

TOWNSHIP OF FALLS AUTHORITY  
REGULAR MEETING

April 26, 2017

The regular monthly meeting of the Township of Falls Authority Board of Directors was held on Wednesday, April 26, 2017, in the Board Room at 557 Lincoln Highway, Fairless Hills, PA, at 7:02 P.M.

Salute to the Flag

Roll Call – Anthony Rosso, Chairperson, James Goodwin, Vice Chairperson, Brian Binney, Secretary, William Beier, Treasurer present, Thomas Miles, Assistant Secretary/Treasurer present. Edward Zanine, Authority Solicitor present, Vanessa Nedrick, Authority Engineer, Timothy Hartman, Executive Director, John Ryba, Operations Manager, Megan O’Neill, Deputy Business Manager and Tammy McAnulty, Recording Secretary, were also present.

Solicitor’s Report on the Executive Session – Mr. Zanine reported the Executive Session prior to the meeting consisted of personnel matters as well as the collective bargaining agreement. Mr. Rosso asked if they continued the discussion following last meeting. Mr. Zanine stated that discussion did follow the meeting on March 22 regarding various administrative items.

Approve Meeting Minutes for April 26, 2017 Meeting – Mr. Binney noted that the minutes read that he requested that the bid for 2017 pipe lining include both pricing for the relining as well as new install. He would like the minutes to reflect that only asked if it would include the pricing for both.

Mr. Rosso asked if all were in favor of Mr. Binney's motion.

All were in favor.

Mr. Beier made a motion to approve the April 26, 2017 minutes. Mr. Rosso seconded the motion.

Poll of the Board:

Mr. Miles	Yes
Mr. Beier	Yes
Mr. Binney	Yes
Mr. Goodwin	Yes
Mr. Rosso	Yes

Motion Carried 5-0.

Public Comment – A gentleman from Waltham Road (prefers to be anonymous) asked about the next phase of the water main lining program and what he is to expect. Ms. Nedrick explained that that the project is to clean the interior water mains with high pressure water and seal them. Mr. Rosso explained that it will be discussed more in depth as we get closer to beginning the project. He stated that we will use door hangers throughout the process to keep the residents informed. He also stated as we get closer to beginning the project a special meeting will be held to discuss any questions or concerns.

Solicitor's Report – Mr. Zanine provided an update on Neshaminy Intereceptor Supplemental Agreement. He stated he is waiting on dates from

Bucks County Water & Sewer Authority (BCWSA) for a meeting between the Township, Authority, DEP and Bucks County. Mr. Zanine reported the updated agreement has been received from BCWSA since the last meeting. He also mentioned that he, Vanessa and Tim met earlier today to make the necessary revisions and then send it to the Township before meeting with DEP/BCWSA. Mr. Zanine stated that he is hoping to have the date of the meeting with DEP/BCWSA prior to our next meeting.

Engineer's Report -

Chatham Water Investigation/New Falls Road Pilot Study - Ms. Nedrick stated she just received the permit for chemical injection system issued on April 19.

2016 Water Main Cleaning and Lining Project - Ms. Nedrick stated that the follow-up meeting will be held at the Authority office next Wednesday at 10:00 am.

Collingswood Tank Improvements - Ms. Nedrick stated that the permit was received for the mixer and the safety ladder does not require a permit. She said the work is scheduled to begin May 1.

TOFA Center Space - Ms. Nedrick commented that the Board gave the directive to award Philly Overhang Door the bid for the garage door. She stated that she had requested a certificate of insurance and it was received yesterday. She stated once everything is in order the work will be scheduled.

2017 Infiltration and Inflow (I&I) Project - Ms. Nedrick mentioned that bids

were taken on April 13 and only two bids were received. The first bid was in the amount of \$318,877.04 by Diversified Infrastructure Services, Inc. The 2<sup>nd</sup> bid was for \$364,262.30 by Mobile Dredging Video Pipe, Inc. Ms. Nedrick recommended that the Board reject both bids since they exceed the Authority's budget for the I/I and re bid the project.

Mr. Rosso made a motion to reject both bids and send it out again for rebidding. Mr. Beier seconded the motion.

Poll of the Board:

Mr. Miles	Yes
Mr. Beier	Yes
Mr. Binney	Yes
Mr. Goodwin	Yes
Mr. Rosso	Yes

Motion Carried 5-0.

