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34001 W. Jefferson Ave, Brownstown Township, Michigan 48173

Regular Meeting Minutes October 18, 2023

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

Roll Call: Brownstown – Roxie Fairchild S. Rockwood – Art Wenzel
 Flat Rock – Eric Holtz Gibraltar – Scott Denison
 Huron – Eric Scanland Van Buren - Sean Bellingham
 Woodhaven – Tim Neighbors

Also present: Dan Alford Randy Pentiuk, Attorney
 Mark Houle, Jacobs Nathan Callison, Jacobs
 Andy Mechel, Jacobs Bill Davis, HRC
 Lauren Fath-Azam Michael Landis, Gibraltar
 Alisha Watkins, Plante Moran Scott Mangold, Jacobs

Agenda: As presented.

Minutes:

Motion by Gibraltar, second by Brownstown, to approve the Meeting Minutes from the September 20, 2023 Monthly Board Meeting. All Communities are present. Motion carried unanimously.

Expenditures:

Motion by South Rockwood, second by Woodhaven, to approve the September 2023 expenditures of \$1,113,0521.63. All Communities are present. Motion carried unanimously.

Budget to Actual and Trial Balance as of September 30, 2023:

Motion by Van Buren, second by S. Rockwood, to approve the Budget to Actual and Trial Balance as of October 31, 2023. All Communities are present. Motion carried unanimously.

Jacobs Report:

Mark Houle reported that September was a good month. Hauling started October 2nd. Total spending for chemicals will be around 55% of the allotted budget. There will be no cost for landfilling this year. Being innovative as things come helps to keep things running smoothly. Last month's Jacobs' Project Manager Summit meeting went well and Mr. Houle was thankful to have Dan Alford and Tim Neighbors in attendance. Jacobs staff received an award for reinventing tomorrow. One issue developed with the flow meter; the sludge hauler needs to coordinate with operations so it's imperative to get the meter working which Noah Bednar is working on. In regards to PFAS, Jacobs is on a monthly sampling plan because of prior numbers. PFAS does not seem to be coming in but is still currently at the plant. Willow Run airport went from discharging 200 parts per trillion to non-detectable due to the implementation of brand new activated carbon and Jacobs' demand of 80% reduction. The key is to now make sure they are changing it out. Biosolids will be sampled in January. Mr. Houle conducted an in depth analysis on molybdenum coming in and out of the plant and in the sludge. Based on calculations based on influent and effluent Mr. Houle was able to calculate where sludge should be at. The work that he did on the local limits is protecting SHVUA from molybdenum.

Nathan Callison reported that September was a good month. Stormwater inspections were conducted on the 6th and 20th. On the 29th monthly spill prevention control and counter measure inspections were conducted with no issues noted. Flow data, system precipitation and Quala Wash flows were submitted to CDM Smith on October 5th. PFAS sampling results were submitted to EGLE on October 12th. Jacobs did not receive any compliance communication from the state. The plant received 1.49" of precipitation and did not utilize the EQ Basin this month. On September 12th the plant was back down to two Biodecks. It is important for sustainability to only utilize what is necessary and a third biodeck costs about \$700/day in power. SFE water for the pump seals was turned back on September 6th. During power outages the plant is unable to run the SFE pumps. Jacobs made the decision to move to industrial water to maintain the pump seals. Jacobs is looking to install an air compressor unit as a solution. The full plant generator is still onsite. Primary Clarifier #1 construction is moving along. 12-hr coverage continues and Jacobs preemptively staffs the plant as needed. Sludge hauling has begun. Exhibit 1 shows phosphorus, system precipitation and influent flow. There was 1 large spike in phosphorus which was due to a plant shut down to install the plug on the Clarifier 1 on the effluent. Exhibit 2 shows the average ortho phosphorus reading relating to ferric chloride feed rate. Exhibit 3 shows all compliance data. Jacobs sampled various industrial users including: Brose, Wayne Disposal and FMC. No industrial users were inspected. Exhibit 4 shows chemical and energy usage for the month. Currently land applying biosolids. LysteGro production is at 160,000 gallons and the plant is on schedule to produce around 1,800 dry tons each year.

Andy Mechel reported that the collection system is moving along with inspections and manhole replacements. Jacobs needed to locate them in Brownstown along Streicher Road. Trenton Arm has had no major issues. The generator was repaired from the storm issues. The VFD should be shipped Friday and put back in. In regards to Odette PS, the back-up UPS stopped working over

the weekend. A temporary power strip was installed and a new UPS was ordered. Mr. Callison added that new Operating procedures have been implemented to avoid future issues. Mr. Mechel continued to report that cleaning and painting is almost completed. Lystek replaced the level sensor as the new sensor does not work. P104 continues to be worked on. Currently Jacobs has been using P105 mixing pump to transfer sludge. The influent valve on Biodeck 1 has been installed. Lighting in the tunnel has been repaired or replaced. PM's and work orders have been done in a timely manner. The budget total is looking good. Focus continues on housekeeping and helping to move the construction project along. Activities for this month include continuing with primary clarifier evaluations. Mr. Mechel notified the Authority that he is not aware of to the finish date of the repair on the elevator. He continues to gather quotes on the sink hole and recycle pipe repairs. The sludge pump was pulled as it apparently sucked something up. Pieces of wood were seen at the farm field. Mr. Houle asked Lystek to get photos to him to see what was going on with Haag Tank #2. Pumped out 900 plus gallons this past month. Trucks were being filled up in the normal time but something now seems to be an issue. Tim Neighbors inquired as to how to address this issue of filling up trucks if this pump goes down. Dan Alford added that they cost about \$70,000 each and they are only used for so many hours through the year and there should not have been debris in the tank. From a construction standpoint they will look to see if it is jammed and if so, remove it and carry on. Mr. Neighbors inquired about the cost of the sinkhole. Mr. Mechel noted that one of the quotes came in at \$63,000 which includes bypass pumping only if the contractor can use a pump that is 4" smaller. Mr. Alford is expecting a plan from Jacobs moving forward. Mr. Mechel continued to report that Miss Dig is still moving along. Numbers have been increasing and Communities have been utilizing Miss Dig for water line inspections. Sustainability has been moving along with saving energy and recycling. Mr. Houle added that the Huron River Watershed Council concluded their river sampling season and thanked Jacobs and the Authority for their help.

Scott Mangold added that Huroc park was cleaned up from Jacob's staff members who attended the Summit. An F150 was filled up with debris. The park was left in better shape than when they arrived. The last of the information needed to apply for grant money for the UV solar project was received through EGLE. As Mr. Mangold mentioned last month EGLE made changes to what projects are eligible for the grant money. Jacobs will apply regardless to see what they have to say. In addition Jacobs' internal grant contact added that the Authority may be able to receive money from the Department of Energy section 48 tax incentive. That program could give this UV solar project up to a 50% tax credit over the cost of the installation. An internal meeting will take place Oct 24th and Mr. Mangold hopes to find out how to apply to that program. In regards to the Innovation meeting he hopes to have it on December 12th, 13th, or 14th. Mr. Mangold will send out an agenda and finalize a date within the next few weeks. Tim Neighbors added that SHVUA won the Partner of the Year Award and he will bring it to the next meeting to share.

CDM Smith Billable Flow Report for September:

Motion by Van Buren, second by Woodhaven, to receive the CDM Smith Billable Flow Report for September. All Communities are present. Motion carried unanimously.

HRC Report:

Priority 1 & 2 Plant Improvement Project Update

Bill Davis reported that construction continues. Construction Progress is at 79% completion. Installation of the new equipment in Clarifier #1 is essentially at 100%. Currently HRC is waiting on the manufacturers schedule to get out to confirm installation is up to standards and installed properly so commissioning can be scheduled. In regards to the Grit System demolition continues on the West grit tank. It is proving to be more effort than the contractor initially anticipated and as a result impacted the schedule for the upcoming bypass for the upcoming installation for grit equipment. HRC continues to work on the flow bypass plan with Mr. Alford and Jacobs. HRC is looking to start in early November but given the time with the demo it's still up in the air. The contractor for Pump 4 came back out and remounted an intermediate shaft bearing and was able to get it started up again. The vibration on the shaft has been corrected. A few SCADA issues are being addressed before both the SCADA and VFD are considered substantially complete. Minor painting continues on the process piping. Site work continues to work on pavement joint crack sealing on existing pavement. As far as the Odette Pump Station HRC continues to work with Mr. Alford and Heaney on the pump failure claim issue and their additional work and time delays at Odette. Mr. Davis and Mr. Alford attended a meeting with the Contractor to discuss some claims. He had anticipated that Heaney would be submitting a more comprehensive delay claim regarding Clarifier #3. Currently the Contractor is not in a position to submit that claim yet. They are waiting to see the actual time delay before submitting it as it is still unknown. Mr. Davis added that there may be time to resolve some issues. Time will be the one thing that will be pushed. In regards to the sink hole at the truck loading station Ground Penetrating Radar Systems (GPRS) came out and surveyed the area. GPRS identified two spots where there are voids under the pavement. As they get into relining of the pipe, the pavement will most likely need to be opened up but the pavement over the pipe doesn't seem to be under stress currently. Mr. Neighbors inquired if the ground penetrating radar can locate pipes as well. Mr. Davis added that there are a lot of unknowns and is a useful tool but hard to find very specific definitive information. Mr. Alford added that this equipment is a potential thing to look at but agrees with Mr. Davis. GPRS picked up what they believe is to be a void and estimated it to be about a foot deep but are still not positive. Regarding Lystek they were out to work on some of the warranty work and are proving to not be fully resolved yet. As work continues on the emptying of the Haag tanks HRC will be working with Jacobs to get the fan installed and get additional air testing to pinpoint the level of treatment they are potentially going to need. Upcoming milestones include getting P4 resolved with SCADA issues, getting Clarifier #1 up at the end of the month or early November, and get into the shutdown of the bypass of the Grit removal system. The Contractor's current schedule still shows them to be completed in July of 2024. Mr. Davis is working on a change order to address a budget increase HRC needs to get them through completion of the project.

Change Order 11

Motion by Woodhaven second by Gibraltar to approve an increase to Heaney General Contracting, Inc.'s total construction contract amount by \$111,655.69 from the current contract amount of \$20,736,519.42 to the new amount of \$20,848,175.11 and the Chairman to execute it on behalf of the Authority. All Communities are present. Motion carried unanimously.

System Manager Report

CDM Smith Contract for Flow Metering Analysis and Maintenance

Dan Alford reported that from his standpoint CDM Smith has done a great job in regards to analysis and responsiveness and he has pushed them hard on the cost. CDM came to Mr. Alford

and proposed changing subcontractors in the contract to offer SHVUA savings. The proposal amount went down \$11,000 from the previous annual cost in spite of five years of inflation. Mr. Alford added that they have done a good job at providing a competitive price. Mr. Alford is comfortable with CDM's proposal and believes it's competitive. Although CDM's cost per hour went up 20% the total hours decreased 25% as CDM Smith sent most of this work to subcontractors. Next month the Board can make a motion to move forward with the contract. The current contract goes through December.

Following up with the Wayne County Emergency disaster declaration, Mr. Alford reported that the Wayne County Deputy Director of Emergency Management is still currently waiting on FEMA Region 5 to see if the dollar threshold is met. Mr. Alford also inquired about basement and flooding claim data. The Director mentioned that he will get it to Mr. Alford. Mr. Alford added that it will be complicated in getting other data. Eric Holtz inquired if Mr. Alford needed their city records. Randy Pentiuk added that he would also be interested in seeing the records. Michael Landis noted that they are in the range of 40-45 homes but their MML carrier denied it.

Lastly Mr. Alford added that they had a meeting with Heaney and no headway was made. He notes that the tone seemed better. Biweekly meetings will be held in efforts to make some resolutions in hopes that in the next few weeks progress will be made.

Attorney Comments:

Randy Pentiuk added that claims have been submitted to Heaney's insurance carrier. Heaney's and two of the subcontractors' insurance adjusters are still investigating. Hanover from PPE denied the coverage and refused to forward SHVUA the deny letter. Mr. Pentiuk added that he would inquire into other potential insurance claims such as: the Trenton Arm PS emergency generator failure and the lightning damage at the Blower building.

Other Business:

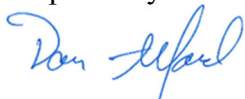
Mr. Neighbors added that for the next meeting on November 22nd all board members will need to be in attendance.

No other business is to be presented at this time.

Adjournment:

Motion by S. Rockwood, second by Woodhaven to adjourn the monthly SHVUA board meeting at 10:59pm. All Communities are present. Motion carried unanimously.

Respectfully submitted,



Dan Alford, PE
System Manager