

Minutes of Meeting No. 604, April 25, 2022 – Stony Brook Regional Sewerage Authority

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

MEMBERS PRESENT: Downey, Goldfarb, Morehouse, Switlik, Patel, Vilaro-Munet

MEMBERS ABSENT:

CONSULTANTS: Alexander, Bradley

STAFF PRESENT: Chong, Christiano, Doelling, Pchola, Pizarro, Stewart

604.01

Chairman Downey opened the regularly scheduled meeting at 6:35 p.m. Chairman Downey indicated that pursuant to Section 13 of the Open Public Meetings Act, adequate notice of the time, place of this meeting, and the teleconference information 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 the Authority's website.

604.02 Approval of Minutes

Ms. Pchola noted the change to the March 28, 2022, draft Board Meeting minutes. The Board requested that the fully executed Fourth Tolling Agreement be included in the Board Meeting minutes. The revised minutes were approved by Mr. Goldfarb, seconded by Mr. Morehouse, and passed by a unanimous vote.

604.03 Open to the Public

Chairman Downey opened the public portion of the meeting at 6:38 p.m., hearing no comments from the public; the meeting continued as scheduled.

Dr. Downey stated that Mr. Bradley from Kleinfelder was on the call and requested that the Board Meeting continue starting with the Construction section.

604.04 Construction Report

Mr. Doelling reported that on April 19, 2022, staff received the requested detailed proposal from Kleinfelder (KLF) to conduct a capacity analysis/study of the River Road Wastewater Treatment Plant. Mr. Bradley from KLF was on the call to answer questions or concerns regarding the provided proposal for the River Road WWTP Expansion Study. Staff recommended approval of Resolution 2022-035, Authorizing the Award of a "No Political Contributions Allowed" Contract for the 2022 River Road Study to Kleinfelder.

Mr. Morehouse indicated that the Construction Committee discussed KLF's proposal. The proposal is a wet-end analysis; not a solids process evaluation. Mr. Morehouse also indicated that the study is from a real estate management perspective that would report on available space, the future reallocation of current units, and where and what new units may be located for expansion. The study also considered possible alternatives for solid management and where these alternatives could be located. Mr. Morehouse stated that the study is necessary.

A discussion took place about the Expansion of the River Road Planning Study.

Mr. Vilaro-Munet moved Resolution 2022-035, seconded by Mr. Patel, and passed by a roll call vote of 5 to 0, with 1 abstention. Resolution 2022-035 follows.

**Resolution Authorizing the Award of a “No Political Contributions Allowed”
Contract to Kleinfelder, Inc. for Conducting an Expansion Study for the
River Road Wastewater Treatment Facility**

Resolution No. 2022-035

WHEREAS, the Stony Brook Regional Sewerage Authority received the final New Jersey Pollution Discharge Elimination System (NJPDES) permit for the River Road Wastewater Treatment Plants on November 10, 2022; and,

WHEREAS, the existing facilities have been in operation for approximately 40 years; and

WHEREAS, the existing facilities require capital improvements to address capacity, permit compliance, aging infrastructure, efficiency, and reliability, and

WHEREAS, in order to address these improvements a process evaluation is required; and

WHEREAS, the Finance Director has determined and certified in writing that the value of the work will exceed \$17,500; and,

WHEREAS, Kleinfelder has submitted a detailed proposal dated April 19, 2022, outlining the tasks included in the River Road Expansion Study; and

WHEREAS, Kleinfelder has submitted an Agreement indicating they will provide the River Road WWTP Capacity Analysis Study for a lump sum fee not to exceed \$181,750 without written permission from Stony Brook Regional Sewerage Authority; and

WHEREAS, Kleinfelder has submitted a Business Entity Disclosure Certification 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 Finance Director has certified funds are available in the Unrestricted Fund Balance; and,

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 be placed on file with this resolution.

Recorded Vote:

	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse			X	
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Mr. Bradley thanked the Board and exited the meeting.

Mr. Doelling reported that, at the request of staff, TRC had submitted a proposal to conduct a two-day odor sampling at the River Road Wastewater Treatment Plant and two off site locations, Brookline Court, and Chestnut Court in the Montgomery Woods development. In addition to the usual 36 samples, two additional samples will be collected near the off-site locations in the evening hours between 10:30 and 11:00 p.m. TRC has provided this service for several years. This data is used as a historical benchmark for the levels of odors around the plant site.

