

**MINUTES OF THE REGULAR MEETING
OF THE BOARD OF TRUSTEES
OF FOX METRO WATER RECLAMATION DISTRICT
HELD WEDNESDAY, MAY 20, 2015**

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, April 15, 2015. Present were, Trustee James K. Detzler, Trustee Judith S. Sotir, Trustee Michael C. Funkey, Trustee Albert E. Heriaud, & Trustee Christopher F. Childress. Also present were Attorney Dallas C. Ingemunson, Manager Thomas F. Muth, John Frerich from Walter E. Deuchler, Controller Jimmie Delgado, Human Resources Coordinator Patrick Divine, Operations Foreman John Odean, Field Services Manager Matt Woodin, Karen Clementi from Walter E. Deuchler and Norma Rodriguez. Also in attendance Leo Pawlowski Sr. from Northeast Neighbors.

8869

The bills were presented and read. It was moved by Trustee Sotir, that the bills be allowed as read, and that checks be drawn in payment account during the month of April, 2015 in the amount of \$1,937,275.05 be ratified and approved. Motion was seconded by Trustee Funkey, put to vote and unanimously carried that the bills be paid as presented.

8870

It was moved by Trustee Sotir seconded by Trustee Heriaud, put to vote and unanimously carried that the Treasurer's Report for April, 2015 be approved as submitted.

8871

It was moved by Trustee Sotir, seconded by Trustee Funkey, put to vote and unanimously carried that the minutes of the May 6, 2015 Reorganizational Board Meeting and April 15, 2015 Regular Board Meeting be approved as written, each of the Trustees having received and read copies of said minutes before the meeting.

8872

With no Public Comments, It was moved by Trustee Detzler, seconded by Trustee Funkey, 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 9:35A.M.

In the Committee of Local Improvements Karen Clementi from Deuchler Environmental gave a presentation regarding a Biological Assessment of the Fox River. In the presentation Karen gave a project overview, discussed the importance of Biological Monitoring and presented the findings they have over the past few years. She said the purpose of the biological monitoring is to study the effect of the Plant's effluent on the receiving stream's biotic community upstream and downstream of the Waste Water Treatment Plant.



Karen said in the Biological phase they have been studying fish, macro invertebrates and mussels. The mussel part of the project was completed in 2012 which was a drought year and that gave them a very good opportunity to fully delineate the mussel beds that are in the river because the water was very low. She said from 2009 to 2012 there was a more intensive study completed on the mussels, fish and macro invertebrates. There are many ways that this data will and has been used. Fox Metro is located in the middle of DO enhanced area and they wanted to determine if the effluent is having an effect on this part of the river.

Karen said that Oswego and Yorkville are considering the Fox River as a future water supply. Fox Metro's effluent quality affects the biotic community and prospective water source.

There is a new program called Tier Aquatic Life Use (TALU) that is being instituted by the IEPA in the future. This program emphasizes biological work instead of water chemistry.

Karen also emphasized that the Fox River Study Group is working on the Fox River Implementation plan and they are going to be providing recommendations as part of this plan. This biological assessment can be used for pre recommendation and post recommendation monitoring.

While studying the river different types of fish were found such as the Rock Bass and Greater Red Horse which are endangered fish in the river. Karen said for the Waubonsie Interceptor River Crossing the DNR was concerned that the Crossing would provide a danger for those fish. She said they were able to use Fox Metro's data to comply with regulations to conform to this. A Conservation plan was prepared on the Greater Red Horse fish.

Karen said for the South Plant improvements pre and post construction activities can be monitored and how the biological community might change. There are many new regulations and this data will enable them to confirm or refute data as part of those new regulations.

Karen said Annual and comprehensive data enables tracking of biological changes that may not be caused by Fox Metro Water Reclamation District such as floods and droughts, naturally occurring fish population shifts and other point sources upstream. These are natural occurring changes that Fox Metro has no control over.

Karen said the overall findings with regard to mussels were that mussel beds exist sporadically both upstream and downstream of the plant and there are no population differences and the mussels that were found were very typical of urban waterways.



Karen reported that Macro invertebrate scores are similar upstream and downstream of the Plant. She said when macro invertebrates are collected, they are identified, and are given a score. The scoring system that is used is the same as the IEPA method and the

score corresponds to their rating of pollution tolerance where it becomes very poor, poor, fair, good or very good. What was also found was that the dam impoundments areas are the ones with the most significant effect. They are not seeing a significant effect of the effluent.

Karen said the findings with regard to fish, the IDNR protocols is used, which is what the State uses. Karen said the fish fall into the good category. She added that there were no fish that fell in the excellent category or poor category.

Karen said that the sample area has been able to meet the Dissolved Oxygen criteria both upstream and downstream of Fox Metro's effluent discharge.

