

Minutes of Meeting #536, August 22, 2016 – Stony Brook Regional Sewerage Authority

LOCATION: Conference Room, River Road Plant, Princeton, NJ

MEMBERS PRESENT: Bartolini, Compton, Downey, Goldfarb, Morehouse

MEMBERS ABSENT: Patel

CONSULTANTS: Alexander

STAFF PRESENT: Bixby, Carlino, Hess, Irizarry, Kantorek, Rahimi, Redding, Roga, Sears, Thomas

536.01 Chairman Bartolini indicated that pursuant to Section 13 of the Open Public Meetings Act, adequate notice of the time and place of this meeting was given by filing with the Authority's official newspapers, each Clerk of each municipality and by being posted on the Princeton Bulletin Board and on the Authority's website.

536.02 Approval of Minutes

Chairman Bartolini asked for questions/comments on the minutes from the July 25, 2016 Board meeting. Mr. Kantorek noted that the last sentence on page 25 read "The Board then unanimously (6-0) approved the 2016 Non-Union salary increases." It has been changed to read "The Board then unanimously (6-0) approved the 2016 Non-Union salary increases of 2.65%. The Assistant Safety Manager was promoted to Safety Manager with an increase of \$5,000." Mr. Kantorek noted that there was a format error on page four in the recorded vote. The word "A BSENT" was corrected to read "ABSENT". The minutes were then approved as amended on a motion by Dr. Downey, seconded by Mr. Goldfarb and passed by a vote of 5 to 0.

Mr. Kantorek introduced Mr. Matt Thomas the new IT Manager. The Board welcomed Mr. Thomas.

In addition, Mr. Kantorek noted that Mr. Irizarry was promoted to Safety Manager. The Board congratulated Mr. Irizarry.

536.03 Board Related Activities

Consultant List

Mr. Kantorek noted that one contract is pending award tonight for Kleinfelder and will be discussed in the Construction section of the meeting.

536.04 Planning and Administration

Mr. Kantorek reported that the most current 12-month average daily River Road plant flow is 8,434,034 gpd with 791,047 gpd of approved but inoperative flow for a total committed flow of 9,225,081 gpd with 3,834,919 gpd or 29.36% of available capacity. The most current 12-month average daily flow at the Hopewell Plant is 215,673 gpd with no inoperative flow, for a total committed flow of 215,673 gpd with 28.11% or 84,327 gpd of available capacity. The Pennington Plant presently has 234,262 gpd as the most current 12-month average daily flow, with 19,038 gpd of approved but inoperative flow, for a total committed flow of 253,300 gpd, with 15.57% or 46,700 gpd of available capacity. Mr. Kantorek noted that most of the inoperative flow total for the Pennington Plant is the unused portion of Bristol-Meyers Squibb approved flow.

Mr. Kantorek noted that the low 12-month average daily flows are the result of approximately four years of below normal rainfall and that these flow totals are not indicative of normal rainfall conditions.

Monthly Flow Transmittal

The monthly flow transmittal for July was provided for information.

The meter verifications were conducted by staff on July 1, 2016. All billing meters were within ±5%

536.05 Approval Requests and Actions

TWA-1 Approvals

**Heritage at Pennington, Block 102, Borough of Pennington**

Mr. Kantorek reported that this project is for the construction of 2,192 linear feet of 8-inch diameter sanitary sewer to provide service to the Heritage at Pennington residential development. The development consists of 80 residential units (32 villa units, 32 townhouse units, and 16 condominium/Council on Affordable Housing units).

67	3-bedroom	300 gpd/unit	20,100 gpd
10	2-bedroom	225 gpd/unit	2,250 gpd
3	1-bedroom	150 gpd/unit	450 gpd
Total Flow			22,800 gpd

Mr. Kantorek indicated that this project has received the Borough of Pennington Planning Board Approval and approval of the Pennington Borough Water and Sewer engineer certifying to the capacity of the wastewater conveyance system.

Mr. Kantorek explained that over the past few years American Properties at Pennington, LLC has been in contact with SBRSA relative to available capacity at the Pennington WWTP (and met with them in 2013 and 2014). SBRSA also discussed this project with Pennington at a Borough Council meeting.

Mr. Kantorek reported that in discussions with American Properties, SBRSA indicated that although the current available capacity is in excess of the requested 22,800 gpd, we are in a drought and the flows are not representative of the actual available capacity during “normal” conditions. Staff did suggest that they should consider conducting the project in phases.

There were periods of time during 2004 and 2006 when the 12-month average flow exceeded the average plant capacity of 300,000 gpd. At the end of 2011 and beginning of 2012 the 12-month average flow ranged from 275,000 gpd to 298,000 gpd. In 2014 the 12-month average flow was as high as 275,000 gpd. In addition Bristol-Myers Squibb (BMS) has an approved allocated capacity of 25,000 gpd. BMS is currently contributing on an annual average flow basis approximately 6,000 to 7,000 gpd.

Mr. Kantorek indicated that SBRSA believes that once we return to more typical rainfall amounts and groundwater levels, the flows at the Pennington Plant will return to the higher averages seen in the past. SBRSA has indicated to American Properties that there may be between 10,000 to 15,000 gpd of actual available capacity and that they may want to consider a phased approach to their project. However, American Properties submitted their application for the full amount.