Staff recommended approval of Resolution 2022-038, Authorizing the Award of a “No Political Contributions Allowed” Contract to TRC for Odor Sampling and Analysis at the River Road WWTP in the amount of \$19,725. The 2021 TRC contract was in the amount of \$18,305.

As discussed during the Construction Committee meeting, Mr. Morehouse moved Resolution 2022-038, seconded by Mr. Vilaro-Munet, and passed by a roll call vote of 6 to 0. Resolution 2022-038 follows.

Resolution Authorizing the Award of a “No Political Contributions Allowed” Contract to TRC for Odor Sampling and Analysis at the River Road WWTP

Resolution No. 2022-038

WHEREAS, the Stony Brook Regional Sewerage Authority (SBRSA) has a need for the continuation of odor sampling in the summer of 2022 at the River Road Wastewater Treatment Plant (WWTP) and two (2) off-site locations; and

WHEREAS, the analysis will be used as a comparison to the analysis that was conducted in 2009 through 2021 to determine the odor characteristics at the River Road WWTP; and

WHEREAS, TRC has conducted this sampling and analysis in 2009 through 2021 and for continuity and consistency of the data TRC should conduct the sampling and analysis in 2022; and

WHEREAS, the term of this contract will take place during SBRSA’s FY 2022; and,

WHEREAS, the Director of Finance has determined and certified in writing that the value of the work for this contract will exceed \$17,500; and

WHEREAS, TRC has submitted a proposal dated April 5, 2022, indicating they will provide the sampling and analysis on a time and materials basis not to exceed \$19,725 without prior written approval from SBRSA; and

WHEREAS, TRC has completed and submitted a Business Entity Disclosure Certification for FY 2022 which certifies that TRC has not made any reportable contributions to a municipal political party committee of a governing body that appoints members to the Stony Brook Regional Sewerage Authority including Princeton, South Brunswick Township, West Windsor Township, Hopewell Borough, Hopewell Township and Pennington Borough in the previous one year, and that the contract will prohibit TRC, from making any reportable contributions through the term of the contract, and

WHEREAS, the Finance Director has certified funds are available in the 2022 Budget Service Contracts/Outside Services line account 4000-3511.

NOW THEREFORE, BE IT RESOLVED that the Board of the SBRSA authorizes the Chairman to enter into a contract with TRC as described herein.

Recorded Vote:

	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Mr. Doelling reported that Contract 17-1 Pennington WWTP Upgrade and Expansion Project remains 96.4% complete. Staff awaits additional documentation, including as-builts, bonding, and plumbing permit closeouts. The Contractor has stated that shop drawings and spare parts

deliveries are scheduled for April 26, 2022. Provided in the report was a summary of the remaining unresolved items.

Mr. Morehouse reported that he requested staff to continue to work closely with the Contractor to complete this project.

Mr. Goldfarb requested that staff create a policy/standard operating procedure (SOP) for when and how to respond to Contractors who are slow closing out projects.

Mr. Doelling reported that as of payment, application No. 9, Contract 19-2 River Road WWTP UV Disinfection and filtration Project is 44% complete. UV equipment has been installed within the channel, and the UV control panel factory acceptance test has been completed. The Disc Filters have been received and placed on their equipment pads.

Mr. Doelling reported on Contract 22-1 Meter Station No. 6 Flume Replacement stating that the Contractor reports that fabrication of the flume will be completed on May 6, 2022. Delivery and installation of the flume will be scheduled once all parts and materials are received.

Mr. Doelling reported on Project 22-2 GE 90-30 PLC Upgrade, Phase 1 noting that the upgraded PLCs at the pump stations have been installed. Staff is waiting on additional modules. Phase 2 would be to install the modules in the Chemical Building and the Headworks Building.

Mr. Doelling reported that the design package for Project 22-3 Emergency Repair of Nitrification Tank Aerators Structural Supports is expected on April 21, 2022. Staff will review the design and send out a request for quotations (RFQ) for the necessary emergency repairs.

Mr. Doelling reported that during the January 26, and 27, 2022, the fly ash slurry pump (FASP) shut down for maintenance, it was noted that the pump had a slightly noisier power usage signal which diminished following the belt replacement. Staff has created an alarm that will notify the Operators to check the belts based upon the appearance of a noisy signal. Staff will adjust the alarm as necessary.

