Board Member	Tim Heyrend, City of West Jordan
	Board Member	Craig White, South Valley Sewer District
	Board Member	Glen Kennedy, Midvale City
	General Manager	Lee Rawlings
	Assistant General Manager	Taigon Worthen
	Facility Clerk	Belinda Patterson (excused)
	Acting Clerk	Sherie K. Warner
	Attorney for South Valley Water	Tracy Cowdell
	Finance Director	Gary Dunn
	Bowen Collins & Associates	Brent Packer (Via Zoom Meeting)

ROLL CALL Chairman Knight called the meeting to order at 12:30 pm.

Roll Call:

Mr. Powell	“Here”
Mr. Kennedy	“Here”
Mr. Heyrend	“Here”
Mr. White	“Here”
Chairman Knight	“Here”

**CEREMONIES/
PRESENTATIONS/
PUBLIC COMMENTS** No ceremonies, presentations or public comments.

ENGINEER SELECTION FOR SOUTH TRUNK LINE REHABILITATION PROJECT Mr. Worthen gave a summary of the Engineer SOQ selection process stating there were four participants. The staff’s recommendation was to award the project to Bowen Collins & Associates requesting that Board authorize staff to negotiate a task order and agreement with them.

Mr. White moved that the Board select Bowen Collins & Associates for design and construction management of the South Sewer Interceptor CIPP Project and authorize Staff to prepare an Agreement and Task Order as appropriate pending review and approval by the Facility Attorney. Mr. Heyrend seconded the motion. All were in favor and the motion carried.

RATIFY AWARD OF UTILITY WATER PIPING PROJECT Mr. Worthen summarized the work and progress on the Utility Water Piping project stating that piping needed to be replaced facility wide and envisioned the entire project would take about a year to complete. He said the project was broken up into smaller pieces to minimize the impact. He said this portion

was started now to take advantage of the weather and anticipated it will continue through October. He reviewed the bid numbers stating that Hills Construction was the low bid and the next bid was \$64,000 higher. He said that Hills Construction has been mobilized and began replacing twenty-four yard hydrants around the clarifiers, one fire hydrant in the same area, and nine buried valves. He said that every valve that has been pulled out has been heavily corroded; the new valves being installed have a resilient coating to extend their life. He further expressed appreciation to the Board for allowing this project to move forward.

Mr. Cowdell also expressed his appreciation to the Board for being flexible and facilitating this project getting done.

Mr. Powell moved that the Board ratify the award to Hills Construction by the General Manager for the 2020 Yard Piping Improvements project in the amount of \$148,800.00 pending acknowledgement by the Facility Attorney to ratify award. Mr. Kennedy seconded the motion. All were in favor and the motion carried.

**APPROVE PROPOSAL
FOR PURCHASE AND
INSTALLATION OF
EQUIPMENT FOR
DIGITAL RADIO
SYSTEM**

Mr. Rawlings reviewed with the Board the Digital Radio System project emphasizing the need to upgrade the current system to a digital system. He further said this upgrade will allow SVWRF to tie into South Valley Sewer District to facilitate emergency communications. He said that this is sole source procurement. Recommending that the Board authorize the proposal from McIntosh Communication.

Mr. White asked why SVWRF published a sole source notice when the vendor is on the state contract.

Mr. Cowdell said that even though a vendor is on state contract there is always a chance a sole source acquisition could be contested. By publishing the notice it demonstrates good faith on our part and eliminates grounds for contest.

Mr. Kennedy agreed with Mr. Cowdell's statement and gave an example of Midvale City's negative experience using state contract vendors as a sole source without publishing a notice.

Mr. Kennedy moved that the Board authorize the General Manager to accept the proposal from McIntosh Communications for \$69,065.00 to provide and install the equipment needed to upgrade the radio system as described. Mr. Heyrend seconded the motion. All were in favor and the motion carried.

**DISCUSSION: REPORT
ON PHASE 1 OF
NORTHERN UTAH
REGIONAL BIOSOLIDS
DISPOSAL STUDY**

The Board discussed the five options presented in the Phase I report.

- Land application
- Composting
- Regional landfill
- Incineration
- Deep Earth Digestion

Mr. Rawlings said tipping fees for landfill disposal of biosolids are significantly increasing with contract renewals going up about 5% every year. He said the other issue with existing landfills is contractually they can control the quantity of biosolids they will accept or worse yet lose their permit would leave us without an option. This happened recently with Wasatch Regional Landfill, the largest operational landfill in the state, they asked that we reduce our loads because they didn't have enough other material to mix with it. This created an urgent need to find another disposal location. SVWRF is currently hauling some biosolids to Bayview, but Bayview is a fairly small landfill and will not be a permanent solution. He further said the other POTW participants also have unclassified biosolids which has to be landfilled. He further went on to address what disposal options the other study participants are exploring. He said that SVWRF currently thermally dries about 50% of its biosolids. This allows for one dryer to operate while maintenance is performed on the other drier.