Karen reported there have been many adverse effects on the river from droughts and floods that are causing different population changes. She said one thing that happens when there is a drought is "fish kills" and this is very common and that happens when the oxygen gets very low in the water. The reason this is documented is because when these fish flow downstream the public may think it is because of Fox Metro but in fact this happens all over the river and it is naturally occurring and it is nothing that the Plant is doing to adversely affect the river.

Karen said in 2012 they were able to study the mussels for the Waubonsie Interceptor Crossing. She said they knew there was a mussel bed there and they planned to remove the mussels from that location so they would not die during the construction of the interceptor. In the process of removing the mussels it was discovered there was a much larger number of mussels than anticipated there were approximately 80 mussels. The average size of a mussel bed in the river contains approximately 10 to 15 mussels. This bed was the second largest bed of mussels that has been found in the river. The most interesting aspect of this was that all the mussels were located on the West bank of the river right within the effluent plume. No mussels were found on the East bank. It has been known that mussels are very sensitive to ammonia and would not be able to survive in that type of a habitat but what is believed that is happening is that the Plant's effluent is very clear including during the summer and the water is consistent. Most of the mussels found were healthy adults and they are reproducing because few juveniles were found as well.

Karen said they have been tracking the Greater Redhorse Fish since 2012. She said a lot of data can be collected from these fish that no one else has. They can track where these fish go in the river and how much they grow each year. She said that 28 Greater Redhorse fish have been caught and have collected a large amount of data. This data was used to prepare a conservation plan. It was also discovered that eight of the twenty eight fish that were caught were caught in Fox Metro's effluent plume. The temperature of the plume was recorded when the fish were caught and found that the effluent plume is 5.49 degrees cooler than the main stream of the river. What they concluded from this data is that in summer droughts the Plant's effluent provides the fish thermal refuge during these stressful events. Karen summarized and said there has not been any negative effect that they have found to date on the mussels, fish and macro

invertebrates and that in some cases the effluent is actually providing a good habitat for these animals to live in. Karen said in 2015 they plan on doing minimal fish and macro invertebrate sampling, they will be collecting data with their DO Sonde and they will also collect data on some unique events such as fish kills and will document algae blooms as well.

Trustee Childress asked if the fish migrated. Karen said they do migrate up and down the river but the dams get in their way.

Manager Muth said this data shows the health of the living species in the river and Fox Metro needs to have that data and information to make sure that the effluent is not having any detrimental effect. He said history of data is needed in case the IEPA wants to know what is happening with the biology in the river.

Trustee Funkey said there should be some kind of press release stating that Fox Metro is working hard and spends funds to protect the river. Manager Muth said that can be posted on our website. Trustee Funkey said perhaps the newspaper might be interested in these findings as well.

At 10:00 A.M. Manager Muth opened and read aloud bids received for Sewer Maintenance Contract as follows: Visu Sewer of Illinois – Total Bid \$749,730.00; National Power Rotting Corp – Total Bid \$1,448,375.00; The Engineer’s estimate for this project was \$870,000.00. It was moved by Trustee Sotir, seconded by Trustee Funkey, put to vote and unanimously carried that the low bid of Visu Sewer be accepted for \$749,730.00 pending specification review by Fox Metro Water Reclamation District and Walter E. Deuchler Engineering Staff. If it is found that Visu Sewer does not meet the specifications aforementioned, Fox Metro holds the right to go and re-bid for this project.

At 10:00 A.M. a Public Hearing was held for the approval of the Fiscal Year 2015/2016 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 20, 2015 and thus he presented Ordinance No. 853, Appropriation of Monies for its corporate purposes “Enterprise Fund” to be expended during the Fiscal Year beginning June 1, 2015 and ending May 31, 2016 and setting forth its annual budget, to the Board for their approval. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried that Ordinance No. 853 be approved as written.

At this time Manager Muth introduced Environmental Compliance Specialist Zach Bonesz who discussed with the Board a proposal for a new Sci-Tech Display. Manager Muth said Zac has been working with Sci-Tech on a proposal for a new display at the museum. Zac reported to the Board that he, Pat Divine and Arlene Hawks from Sci-Tech met because she was looking for their involvement in updating Fox Metro’s Exhibit at the museum. Arlene presented several ideas. Upon review of the proposed ideas it was agreed that they didn’t represent or exemplify what Fox Metro actually

does. The Pretreatment Department, Pat Divine and Matt Woodin developed an idea of an interactive kiosk to be installed at Sci-Tech. This will take the technology aspect and incorporate it with what Fox Metro does. This interactive kiosk will be a multipoint interactive interface. It will be a 55 inch flat screen TV that the public can touch and manipulate objects on the screen and serves as interactive learning and it engages the user. It offers an extensive level of visual communication with what Fox Metro does. One of the advantages of this system is that it is continuously updatable because it is mainly driven on software and this gives us unlimited range of content.