2017 Water Main Lining Project – Ms. Nedrick stated that we are on target to bid the project next month.

Second Trenton Road Interconnection with Lower Bucks County Joint Municipal Authority (LBCJMA) – Ms. Nedrick stated that she is in the process of applying for the Public Water Supply and Water Allocation Permit for the new connection. Operations Manager has been communication with LBCJMA to try and determine volume of water. Mr. Ryba stated it is minimal

Relocation of 12" Water Main to Lower Morrisville – Ms. Nedrick stated that per the Board's per the board's direction we are considering the option of pipe bursting versus open cut excavation. She will be meeting with a contractor to review the construction particulars. She will then review the details with the Executive Director and the Operation Manager before putting it out to bid.

New Falls Interconnect Generator – Ms. Nedrick stated the bid opening is scheduled for May 24<sup>th</sup> at 10:00 am.

PA Small Water and Sewer Grants – Ms. Nedrick discussed that the Authority was unsuccessful in receiving water and sewer grants. She reported that she, the Executive Director and Operation Manager have constructed a list of projects that are included in the meeting packets as well as total cost, budget amount and the difference. She stated that she can take a look at the list and see what can be pushed back and what should be moved forward. She stated that on the sewer side it is definitely recommended that the four pumping station be repaired. She added that since the TOFA staff rebuilt the motor at Penns Place that station can wait until 2018. Ms. Nedrick stated that the list is for consideration and she is not looking for any decisions at this point.

Mr. Binney asked Mr. Hartman on the budget for 2017 water and 2017 sewer how much has already been spent. Mr. Hartman will look into this and report back to the Board.

Mr. Rosso asked the board if anyone had any questions for Ms. Nedrick. No one had questions at this time.

Neshaminy Interceptor – Ms. Nedrick stated that an I and I draft has been

submitted to DEP in advance for INI abatement. She stated that in last month's meeting with DEP regarding miscellaneous connections, the 2016 connections still have not been released. She said that there still could be some projects that we were not aware of so we need to have an updated residential and commercial plan so we are not caught off guard.

Executive Director's Report -

Cross Connection Control - Mr. Hartman revisited with the Board the Cross Connection Control Enforcement and Administration program proposal presented at the March 22, 2017, Board meeting. Mr. Hartman told the Board that the TOFA Engineer, Operations Manager and he recommended the Board adopt such a program at no cost to TOFA to bolster the existing program and ensure compliance with the law and protection of the drinking water supply. Mr. Hartman added that he and Mr. Ryba were even more convinced of the necessity for these added steps since their recent attendance at a PADEP water supply contamination mitigation course. He stated he would investigate further options for implementing a program and report back to the Board.

2017 vehicle Purchase - Mr. Hartman advised the Board that the new shop truck has been fitted out and delivered. He noted that Levan Machine, a Penske subcontractor, has ordered a ramp for loading materials and equipment. He added that decals would be added to the vehicle shortly.

Center Space Update - Mr. Hartman advised the Board that the TOFA Engineer has sent overhead door company the installation contract to execute and has requested proof of adequate insurance.

Paper Folder and Inserter Machine - Mr. Hartman informed the Board that the new paper folder and inserter machine has been received, staff has been trained on its operation and it will be used for the first time to process a billing cycle on April 27.

Tire Inspection Program - Mr. Hartman advised the Board that as part of the TOFA Safety Program staff has initiated a trial tire inspection program with McCarthy Tire located in Bensalem involving a quarterly inspection of the TOFA fleet's tires, including tire pressure checks, which results in a comprehensive electronic report with recommendations for corrective actions. Should tires be needed, the program offers discounted government pricing similar to PA COSTARS through Bridgestone.

Paving Contractor Solicitation - Mr. Hartman advised the Board that Lower Bucks County Joint Municipal Authority (LBCJMA) has agreed to include TOFA in its next paving restoration bid which should help lower pricing for both authorities. Mr. Hartman told the Board that he would inquire of the existing LBCJMA paving contractor if it would be agreeable to offering TOFA the same terms it is currently offering LBCJMA.

Summer Employment Program - Mr. Hartman advised the Board that there has been a strong response to the summer employment program with four returnees from the 2016 crew and four new students. He added that several of the applicants had other commitments, such as sports, and would not be full time throughout the summer. He added that this would not be a problem and expected much needed work to be accomplished.

PennDOT Reimbursement - Mr. Hartman informed the Board that the

TOFA Engineer has prepared and submitted reimbursement documentation in the amount of \$38,696.79 for the work done in support of PennDOT's I-95/Turnpike Interchange project which entailed the rerouting of TOFA's Queen Anne Interceptor. He said he would follow up to be sure the request is being processed.