There were no other Board member comments on the Construction Report. The following Construction Report is included in the meeting minutes for information.

Studies/General

River Road WWTP Phosphorous Impact Modeling Study: There has been no additional action from NJDEP on the study.

Design

Hopewell WWTP Upgrade: Kleinfelder continues with the design phase of this project. The Treatment Works Application (TWA) is being prepared for submittal. An application fee of \$60,020 is required with the submittal.

Small Capital Projects:

Process Control/SCADA

The monthly meter verifications were performed by staff on April 1, 2022. Preventative maintenance was completed for all field devices and process control loops.

Miscellaneous Repair: Instrumentation staff completed the following list of unscheduled repairs during this reporting period.

- River Road Plant
 - Staff found that the I/P convertor for burner 301B was leaking air through a blown gasket. Staff removed the relay cover, replaced the gasket, and reinstalled the cover.
 - Installed the replacement VFD for nitrification return sludge pump No. 3.
 - Replaced RTO combustion chamber thermocouple No. 1 after it was found to be defective.
 - Replaced an output module on the incinerator control panel PLC after it had faulted.
 - Realigned the center shaft cooling air fan No. 2 sail switch, which became loosened due to vibration.
 - Replaced the defective PLC battery and reloaded the program to the PLC for belt filter press No. 3.
 - Created and installed a temporary control panel that includes local controls and an over-torque safety shut down for Nitrification Clarifier No. 4 after it was found that the existing local controls and over-torque switches did not work.
 - Replaced the empty zero calibration gases for CEMS. Unit No. 2, updated the CEMS DAS with new calibration values, and performed an analyzer calibration.
 - Automated a variable setpoint for the Headworks mechanical bar screens.
 - Removed a blown capacitor and replaced blown fuses in the VFD. cabinet for process drain pump No. 2.
 - Created an automated data filter to make looking through the SCADA alarm history screen more intuitive and user friendly.
 - Coordinated the placement of the final effluent booster pump VFDs into ‘energy saving mode’ after realizing that those pumps seldom run at a variable speed.
 - Tested pressure gauges on the Aerzen blowers after it was reported that some of the gauges looked to be inaccurate. Replacement gauges are being ordered and will be installed upon arrival.
 - Cleared the fault on grit blower No. 3 that was making the blower unresponsive to remote operation.
 - Performed a factory reset on the actuator of the effluent valve on filter No. 3 after the actuator had stopped working.
 - Performed troubleshooting and repair of an issue with backwash return pump No. 3 not starting from the control panel.
 - Reset the plant blending line totalizer, which was found to be totalizing despite not having flow.
- Princeton PS.
 - Troubleshooting and repair of a fuel containment alarm at Princeton Pump Station

- Millstone PS.
 - Replaced a defective high influent channel float.

INFORMATION TECHNOLOGY

General: Preventative maintenance was completed for all Information Technology devices and services. During this reporting period:

- Three server backups (ws-instr-1t1, server13, server03) were checked for corruption and readability. We have confirmed that the data is stable and recoverable.
- One new Point-to-Point wireless access point was installed this month
 - The liquid sludge receiving shed for phone connectivity.
- Six new workstations were ordered and delivered.
 - On April 5, 2022, one workstation was configured and installed for SCADA use at the Pennington WWTP.

KnowBe4/Cyber-Security Training:

The 2022 Security Awareness training issued on February 2, 2022, is due on March 1, 2022, and stands at 88% complete (2 Board members and 2 staff remaining).

Verizon Machine-to-Machine Network:

All pump and metering stations are communicating with River Road via M2M.

604.05 Board Related Activities

Ms. Pchola stated that the two (2) consultant contracts pending award were discussed earlier in the Construction portion of the Board Meeting.

604.06 Planning and Administration

Ms. Pchola reported that the most current 12-month average daily flow at the River Road WWTP is 9,253,330 gpd with 1,319,627 gpd of inoperative flow, leaving an available capacity of 2,487,043 gpd. The current 12-month average daily flow at the Hopewell WWTP is 242,767 gpd with 0 gpd of inoperative flow, leaving an available capacity of 57,233 gpd. The current 12-month average daily flow at the Pennington WWTP is 257,335 gpd with 24,129 gpd of inoperative flow, leaving an available capacity of 163,536 gpd.