Trustee Sotir said that she is excited to see this and said that the District gives many plant tours and would like to see the same system at the District and make it part of the tours. Trustee Childress suggested adding information obtained from the Fox River study. Zac said that is the advantage of this system because it can be continuously updated. This system is also portable and mobile and can be relocated to any areas. Trustee Sotir said this is perfect PR for the District.

Zac said the price of this system is approximately \$15,000.00 and it includes hardware, software and three licenses which means that 3 mobile kiosks can be supported. Any updates can be done in house by our IT Department.

Trustee Sotir asked if this system can be brought to the Fairs that Fox Metro participates in. Zac said that they are portable and would make a good addition to the displays that that Fox Metro has at the different Fairs and events the District participates in. However the \$15,000.00 cost only includes one 55 inch TV. Additional costs would incur with any additional TV screens that are purchased and there would be a reoccurring yearly cost of \$1,800.00 to upgrade to the software to any number of units. Trustee Sotir said purchasing one for Sci-Tech and another to have at the District to be part of the tours would be a good idea. Based on the success of the program a third TV screen can be purchased at a later time. She added that this is not an outrageous price considering the longevity and the fact that it is updatable. Trustee Funkey agreed with Trustee Sotir with regard to the Units being portable and mobile because in the future those units can be made available to all of the high schools in the area and perhaps have a traveling unit to visit different events. At this time it was moved by Trustee Sotir, seconded by Trustee Funkey, put to vote and unanimously carried to purchase one prototype unit for the Sci-Tech Display unit along with hardware, software and any licenses that are required with the potential of more units in the future.

Trustee Sotir suggested at the time this interactive system is installed at the District there be a ribbon cutting ceremony and have the public come in and have the interactive experience.

Zac said that one thing needs to be made clear to Sci-Tech and that is that this Display is owned by Fox Metro and not Sci-Tech and we have the right to take back the display at any time.

It was moved by Trustee Detzler and seconded by Trustee Funkey, put to vote and unanimously carried to reconvene the Regular Board Meeting.

Meeting reconvened at 10:15 A.M.

Attorney Ingemunson addressed the Board with the Attorney's Report. Attorney Ingemunson presented Resolution No. 926 Approving Ordinance No. 854 Authorizing the Fox Metro Water Reclamation District to borrow funds from the State of Illinois Water Pollution Control Revolving Fund CSO Long Term Control Plan -Phase 2.

WHEREAS, an "ORDINANCE AUTHORIZING THE FOX METRO WATER RECLAMATION DISTRICT TO BORROW FUNDS FROM THE STATE OF ILLINOIS WATER POLLUTION CONTROL REVOLVING FUND CSO LONG TERM CONTROL PLAN – PHASE 2. "has been prepared and submitted to the Board with regard to obtaining a loan in the aggregate principal amount of \$150 million for the purpose of providing funds to pay the costs of the Project identified in said Ordinance, and

WHEREAS, it is in the best interest of Fox Metro Water Reclamation District to borrow funds from the State of Illinois Water Pollution Control Revolving Fund, CSO Long Term Control Plan – Phase 2."

NOW, THEREFORE BE IT RESOLVED by the Board of Trustees of Fox Metro Water Reclamation District that the "ORDINANCE AUTHORIZING THE FOX METRO WATER RECLAMATION DISTRICT TO BORROW FUNDS FROM THE STATE OF ILLINOIS WATER POLLUTION CONTROL REVOLVING FUND CSO Long Term Control Plan – Phase 2 be and the same is hereby approved, and the President of the Board of Trustees and the Clerk are hereby authorized to execute said "ORDINANCE AUTHORIZING THE FOX METRO WATER RECLAMATION DISTRICT TO BORROW FUNDS FROM THE STATE OF ILLINOIS WATER POLLUTION CONTROL REVOLVING FUNDS CSO LONG TERM CONTROL PLAN – PASE 2."

It was moved by Trustee Sotir, seconded by Trustee Funkey, Put to vote and unanimously carried that Resolution No. 926, authorizing Ordinance No. 854, be approved as written

ADOPTED by the Board of Trustees of Fox Metro Water Reclamation District this 20th day of May, 2015 by a roll call vote of 5 to 0.

8878

John Frerich addressed the Board with the Engineer's Report. Mr. Frerich requested approval of Partial Payment No. 6 to R.J. O'Neil, Inc., in the amount of \$93,582.70 for Building P-1 HVAC Renovation Project. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried that payment be made in the amount of \$93,582.70 to R.J. O'Neil, Incl., for work completed on Building P-1 HVAC Renovation Project.

8879

Mr. Frerich requested approval of Partial Payment No. 5 to Lite Construction, in the amount of \$41,050.73 for Building P-1 Remodel Phase 2 Project. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried that payment be made in the amount of \$41,050.73 to Lite Construction, for work completed on Building P-1 Remodel Phase 2 Project.

8880

Mr. Frerich requested approval of Partial Payment No. 7 to Frank Marshall Electric, Inc., in the amount of \$6,300.00 for Farnsworth Pump Station MCC Replacement Project. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried that payment be made in the amount of \$6,300.00 to Frank Marshall Electric, Inc., for work completed on Farnsworth Pump Station MCC Replacement Project.

8881

Mr. Frerich requested approval of Partial Payment No. 6 to Frank Marshall Electric, Inc., in the amount of \$1,800.00 for Gas and Heat Detector Modification Project. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried that payment be made in the amount of \$1,800.00 to Frank Marshall Electric, Inc., for work completed on Gas and Heat Detector Modification Project

Manager Muth addressed the Board with the Manager's Report. Manager Muth said there is Tertiary Filter No. 2 that the District is requesting to Purchase from Aqua aerobics. Seven filters are already operational. The eighth filter will provide capacity to treat all flows including wet weather flows. The USEPA and IEPA are requiring Fox Metro to treat all flows through the Tertiary Filters and this should provide us with the capabilities to do so.

Trustee Sotir asked what the cost of this would be. Manager Muth said it would be approximately \$1.2 Million. This includes the price of the filter and installation costs. A deal was made with this company when the first one was purchased that they would take that base price and add the consumer price index over the years they froze the base price. He added that the amount the District is purchasing it for is significantly less than what they are going for out in the market.

8882

At this time Manager Muth requested authorization to purchase Tertiary Filter No. 2 from Aqua Aerobics. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried to purchase Filter No. 2 from Aqua Aerobics.

8883

Manager Muth reported to the Board that a boiler has been purchased and now it needs to be piped and installed. He requested authorization to seek bids for Building E Boiler installation, to be opened at 10:00 A.M., June 17, 2015 at the Board of Trustees Meeting. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried to seek Building E Boiler Installation to be opened at 10:00 A.M., May 17, 2015 at the Board of Trustees Meeting.

Manager Muth reported to the Board that with our South expansion, clarifiers have proposed to be constructed in the Wetlands. He said a few months ago the requirements were going to be that for every acre of Wetland Fox Metro destroyed the District had to purchase four acres of wetland to replace it. Through Deuchlers and their staff's help they were able to go to the IDNR and IEPA and they were able to negotiate one acre for one acre. Manager Muth at this time requested approval of Wetland Bank Mitigation Agreement to purchase the 3.43 acres of wetlands from the DeKalb County Forest Preserve District. These wetlands had to be approved by the Army Corp or Engineers and the acre credit mitigation cost is \$40,000.00 per acre and the total cost is \$137,200.00.

Trustee Funkey wanted to confirm that this is because Fox Metro has taken acreage out of the wetlands. Mr. Frerich confirmed that was correct and added that this is for the entire grading plan in all future sites in the ultimate design so we only have to do this once.

8884

At this time Manager Muth requested approval of Wetland Bank Mitigation Agreement. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried to approve the Wetland Bank Mitigation Agreement as presented.

8885

Manager Muth requested authorization to proceed with submittal of IEPA Loan Application Package for the South Facility. It was moved by Trustee Sotir seconded by Trustee Funkey, put to vote and unanimously carried to approve submittal of IEPA Loan Application Package for South Facility as presented.

8886

Manager Muth requested an Executive Session be held to discuss personnel and related matters. It was moved by Trustee Sotir, seconded by Trustee Funkey, put to vote and unanimously carried that at the conclusion of New Business of today's meeting, we will temporarily adjourn for an Executive Session.

John Odean reported that the plant is running good and currently is in the process of cleaning Boiler M3 which is regular maintenance. Digester M5 has been drained and

cleaned and getting refilled. Alarm Detection is installing fire and gas alarms in Building E, M1 and M3. He added that they have given three tours to Pack 316 of Aurora, Waubensee Community College and Aurora Central High School this month.

Jimmie Delgado reported that user rates will be increasing on June 1, 2015 and is currently busy with Union Negotiations. There is a new rate study coming soon and hopefully will have results quickly.

8887

With no New Business to come before the Board, it was moved by Trustee Detzler, seconded by Trustee Sotir, put to vote and unanimously carried that this meeting be adjourned for Executive Session.

Meeting adjourned at 10:20 A.M.

The Regular Board Meeting reconvened at 11:45 A.M.

There were no further decisions made in Executive Session.

8889

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

Meeting adjourned at 10:40 A.M.