Rio Supply Software and Equipment Maintenance Annual Contracts - Mr. Hartman revisited with the Board consideration of the \$4,500 invoice from Rio Supply for the annual renewals of the Premium Equipment Maintenance Plan (\$3,000) and the Software Support Plan (\$1,500). At the March 22 Board meeting he said questions were raised about the scope, purpose and need for this coverage. Mr. Hartman informed the Board that the premium equipment plan covered all of the Rio Supply equipment in the TOFA water distribution system. He added that staff estimated Rio Supply's service charges at @\$2,800 for the first four months of 2017. At that rate, he said, it would be worth paying the \$3,000 for a full year's coverage. Mr. Hartman stated that staff still supported the \$1,500 purchase of the Software Support Plan due to the potential for frequent updates.

Mr. Ryba discussed the jack hammer options: (1) a low powered gas powered for about \$2,500.00, (2) a jack hammer powered by a towed generator-\$30,000.00, (3) the hammer attachment for the excavator. He believes the excavator hammer attachment will be more portable and powerful at a cost of about \$8,500.00. Mr. Hartman agrees with Mr. Ryba that the jackhammer attachment is the best route to go. Mr. Rosso asked about the curbstops we have done with the excavator and Mr. Ryba stated we have already repaired 3-4 on one street of the upcoming project using the excavator. Mr. Ryba stated that we will save because we will not need to use Bucks County Water and Sewer



for the repairs. Mr. Beier states that it will pay for itself and that it is a good idea. Mr. Goodwin stated he would like to know where the money is coming from first. Mr. Binney asked if we have the ability to transport the jackhammer to the site and Mr. Ryba stated it will get transported in the bucket of the excavator. Mr. Beier asked Mr. Hartman if we have the money and Mr. Hartman stated we do however it has not been budgeted.

Mr. Beier made motion to purchase the jackhammer attachment for \$8,500.00. Mr. Rosso seconded the motion.

Poll of the Board:

Mr. Miles	Yes
Mr. Beier	Yes
Mr. Binney	No
Mr. Goodwin	No
Mr. Rosso	Yes

Motion Carried 3-2.

Mr. Beier stated that the capital expenditures are over budget by \$14,000. He would like to know what is causing the budget to run above.

Mr. Binney stated that on the safety list everything is completed except for the shelters, he would like to know when this is going to take place. Mr. Ryba stated that he will see that it gets done prior to next meeting. Mr. Rosso stated that it may be a good job for the summer help to work on and at a lower price point so it would be worth waiting a little longer if needed.

Mr. Binney asked Megan if it is possible to add a proposal line on the budget sheet in addition to the actual and budget line items. This would help eliminate questions on the bill list. Megan will work on adding this to the budget report.

Review of the Bill List – Mr. Beier made a motion to approve the bills in the amount of \$1,343,790.85. Mr. Rosso seconded the motion.

Poll of the Board:

Mr. Miles	Yes
Mr. Beier	Yes
Mr. Binney	Yes
Mr. Goodwin	Yes
Mr. Rosso	Yes

Motion Carried 5-0.

Board Comment –

Mr. Miles- Mr. Miles stated an excellent job is being done by everyone.

Mr. Binney- Mr. Binney had a question for Ms. Nedrick regarding the bill for the meeting with ADM. Ms. Nedrick stated the Authority was approached by ADM regarding discharging their water in the sewer system. When Ms. Nedrick received the sample results she was concerned so she and John met with them.

Mr. Beier – Mr. Beier thanked Mr. Ryba for a job well done and for staying on top of the water sampling results. He is also pleased that they have begun curbstops repairs for the relining project. Mr. Ryba stated that one street has been completed with curb stop repairs and is hoping to have all the streets done by the end of May. Mr. Beier is also pleased with the off hour emergency response. Mr. Beier also thanked everyone for organizing the Anniversary party.

Mr. Goodwin – Mr. Goodwin stated that he does not have any issues with the purchasing of the jackhammer however he would like to know where the money is coming from on purchases.

Mr. Rosso – Mr. Rosso asked if we are sampling randomly. Mr. Ryba stated that DEP revised the 2016 requirements to 25 samples but we collect 28. Mr. Rosso stated that he wants TOFA to do more to stay ahead of issues. Mr. Ryba stated that communications have improved with Lower Bucks which helps.

Adjournment – Mr. Rosso made the motion to adjourn the meeting at 8:05pm.

The seal of the Township of Falls Authority Water Utility is a circular emblem. It features a central blue and white globe with the acronym 'TOFA' overlaid. The words 'TOWNSHIP OF FALLS' are written in a semi-circle at the top, and 'WATER UTILITY' is written in a semi-circle at the bottom, both in a serif font. The entire seal is rendered in a light, semi-transparent grey color.