Ms. Pchola reported that staff performed meter verifications on April 1, 2022. All flow meters were within $\pm 5\%$.

Ms. Pchola reported that on March 9, 2022, an emergency repair of the weir located in Nitrification Tank 1, Stage 2, was performed, which required the work to be conducted during low flows. As a result, the pumps at Millstone Pump Station were shut down early in the morning. This caused the wet well to fill and backup into the flume, resulting in a fake recording of a

maximum flow. The flow data for the period between when the pumps were off and when flows returned to normal was replaced with the average flow before and after the timeframe.

Dr. Downey reported that the entire State of New Jersey was in a drought before the start of April. As of April 2022, most of the state was out of the drought.

Ms. Pchola reported that the Summary of the Meter Summation vs. River Road WWTP Influent Meter indicated a difference of 4.39%, with the River Road WWTP Influent Meter reading higher.

604.07 Approval Requests and Actions

Mr. Doelling reported that four (4) Treatment Works Applications (TWA) would be presented for approval.

Mr. Doelling reported that staff received a TWA for 301 N. Harrison Street; Block 7401, Lot 1.013; located in Princeton. The TWA is for the construction of sanitary sewer service to a 4-story residential building containing 200 units, office space, and a pool. The proposed development will result in a projected sewage flow rate of 41,695 gpd. The project has received Planning Board and Sewer Engineer approval.

Staff recommended approval of Resolution 2022-031, Authorizing Endorsement of Application for Treatment Works Approval Statement of Consent for Sanitary Sewer Improvements for 301 N. Harrison Street; Block 7401, Lot 1.013; Princeton, Mercer County.

Resolution 2022-031 was moved by Mr. Morehouse, seconded by Mr. Goldfarb, and passed by a roll call vote of 6 to 0. Resolution 2022-031 follows.

Resolution Authorizing Endorsement of Application for Treatment Works Approval Statement of Consent for Sanitary Sewer Improvements for 301 N. Harrison Street; Block 7401, Lot 1.013; Princeton, Mercer County

Resolution No. 2022-031

WHEREAS, an application for Treatment Works Approval has been submitted to Stony Brook Regional Sewerage Authority (SBRSA) by Princeton SC Residential Urban Renewal, LLC for construction of sanitary sewer service to a 4-story residential building containing 200 units, office space and a pool; and

WHEREAS, the New Jersey Department of Environmental Protection (NJDEP) requires the certification by the Wastewater Treatment Facility Owner, that the committed flow does not exceed the presently permitted design capacity and with the additional flow proposed by this application; and

WHEREAS, SBRSA has reviewed the application and calculated the projected flow based on the requirements of the N.J.A.C. 7:14A-23.3 Projected Flow Criteria, and the flow calculated based on this criteria is 41,695 gpd; and

WHEREAS, this flow rate for this project was reviewed and approved by the Princeton Sewer Engineer on October 26, 2021; and

WHEREAS, this project was approved by the Princeton Planning Board on October 26, 2021, and endorsed by the Sewer Engineer on Form WQM-003, Consent by Governing Body on April 20, 2022; and

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

Stony Brook Regional Sewerage Authority recommends approval of the Treatment Works Approval application for the proposed allocation of 41,695 gpd in accordance with the N.J.A.C. Projected Flow Criteria.

The Executive Director of SBRSA is authorized and directed to execute the Treatment Works Approval (TWA-1 Application) Form WQM-003 in accordance with the SBRSA Resolution adopted August 21, 1984.

BE IT FURTHER RESOLVED by the Stony Brook Regional Sewerage Authority that the approval shall remain in effect as stipulated in SBRSA's Revised Resolution Affirming Terms for Approvals for TWA-1 Sewer Extension Applications as Amended 11/26/01.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Mr. Doelling reported that staff received a TWA for Cedar Grove Cottages and Community Center, 884 Great Road; Block 9, Lot 3501; located in Princeton. The TWA is for the construction of a sanitary sewer extension to service three (3) new residential buildings, a new multi-purpose building, and an existing building currently utilizing a septic system. The existing septic system will be decommissioned. The proposed development will result in a projected sewage flow rate of 3,614 gpd. The project has received Planning Board and Sewer Engineer approval.

Staff recommended approval of Resolution 2022-032, Authorizing Endorsement of Application for Treatment Works Approval Statement of Consent for Sanitary Sewer Improvements for the Cedar Grove Cottages and Community Center, 884 Great Road; Block 9, Lot 3501; Princeton, Mercer County.