Mr. Kantorek indicated that currently the Pennington upgrade and expansion project is under design. It is anticipated that conservatively this project will go out for bid by the middle of 2017 and be should be on-line by mid to late 2019.

Staff has had recent discussions with American Properties regarding this application. Staff indicated that final approval would be the decision of the SBRSA Board and believes the available capacity is the same as originally indicated (10,000 gpd to 15,000 gpd). Based on that information, American Properties indicated that if they were to phase the project their initial request for capacity would be 11,400 gpd and they were open to phasing the project. However, American Properties has not submitted a new application with a reduced capacity request.

Mr. Kantorek stated that the Authority must meet its permit every month. The sewer ban regulations are based on three-month averages, however SBRSA has used twelve-month averages since we are close to capacity at the Pennington STP. Over the past four (4) years there has been approximately seven months where the monthly average flow has been over 300,000 gpd and as high as 402,000 gpd during drought conditions. There have been years when the Pennington Plant annual average flow has been 330,000 gpd. In the past four (4) years Pennington Borough has not reported any significant I&I work and the population has not decreased.

Staff recommended not to approve the TWA application for the Heritage at Pennington for the flow rate of 22,800 gpd.

Mr. Kantorek indicated that a letter via fax was received at 5:12 pm on August 22, 2016 from American Properties' attorney. A copy of the letter was provided to the Board. The attorney for the project indicated that a representative for American Properties was not available to attend tonight's Board meeting.

Chairman Bartolini asked the Authority to provide a letter to American Properties responding to their request for capacity.

A motion was made by Mr. Goldfarb to table this application until either a new application is submitted at the flow rate previously discussed with American Properties or until a representative from American Properties appears to defend the original request for 22,800 gpd. The motion was seconded by Mr. Morehouse.

Ms. Alexander indicated that the rules state that if the Authority does not endorse the project within sixty (60) days of receipt of the original application submittal, NJDEP can act without the Authority's endorsement. Ms. Alexander noted that staff may need to contact the NJDEP indicating that SBRSA will be considering the application at the September 26, 2016 Board meeting.

Mr. Morehouse asked since the Authority does not rely only on the three-month average daily flow, would SBRSA be viewed as capricious. Ms. Alexander indicated that anything can be alleged, however, the responsibility has always been and will always be with the Authority to maintain compliance with its permit. The fact that you comply with the capacity assurance program but the plant cannot perform sufficiently to meet permit limits, does not relieve the responsibility that is still on the Authority. There is no affirmative defense for not meeting the permit based on meeting the Capacity Assurance Program and accepting more flow. Chairman Bartolini indicated that the Authority has been actively working towards upgrading and expanding the Pennington STP.

The discussion continued regarding the availability of other technical defensible basis for not approving the application using the three-month average flow. Ms. Alexander noted that the Board is not saying no to the application but just not yet. The Board approved Mr. Goldfarb's motion to table the application by a vote of 5 to 0.

**East Meadow Estates, Block 94.02, Lots 38 & 6.06, South Brunswick Township**

Mr. Kantorek reported that this project is for the construction of 3,724 linear feet of 8-inch diameter sanitary sewer to provide service to 55 new residential dwellings and 4 existing dwellings (currently on septic systems) located in South Brunswick Township.

55 new units	3-bedrooms	300 gpd/unit	16,500 gpd
4 existing units	3-bedrooms	300 gpd/unit	1,200 gpd
Total Flow			17,700 gpd

Mr. Kantorek noted that the TWA application has been endorsed by the South Brunswick Township engineer. The project has received approval from South Brunswick Township Board of Adjustment.

Staff recommended approval of this application at the requested flow. So moved by Dr. Downey, seconded by Mr. Goldfarb and passed by a vote of 5 to 0.

Time Extensions

None.

NJPDES Enforcement Requested

None.

Water Quality Management Plan Amendments

None

Allocated Flow Update

SBRSA added 4,030 gpd for the Forrestal Professional Center II.

536.06 Regulatory Report

Discharge Monitoring Report (DMR)

Mr. Rahimi reported that the Discharge Monitoring Reports for the month of June were submitted to NJDEP. No violations were reported.

Mr. Rahimi indicated that the July 2016 DMR's are currently under review.

Mr. Rahimi stated that the River Road Quarterly Effluent Surface Water Discharge Waste Characterization Report was submitted to NJDEP for the quarter ending July 31, 2016. This report provides data for a select list of nine priority pollutants which have been historically detected in the plant's effluent.

Residuals Discharge Monitoring Report (RDMR)

Mr. Rahimi indicated that the May Residuals Discharge Monitoring Reports were submitted to the NJDEP. All River Road parameters were compliant with the Authority's Air Permit requirements.

Mr. Rahimi reported that staff is currently preparing the June 2016 RDMR.

## Air Reporting

Mr. Rahimi reported that staff prepared and submitted the 2nd quarter 2016 Excess Emissions and Monitoring Report to NJDEP. Incinerator No.1 operating with the Afterburner (AB) (OS1) had 3.6 hours and Incinerator No. 1 operating with the RTO (OS27) had 0.05 hours of excess oxygen emissions below 3%, respectively. A low oxygen average alone is not the basis for a violation unless the carbon monoxide (CO) concentration is above 100 ppm<sub>dv</sub> at 7% oxygen during the same period. The CO concentration was less than 100 ppm<sub>dv</sub> during the periods when the oxygen fell below 3%.