**Township of Falls Authority  
Executive Director's Report  
April 26, 2017  
(Updates are in Boldface)**

**1. CAPITAL IMPROVEMENT FINANCING**

At its April 4, 2016, public meeting, the Falls Township Board of Supervisors unanimously voted to guaranty TOFA's \$3,026,000 loan from Phoenixville Federal Bank & Trust.

In accordance with Pennsylvania's Local Government Unit Debt Act, the TOFA Engineer has prepared, signed and submitted a Self-Liquidating Debt Report. TOFA Bond Counsel will attend the April 27 Board meeting to obtain Board member signatures on various loan related documents. We are still on track to close on May 4 per the financing schedule.

The loan closing took place as scheduled on May 4. Per the TOFA Board's direction, only the closing fees of \$75,213.19 were drawn on the loan.

A loan draw down of \$173,226.39 was approved by the Board to pay a portion of a water main lining invoice. The remainder of the invoice was paid from the 2011 Construction Fund.

At the September 28, 2016 Board meeting, the Board approved a payment to the water

main lining contractor J. Fletcher Creamer in the amount \$155,802.02. As a result, there remains \$2,621,758.40 of the Phoenixville Federal Bank and Trust loan amount available to TOFA for the approved projects.

## **2. LOWER BUCKS COUNTY JOINT MUNICIPAL AUTHORITY (LBCJMA)**

A meeting between TOFA and LBCJMA was held on November 30, 2016 to further discuss the additional Vermillion Tie-in. At this meeting LBCJMA agreed to providing TOFA laboratory support. TOFA has requested from LBCJMA plans for the location of the Vermillion connection chamber so that it can submit a Highway Occupancy Permit to PennDot. Plans for the chamber have been received, application for the PennDot Highway Occupancy Permit made and construction coordination begun.

For 2017 the primary cooperative efforts between TOFA and LBCJMA are the second Vermillion interconnect and the renegotiation of the water and sewer service agreements. **The second Vermillion Interconnect project has been completed and has been opened.**

**Under the PA intergovernmental cooperation authorities, TOFA has requested LBCJMA consider including TOFA in its paving bid solicitation.**

## **3. PERSONNEL MATTERS**

TOFA operations staff has completed an online Defensive Driving Course. **An Anti-workplace bullying course was conducted on April 13 and will be scheduled again for those employees who were unable to attend.**

## **4. WATER QUALITY INVESTIGATIONS**

For 2017, TOFA will wrap up the water quality investigation that prompted the first lining project. The final round of sampling to confirm the problems have corrected and was provided to the PADEP along with the locations of other problem areas.

A permanent permit application for the chemical additive system to control iron has been submitted to the PADEP. **A permit application for a water mixer installation in the Collingswood tank has been approved by PADEP. Also, no permit will be necessary for the approved by installation of the tank ladder.**

Staff will continue its efforts to keep system water fresh and control disinfection byproducts.

## **5. HOMESERVE USA PARTNERSHIP**

Two local contractors have been added as HomeServe contractors at TOFA's urging: J&M Warrell and McHales.

## **6. NESHAMINY INTERCEPTOR SUPPLEMENTAL AGREEMENT AND BUCKS COUNTY WATER AND SEWER AUTHORITY (BCWSA) ISSUES**

The lawsuit was settled in 2016. A \$50,000.00 escrow account has been established and a Total Suspended Solids (TSS) and Biological Oxygen Demand (BOD) study is underway.

Permanent Flow Metering - The sewage flow meter approved for purchase by the Board at its June 24, 2015, has been installed and data is being collected. The plan is to monitor flows from TOFA's Queen Anne Interceptor into the BCWSA's Neshaminy Interceptor to compare with BCWSA reported flows to assure billing by the BCWSA is commensurate with TOFA flows. The TOFA collected data do not indicate overcharging by BCWSA.

Along with Falls Township, TOFA is developing a draft Neshaminy Interceptor Supplemental Agreement with BCWSA that it will first send to PADEP and then to BCWSA. The expectation is that a negotiated agreement will lead to the release of sewer capacity in 2017. Falls Township is reviewing the latest draft compiled by the TOFA solicitor. TOFA staff, Engineer and Solicitor met on March 6 with Falls Township to finalize the draft. **A final review of the draft agreement will be conducted by TOFA on April 26. We are anticipating a meeting with Falls Township, PADEP and BCWSA in the near future.**

#### **7. MORRISVILLE MUNICIPAL AUTHORITY (MMA)**

The MMA will likely be required by PADEP to upgrade and expand its waste water treatment plant (WWTP) or to replace it. In either case MMA is desirous of receiving much greater flows from TOFA. MMA has indicated it is interested in a Falls Township site for the replacement option. The TOFA Executive Director and Engineer will keep the Board apprised of developments.

TOFA and MMA representatives met informally on September 27, 2016, to discuss MMA options. MMA agreed to provide TOFA cost sharing estimates should TOFA decide to contribute flows to a new MMA system. Some information has been received from MMA but not yet formally reviewed.

#### **8. TOFA BUILDING SPACE**

The new garage door has been separated from the renovation project and quotes will be obtained through Penn Bid. The Board has directed staff to re-review the remaining renovation plans for savings. Falls Township has shown interest in using the space while its new Township Building is under construction. TOFA has postponed the award of the front garage door bid until the Township can evaluate the impact on its plan. A permit to install the mixer is required by the PADEP and has been submitted and approved. **Falls Township has advised TOFA it has no objection to the installation of a front overhead door and the bid has been awarded.**

#### **9. WATER STORAGE TANK MAINTENANCE**

On August 24, 2016 the Board approved a ten-year maintenance agreement with Southern Corrosion for the Collingswood tank.

Discussions are occurring to schedule the work with the possibility of adding a mixer to the tank early in the maintenance schedule to improve water quality. Southern Corrosion has provided TOFA staff and Engineer with specifications and cost for a Collingswood tank mixer. In December, 2016, the TOFA Board approved the mixer addition. **The**

**installation of a tank ladder and a water mixer will be the first items addressed. Work will begin April 25.**

#### **10. TAPPING FEES AND ESCROW ISSUES**

Periodic Tapping Fees Study/Calculations – The TOFA Board has decided to consider authorizing a Tapping Fees Study after the dedication of certain ongoing projects' assets; e.g., MarMar and Freeman's Farm. The proposed cost of the study submitted by the TOFA Engineer is \$6,900.00.

Property Use Change Audits – The Aria Health physical therapy operation resulting from the Auto Zone subdivision required the purchase of one additional water and sewer EDU with associated tapping fees which were paid. The Rally House store in the Goldenberg complex is a similar usage to the previous tenant and will not require additional EDUs. Staff has begun to monitor the water usage at Crunch Fitness. Additionally, the entire Goldenberg Complex water usage has increased since a new TOFA water meter was installed earlier this year. It is too early to tell whether all of the increase is attributable to Crunch Fitness. The owner at 131 Lincoln Highway (Aria/AutoZone) has purchased one additional water and sewer EDU. **The Crunch Fitness audit shows Crunch is operating within its edu allotment.**

#### **11. DEVELOPER AGREEMENT REVISION**

For 2017, the Developers Agreement and Water and Sewer Services Agreements will be re-reviewed and revisions recommended as needed.

#### **12. TOFA RULES AND REGULATIONS UPDATE AND CONSOLIDATION**

The plan for this assignment in 2017 is to begin with the Developers Agreement and then expand that effort to all rules and regulations dealing with developers and development projects. Then staff and consulting staff will assess and prioritize the remaining rules and regulations areas.

#### **13. CONTRACTOR SERVICES AGREEMENT – BCWSA**

The three-year discretionary Contractor Services Agreement between TOFA and the BCWSA is now in its second year. Staff is very satisfied with the BCWSA work and pricing. Staff continues to evaluate options for the more time-sensitive repairs. Staff continues to seek out and evaluate local water and sewer emergency repair contractors. Staff is continuing to cultivate local contractor involvement in TOFA emergency projects.

#### **14. SAFETY**

As the result of staff feedback, the safety committee is moving forward with the following items:

- **Anti Harassment/Bullying Training - One of Two Courses Completed**
- The procurement of two stocked first aid cabinets. - COMPLETED
- The procurement of two AEDs. - COMPLETED
- The scheduling of AED and First Aid Training. - COMPLETED
- Procurement of an additional eyewash station. – ORDERED
- Start Pilot Tire inspection program. - COMPLETED

- The purchase of a shelter for a lift station control panel. The shelter has been received but not yet installed. - PENDING
- The purchase of reflective rain gear. – COMPLETED
- The replacement of the stair case inside the Bargain City lift station. – COMPLETED
- The improvement of the entranceway steps at three stations. – PENDING.
- Railing for Rock Run generator porch. – COMPLETED
- The replacement of the interior staircase at the Bargain City Lift Station. – COMPLETED
- Reflective tee shirts for warmer weather – COMPLETED
- Respirators for chemical mixing – COMPLETED
- Sodium Hypochlorite warning signs for chemical storage areas – PENDING
- Purchase and distribution of HI-VIZ tee shirts and vests – COMPLETED
- Exploration of GPS vehicle tracking for safety and productivity – COMPLETED
- TOFA has received a grant of \$3,000.00 to the Delaware Valley Insurance Trust (DVIT) for the partial reimbursement of these completed projects. A new two-year grant cycle will begin in January, 2016. Staff has notified DVIT of its intent to file a grant application in 2017.
- A motor vehicle accident involving a TOFA vehicle (#316) and two TOFA employees occurred on the afternoon of September 19. Accident details were provided to the Board in a separate memo.
- Defensive Driving Course and test - COMPLETED

