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34001 W. Jefferson • Brownstown Township, Michigan 48173

Regular Meeting Minutes December 21, 2022

The Board meeting was called to order by Chairman Tim Neighbors at 10:00am at the Brownstown Township Hall.

Roll Call: Brownstown – Justin Danosky Flat Rock – Eric Holtz
 Gibraltar – Scott Denison Huron – Eric Scanland
 Van Buren - Sean Bellingham Woodhaven – Tim Neighbors
 S. Rockwood – (Absent)

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

Agenda: As presented.

Minutes:

Motion by Brownstown, second by Van Buren, to approve the Meeting Minutes from the November 23, 2022 Monthly Board Meeting. All Communities are present besides S. Rockwood. Motion carried unanimously.

Expenditures:

Motion by Van Buren, second by Brownstown, to approve the November 2022 expenditures of **\$999,209.35**. All Communities are present besides S. Rockwood. Motion carried unanimously.

Trial Balance and Budget to Actual as of December 31st, 2022:

Motion by Flat Rock, second by Van Buren, to approve the Trial Balance and Budget to Actual as of December 31st, 2022. All Communities are present besides S. Rockwood. Motion carried unanimously.

Jacobs Report:

Mark Houle reported that this year the plant has used the least amount of energy and ferric chloride compared to prior years. In regards to the amendment to the contract for this year coming up it doesn't include the cost of chemicals since SHVUA pays for many chemicals directly. Jacobs is running on 2 gravity thickeners out of 4. They are now caught up on solids production and 2 to 3 weeks ahead. The Polymer pump is out and a new pump is coming in today.

Dan Alford asked if Mr. Houle could speak about Exhibit 7. Mr. Houle added that working with Mr. Alford, he was able to be more detailed with major equipment as you go through the plant. The table will be updated periodically and shows various equipment in its current operational status.

Firooz Fath-Azam noted that in regards to Exhibit 4 there should be a wet ton for LysteGro. Mr. Houle agrees to add a column to include those numbers.

Nathan Callison brought to the board's attention that with BOD's there is a minimal required percent removal and since BOD testing requires 5 days of incubation, Jacobs didn't catch the violation right away. Jacobs response was to bring all BOD's in house. Once Jacobs did that they realized that the water in the plant was not up to standards for testing. Now Jacobs is installing a state of the art lab water system which is being installed today. In the meantime Jacobs has purchased water for testing in house. All permit limits were met for the month of November. Stormwater inspections were conducted on the 2nd, 14th and 30th. Monthly spill prevention control was conducted on the 30th. Flow and precipitation data was submitted to CDM Smith on the 2nd. DMR and MOR data was submitted on the 15th. Received 1.48" of precipitation. The EQ Basin was not utilized and the plant is still operating on 2 Biodecks since June 4th. Primary clarifier #3 is still under construction and should wrap up shortly. 12-hr coverage continues without any issues with after hour staffing of the plant as needed. The last load of sludge went to the landfill on the 28th of October with land application completed in November. Exhibit 1 shows flow precipitation phosphorus with one large spike. The spike was a result of a water line burst which took out the blower for a few hours. Mr. Callison noted that Jacobs continues to manage chemical usage. It is a balancing act to minimize the cost of chemicals but staying right under permit limits. Exhibit 2 shows all NPDES permit limits for the month. The Lab water purifying system is being installed today. Jacobs sampled Fons, Quala Wash, Flat Rock Metal, Ford Woodhaven, Wayne Disposal, Grand Trunk Railroad and Arsenal Rd Landfill. Jacobs inspected Flat Rock Metal and Grand Trunk. Exhibit 3 shows chemical and energy usage. Ferric Chloride usage is low. Jacobs continues to minimize chemical and electrical usage. 1.59 Million gallons of LysteGro were land applied this year. Expecting sludge cells 3 and 4 to be completed

by March. Cell 1 is being filled up and will switch to cell 2 soon. Cells 3 and 4 are needed to avoid dewatering and landfilling. 158 dry tons of LysteGro were produced in November.

Andy Mechel reported that cleanings and inspections will not take place this year but will resume this Spring. Pump Stations are running well. The fence will be installed in January. Painting and cleaning continues. Jacobs is finishing up with Primary Clarifier #1. Major SCADA cables in the Administration building have been ran and Jacobs is getting ready for the network changeover. The new driveway up to the EQ Basin has been completed. In regards to CMMS; all PMs and work orders are being completed as timely as possible with the maintenance budget coming in low to allow room for Biosolids costs. Jacobs continues to work with HRC and Heaney so that the project goes smoothly; as well as working on the heating in the admin building as problems arise. Upcoming items include the installation of the new water system, the installation of the sump pump and discharge for the Elevator shaft, and plant wide heating and system evaluation of all heaters to avoid any freezing of water lines. The switchgear breaker rebuilds should happen soon as parts have been ordered. PM on new switchgear batteries. Thickener #4 is somewhat in service and ready to go. Mr. Mechel also noted that training is also ongoing.

Scott Mangold handed out USB drives to any who were interested in seeing the recent PowerPoint from the recent Innovation meeting.

CDM Smith Billable Flow Report for November:

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

Dan Alford noted that at the Technical meeting it was brought up that 2 meters did not calibrate right away. CDM conducted multiple die tests. Mr. Alford was persistent that the meters needed to work correctly, especially being brand new. SH-6 most recently has not been working. CDM moved the level sensor and then it started working within 5%. SHVUA received a bill for the time spent to fix the new meters but Mr. Alford insisted that they should not be billed for this time. As a result SHVUA will receive a credit/refund for the prior bill sent. Both meters are working correctly now and no additional testing is needed.

HRC Report:

Priority 1 & 2 Plant Improvement Project Update

Bill Davis updated the board on the progress of the Plant Improvement Project. HRC continues to provide standard construction, administration and observation services. The project is now 59% complete. This month work continued on clarifier #3. The scum beach was installed and the continuation of construction of the SEL panels. The HVAC system is still being worked on. Air balancing is yet to be done. There has been good progress in the Haag Tank. Concrete work has been completed in cells 3 and 4 and HDPE piping is installed and tested. Work continues on the containment truck loading area. Completed the rest of the containment sewer and installed the pavement curbing. The hope is that cell 3 will be turned over to the plant in January. Need to

resolve and repair the joints in the panels in cell 4. Work continues on the grit washer as contractors continue to work on it as filler work. The generator was commissioned and training completed last week. Other items of work include architectural repairs and replacing brick/repairs. Lystek was out and completed warranty work in November. The boiler, SCADA and centrifuge issues have been resolved. The remaining items that need to be resolved before final completion are ongoing. Lystek has been onsite to assess and correct the issue.

Upcoming milestones include the completion of Lystek and HVAC work. The hope is to get all the SEL panels installed in Clarifier 3. Mr. Houle inquired how everything affects the overall schedule. Mr. Davis noted that he doesn't believe this affects the timeline as the repairs for the clarifiers are shorter in duration compared to previous plans. VFDs are still uncertain at this time and are still experiencing supply chain issues. A plan is in place if the VFDs do not arrive on time.

Informational Only - Construction Authorization No. 1

Mr. Davis is seeking the chairman's signature on the construction Authorization No. 1. Mr. Davis added that HRC continues to review some outstanding resolutions and plans to bring some change orders to the Board at the next meeting.

System Manager Report:

New System Manager Training Update

Firooz Fath-Azam reported that the transition is going well. Three areas that Mr. Fath-Azam focused on with Mr. Alford were: 1. Getting familiar with the plant. 2. Preparing the packet and sending it out. 3. Maintaining the SHVUA website.

Construction Change Order #4

Dan Alford brought to the board's attention that HRC is working on catching up with past work changes and has not agreed upon payment to the contractor to date. These are 2 unilateral change orders. The underlying reason is that Bill Davis has tried his best to push Heaney and they have not budged. Heaney is trying to add an 11% markup on top of the 15% that's allowed. The thought is to follow the contract with the below change orders. Regardless of additional costs SHVUA is still 3% below the original cost.

Mr. Davis added that the large construction contingency was removed from the individual contract of Lystek and Heaney and the contingency money was kept off to the side and not kept with the contract. There is still a contingency and these change orders will not be eating into that contingency yet.

Motion by Gibraltar, second by Woodhaven to increase to Heaney General Contracting, Inc.'s total construction contract amount by \$94,665.09 from the current contract amount of \$20,234,286.26 to the new amount of \$20,328,951.35 and the Chairman to execute it on behalf

of the Authority. All Communities are present besides S. Rockwood. Motion carried unanimously.

Construction Change Order #5

Motion by Brownstown, second by Flat Rock to approve an increase to Heaney General Contracting, Inc.'s total construction contract amount by \$99,075.14 from the current contract amount of \$20,328,951.35 to the new amount of \$20,428,026.49 and the Chairman to execute it on behalf of the Authority. All Communities are present besides S. Rockwood. Motion carried unanimously.

Attorney Comments:

Randy Pentiuk inquired if we received an elevator invoice. Mr. Mechel noted that MLL has paid the first half and MLL will pay the remaining amount upon completion.

Mr. Pentiuk continued to report that with the chair's assistance they continue to reach out to Congress Dingell's office.

Other Business:

Mr. Fath-Azam was presented an award at this time from the board for his dedication and hard work. The board wishes him the best in his retirement. No other business is to be presented at this time.

Adjournment:

There being no further business to come before the Authority, the meeting was adjourned at 10:47 a.m.

Motion by Gibraltar, second by Woodhaven to adjourn. All Communities are present besides S. Rockwood. Motion carried unanimously.

Respectfully submitted,



Dan Alford, PE
System Manager