

MOUNTAIN GREEN SEWER IMPROVEMENT DISTRICT
5455 West Old Highway Road, Mountain Green, Utah 84050
Minutes of the Board of Trustees Meeting
Wednesday, April 8, 2020 6:00 P.M.
APPROVED

Board Members Present: (Chairman) Larry Nance, Zane Gray, Lannie Jolley, Taylor Nielsen and Nathan Hill. **Employees Present:** Kent Wilkerson (Manager), Heather Burger (transcriptionist) **Guests Present:** Cliff Linford

A. Call to Order: Chairman Nance welcomed everyone present then called the April 8, 2020, meeting to order at 6:07 P.M.

B. Prayer: Chairman Nance

C. Approval of Agenda: no objections declared.

D. Declaration of Conflicts of interest: None.

E. Approval of Minutes: Board members reviewed the minutes of the meeting from March 4, 2020, and discussed corrections to those minutes as follows:

1. Page 3, section 2, last paragraph: minutes to note that the council needs to approve the MWWP report at a future meeting.
2. Page 3, section 3, 2nd paragraph: Decision to ask Mr. Johnson to hay the ground in lieu of \$500 right of way access to the main line. No new action until the Master Plan is approved.

Member Hill made a motion to approve the minutes as corrected. Motion was seconded by member Gray. All voted in favor. Motion carries.

F. Public Comment: None

AGENDA ITEMS

1) Plant Expansion Update_Sunrise Engineering

Cliff Linford presented a matrix which evaluates the various sewage plant improvement options based on features determined by the board in a previous meeting in December. Robert Worley presented an explanation of the matrix and why the BNR option received the best rating. **BNR in a lagoon highlights:**

1. Lowest initial capital cost; cheapest option by 3 or 4 million dollars
2. Scored highest on the total cost for the build-out. (the cost that it takes to go from 1.5 MGD to 3.0 MGD)
3. Scored "decent" on the ease of expansion. It's a fairly easy option, but it's not quite as easy as the MBR.

4. operation and maintenance costs are all fairly close to one another, but the MBR was the highest cost. BNR had the best score in this category.
5. BNR scored the highest on repurposing of the existing lagoons because it keeps one of the lagoons in service during the first phase(1.5 MGD), and then requires a second cell to expand to 3.0 MGD.

Total Scores for each improvement option: 170-BNR, 131-MBR, 145-SBR, 124-Extended Aeration Process.

Member Nielson explained that the matrix scoring and categories were put together based on the input and discussion of the board and expansion committee. He also suggested that such a matrix could be made by the board/expansion committee or that adjustments could be made to the existing one presented by Sunrise Engineering. This point was reiterated by Robert Worley.

Robert Worley, member Nielsen, and Cliff Linford confirmed that deciding on an improvement option at the meeting was important in order for the plan to move forward because the decision affects which funding option the board should pursue.

Robert Worley said that both of the two cheaper improvement options would require the addition of 20 man hours per week. Both options scored lower than the MBR on aesthetics. They will look similar to what they look like now. Neither option will impede on the soccer fields, or further north than is there currently.

Robert Worley explained that all mechanical treatment plants will require sludge removal. It can be removed and delivered, by the operator, to local farms and other facilities that will not charge for drop-off.

Chairman Nance asked why sludge removal will be required when it is currently not required. Robert Worley explained that the current water treatment facility is a different process which allows some phosphorus and bio-solids to go into the river with the treated water. Removal of sludge prevents this from happening.

When the treatment plant reaches the full build-out of 1.5MGD it is estimated that 77 loads of sludge would need to be removed each year for the BNR and 69.7 loads on the SBR. These numbers may vary depending on the content of the waste water.

Member Gray asked why the water re-use wasn't investigated by Sunrise.

Robert Worley said that the water is owned privately and Mtn. Green does not have rights to reuse the water once it's been treated.

Manager Wilkerson explained that being granted rights for water reuse is still a goal for the master plan, but is not covered in the scope and budget of the current project planned by Sunrise.

Chairman Nance asked Which system requires the least training or expertise to operate.

Robert Worley explained that the MBR is the most complex system to operate. SBR second most complex, BNR and extended aeration tied for 3rd most complex. The BNR will have the lowest operation and maintenance costs.

Robert Worley explained that from the public's point of view the look and possible smell of all the expansion options will not likely change from current standard. The MBR is enclosed, so would be an improvement, but none of the options will cause a negative impact.

There was a public question about whether the sludge could be hauled out in slurry form. Robert Worley said that it absolutely could not be hauled to a landfill in a slurry form. It could possibly be hauled to a farm in a slurry form, but it would increase costs significantly.

Member Nielsen said that he is comfortable with the matrix as presented by Sunrise. Chairman Nance asked the board if anyone was uncomfortable with the matrix. All said that they were comfortable with the matrix and moving forward with Sunrise's recommendation for a BNR facility.

Member Nielsen made a motion to move forward with Sunrise and their recommendation for a BNR facility at 1.5 MGD, based on what had been presented. Chairman Nance seconded the motion. All voted in favor. Motion carries.

