



**MINUTES OF THE REGULAR MEETING
OF THE BOARD OF TRUSTEES
OF FOX METRO WATER RECLAMATION DISTRICT
HELD WEDNESDAY MAY 24, 2017**

The Board of Trustees met in a regular monthly meeting at 9:30 A.M. in the offices of the District at the Water Pollution Control Plant on Wednesday, May 24, 2017. Present were, Trustee Judith S. Sotir, Trustee Michael C. Funkey, Trustee Albert E. Heriaud, Trustee Christopher F. Childress & Trustee James K. Detzler. Also present were Attorney Gregg Ingemunson, Manager Thomas F. Muth, John Frerich from Walter E. Deuchler, Controller Jimmie Delgado, Human Resources Coordinator Patrick Divine, Operations Supervisor, Joel Ilseman, Plant Manager Matt Woodin, and Norma Rodriguez.

10021 The bills were presented and read. It was moved by Trustee Funkey that the bills be allowed as read, ratify and approve the checks drawn during the month of April, 2017 in the amount of \$5,136,634.26. Motion was seconded by Trustee Heriaud, put to vote and unanimously carried that the bills be paid as presented.

10022 It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that the Treasurer's Report for April, 2017 be approved as submitted.

10023 It was moved by Trustee Funkey, seconded by Trustee Heriaud, put to vote and unanimously carried that the minutes of the May 3, 2017 Special Board Meeting and the April 19, 2017 Regular Board Meeting be approved as published each of the Trustees having received and read copies of said minutes before the meeting.

In Public Comments Board President Sotir on behalf of the Board of Trustees Congratulated, Operations Supervisor Joel Ilseman for receiving the William C. Hatfield Award at the Illinois Wastewater Professionals Conference in Springfield, IL. This award was created to acknowledge an operator of a wastewater treatment plant for outstanding performance and professionalism.

Also at the conference, employees from Fox Metro's Laboratory Department competed in the Operators' Challenge. Trustee Sotir congratulated Christina Smith for receiving first place in Laboratory and Sue Glavan for being the overall winner for Operators' Challenge 2017. The District is very proud of these individuals and their accomplishments and today they were recognized for their hard work and dedication.

Trustee Sotir also acknowledged Plant Manager, Matt Woodin and District Controller, Jimmie Delgado for completing their Master's program in Business Administration and obtaining their degrees.

With no other Public Comments it was moved by Trustee Funkey, seconded by Trustee Heriaud, put to vote and unanimously carried that the Regular Board Meeting be temporarily adjourned for the Committee of Local improvements.


The Regular Board Meeting adjourned at 9:45.M.

In the Committee of Local Improvements Manager Muth gave a presentation updating the Board on all the construction projects currently taking place at the District. He began with an overview of Operations Updates and Improvements. In Operations, the April 29-30, 2017 rain event, the plant received more than 4 inches of rain and it resulted in the plant treating over 140 million gallons per day at storm peaks. Over 78 million gallons were processed through Building T (Weather Flow Facility) which prevented overflows into the Fox River. Prior to the construction of Building T in 2012 the plant experienced many overflows per year. Manager Muth gave a history of average overflow events from 2007 through 2017. In 2007 there were 10 overflows, 23 in 2008, 14 in 2009, 11 in 2010 8 in 2011. Implementation of Building T going on line was in 2012 and there were zero overflows that year, in 2013 there were 2, in 2014 there were zero, in 2015 there was 1, in 2016 and 2017 there were zero overflows. This is a tremendous accomplishment.

The next project that was discussed was the D-3 Clarifier. All the replacement Mechanisms are currently being constructed and will be delivered in August. We plan to request to advertise for bid in June to resurface the bottom of the tank that is disintegrating. The last time this tank was resurfaced was when it was first constructed in 1978.

The next project is Chlorination Improvements. A new bridge was constructed over the chlorine contact tanks and the mechanisms on the bottom of the chlorination tanks were removed. New piping was constructed to create a high pressure system to remove the solids and flush the tank. The old mechanisms were not efficient. Five valves were replaced and pumps are currently being manufactured. These pumps will be installed in Fall 2017.

The next project is the stabilization of the Outfall. There is significant erosion of Fox River Bank at the effluent outfall. This is due to pushing more flows through the plant. The average flows through the plant used to be approximately 90mgd and now the plant pushes approximately 150mgd. The erosion has happened during the last five years but more dramatically lately due to the high flows the plant has been receiving. This erosion is jeopardizing a storage facility that was constructed by River City Construction as part of the North Plant Improvements. What is currently being proposed to correct the erosion problem is: To prepare engineering plans and



there are also many permits that need to be obtained from different agencies to perform the work that needs to be completed in the river. Construction will begin in July 2018 and the project is scheduled to be completed in September 2018.

Manager Muth continued with his presentation and updates on the construction projects. The North Facility Improvements are at Phase II of the Master Plan and CSO Long Term Control Plan. The plan includes aeration modification for biological Phosphorus removal and Ferric Chloride storage and pumping facilities. The plans were sent in April to the IPEA and the design will be completed in June, 2017. Will propose to advertise for bids in June, 2017 and begin construction in November, 2017. The scheduled completion of this project will be in October, 2019.

Manager Muth reviewed the reason for biological phosphorus removal. He said a chemical feed system will be supplemental to the biological system. There will be 20 mixers and a baffle wall constructed at the first passage of each plant. There will also be Ferric Chloride chemical feed system and a V-2 Building with underground improvements. Discussion ensued regarding the above improvements.


The next item discussed was Building K Odor Control Improvements. A Carbon Adsorption System will be constructed on the North side of Building K. This will reduce odors and potentially improve public relations building a positive impact to the neighbors. This project is scheduled to be completed in October, 2017.

Manager Muth advised the Board that Building K is over 45 years old and much of the equipment has served its useful life. He said Building K's overhaul is in planning stage to resolve electrical issues and replace equipment that is at the end of its useful life.

The next project is Building K Return Activated Sludge Wet Well Improvements. This is currently in the planning stage and it will be needed to prevent backflow during loss of power.

Building G Blower Improvements – The District has saved over \$500K over the past two years since the above ground air main was installed. The four new turbo blowers are estimated to save an additional \$250K annually in electricity. The electrical upgrades will serve other buildings at the plant. This project is under construction and is scheduled to be completed in June, 2018. Manager Muth reviewed all of the details involved in this project.

The next project is Building W – Well Building – Manager Muth explained that these will be the primary and back up potable wells. Two wells will be drilled and will provide the District with softening and chlorination. As part of this project, electrical upgrades will provide back-up power for the administration buildings. This is currently under construction and it is scheduled to be completed in March, 2018.



The next project is Building N –This includes 7 phases of improvements. This building was constructed in the mid 1960’s and major overhaul is needed to replace aging infrastructure. The 7 phases of improvement include: Phase 1: electrical, instrumentation and controls upgrades. Phase 2: Structural repairs. Phase 3: Polymer and Sodium Bisulfite upgrades. Phase 4: Miscellaneous building and ventilation improvements. Phase 5: Exterior building improvements. Phase 6: Centrifuge Replacement and Phase 7: Odor Control Project.


As part of the presentation, Manager Muth gave an overview of the South Facility construction project. There are headworks, Primary Clarifiers, Primary Sludge Pump Station, BNR Process and Final Clarifiers. This project is currently under construction and is scheduled for completion by March, 2019. Manager Muth explained the benefits of the South Facility and they are: Environmental Regulatory Compliance, it will reduce CSO events. Also it will reduce Phosphorus loading by approximately 2/3 by June, 2021. This is required by Fox Metro’s NPDES permit and it will reduce the algae growth on the Fox River. This improvement will also address gulf hypoxia (“dead zone”) in Gulf of Mexico. Manager Muth reviewed the details, progress of construction and what has been completed to date.

Trustee Funkey said he would like to see the District be more aggressive with the approach into the repair at the storage building that is jeopardized by the erosion of the Fox River Bank at the effluent outfall. He said the erosion is on our property and depending upon the rain events between now and permits being approved, the structure could be lost. John Frerich said a temporary repair could be performed but he is not sure how efficient that would be. He said the proper way to do it is to build a coffer dam and block it off and dewater in order to get in the proper setting. Installing a metal plate in the meantime was discussed as a temporary repair and Manager Muth asked the Board if they were in agreement with that. All board members approved the installation of the metal plate as a temporary repair until all the permits are completed.

At 10:00 A.M. a Public Hearing was held for the approval of the Fiscal Year 2017/2018 Budget. With no further questions or comments from the Trustees and no comments from the public, Attorney Ingemunson stated the notice of Public Hearing was duly published for 10:00 A.M. on May 24, 2017 and thus he presented Resolution No. 949 and Ordinance No. 867, for the Appropriation of Monies for its corporate purposes “Enterprise Fund” to be expended during the Fiscal Year beginning June 1, 2017 and ending May 31, 2018 and setting forth its annual budget.