Mr. Rahimi noted that staff submitted the semi-annual 40 CFR 60, Subpart O report for the first six months of 2016 to the NJDEP. There were no excess emissions reported during this monitoring period.

Mr. Rahimi stated that staff prepared and submitted the Semi-annual Title V Compliance report electronically to NJDEP on July 29, 2016. Five deviations were reported for the period from January 1 through June 30, 2016. Staff also submitted the Semi-annual Deviation Report to EPA on August 1, 2016 for the period of January 1 through June 30, 2016, which is a new requirement. A copy of the deviation report was provided to the Board.

Mr. Rahimi reported that the 2<sup>nd</sup> quarter 2016 Incinerator Sludge Metals Report was submitted to NJDEP. No exceedances were reported for the monthly and rolling-12-month averages for metals in the sludge fed to the incinerators.

## Miscellaneous

Mr. Rahimi indicated that on August 17, 2016 an amendment to the incinerator slag disposal contract was submitted to Waste Management of Pennsylvania. The amendment was needed because SBRSA reached its approved limit of thirty-nine (39) tons. This was due to the major repair to the Incinerator No. 1 hearth level.

## 536.07 Safety

Mr. Irizarry reported that the employee who was injured on June 8, 2016 while attempting to remove a belt from its packaging, was re-evaluated on July 8, 2016, July 21, 2016 and on August 4, 2016. It appears that the fracture is not healing properly and the employee was referred to an orthopedic doctor. He was seen by the orthopedic doctor on August 15<sup>th</sup> and will be reevaluated on September 2<sup>nd</sup>. He has not returned to work as of this reporting period.

Mr. Irizarry noted that as of August 15, 2016 Stony Brook Regional Sewerage Authority has gone 40 consecutive days without a "Lost Time Accident".

Mr. Irizarry indicated that on July 1, 2016 System Sales conducted the annual fire alarm inspection for the River Road facility and the Princeton Pump Station. Staff received the report and no issues were found.

Mr. Irizarry reported that staff has contacted the Plainsboro and Princeton police traffic control units to gather information on what is needed for traffic control during the Millstone Force Main inspection project. They request at least one week notice prior to the start of work and the Authority must provide signs and cones. Their assistance will be needed to inspect and dewater the manholes and again when Pure Technologies conducts their inspection. There will be fees associated with this task.

Training for this reporting period included:

- HAZCOM, fire safety and blood-borne pathogens training for the new IT Manager was provided in-house on August 2, 2016.
- Office safety training for the IT Manager and the Chief Finance Officer was provided in-house on August 2, 2016.

#### 536.08 Litigation

The Litigation Report was provided for information. Ms. Alexander noted that there were two changes to the report.

#### RRWWTP Headworks Facility Project, SBRSA Contract 10-1, Tomar Construction Claims

Ms. Alexander indicated that mediation has been re-scheduled to take place on August 31, 2016 at 10:00 am before Judge Drier (Ret.). The mediation statements will be exchanged on August 26, 2016. Thereafter, counsel for each party will submit a summary of the contested issues and any foreseen problems to the judge. These will not be exchanged.

Mr. Kantorek reported that Resolution 2016-55 is for authorizing the execution of an agreement for mediation services with Norris, McLaughlin & Marcus, P.A. The rate has been established at \$630 per hour for a minimum of ten hours for Judge Drier's (Ret.) time. SBRSA will share equally with Tomar the mediator costs which is \$3,150 for each. Mr. Kantorek indicated that a check must be issued and brought to mediation on August 31, 2016.

Mr. Kantorek recommended approval of Resolution 2016-55, Authorizing the Mediation Services of Judge William A. Drier (Ret.) and Execution of the Agreement to Mediate the Construction Dispute between Stony Brook Regional Sewerage Authority and Tomar Construction, LLC.

A motion was made by Mr. Goldfarb for approval of Resolution 2016-55 and to issuance of a check in the amount of \$3,150. The motion was seconded by Downey and passed by a roll call vote of 5 to 0. Resolution 2016-55 follows.

**Resolution Authorizing the Mediation Services of Judge William A. Dreier (Ret.) and Execution of the Attached Agreement to Mediate the Construction Dispute as between Stony Brook Regional Sewerage Authority and Tomar Construction, LLC**

**Resolution No. 2016-55**

**WHEREAS**, on January 24, 2011, the Stony Brook Regional Sewerage Authority (“SBRSA”) awarded construction Contract No. 10-1 “River Road Wastewater Treatment Plant Headwork Project” to Tomar Construction, LLC as the lowest responsible bidder in the amount of \$9,493,000; and

**WHEREAS**, at the time of completion of the aforementioned project in 2015, certain change order claims, delay claims, costs to SBRSA including, but not limited to, extended engineering fees, counsel fees, and liquidated damages arose between the parties that remain unresolved; and

**WHEREAS**, pursuant to Contract No. 10-1, the parties are required to make a good faith effort to resolve their claims through mediation before any party may submit unresolved claims to a court for adjudication and the expense of the mediation is to be shared equally between the parties; and

**WHEREAS**, mediation is presently scheduled to occur before Judge William A. Dreier (Ret.) at the offices of Norris, McLaughlin & Marcus, P.A. situated in Bridgewater, New Jersey on August 31, 2016; and

**WHEREAS**, the firm of Norris, McLaughlin & Marcus has prepared the attached Agreement to Mediate.

**NOW THEREFORE BE IT RESOLVED**, by the Stony Brook Regional Sewerage Authority as follows:

- 1) SBRSA’s legal counsel, Maraziti Falcon, LLP is authorized to execute the attached Agreement to Mediate, which among other things selects Judge William A. Dreier (Ret.) of the firm of Norris, McLaughlin & Marcus, PA as the mediator and sets forth the mediator’s compensation.
- 2) SBRSA shall share equally with Tomar Construction, LLC the mediator costs set forth in the attached agreement.
- 3) SBRSA authorizes payment for the retainer to be provided to the firm of Norris, McLaughlin & Marcus, PA in the amount of \$3,150.00 prior to or at the time of commencement of the mediation.

Recorded Vote:

	AYE	NO	ABSTAIN	ABSENT
Robert A. Bartolini	X			
Gale D. Downey	X			
C. Schuyler Morehouse	X			
Bharat Patel				X
Harry Compton	X			
David Goldfarb	X			

536.09 Operations Report

River Road Facility

Mr. Kantorek indicated that on July 28, 2016, Two Rivers Water Reclamation Authority completed their new belt filter press/Schwing Pump project. Therefore they are once again bringing us sludge cake as opposed to liquid sludge. SBRSA's test results show little increase in their cake solids.

Mr. Kantorek reported that on July 30, 2016 a severe thunderstorm event occurred that brought approximately six (6) to seven (7) inches of rain in a matter of hours. The flows to the River Road WWTP went from 14 MGD to over 40 MGD within two (2) hours. In order to prevent the biological process from being washed out to the receiving stream (Millstone River), the Plant Blending Line (PBL) was opened at 1839 hours on July 30, 2016, and closed it at 0029 hours on July 31, 2016. During this period of time, 571,000 gallons of wastewater was diverted to the chlorine contact tanks where it was blended with the treated water from our process. Again, the PBL was used only during the peak flow period when the process was at risk. A Hotline call was made to the NJDEP along with a letter requesting an Affirmative Defense for the necessary use of the PBL. An Affirmative Defense is needed because SBRSA's new permit eliminated the use of the blending line. SBRSA has requested an Adjudicatory Hearing requesting the use of the PBL during times of extremely high flows.

Mr. Kantorek explained that the NJDEP indicated that when these big storms come through, they receive many Affirmative Defenses and they are usually granted. This storm was localized to certain areas.

Mr. Kantorek indicated that after the flows subsided from the storms, staff took two of the three Grit Chambers off-line and dewatered them; staff emptied and cleaned one Modified Aeration Clarifier which was left off-line; and all four chlorine contact tanks and all four re-aeration tanks were dewatered and cleaned using a 4-inch diesel pump which was rented.

Mr. Kantorek reported that Incinerator No. 1 was de-slagged by Industrial Furnace Company (IFCO) and an inspection is currently being performed by Chavond-Barry.

### Upstream Facilities

Mr. Kantorek noted that the water flea population within the clarifiers at the Pennington Facility has substantially subsided.

Mr. Kantorek indicated that the Orbal Aeration Tanks at the Pennington Facility are developing foam due to Nocardia. The Nocardia filaments feed on fats, oils, and grease (FOG). Staff has been seeing an increase of FOG for a few months which can be seen at the Pre-Treatment structure and floating on the Primary Clarifiers. Staff has spoken with Mr. Rick Smith, head of Pennington's DPW, who assured staff that he would investigate the problem.

### Odor Report

Mr. Kantorek reported that staff received three odor complaints during the month of July and one odor complaint for the partial month of the August 2016 reporting period.

### Customer Septage and Sludge Deliveries

The quantities of liquid sludge and sludge cake exceeded their budgeted amounts of 73% and 10%, respectively while the quantity of gray water was below its budgeted amount for the month of July.

Mr. Kantorek reported that Somerset Raritan Valley Sewerage Authority (SRVSA) received their Notice of Violation which is the starting point for them to resolve their incinerator issues. They will meet with the EPA on October 15, 2016 to begin negotiations for an Administrative Consent Order (ACO). The ACO will include the timeframe for SRVSA to come into compliance and some type of penalty for coming into compliance after the original deadline. There is no way to determine how long it will take for this process.

## 536.10 Maintenance

Mr. Roga reported Orbal Tank #2, Drive #2 at the Pennington Plant was taken offline on July 7, 2016 to replace a broken coupling assembly that connects the two aerator disc shafts that span the tank. After installing the new assembly, the drive was tested and placed back into service.

Mr. Roga indicated that on July 19, 2016 while performing monthly preventive maintenance on the RTO forced draft fan, it was found that the motor base plate had three out of four broken mounting studs. The RTO fan was taken offline for several hours to re-anchor the frame. Half-inch steel plates were made and welded to the frame and sub-frame to eliminate any future issues. Once the fan was tested it was placed back into operation.

Mr. Roga reported that Belt Press No. 3 was removed from service on July 21, 2016 to remove the steering roller due to a badly worn bearing. A spare roller had been assembled with new bearings beforehand to minimize down time. After installing the new steering roller, the press was tested and placed back into service.

Mr. Roga explained that Belt Press No. 2 was removed from service on July 25, 2016 because of a tear across the center of the belt. After further investigation it was discovered that the tear was caused by the drainage tray bracket that had become loose. Once the bracket was repaired, the torn belt was removed and a new belt was installed. After testing the press and following the belt break-in procedure the press was returned to normal operation.

Mr. Roga stated that the Incinerator sump pump control panel was replaced on August 1, 2016 due to a faulty circuit board which caused the automatic function to be inoperable. The faulty circuit board also did not allow sump pump No. 2 to operate after sump pump No. 1 had failed because the check valve had become clogged. Sump pump No. 1 was replaced and both check valves were removed and repaired. After all the repairs were completed and all equipment was tested, the pumps were placed back into operation.

Mr. Roga reported that the current monthly open work requests stand at seventeen (17). The preventive maintenance graphs show that SBRSA is currently averaging two (2) days overdue and the number of overdue units is approximately thirty (30).

#### 536.11 Construction Report

##### Preliminary Draft 2016 Future Facilities Improvements Plan

Mr. Bixby reported that the Preliminary Draft 2016 Future Facilities Improvements Plan and a summary of the changes from 2015 to 2016 report were provided to the Construction Committee and reviewed extensively.

Dr. Downey indicated that the draft plan and summary was discussed at the Construction Committee meeting and the plan will be presented to the Board at the September Board meeting. The Committee is not recommending any significant changes to the plan. Mr. Goldfarb voiced a concern regarding the manner in which the new Filtration/Disinfection Byproducts Compliance project was added to the plan. Dr. Downey indicated that this project, in part, is a result of the Authority's new discharge permit which was final in June 2016 and that the new permit includes two new parameters that will need to be met in three years. The members of the Construction Committee had a lengthy discussion regarding this project and the plan in general. Mr. Goldfarb indicated that projects such as the Filtration/Disinfection Byproducts Compliance project should be identified sooner in the planning process and that projects should not come up for action unless they have already been identified in the Future Facilities Improvements Plan. Chairman Bartolini indicated that including these projects in the plan is the ideal situation which cannot always be met. However, staff will continue to strive towards that goal in future iterations of the plan.

##### Phosphorus Impact Modeling Study

Mr. Bixby reported that Kleinfelder is actively working on the project with populating the model with historic data. Kleinfelder expects to have the model setup and calibrated in September.

### Odor Sampling and Evaluation

Mr. Bixby noted that TRC was on site August 15<sup>th</sup> and 16<sup>th</sup>. A SBRSA staff member accompanied TRC on both days to take and compare readings with our new H2S analyzer. Once the odor evaluation is completed staff will summarize the data. Mr. Bixby noted that the weather conditions for the two days of sampling were ideal since it was hot and humid.

### Millstone Force Main Condition Assessment

Mr. Bixby reported that R3M continues to evaluate the existing system for preparation of the technical memo summarizing the tasks for the condition assessment. Staff has provided R3M with additional data and still needs to provide them with flow data.

Mr. Bixby noted that Pure Technologies has scheduled a site visit to the Millstone Pump Station on August 24, 2016 to review the piping for deployment of the equipment with the actual team that will be conducting the work.

### River Road Filtration/Disinfection Byproducts Compliance

Mr. Bixby explained that River Road Filtration/Disinfection Byproducts Compliance study is twofold. The first part of the study is to assess the condition of the existing Filter Building. The existing piping and valves in the Filter Building are 38 years old and have reached the end of their useful life. The backwash valves, surface wash valves, effluent rate control valves, and cell waste valves all leak. The existing ductile iron piping is corroded and in need of replacement. The filter media is approximately 25 years old and also needs replacement. In addition to the conditions assessment the study will include an evaluation of the replacement/rehabilitation of the existing system or the installation of alternative filtration system.

The second part of the study will address two new parameters added to the discharge permit for River Road. Mr. Bixby indicated that the recently renewed discharge permit for the River Road plant has effluent limits for Chlorodibromomethane (CDBM) and Bromodichloromethane (BDCM). These parameters are new to the permit. Currently the limits are report only with compliance within 36 months from the effective date of the permit (to be achieved by July 1, 2019) SBRSA has requested an adjudicatory hearing for several issues with the permit including a request for a 5-year compliance deadline to meet the CDBM and BDCM effluent limits (July 2021). Staff has requested that Kleinfelder provide an evaluation of alternatives to meet the CDBM and BDCM limits.

Mr. Bixby indicated that staff received a proposal from Kleinfelder to conduct a study for alternatives to rehabilitate or replace the existing filters and to comply with the new CDBM and BDCM limits at the River Road WWTP. The proposed cost for this study is \$93,060.