In-house safety training sessions have been conducted covering various topics of eye and foot protection, first aid – initial response and hazard recognition and control. The last videos covered Office Safety and Ladder Precautions. DVIT continues to provide additional videos for TOFA’s regular safety meetings.

### **15. SECURITY**

The installation of eight surveillance (four inside and four outside) cameras is complete. The two most recent additional cameras cover the Board room and the service vehicle parking area. Access by operational personnel to the administrative portion of the building has been reduced by moving the work assignments pickup location including the One-Call printer to the kitchen. A work station for the Foreman has also been established in the kitchen area. A wide-screen camera monitor has been installed in the administrative office for added real-time security awareness. The log-on password has been changed to block unauthorized access.

### **16. TOFA VEHICLE FUEL PROVIDER CHANGE (Falls Township)**

**On April 10 TOFA began fueling at the Falls Township gas/diesel pump. Usage reports and invoicing will occur quarterly.**

### **17. ULTRASONIC WATER METERS**

As a follow-up to an earlier email to the Board on this topic, staff continues its due



diligence with regard to other organizations experiences with this technology. Most notably, the Washington (DC) Suburban Sanitary Commission (WSSC) is two months into an exhaustive test of the Kamstrup meters. So far the performance indicators are positive. The WSSC system has approximately 450,000 accounts and operates its own meter laboratory. The WSSC will not allow bids with meters it has not tested first. TOFA's own bench testing has shown the capture of greater water flow by the Kamstrup meters than by the Neptune meters. The Operations Manager has provided the data. The Board approved a 20-meter ultrasonic technology pilot. The meters were received and were installed in customer homes in September-October, 2016. The installation of the ultrasonic meters is completed. Neptune has recently unveiled its ultrasonic bronze meter. The TOFA Board has approved the purchase and testing of 20 of these meters at a cost of \$5,120.00. Staff is developing a random testing study of existing Neptune meters to develop baseline data.

#### **18. CAPITAL EQUIPMENT**

For 2017 staff will continue its evaluation of video equipment in an effort to identify the most useful and cost effective technology for TOFA's purposes. There are no funds budgeted for camera equipment in 2017.

With Board approval in 2016, TOFA purchased a 4" Gorman Rupp portable diesel pump for sewage overloads and emergency situations. The pump was purchased through Sanders Power Equipment, which was the low bidder, for \$36,247.00.

**With Board approval, staff has purchased a paper folder, envelope inserter and sealer machine to improve efficiency of the billing process.**

#### **19. SUMMER HIRING PROGRAM**

Staff has received inquiries from several of the students employed by TOFA last summer about prospects for employment this summer. **Funds have been budgeted to continue this program this year and with Board approval staff will begin making hiring commitments.**



**TOWNSHIP OF FALLS AUTHORITY**

**Engineering Status**  
**April 26, 2017**

**Current Business:**

- 1) **Chatham Water Investigation/New Falls Road Pilot Study:** TOFA Staff continues to test residential properties along Chatham Road, Beaumont Road, and Auburn Road for iron to check water quality. The Zinc Polyphosphate Injection System at the New Falls Road Interconnect has been online for a little 60 days. Sampling at the interconnection and at testing sites in the distribution system show that iron levels are decreasing. Sampling

continues at residential locations and interconnections. Meeting with DEP is scheduled for July 28, 2016. RVB requested pilot study extension to perform final sampling, evaluation, and report. RVB submitted permit application to DEP. DEP provided comments on permit application. Revised permit was resubmitted. DEP issued Administrative Completeness letter. **Still awaiting permit from DEP.**