Cliff Linford confirmed that reports from Sunrise on the distribution system can be expected by the end of April, Capitol facilities by the end of May and impact fee could possibly be pushed back to June, but otherwise, end of May.

Chairman Nance asked when Manager Wilkerson would be finalizing his outreach. Manager Wilkerson said that it's basically complete and just needs to be added to the report. He explained that public outreach would be ongoing throughout the process of expansion.

Matrix included here per Chairman Nance's request:

Matrix



Selection Criteria	Possible Points
1 Phosphorous Rule	25
2 Initial Capital Cost (1.5 MGD Plant)	40
3 Total Build Out Cost (3.0 MGD Plant)	25
4 Ease of Expansion/Phasing	30
5 Aesthetics (Odor)	15
6 Aesthetics (Visual)	5
7 Ease of Operation	15
8 Operation & Maintenance Costs	20
9 Repurpose Existing Lagoons	10
10 Total Land Required	10
11 Water Re-Use	5
Total Possible Points	200

BNR in Lagoon		MBR		SBR		EA	
Lagoon Score	Scoring Comments	MBR Score	Scoring Comments	SBR Score	Scoring Comments	EA Score	Scoring Comments
20	will meet phosphorus rule... biologically will do some, but will need chemical addition to get all the way.	25	will meet phosphorus rule... biologically will get really close, but will need chemical addition to get all the way and as a precaution	28	will meet phosphorus rule... biologically will get really close, but will need chemical addition to get all the way and as a precaution	28	will meet phosphorus rule... biologically will get really close, but will need chemical addition to get all the way and as a precaution
40	\$ 13,144,000	33	\$ 22,720,000	33	\$ 15,591,000	28	\$ 18,662,000
25	\$ 4,600,000	37	\$ 6,700,000	34	\$ 7,300,000	3	\$ 10,500,000
20	2nd lagoon is already in place, need additional blowers, but piping mostly complete, need additional clarifier, need additional filters and UV, but piping in place, small amount of site piping to tie in second lagoon.	25	Most of the plant infrastructure needs to be constructed initially with additional filters added as expansion required. Need additional blowers, pumps, UV etc.	33	Need to add a second set of basins, interconnect piping, blowers, filters and UV.	33	Need to add a second set of basins, interconnect piping, blowers, filters and UV.
10	Open lagoons, clarifiers and digester, however due to the process they will be aerated and will minimize odor.	33	Totally self contained. No odor and limited visual impacts	30	Open lagoons, clarifiers and digester, however due to the process they will be aerated and will minimize odor.	30	Open lagoons, clarifiers and digester, however due to the process they will be aerated and will minimize odor.
2	Most impactful. Open lagoon, clarifier and digester	5	Totally self contained. No odor and limited visual impacts	3	open basins but smaller footprint to be open than lagoon	3	open basins but smaller footprint to be open than lagoon
12	Very simple to operate, similar to existing skill sets, need slightly more controls experience, and need sludge dewatering and haul off.	5	Most complicated. Complicated controls, sludge haul off similar to other options	10	Very simple to operate, similar to existing skill sets, need moderately more controls experience, and need sludge dewatering and haul off.	12	Very simple to operate, similar to existing skill sets, need slightly more controls experience, and need sludge dewatering and haul off.
20	\$ 358,000	32	\$ 450,000	28	\$ 374,000	29	\$ 369,000
10	Lagoon Number 2 would be used for first phase. Lagoon number 3 would be used for expansion to 3.0 MGD with some possible modifications to the lagoon.	3	None of the lagoons would be required. One of the cells could be used if desired for some redundancy, but that would cause the visual and odor scores to drop.	5	None of the lagoons would be required. One of the cells could be used if desired for some redundancy, but that would cause the visual and odor scores to drop. If used, then the effluent peaking could be used with clean water.	3	None of the lagoons would be required. One of the cells could be used if desired for some redundancy, but that would cause the visual and odor scores to drop.
6	Existing lagoons number 1 and 2 would handle full expansion. This is slightly larger than other option sizes.	32	Very small footprint.	9	Medium footprint required, but slightly larger than the MBR	9	Medium footprint required, but slightly larger than the MBR
5	treatment to get phosphorus low enough requires tertiary filtration, as a side effect, this would make re use easy. However study determined not to investigate this.	5	treatment to get phosphorus low enough requires tertiary filtration, as a side effect, this would make re use easy. However study determined not to investigate this.	5	treatment to get phosphorus low enough requires tertiary filtration, as a side effect, this would make re use easy. However study determined not to investigate this.	5	treatment to get phosphorus low enough requires tertiary filtration, as a side effect, this would make re use easy. However study determined not to investigate this.
130		131		145		124	

2) Will Service: Review Ordinance 2.01.2 Section1

Member Gray made a motion to put a 6 month stay on the manager's authority to issue any Will Serves, and to retain that authority for the board only, while the board prepares and discusses changes to the language of Ordinance 2.01.2 Section 1. Chairman Nance Seconded the motion. All voted in favor. Motion carries.

Manager Wilkerson concluded by saying that he had some ideas that he would present to member Gray and that something would be presented to the board at the next meeting to update the language in the ordinance. He also emphasized that this stay on the manager's authority would not prevent anyone moving forward in their various projects.