Continuing with the Committee of Local Improvements, Trustee Sotir said that the effort to improve odor control is being made and it should be posted in the District’s website.

With no other matters to come before the Committee of Local Improvements, it was moved by Trustee Funkey, seconded by Trustee Heriaud, put to vote and unanimously carried that the Regular Board Meeting reconvene.



The Regular Board Meeting reconvened at 10:07 A.M.

In the Attorney's Report Attorney Gregg Ingemunson updated the Board regarding the Condemnation of the Avalon property. He stated he has begun the condemnation process and has the complaints ready to be filed. He said all the proper parties have to be served and those documents are ready as well. With the Board's approval the documents will be filed next week.

10026

Mr. John Frerich addressed the Board with the Engineer's Report. Mr. Frerich requested approval of Partial Payment No. 17 to River City Construction, Inc., in the amount of \$3,112,222.92 for South Waste Water Treatment Facility Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$3,112,222.92 to River City Construction, Inc., for work completed on South Waste Water Treatment Facility Project.

10027

Mr. Frerich requested approval of Partial Payment No. 14 to Steve Spiess Construction, Inc., in the amount of \$178,880.25, for Waubonsie Interceptor River Crossing Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$178,880.25 to Steve Spiess Construction, Inc., for work completed on the Waubonsie Interceptor River Crossing Project.

10028

Mr. Frerich requested approval of Partial Payment No. 2 to Michels Pipe Services, in the amount of \$550,363.50, for 2016 CIPP Interceptor Lining Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$550,363.50 to Michels Pipe Services, for work completed on the 2016 CIPP Interceptor Lining Project.

10029

Mr. Frerich requested approval of Final Payment No. 7 to River City Construction, in the amount of \$7,016.27, for Clarifiers H4 & D5 Mechanism Replacement – Installation Contract Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$7,016.27 to River City Construction, for work completed on the Clarifiers H4 & D5 Mechanism Replacement – Installation Project.

10030

Mr. Frerich requested approval of Partial Payment No. 2 Kane County Excavating, in the amount of \$38,070.00, for Orchard Road Compensatory Storage Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$38,070.00 to Kane County Excavating, for work completed on the Orchard Road Compensatory Project.

Mr. Frerich requested approval of Partial Payment No. 4 Whittaker Construction, Inc., in the amount of \$1,625,643.90 for Building G Improvements Project. It was

10031

moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$1,625,643.90 to Whittaker Construction, Inc., for work completed on Building G Improvements Project

10032

Mr. Frerich requested approval of Partial Payments No. 5 to Dahme Mechanical, Inc., in the amount of \$23,843.80 for Chlorination Improvements Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$23,843.80 to Dahme Mechanical, Inc., for work completed on Chlorination Improvements Project.

10033

Mr. Frerich requested approval of Partial Payments No. 1 to R.C. Wegman Construction, in the amount of \$45,471.00 for Building W Water system Improvements Project. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that payment be made in the amount of \$45,471.00 to R.C. Wegman Construction., for work completed on Building W Water system Improvements Project.

10034

In the Manager's Report Attorney Ingemunson stated based on having no Public Comment with regard to the Appropriation Ordinance for Fiscal Year 2017/2018 Budget, he asked the Board for the approval of Resolution No. 949 and Ordinance 867. It was moved by Trustee Funkey seconded by Trustee Heriaud, put to vote and unanimously carried that Ordinance No. 867 be approved as written for the Appropriation of Monies for its corporate purposes "Enterprise Fund" to be expended during the Fiscal Year beginning June 1, 2017 and ending May 31, 2018 and setting forth its annual budget.

10035

Manager Muth requested authorization to seek bids for Sugar Grove Pump Station Generator Replacement Project to be opened at 10:00 A.M., June 21, 2017 Board of Trustees Meeting. It was moved by Trustee Funkey, seconded by Trustee Heriaud, put to vote and unanimously carried to seek bids for Sugar Grove Pump Station Generator Replacement Project with a bid opening at 10:00 A.M., June 21, 2017 at the Board of Trustees Meeting.

10036

Manager Muth requested authorization to seek bids for Moecherville Sanitary Sewer Repairs Project to be opened at 10:00 A.M., June 21, 2017 Board of Trustees Meeting. It was moved by Trustee Funkey, seconded by Trustee Heriaud, put to vote and unanimously carried to seek bids for Moecherville Sanitary Sewer Repairs Project with a bid opening at 10:00 A.M., June 21, 2017 at the Board of Trustees Meeting.

10037

Manager Muth requested authorization to seek bids for new phone system and voicemail/e-mail integration to be opened at 10:00 A.M., June 21, 2017 Board of Trustees Meeting. It was moved by Trustee Funkey, seconded by Trustee Heriaud, put to vote and unanimously carried to seek bids for new phone system and

voicemail/e-mail integration with a bid opening at 10:00 A.M., June 21, 2017 at the Board of Trustees Meeting.

The next item discussed in the Manager's Report was solar energy. Trustee Childress stated that a meeting was held in Montgomery with GEM Energy regarding solar energy and it looks like there may be an economic benefit to the District regarding a solar project. The key is the District needs sufficient land for the installation of the solar panels. Approximately 9 acres of land is needed for a project of 2.0 Megawatts (2.0MWdc/1.6Mwac) solar energy system. The estimated cost given to the District is a fixed panel system. There is another system that tracks the sun but it comes at a higher cost.

He explained that this project could not be a sole source purchase and also asked if the District wants to own the solar system or just sign a Power Purchase Agreement. This means that GEM or other vendor would build it, own it on District property and then charge the District "x" amount per kilowatt. Another option is to do some type of hybrid where GEM or other vendor builds the system, owns it and the District has the right to buy it.

The system can be installed over a contamination site. What is important and where the real value comes in is that it shaves the Plant's peak usage. Most of the Plant's peak usage comes at night time. The cost of this system is \$3M, and has a 25 year life cycle. GEM Energy or whoever is awarded the bid would be either system owner or sREC aggregator that are given by the Illinois Power Authority. Fox Metro also has the option of owning the system.

There are also Federal government tax credits that are awarded to private entities for building solar projects. The difference between Fox Metro owning the system and not owning the system is if Fox Metro bought and owned the system, we would not be able to take advantage of the sREC's or tax credits because the District is a municipal organization. A lengthy discussion ensued regarding the advantages and disadvantages, costs and options.

Trustee Childress said he would like to sit down with staff and John Frerich and create a bid spec that would be sent out to solar energy providers to bid on the project contingent upon the District obtaining the property needed for the project. The urgency behind this is the sREC's that are going to be posted are going to be in September and the solar field has to be built within one year. Discussion ensued regarding different aspects and requirements of the sREC's and the different options available to the District with regard to owning equipment or leasing land and the impact that will have on the operational cost and savings.

The Board thanked Trustee Childress for the time he spent researching and putting this information together. Trustee Childress suggested preparing an RFP with multiple types of proposals and the proposals would be evaluated based on the total value offered to the District. Trustee Sotir said at this time the District is not ready

to take this on and would need another resource whether it is GEM Energy or someone else.

It was agreed that staff, Mr. John Frerich and Trustee Childress will meet and put together a Request for Proposal which will include the three different options discussed today and will bring this issue back to the June Board Meeting.

At this time Trustee Detzler who is retiring from Fox Metro's Board of Trustees addressed the Board and advised that this is his last Board Meeting at the District and thanked everyone and stated this is the best Board he has worked with. Trustee Sotir presented Resolution No. 950 to Trustee Detzler which read as follows: WHEREAS, James K. "Jim" Detzler has served Fox Metro Water Reclamation District as an appointed member of the Board of Trustees for the past 21 years, serving as president for eight years;

WHEREAS, he has given an extraordinary amount of time, expertise and service to Fox Metro Water Reclamation District;

WHEREAS, he has been an excellent representative of the Fox Metro Water Reclamation District on the local, state and national level in advocating for initiatives that provide outstanding waste water programs and services;

WHEREAS, he has made meaningful and thoughtful contributions to the planning and development of Fox Metro Water Reclamation District's outstanding facilities;

WHEREAS, he is recognized for his commitment to provide direction and support for the success of Fox Metro Water Reclamation District;

WHEREAS, the Board of Trustees desires to acknowledge the contributions of James K. "Jim" Detzler;

THEREFORE BE IT RESOLVED, the Fox Metro Water Reclamation District Board of Trustees hereby recognizes and honors James K. "Jim" Detzler for his commitment, dedication, and the many years of distinguished service on the Fox Metro Water Reclamation District Board of Trustees.

With no New Business to come before the Board, it was moved by Trustee Childress, seconded by Trustee Funkey, put to vote and unanimously carried that this meeting be adjourned.

The Regular Board Meeting adjourned at 11:40 A.M