- 2) **2016 Water Main Cleaning and Lining Project:** Board formally awarded the project to J. Fletcher Creamer & Sons on March 30, 2016 in the amount of \$813,800.00. Project will address the cleaning and lining of water mains along the 600 and 700 Blocks of Auburn, Beaumont, and Chatham Roads, and Dunedin Road between Trenton Road and Chatham Road. RVB forwarded contracts to Authority for execution. RVB held preconstruction meeting on May 6, 2016. Information session with the residents was held on May 19, 2016. Township approved the waiver of Road Opening Permit fee. Construction began on June 13, 2016. Customers will be re-introduced to the system starting August 22, 2016. All locations are connected to the distribution system. Friction Factor (C Factor) test exceeded the requirements of the Contract. RVB, Authority Staff and Township Engineer performed site walkthrough with Contractor to discuss paving and sidewalk restoration. A preliminary punch list was generated. Township approved the ADA ramps. Contractor remobilized to address ADA ramps, paving, and sidewalks. TOFA Staff and RVB had a status meeting with Contractor on January 19<sup>th</sup>. **Will discuss at meeting.**
- 3) **Collingswood Tank Improvements/Austin Tank Evaluation/Cabot Diesel Standpipe Evaluation:** Board directed RVB to evaluate the Austin elevated water tank and Cabot Diesel standpipe to determine the condition and outline the timeframe for improvements with costs. RVB has prepared scope of work and proposed construction schedule. Bid package has been prepared with payment plan consisting of equal annual payments. RVB is also seeking quotes from tank painting contractors. Southern Corrosion inspected both the tank and the standpipe. Report and quote are forthcoming. Pittsburgh tank provided a quote for the tank and the standpipe. RVB requested quote for the Collingswood Tank from Pittsburgh Tank. Board directed staff to enter into 10-year maintenance contract with Southern Corrosion for the Collingswood Tank Improvements. The contract will be an extension of the Penn Warner Tank contract. RVB and Staff are determining when to schedule the Austin Tank and Cabot Diesel improvements. Based on interim disinfection by-product (THM and HAA5) sampling performed by the Authority at the interconnects and tanks, the THM levels are more of a concern at the tanks than HAA5 levels. RVB recommends draining the Collingswood Tank in 2017 instead of 2021 per the maintenance agreement with Southern Corrosion. This would allow the Authority to install a mixer to prevent THM

violations. **Permit was issued for the mixer. Safety ladder did not require permitting. Tank work is underway.**

- 4) **TOFA Building Center Space Fit Out:** Board directed RVB to design structural fit out of center space in preparation for rental. Staff is reviewing the preliminary layout and construction cost estimate. RVB prepared a two-phase layout and construction schedule to allow the installation of the garage doors and associated concrete work and parking lot re-striping as Phase 1 not to exceed the 2017 budget amount of \$50,000. The locker room expansion and associated work is scheduled for Phase 2 for an estimated cost of \$156,000. Per the Board's direction, RVB revisited the design and modified the locker room expansion. Authority staff reviewed and approved the revised design. Earth Disturbance and Building Permit Applications were submitted to the Township for Phase 1 to address the installation of the garage door. RVB has solicited quotes for Phase 1. Two quotes were received for the garage door. Quotes are enclosed. Board awarded the garage door installation to Philly Overhead Door in the amount of \$6,709.04. **Signed quote was provided to Contractor. RVB is awaiting contractor to provide insurance paperwork prior to scheduling pre-construction meeting.**
- 5) **TTHM & HAA5 Investigation:** RVB and Authority staff have been working together to study the levels of disinfection by-products (DBPs), trihalomethanes (THM) and haloacetic Acids (HAA5). RVB recommended additional sampling outside of the Authority regulatory sampling to determine if measures should be taken to prevent increased levels of DBPs in the distribution system. The initial sampling showed that HAA5 levels were higher at the interconnections (58% of the MCL of 60 ug/L) and THM levels were higher at the tanks (85% of MCL of 80 ug/L). RVB recommends the installation of autoflushers as a cost-effective way to increase water turnover and reduce HAA5 levels at the ends of the distribution system. RVB also recommends the installation of mixers at the tanks to reduce THM levels. A Public Water Supply Permit has been submitted for the installation of a mixer at the Collingswood Tank. Permit was issued by DEP. **Nothing to report at this time.**
- 6) **2017 I/I Project:** The Board requested cost estimates for the remaining areas of the sewer system. The remaining areas include approximately 36,000 LF of 8-inch pipe and approximately 1,300 LF of 18-inch pipe. The list of locations were enclosed in last month's board packet. The estimated construction cost for these areas is estimated at \$700,000. Per the Board's Direction, the project will focus on addressing I/I in the area near Bishop Egan High School. RVB is currently doing field work with Authority staff to determine actual pipe footages, number of manholes to be addressed, and if there are any access issues. **Bid opening was held on April 13, 2017 at**

**10:00AM. The two bids exceed the Authority's budget for the I/I work. RVB recommends rejecting all bids and rebidding the project (See enclosed correspondence).**

- 7) **2017 Water Main Lining Project:** The 2017 project includes addressing the 800 Block of Auburn Road, 100-200 Blocks of Waltham Road, Tewksbury Road, and Wyandotte Road. RVB recommends the inclusion of 200 Block of North Olds Boulevard based on recent iron results. This next phase of the water lining project has longer roads which are curved. These curved roads would require more access pits. More sidewalks and handicap ramps would be effected due to the existing mains being located in the sidewalks. Coordination with the Township would be required to determine paving requirements and to see if the Township could include these locations in their Road Program to cut down on paving costs. RVB recommends the Board consider bidding the project as a lining project and as a main replacement as an alternate bid. **Design is underway. Will discuss at meeting.**
- 8) **Second Trenton Road Interconnection w/LBCJMA:** LBCJMA approached Authority staff about creating a second interconnect with TOFA on Trenton Road near 1004 and 1008 Trenton Road. The interconnect is proposed to improve water quality for both authorities. LBCJMA would cover the costs of the vault and connection to their system. TOFA would be responsible for the wet tap to their main and connection to the vault. The estimate for TOFA's contribution is approximately \$21,000.00. RVB and Authority Staff met with LBCJMA on November 29<sup>th</sup>. LBCJMA wants to start work in the next 8 weeks. RVB obtained the PennDOT HOP. **RVB is applying for a Public Water Supply and Water Allocation Permit for the new interconnection. BCWSA is starting the work on Monday, March 20<sup>th</sup>.**
- 9) **BOD/TSS Study:** Per the settlement of the high strength surcharge lawsuit with BCWSA, a study to find the sources of high Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) must be conducted. The cost of the study is \$50,000. RVB has prepared a scope of work for this study and submitted it to Authority staff for forwarding to BCWSA. BCWSA approved the Scope of Work. **RVB has begun receiving questionnaires for evaluation.**
- 10) **Water Quality Parameters:** Per the Board's direction at last month's meeting, RVB with the assistance of Authority staff has come up with water quality parameters and limits to hold LBCJMA to as TOFA's water purveyor. RVB recommends these parameters and limits be shared with LBCJMA for discussion and inclusion in the new agreement or as a separate memorandum of understanding for water quality. RVB and Authority Staff met with

LBCJMA on November 29<sup>th</sup>. **Nothing to report at this time.**

- 11) **Sewage Flow Increase to BCWSA:** The Board tasked RVB with investigating why there was an increase in flows from May to August 2016 compared to flows from the same time period in 2015. Memo was provided to Board at November's meeting. **Nothing to report at this time.**
- 12) **Relocation of 12" Water Main to Lower Morrisville Road:** 12" water main break occurred by the creek near Lower Morrisville Road and Route 13. RVB applied for an emergency permit on behalf of the Authority. The water main has been repaired and the restoration of the area disturbed by the break along Rock Run was completed. RVB has initiated a PA One Call and survey was completed. **RVB has been coordinating with Staff and contractors to find a cost effective, trenchless solution to relocation. Will discuss at meeting.**
- 13) **New Falls Interconnect Generator:** Authority staff desires to have a generator to provide back-up power to the interconnect in case of a power failure. RVB met with Authority staff. Draft bid documents are with staff for review and approval. **Bid opening is scheduled for May 24<sup>th</sup> at 10AM.**
- 14) **SCADA Proposal:** The Authority has \$100,000 budgeted for the installation of Supervisory Control and Data Acquisition (SCADA) equipment. In communicating with Authority staff, RVB recommends that the Tyburn Road Sewage Pumping Station and the New Falls Interconnection be equipped with SCADA first to build the Authority's system.
- 15) **PA Small Water and Sewer Grants:** The Commonwealth Financing Authority Board is meeting on March 29<sup>th</sup> to select the grant recipients. TOFA was not successful in obtaining a PA Small Water and Sewer Grant for the water and sewer projects. **RVB has prepared a recommended list of water and sewer projects that can be done with budgeted funds. (See attached)**

**Old Business:**

- 1) **Falls Township Act 537 Plan/Neshaminy Interceptor Agreement:** Township authorized RVB to update the Township's Act 537 Plan. BCWSA Analysis of the Neshaminy Interceptor along with improvement costs must be updated in the plan. Per the requirement of DEP, Plan has to be resubmitted to include BCWSA Implementation Schedule and Financing. BCWSA forwarded these documents to all municipalities on September 19, 2016. TOFA Staff and RVB met with the Township to discuss the Act 537 and the Neshaminy Interceptor Agreement on October 3, 2016. RVB and TOFA had follow up meeting with Township on March 6, 2017. A joint meeting with

DEP was held on March 21<sup>st</sup> to discuss the revised draft agreement to get DEP support and feedback. **Will discuss at meeting.**