3)Will Service: Canyon View Commercial Subdivision

Manager Wilkerson highlighted that he has a conflict owing to his work in the past on Armormax with Cascade Civil. There should be no further conflict with sewer rights in the future. Manager Wilkerson is handing over the further subdivision civil work to Jason Thompson, but will remain involved until hand-over is complete.

The Canyon View Commercial subdivision would be an additional 7 ERUs. Manager Wilkerson explained that once the structures are built there is a provision in the will serve ordinance that allows the district to add/bill for additional ERUs should the water use prove to be more than what was originally approved.

Great Basin engineering was brought in to estimate the ERUs for the remainder of the subdivision.1 ERU per lot with the exception of the larger lot which is 2.

Member Jolley asked what Armormax does. Val Poll explained that they add security systems to vehicles. Parts are made off site, and simply assembled and installed on site. They serve private and public entities.

Member Gray wanted to know what the agreement is between the land holders, and if there is gravity flow for the design. Manager Wilkerson explained that the gravity flow line was approved with the Armormax site and Val Poll explained the agreement between land holders.

Member Nielsen expressed concerns about issuing a will serve without knowing the exact use of the lots in the subdivision. Val said that he is asking for will service approval with provision to add additional ERUs if needed. Manager Kent explained that the current ordinance calls for pre-treatment on possible undesirable commercial by-products. Member Nielsen proposed, and it was decided, that the developer should follow up with the board at

the time of building permit as to the specific use of the subdivision lots.

Member Jolley asked if the lift station has enough capacity to handle the additional ERUs. Manager Kent explained that there is currently enough capacity and additional capacity is planned for in the future.

Chairman Nance asked what the time frame is for the development of the subdivision. Val Poll said 6-8 weeks for Armormax and an additional 6 months for the remainder of the subdivision.

Member Hill made a motion to accept the will serve with conditions as per Manager Wilkerson's report. Member Nance seconded the motion. All voted in favor. Motion carries.

4) Memorandum of Understanding _ Wasatch Peaks Ranch

Vance Bostock of WPR provided preliminary drawings showing a possible physical sewage route to MGSID. He said that they are in talks with the state about making their own sewage treatment plant if need be. They are looking at the possibility of working with MGSID. Member Nielsen asked several questions that clarified that Wasatch Peaks is looking for a mutual agreement and understanding to work together in an efficient manner. All members were in favor of going forward with an agreement with Wasatch Peaks.

Chairman made a motion to accept the MOU with corrections made per Manager Wilkerson during the meeting. Member Hill seconded the motion. All voted in favor. Motion carries.

5) Executive Session - Personnel

Member Hill made a motion to move to a closed session to discuss the competency of an individual. Chairman Nance seconded the motion. All voted in favor. The board went into an executive session. Member Gray made a motion to go back into open session. Chairman Nance seconded that motion. All voted in favor. Chairman Nance noted that no conclusion was made during the closed session.

6) Wastewater Planning Program (2019)

Manager Kent presented a resolution for the board to adopt regarding wastewater use and planning for 2019. There were several corrections he presented and explained. Member Jolley made a motion to adopt resolution 2020-1 as corrected by Manager Wilkerson. Member Nielsen seconded the motion. All voted in favor. Motion carries.

7) Review Reports

Member Hill presented the auditor's report. He noted a check with only one signature. Manager Wilkerson explained that this was for an expenditure that could be backed with an invoice. Janet's signature is the one missing, and was most likely an oversight. Resolution was made by Manager Wilkerson for him and Janet to be more careful about signatures going forward.

In the managers report, Kent explained that the permit allowing the Sewer district to dump water into the Weber river has to be renewed every 5 years. Most things remained the same with this renewal with the exception that the state is requiring testing every 2 weeks rather than once per month as per a new state rule. BOD, TSS solids and most likely phosphorus are included in that test.

Member Gray questioned why there was a 0 amount for depreciation expenses for January-March. Manager Wilkerson explained that it was caused by an internal error on QuickBooks that needs to be fixed. Manager Wilkerson referred to the auditor's report to show that the amount is being paid into the account as needed. There was some further discussion about the need to correct the QuickBooks issue.

Chairman Nance questioned the expense of \$40,202.52 on the budget vs. year to date summary. Manager Wilkerson explained that it was to Sunrise engineering. He further questioned what was meant by the term 'sludge judge' Manager Wilkerson explained that he needs to go and test the amount of sludge in the lagoon to determine whether there needs to be a sludge removal.

As a point for the next meeting, Manager Wilkerson suggested that the board discuss billing on vacant properties as the ordinance on this issue is not clear.

Chairman Nance

said to go ahead with the Logo design suggested by Manager Wilkerson.

8) Board New Business

Member Gray would like to discuss obsolete information on the website, wording for ordinance 2.01.2 section 1, and formatting for existing ordinances. Chairman Nance specifically asked that page numbers be added to existing ordinances.

9) Motion to adjourn

Member Jolley made a motion to adjourn the meeting. Member Hill seconded the motion. The meeting was adjourned.

Signed:
