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34001 W. Jefferson Ave, Brownstown Township, Michigan 48173

### **Regular Meeting Minutes December 20, 2023**

The Board meeting was called to order by Chairman Tim Neighbors at 10:02am at the Brownstown Township Hall.

Roll Call:      Brownstown – Justin Danosky                      S. Rockwood – Art Wenzel  
                         Flat Rock – Eric Holtz                                      Gibraltar – Garrett Shumate  
                         Huron – Eric Scanland    Van Buren - Sharry Budd  
                         Woodhaven – Tim Neighbors

Also present: Dan Alford    Randy Pentiuk, Attorney  
                         Mark Houle, Jacobs    Nathan Callison, Jacobs  
                         Bill Davis, HRC    Lauren Fath-Azam  
                         Michael Landis, Gibraltar                                      Sean Bellingham, Van Buren

**Agenda:**      As presented.

#### **Minutes:**

Motion by Brownstown, second by S. Rockwood, to approve the Meeting Minutes from the November 22, 2023 Monthly Board Meeting. All Communities are present. Motion carried unanimously.

#### **Expenditures:**

Motion by S. Rockwood, second by Brownstown, to approve the November 2023 expenditures of \$1,140, 304.75. All Communities are present. Motion carried unanimously.

#### **Trial Balance and Budget to Actual as of December 31, 2023:**

Motion by Woodhaven, second by Brownstown, to approve the Trial Balance and Budget to Actual as of December 31, 2023. All Communities are present. Motion carried unanimously.

**Jacobs Report:**

Mark Houle reported that budget wise they are looking good. He notes that many items in the maintenance schedule will not be completed before the end of the year. A pipe lining company was chosen to begin the lining project on the sewer at the sink hole in the plant. The sludge pump was moved from Haag tank cell 2 to cell 3. Some issues with the fittings arose so Jacobs is looking for a better material to repair the connections. The pumps themselves show some unexpected wear and tear. With two days of hauling left Jacobs plans to pull the pumps and have Detroit Pump inspect them once hauling is completed. The benefits of LysteGro far outweigh the negatives per Mr. Houle. The Industrial Pretreatment Program inspection from the State went very well. The State requested Jacobs include minor updated rules and regulations in the sewer use ordinance, but this can be delayed until the sewer use ordinance needs major updates in the future. Mr. Houle continued to add that PFAS numbers in the plant have decreased.

Tim Neighbors inquired if each Community will have to provide a resolution supporting the the new language. Mr. Houle noted that yes, each Community will need to. Dan Alford added that SHVUA is waiting on a new NPDES permit as ours expired in 2022, and this permit will likely require updating the sewer use ordinance.

Nathan Callison thanked everyone who came out to the Innovative meeting. Mr. Callison wanted to make note that even though Lystek does come with its quirks it is nice to work with the Lystek system operationally in general. In November Jacobs attended the MiCareerQuest in Southeast Michigan to discuss why the Wastewater Industry is important and why it's a good career path for High Schoolers. Mr. Callison continued to report the regulatory activities for November. Normal routine storm water inspections were conducted and no issues were noted. Monthly spill and countermeasure inspections were conducted with no issues noted. Monthly plant flow data and precipitation was submitted to CDM Smith on December 11th. DMR and MOR was submitted on December 14th with no compliance issues received. 0.91" of rain was received and the EQ Basin was not utilized. The plant has been on 2 Aeration Tanks and Final Clarifiers since September 12th. Three Final Clarifiers were utilized on a couple of occasions. DTE removed the plant Generator and Dan Alford is in touch with the DTE representative to discuss further needs. Final Clarifier #1 is being filled today. 12-hour coverage continues with no issues. Lystek hauled 160,000 gallons of LysteGro to farm fields this month.

Dan Alford inquired with Mark Houle about an additional emergency generator, if it's required. Mr. Houle noted that the company he is speaking to has a suitable emergency generator available in case of an emergency.

Mr. Callison continued to report on page 59, Exhibit 1 the correlation between phosphorus, precipitation and influent flow. Exhibit 2 shows correlation between ferric usage and orthophosphate usage. Exhibit 3 shows NPDES permit limits and results. No issues noted. Jacobs did not sample or inspect any Industrial users in the month of November. Chemical and energy usage is higher than what Jacobs would like but is related to the CIP. Biosolids land application is going well besides some small aggregate "rocks" that found their way into the pumps which discharge the LysteGro. Hauling will again take place tomorrow. Mr. Alford inquired if Jacobs gave the rocks to Noah Bednar for investigation of any construction activity involvement. Jacobs

Intention is to go into the tank, clean and inspect it to see if a few rocks were accidentally kicked in as it is surrounded by gravel or if it's coming from repairs from Haag Tank 1. Bill Davis added that currently the source of the rocks is unclear. 160,000 gallons were applied in the month of November.

Randy Pentiuk asked about the biosolids summaries from table 2.1, and why the gallons and dry tons changed from 2021 to 2022. Mr. Houle replied that the dry tonnage relates to lime addition to achieve a Class B biosolids. Jacobs now uses about 1/10th of what they used to use as we are now a Class A biosolids facility. It was explained that we should discount the prior years and focus on the new numbers in 2023 as this will be the new normal.

Garrett Shumate added that he appreciated Jacobs' involvement in career outreach efforts and was wondering how he could help. Mr. Callison and Mr. Houle are very interested in building relationships with Schools and the Community.

**CDM Smith Billable Flow Report for November:**

Motion by S. Rockwood, second by Woodhaven, to receive the CDM Smith Billable Flow Report for November. All Communities are present. Motion carried unanimously.

**HRC Report:**

**Priority 1 & 2 Plant Improvement Project Update**

Bill Davis reported that construction is at 81% completion. HRC continues to provide construction observation and construction administration services throughout the month. Operational issues were identified with Final Clarifier #1 and was taken offline November 21st. Both the upper and lower seals were inspected at the center column. The contractor is working to implement the manufacturer's recommended adjustments to correct the seal alignment. Additionally, a leak was identified with the new Biotank #1 gate. The gate was repaired while the clarifier was offline. Start-up of the clarifier and the demonstration period is tentatively scheduled for December 15th.

The grit bypass system was installed with full bypass beginning December 4th. The grit tanks were recleaned and work within the tanks is moving forward. Working on getting ready to work on the concrete repair that needs to take place and are mobilizing. The VFD for the motor on Pump #2 has been successfully installed. HRC will now begin to work on Pump #3. Mr. Alford and Mr. Davis plan to continue discussions about the Odette Pump Station with the contractor. HRC continues to work with Jacobs and Mr. Alford on the sewer lining and is looking forward to getting it underway in January. Upcoming milestones include getting the Grit System online in early March with demolition beginning on Clarifier #4. The current schedule shows the project to be complete in July. Mr. Davis is working on a change order with the contractor and plans to present it at next month's board meeting. Mr. Callison added that on the project level it seems like things are moving more smoothly with the Contractors. The workers at the plant seem to be

working better and more collectively now. Mr. Davis agrees but added that there is still much to resolve and the board should understand the efforts Jacobs has had to go through to make things go smoothly. Mr. Pentiuk inquired when Heaney would be done. Mr. Davis believes they will be done in July.

**System Manager Report:**

Dan Alford thanked the Board for the opportunity he has had over this past year. Moving forward he will begin to utilize the email provided for the SHVUA website which is [system.manager@shvua.org](mailto:system.manager@shvua.org).

**SHVUA Representative from Gibraltar**

Mr. Alford noted that we have been notified that Mayor Shumate will be Gibraltar's representative moving forward.

**SHVUA Representatives and Alternatives**

Mr. Alford will inquire with each Community as to who is each Community's representative and alternative representative so that the Municipalities have the best opportunity to attend future meetings.

**2023 in Review/2024 Upcoming Activities**

Mr. Alford continued to report on the various items below:

- Construction, Operations and Flow Metering contractual oversight continues to be Mr. Alford's main focus.
- Much effort was spent interacting with the revolving contacts at DTE throughout the year. DTE expects the bridge work and electrical restoration to be completed at the end of January/early February.
- A Plant boundary survey was conducted this year. The existing fence line only included about one-third of the total property. Signage has now been added and will continue to be added around SHUVA's property to inform and increase awareness with the neighbors of the plant.
- In regards to the odor control investigation Lystek noted that the plant would only get a small amount of odor with the new LysteGro process but it has resulted in a very strong smell. HRC has done some baseline testing and is resizing the fan to determine the actual odor steady state rate. HRC and Mr. Alford are working together to form a solution.
- The Plant Water Tower Investigation showed that the water tower is still needed moving forward.
- Jacobs and Mr. Alford conducted research independently on Solar Power and how it could assist SHVUA. Mr. Alford learned that DTE currently charges SHVUA a

competitive rate so it isn't feasible for a 3<sup>rd</sup> party to finance and/or operate a solar power facility at this time.

- As it relates to Storm Event Management the Jacobs team and Mr. Alford have attempted to be responsive in the case of an Emergency and have handled the February ice storms and August storm and tornado events effectively.
- Website Management: Mr. Alford currently updates the website as information comes available including flows, board members, finances etc. Mr. Alford added that when he looked at Google Maps, the SHVUA plant was labeled as AECOM. He then made a correction to google maps to list SHVUA, which was viewed 20,000 times per Google.

Moving forward Mr. Alford continues with his involvement in the construction process, odor control project, Solar UV Generator proposed project, and the SRF project plan. HRC will prepare a proposal to update the SRF project plan during the second half of 2024 so that SHVUA has it for future CIP planning and funding that is needed. Mr. Alford noted that he will not recommend taking on a new project until existing bonds are retired so the communities rates will not be affected.

Jacobs administers the Industrial Pretreatment Program. SHVUA is required to regulate all industries that discharge into the collection system. As part of that our IPP fees have not been looked at in a while. Mr. Houle and Mr. Alford will be looking at those charges to see what increases need to be made. Mr. Houle added that Jacobs relies on the Communities to report if there is a new business in the area, if the owner changes or if there is a name change so that they become a permitted Industrial User.

Randy Pentiuik inquired if there is any impact on SHVUA from the recently proposed Old Countywide Landfill leachate facility that we will need to know about. Mr. Alford added that the proposal includes tapping into the SHVUA interceptor for the discharge from a bathroom and kitchenette only. So far on paper it seems like the PFAS and sewer would be separated. Michael Landis added there would need to be authorization and to be monitored. They will also be issued their own NPDES permit. Mr. Alford believes that the risks are minimal and EGLE is improving the plan. The take home is that if the worst things happen at the new facility, it would go back to how things are today. Mr. Alford is currently waiting on a revised set of drawings. Once the permit is drafted they will come back to the board to present it.

Tim Neighbors thanked Mr. Alford for his communication, efforts and experience this year tackling various issues and projects.

**Attorney Comments:**

Echoing earlier accolades, Randy Pentiuk truly believes that the SHVUA team in place is very solid. In regards to the Innovative Meeting-cyber security he feels comfortable that Jacobs has things nailed down. Mr. Pentiuk was impressed by Todd Williams' presentation about PFAS. Other than that he and his team are working on insurance claims, monitoring legislation and grant opportunities.

**Other Business:**

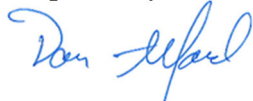
Tim Neighbors thoroughly enjoyed the Innovative Meeting and he thanked Jacobs for hosting.

No other business was presented at this time.

**Adjournment:**

Motion by S. Rockwood, second by Woodhaven to adjourn the monthly SHVUA board meeting at 11:38 pm. All Communities are present. Motion carried unanimously.

Respectfully submitted,



Dan Alford, PE  
System Manager