Dr. Downey stated that this study/project was discussed at the Construction Committee meeting. There is new membrane filtration technology that could be employed to address the new CDBM and BDCM limits as well serving as a replacement for the existing filtration system. This

technology is being used at one of the new Montgomery Township treatment plants. Since SBRSA will have to meet these two new parameters and since the filtering system is old, it is prudent for the Authority to investigate newer technology options for filtering. The study will allow the Authority to look at all its options and to make an intelligent decision at the end of the study. Dr. Downey noted that Mr. Timothy Bradley from Kleinfelder was present at the Construction Committee meeting to answer any questions regarding the study. Mr. Bradley indicated that among others issues, the Authority's current filtration is not readily expandable and, in the event that River Road treatment plant were to be expanded, the existing Filter Building would, most likely, need to be replaced. The Construction Committee is in agreement to proceed with the study at a cost of \$93,060.

Chairman Bartolini asked if there was a cost estimate for the project. Dr. Downey indicated that an amount of \$8 million has been used as a placeholder for the project until a more definitive figure can be determined. Mr. Kantorek noted that the \$8 million is for the Filter Building only and that approximately \$9 million may be needed for CDBM and BDCM treatment. The time to complete the entire project is estimated to be five (5) years.

Staff recommended approval of Resolution 2016-54, Award of a "No Political Contributions Allowed" Contract to Kleinfelder for the River Road WWTP Effluent Filtration and Disinfection Byproducts Compliance Study in an amount not to exceed \$93,060.

So moved by Downey, seconded by Mr. Compton and passed by a roll call vote of 4 to 0. Mr. Morehouse abstained. Resolution 2016-54 follows.

**Resolution Authorizing Award of a "No Political Contributions Allowed" Contract to Kleinfelder for the River Road WWTP Effluent Filtration and Disinfection Byproducts Compliance Study**

**Resolution No. 2016-54**

**WHEREAS**, the Stony Brook Regional Sewerage Authority's ("Authority") River Road WWTP filters are approximately 38 years old and have many leaking valves, the media is old and in need of replacement and the existing ductile iron piping is severely corroded; and

**WHEREAS**, the filters are in need of replacement or repair; and

**WHEREAS**, before proceeding with the rehabilitation or replacement of the existing deep bed dual media filters, SBRSA desires to conduct an evaluation based on operational advantages/disadvantages of the continued use of the existing filter type versus newer technology type filters (disc-type and membrane filters); and

**WHEREAS**, the recently renewed River Road WWTP discharge permit includes limits for Chlorodibromomethane (CDBM) and Bromodichloromethane (BDCM) which are currently report only and compliance within 36 months (July 1, 2019); and

**WHEREAS**, SBRSA has filed an adjudicatory hearing to request a 24-month time extension for compliance with the CDBM and BDCM (July 2021) among other permit issues; and

**WHEREAS**, an evaluation to meet the CDBM and BDCM requirements is necessary; and

**WHEREAS**, SBRSA requested that Kleinfelder provide a proposal to evaluate both the filtration and CDBM and BDCM requirements and provide recommendations; and

**WHEREAS**, Kleinfelder provided SBRSA with a proposal for the above mentioned dated August 18, 2016 in the amount of \$93,060; and

**WHEREAS**, staff recommends award of this contract to Kleinfelder in the amount of \$93,060; and

**WHEREAS**, Kleinfelder has a submitted a Business Entity Disclosure Certification for SBRSA Fiscal Year 2016 which certifies that Kleinfelder its subsidiaries, assigns or principals controlling in excess of 10% of the company has neither made a contribution that is reportable pursuant to the Election Law Enforcement Commission pursuant to N.J.S.A. 19:44A-8 or 19:44A-16, in the one (1) year period preceding the award of the contract that would, pursuant to P.L. 2004, c.19, affect its eligibility to perform this contract, nor will it make a reportable contribution during the term of the contract to a municipal political party committee of a governing body that appoints members to the Authority including, Princeton, South Brunswick Township, West Windsor Township, Hopewell Borough, Hopewell Township, and Pennington Borough, when the contract is awarded, or to any municipal candidate committee of any candidate for or holder of municipal elective public office of any such municipality when the contract is awarded; and

**WHEREAS**, the Stony Brook Regional Sewerage Authority has Funds available in retained earnings.

**NOW THEREFORE, BE IT RESOLVED** that the Board of the Stony Brook Regional Sewerage Authority authorizes the Chairman to enter into a contract with Kleinfelder as described herein; and

**BE IT FURTHER RESOLVED** that the Business Disclosure Entity Certification and the Determination of Value is on file.

Recorded Vote:

	AYE	NO	ABSTAIN	ABSENT
Robert A. Bartolini	X			
Harry Compton	X			
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse			X	
Bharat Patel				X

Contract 16-1 Schwing Pump Replacement Project

Mr. Bixby reported that staff received comments from NJDEP on August 11, 2016 for this project. A copy of the letter from NJDEP was provided to the Board. GHD is in the process of addressing the comments.

Pennington WWTP Upgrade and Expansion

Mr. Bixby indicated that on August 11, 2016, staff and Kleinfelder visited the Pike Brook Treatment Plant in Montgomery Township to look at an enclosed UV disinfection system that could potentially be used for the Pennington WWTP design. As indicated last month, Staff previously looked at open channel UV disinfection systems.

In addition Kleinfelder conducted the following for the Pennington WWTP design:

- Surveyed the delineated wetlands boundary
- Continued work on the preliminary process/mechanical design
- Initiated work on the preliminary civil design
- Coordinated with numerous equipment manufacturers
- Coordinated initiation of preliminary engineering activities with Kleinfelder's structural engineer and the electrical engineer from Keystone Engineering

Dr. Downey indicated that this project was discussed at length during the Construction Committee meeting. In regards to the Capital plan and the budget, the funding has been changed from the NJEIT to the 2004 Bond proceeds and retained earnings. This was done so that the project can be started sooner and would be completed a year earlier. It would also eliminate an extensive and costly environmental assessment.

A brief discussion regarding the funding followed.

Contract 14-1, SBRSA Emergency Generator Project

Mr. Bixby reported that as of Pay Estimate No. 9 this project stands at 84% complete. During the past reporting period, Thomas Controls, Inc. (TCI) completed the following work at the River Road facility: continued the installation of conduit and wire for the new equipment, installed and wired the quick connect panel, installed the remaining louvers and dampers, and

installed the conduit and wire for the rooftop lighting and receptacles. At the Millstone PS and South Brunswick PS, TCI installed the return air ductwork and dampers.

Mr. Bixby indicated that on July 26, 2016 SBRSA met with TCI and their sub-contractor, Tomar Construction, LLC to review the modifications to the River Road electrical sub-station. Previously TCI stated that a sub-contractor, Warshauer Electric Supply Co. was developing the layout and drawings for the modifications. At the July 26th meeting TCI stated that Warshauer was no longer developing the drawings and that Tomar would be taking over the design work. Subsequent to that meeting SBRSA and KLF has provided information and drawings to TCI/Tomar for their use.

Mr. Bixby stated that the project timeline is now at a point where the completion of the submittal for the proposed sub-station modifications is crucial to avoiding a long delay in the completion of the project. SBRSA has reminded TCI of this issue repeatedly over the last several months.

Mr. Bixby indicated that staff may go back to Princeton and see if they will accept the original design based on the current issues with the re-design work.

Mr. Bixby reported that in addition to the effect on the project timeline, the cost to the project will be affected. TCI initially submitted a proposed change order for the modifications in the amount of \$110,612.86. This amount was based on a draft design from the first sub-contractor, Warshauer. TCI has rescinded that proposal and will resubmit a revised proposed change order based on the new layout/design being developed by Tomar Construction.

Mr. Bixby noted that to date there are several outstanding change orders for this project. SBRSA has indicated to TCI on several occasions that change orders need to be submitted in a timely manner so they can be reviewed and processed by SBRSA. TCI did submit some of the change orders several weeks ago. SBRSA provided comments on these change orders in July and we are currently waiting for TCI to resubmit. To date only two (2) change orders have been approved with potentially nine (9) additional change orders, three (3) of which are credit change orders.

#### Contract 15-3, Ash Handling System Improvements

Mr. Bixby reported that as of Pay Estimate No. 7 this project is approximately 98% complete. On July 21, 2016 BR Welding (BRW) provided a change order proposal to install the new air blast system to alleviate the intermittent ash bridging issue. After reviewing the proposal, SBRSA requested additional information from BRW. BRW is in the process of obtaining the additional information. There is one open item remaining on the contract and that is the replacement of the safety bar for the garage overhead door. The safety bar is defective and needs to be replaced.

#### Contract 16-2, MA Effluent Channel Mixers

Mr. Bixby indicated that Kleinfelder continues to work on the amended design portion of this project i.e. the addition of the basket strainers, VFDs, piping modifications and yard hydrant.

### Contract 16-3 Fire Alarm System for Hopewell and Pennington WWTP

Mr. Bixby noted that the contractor, Meridian Property Services has provided all required contract documents and a preconstruction meeting has been scheduled for August 25, 2016.

### Contract 16-4, Incinerator Center Shaft Drive Replacement

Mr. Bixby reported that SBRSA is in the process of completing their final review of the draft plans and specifications. Once the review is completed, the project will be advertised for bid. It is expected that the project will be recommended for award at the October 2016 Authority Board meeting.

### CEMS Carbon Monoxide Analyzer Replacement

Mr. Bixby indicated that the testing firm, PACE Environmental provided the final PST report and on August 4, 2016, SBRSA submitted the report to the NJDEP for review and approval.

### Plant Influent Flow Meter

Mr. Bixby indicated that SBRSA staff continues weekly calibration checks on the two flow transmitters to establish historical accuracy data on each transmitter. The “as-found” error for the low-side transmitter has ranged from 6.5% to -5.30% and with the exception of one outlier, the error for the high-side transmitter has ranged from 4.24% to -1.89%. Staff will continue to collect weekly data.

### Information Technology

The new IT Manager, Matt Thomas, started on August 1, 2016. Mr. Thomas is in the process of familiarizing himself with our existing systems and reviewing EMA’s reports and recommendations. We have scheduled a site visit with Mr. Bob Reilly from EMA the week of August 29, 2016 to discuss their plan and review any additional questions/comments with Matt.