Mr. Powell asked how purchasing landfill space would be viable when in thirty years we would be back in this place again trying to find a suitable location for biosolids disposal.

Chairman Knight asked what a regional facility would look like.

Mr. Rawlings responded that a process would be decided upon by the four participating entities, land would be purchased, possibly somewhere in the west desert, and then a facility would be built. He further said that each of the facilities have different and common needs, some have Class B, some have Class A, and all would have some volume of unclassified material. The only place to dispose of unclassified biosolids is in a landfill.

Mr. Kennedy said that his interpretation of the study was there were really only two viable choices, landfill or product. His concern was if there is no demand for the product then it is landfilled anyway. He referred to the situation in California where they have more product than demand and are now trying to figure out how to dispose of that material. Further, what if future regulations restrict what material can be put on the land.

Mr. Heyrend talked about the composting option, stating that there is a high demand for the compost produced by Timpanogas Special Service District. He further asked about a hybrid option using incineration to reduce the odors and volatiles and then adding it to compost.

Mr. Rawlings talked about the amount of greenwaste necessary to effectively compost the biosolids and then marketing of the product. He further said that Timpanogas SSD is only composting about 50% of their biosolids and because of a lawsuit they settled with the cities they will no longer be composting after October. He further talked about the pros and cons of composting, mainly the odor issue.

Mr. Heyrend talked about the costs of transporting compost vs. a landfill property purchase, which according to the study would be about 13,000 acres.

He further expressed his disappointment that the study didn't provide more detail on some of the options and the options presented weren't very impressive.

Mr. White talked about the efforts of SVSD to explore building a composting facility in unincorporated Salt Lake County near Copperton and said that idea was shut down before it even got started. He also said the landfill options are becoming problematic.

The Board continued to discuss the option for incineration, its complexity and the air quality issues it creates. They discussed the cost of transporting green waste and product to and from a facility in the west desert. Also the idea of a multi-use facility that might incorporate several of the options.

Mr. White asked what the best option was for SVWRF and can SVWRF Thermal Dry 100% of its biosolids.

Mr. Rawlings said he agreed with Mr. White that SVWRF has to evaluate the best options for the facility and talked about the ongoing exploration of options that could be done locally. He said the best option right now is to Thermal Dry 100% of its biosolids and find a resource to use the Class A product, but whether the existing equipment was able to dry 100% at 40 MGD was questionable. He then asked Mr. Worthen to address the status of Thermal Drying.

Mr. Worthen stated he thought Thermal Drying is viable physically but the existing equipment would need to be replaced to handle 100% at 40 MGD. He emphasized that even though the material is dry there is still an odor associated with it and the Board needs to be aware that what's needed to control the odor will cost as much as the process. He further said the Board needs to always consider the encroaching residential communities when expanding any processes at this site.

Mr. Heyrend asked if SVWRF has a carbon filter system in place.

Mr. Worthen said no, SVWRF currently burns it; a second option is to respire it up in the bioreactors, which will require further improvements. He said that this option had been tested on a small scale successfully and the intent is to head that direction for odor control. There are some equipment issues that need to be addressed but it is the lower cost solution.

Mr. White asked if the intent of SVWRF is to continue with Thermal Drying? If the intent is to continue Thermal Drying then there is a replacement cost for the aging equipment. Recalling the existing system has been plagued with problems from the beginning.

Mr. Worthen agreed with Mr. White about the difficulties SVWRF had in the beginning, and had it not been for certain individuals that worked hard to resolve the problems Thermal Drying would have been abandoned. He gave an overview of the historical problems with Thermal Drying and said that the

staff has resolved those issues and prefers that Thermal Dryer remain running.

Mr. White asked if SVWRF would keep it for the next 30 years?

Mr. Worthen said he doesn't have a crystal ball but that he does see Thermal Drying being a viable process at the current loads, with the understanding that expansion will require improvements to address odor control and the equipment will eventually wear out and need replacement. He further talked about the need in 10 years to replace 50 year old concrete in the bioreactors because it doesn't meet current environmental standards, or structural standards for seismic design, and the fact that the concrete is beginning to deteriorate and leak. When that work is evaluated the Board will have to decide to stay with the same process or change to an alternative process? He said the decisions regarding biosolids disposal hinge on those issues. Currently the Thermal Dried product is Class AQ, meaning it can be used as a fertilizer, in any top fill or land application, it can go anywhere, plus the volume of biosolids is reduced 7 ½ times with Thermal Drying.

Mr. White said If that is the direction we are going there needs to be a plan so that we don't get hit with a \$30 million bill.

The Board continued discussion on Incineration and Deep Earth Digestion determining they were probably not viable options, but would explore a multi-use facility.

Mr. Rawlings summarized the discussions on the five options presented in the Phase I study, emphasizing the viability, pros and cons of each.

Mr. Kennedy asked what the scope of Phase II would be and the cost.

Mr. Rawlings said that Phase II would provide more detail based on the direction we give them most likely to address availability of land, the cost to transport as it seems that is the best option for SVWRF. The cost to do Phase II would be about \$65,000 which would be split between participants in the study.

Mr. Kennedy asked if the other participants would want other options included in the study.

Mr. Rawlings said they would most likely want to add the composting option, but the group as a whole could exclude any of the options presented in the Phase I study that weren't viable.

Mr. White added that if other facilities participate in Phase II it would spread the cost as well as add another comparable facility to the mix.

Mr. Rawlings said Central Valley Water had expressed interest in participating in the Phase II study. He further said that the long term plan for SVWRF should be to dry 100% of its biosolids because any disposal plans have to

include transportation and the more we can reduce the volume the less it costs to transport. He also said that plans to expand the Thermal Drying process require space and the possibility of moving existing structures.

Mr. Heyrend said he thought we should continue with the Phase II study.

Mr. White recommended that a 30 year master plan be developed to address the needs of the facility before making a decision. He also suggested expanding the number of participants in this endeavor i.e. Central Valley Water.

Mr. Rawlings said originally the recommendation would have been to approve participation in Phase II of the study, but after review of the Phase I report he recommended the Board wait until further examination of the options presented and then decide in September if participation in the Phase II study would be beneficial.

Mr. Rawlings reviewed the issues from this discussion for follow-up.

**DISCUSSION:
PARTICIPATION IN
PHASE II OF NORTHERN
UTAH REGIONAL
BIOSOLIDS DISPOSAL
STUDY**

Chairman Knight deferred discussion on participation in the Phase II study until the September Board meeting. All were in favor.

**DISCUSSION:
EASEMENTS FOR
SOUTH TRUNK LINE**

Mr. Cowdell talked about the transfer of ownership of the South Trunk Line to SVWRF saying that the survey showed almost all easements were within the legal descriptions, with a few small issues that need to be resolved. He said there is a conveyance issue in how the entities should give SVWRF the easements or whether or not they should, and the complicated descriptions in the easements. He further presented three options on how to transfer the easements:

- Entities convey each of the easements to SVWRF
- Entities draft a license agreement for SVWRF's use of those easements.
- Entities abandon existing easements and have SVWRF re-obtain those easements from property owners.

He said saying that the easiest option is to draft a license agreement for SVWRF to use the easements. He said that the cleanest option is to convey each of the easements to SVWRF. He said there is actually a fourth option which is to do nothing.

Chairman Knight asked what the ramifications of doing nothing are.

Mr. Cowdell said that doing nothing is an option however because of the number and complicated nature of the easements it may be better to take this opportunity and clean-up the language and descriptions and convey those easements to SVWRF. He said he was seeking an opinion from Salt Lake County on the conveyance of the easements.

Mr. Worthen clarified some discrepancies on easement descriptions saying he was working on getting those discrepancies cleaned-up. He further said that South Valley Sewer District had already cleared up some of the discrepancies and provided vital easement information. He also said that Rocky Mountain Power is the primary property owner for much of the corridor with only three others to deal with, City of West Jordan and Gardner Village and UTA.

Mr. Kennedy excused himself from the meeting at 1:54 pm.

Mr. Cowdell said that SVWRF wants to GIS its ownership of the pipeline which can be done at a future date, but having the survey done was well worth the cost. He said that he and Mr. Worthen would work concurrently, Mr. Worthen on how the line would be rehabilitated and together on the legal issues to finalize the easements and provide the necessary conveyance documents to the entities.

Mr. White said if SVWRF wanted to go the conveyance route his entity is already primed for that.

**APPROVE CONSENT
CALENDAR**

The following items were included in the Consent Calendar:

- a. Ratify Check Register: June and July 2020
- b. Approval of Minutes: June 17, 2020 Board Meeting
- c. Next Board Meeting Date: September 16, 2020.

Mr. White moved to approve the consent calendar as presented. Mr. Powell seconded the motion. All were in favor and the motion carried.

**GENERAL MANAGER'S
REPORT**

Chairman Knight asked if there were any questions. There was no discussion on the report.

PROJECT UPDATES

Mr. Worthen gave an update on Project 5 saying the Bioreactor 3 punch list was continuing with cosmetic items but it is up and running with work on the Bioreactors expected to go through June 2021. RSCI's focus has been getting the 60" line in for the Grit facility with work expected to run through August 2021. He said that the project is on track but the most difficult part of the project will be tying in the line to the Bioreactor Splitter Box. He said the projected amount for change orders on Project 5 was \$1,000,000. The project is currently at \$240,000 in change orders and he has identified about another \$120,000, anticipating about \$600,000 overall for the project.

Mr. Worthen said the Utility Water Piping project is going well, just waiting on a timely delivery of the hydrants, if that happens they expect this project to be finished by October.

CLOSED MEETING

No Closed Meeting was held.

**LONG TERM
PLANNING**

There was no long term planning.

OTHER BUSINESS

There was no other business.

ADJOURNMENT

Chairman Knight declared the meeting adjourned. The Board was in agreement. Meeting was adjourned at 2:04 p.m.

Jerry Knight, Chairman

Sherie K. Warner, Acting Clerk