## 536.12 Finance Report

### Payment of Bills and Claims

Mr. Morehouse moved for approval of Resolution 2016-52 for the payment of bills and claims in the amount of \$1,000,661.73 with two signatures instead of three. The motion was seconded by Dr. Downey.

The payment of bills and claims was passed by a roll call vote of 5 to 0. Resolution 2016-52 follows.

## Resolution Regarding Payment of Bills and Claims

Resolution No. 2016-52

**WHEREAS**, the Stony Brook Regional Sewerage Authority received certain claims against it by way of voucher, and

**WHEREAS**, the staff and Authority members have reviewed said claims,

**NOW, THEREFORE, BE IT RESOLVED** by Stony Brook Regional Sewerage Authority that these claims in the total amount of \$1,000,661.73 be approved for payment with checks bearing two authorized signatures instead of three authorized signatures.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Robert A. Bartolini	X			
Harry Compton	X			
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel				X

The Finance Committee did meet and Mr. Morehouse indicated that he did provide staff with some comments and suggestions.

### Treasurer's Report

Mr. Sears reported for the eighth-month period ending July 31, 2016 net income stands at \$583,381. Revenues are over budget largely due to additional revenue from sludge cake received from Somerset Raritan Valley Sewerage Authority (SRVSA). The Authority has total cash and investments of \$17,069,222 at an average interest rate of 0.27%. The current construction projects balance is \$14,878,668 Mr. Sears noted there are sufficient funds for these projects. The outstanding bond principal balance is \$22,841,891. The change from last period was due to the de-obligation of the 2010 Bond Issue and the subsequent refinancing of the bonds. The next bond payment is due on August 1, 2016. The New Jersey Cash Management Fund yield is 0.15%.

### Monthly Sludge Business Analysis

Mr. Sears reported that net income for the month of July is \$140,216 and the cumulative net income is \$1,006,685.

### Introduction of the 2017 Budget

Mr. Sears began by reviewing the remaining budget schedule.

Mr. Sears indicated that staff will schedule a meeting with the Municipal Chief Financial Officers the second week in September to review the 2017 Authority Budget. Approval of the budget will take place at the September 26, 2016 Board meeting. Mr. Sears noted that the deadline for submission to the State of New Jersey is October 1, 2016. The Budget will be presented at the November 14, 2016 Board meeting for adoption.

Mr. Sears reported that the total 2017 budget request is in the amount of \$15,305,414. This represents an increase of \$364,313 or 2.4% greater than the 2016 Budget. The Participants' charge of \$12,735,414 will increase by \$364,313 or 2.9%.

Mr. Sears indicated that Total Operating Expenses are increasing by \$323,487 or 2.7%. Salaries are budgeted to increase by 1.7%. The required stack test compliance as a result of the new SSI rules will add \$200,000 to the budget. It is anticipated that ash and grit removal will add \$75,000 to the 2017 budget. There was also a small increases for spare parts, outside repairs and buildings and grounds which are normal operational increases.

Dr. Downey asked if the incinerator stack test is conducted every year for three years. Mr. Kantorek indicated that the Authority needs to have three good stack tests (all emissions less than 75% of limits) (one per year) and then stack testing can be conducted every three years. One was conducted in 2016 and testing will be conducted in 2017 and 2018. If the remaining two tests are good, then it will be done once every three years.

Mr. Sears noted that cost for the Incinerator stack tests has been moved from Administrative Expenses to Professional Services.

Mr. Sears stated that Outside Revenues are anticipated at the same budget level as last year. It is not known if the additional Sludge Cake revenue from Somerset Raritan Valley Sewerage Authority will continue.

Mr. Sears indicated that at the advice of the Finance Committee the Authority has increased its capital contribution to fund small capital projects to a total of \$600,000. That contribution in the 2016 budget was \$425,000.

Mr. Sears noted that pages 7 and 8 of the budget show a more detailed breakdown of each line item. Page 11, illustrates the history of the participant charge. The average increase in the participants' charge over the past five (5) years was 1.0% and 1.3% over the past ten (10) years.

Mr. Sears noted that the pie charts on pages 12 and 13 show the breakdown of large component items that make up the budget such as natural gas, electricity and salaries. These charts show that these components have remained relatively flat as a percent of total budget over the past ten (10) years.

Mr. Sears then asked the Board if there were any comments or questions regarding the 2017 budget.

A brief discussion took place regarding the use of the five-year average for participant charges. The year-end charges will be based on actual totals.

536.13 Personnel Report

The Personnel Report was provided for member information.

Mr. Kantorek noted that a correction was made to the first page of the Personnel Report. Mr. Thomas was incorrectly shown as an in-house transfer rather than a new hire. Mr. Kantorek indicated that Mr. Irizarry was promoted to Safety Manager. The Authority has one vacancy.

536.14 Correspondence

For information.

536.15 Old Business

None

536.16 New Business

None

536.17 Open to the Public

None.

536.18 And Such Other Issues as May Come Before the Board

None.

536.19 Adjournment

As there was no further business to come before the Board, the meeting was adjourned at 9:11 p.m. on a motion by Dr. Downey, seconded by Mr. Morehouse and passed by unanimous vote.

Respectfully Submitted,

John Kantorek  
Secretary

Recorded and Written by  
Patricia Carlino  
September 13, 2016