Resolution 2022-032 was moved by Mr. Vilaro-Munet, seconded by Mr. Goldfarb, and passed by a roll call vote of 6 to 0. Resolution 2022-032 follows.

**Resolution Authorizing Endorsement of Application for Treatment Works Approval
Statement of Consent for Sanitary Sewer Improvements for the Cedar Grove Cottages
and Community Center (884 Great Road); Block 9, Lot 3501; Princeton, Mercer
County**

Resolution No. 2022-032

WHEREAS, an application for Treatment Works Approval has been submitted to Stony Brook Regional Sewerage Authority (SBRSA) by the Tenacre Foundation for construction of sanitary sewer service to three (3) new residential buildings, a new multi-purpose building, and an existing building currently utilizing a septic system; and

WHEREAS, the New Jersey Department of Environmental Protection (NJDEP) requires the certification by the Wastewater Treatment Facility Owner, that the committed flow does not exceed the presently permitted design capacity and with the additional flow proposed by this application; and

WHEREAS, SBRSA has reviewed the application and calculated the projected flow based on the requirements of the N.J.A.C. 7:14A-23.3 Projected Flow Criteria, and the flow calculated based on this criteria is 3,614 gpd; and

WHEREAS, this project was approved by the Princeton Planning Board at its September 9, 2021, meeting, and endorsed by the Sewer Engineer on Form WQM-003, Consent by Governing Body on April 12, 2022; and

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

Stony Brook Regional Sewerage Authority recommends approval of the Treatment Works Approval application for the proposed allocation of 3,614 gpd in accordance with the N.J.A.C. Projected Flow Criteria.

The Executive Director of SBRSA is authorized and directed to execute the Treatment Works Approval (TWA-1 Application) Form WQM-003 in accordance with the SBRSA Resolution adopted August 21, 1984.

BE IT FURTHER RESOLVED by the Stony Brook Regional Sewerage Authority that the approval shall remain in effect as stipulated in SBRSA's Revised Resolution Affirming Terms for Approvals for TWA-1 Sewer Extension Applications as Amended 11/26/01.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Mr. Doelling reported that staff received a TWA for the Prentice Lane Single Family Residential Development; Block 4502, Lot 5, located in Princeton: The TWA is for the construction of a sanitary sewer extension to service seven (7) residential lots containing single-family residential homes. The proposed development will result in a projected sewage flow rate of 2,100 gpd. The project has received Planning Board and Sewer Engineer approval.

Staff recommended approval of Resolution 2022-033, Authorizing Endorsement of Application for Treatment Works Approval Statement of Consent for Sanitary Sewer Improvements for Prentice Lane Single Family Residential Development; Block 4502, Lot 5; Princeton, Mercer County.

Resolution 2022-033 was moved by Mr. Morehouse, seconded by Mr. Vilaro-Munet, and passed by a roll call vote of 6 to 0. Resolution 2022-033 follows.

**Resolution Authorizing Endorsement of Application for Treatment Works Approval
Statement of Consent for Sanitary Sewer Improvements for Prentice Lane Single
Family Residential Development; Block 4502, Lot 5; Princeton, Mercer County**

Resolution No. 2022-033

WHEREAS, an application for Treatment Works Approval has been submitted to Stony Brook Regional Sewerage Authority (SBRSA) by Landmark at Princeton, LLC for construction of sanitary sewer service to seven (7) residential lots containing single-family residential homes; and

WHEREAS, the New Jersey Department of Environmental Protection (NJDEP) requires the certification by the Wastewater Treatment Facility Owner, that the committed flow does not exceed the presently permitted design capacity and with the additional flow proposed by this application; and

WHEREAS, SBRSA has reviewed the application and calculated the projected flow based on the requirements of the N.J.A.C. 7:14A-23.3 Projected Flow Criteria, and the flow calculated based on this criteria is 2,100 gpd; and

WHEREAS, this project was approved by the Princeton Planning Board at its July 8, 2021, meeting, and endorsed by the Sewer Engineer on Form WQM-003, Consent by Governing Body on March 25, 2022; and

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

Stony Brook Regional Sewerage Authority recommends approval of the Treatment Works Approval application for the proposed allocation of 2,100 gpd in accordance with the N.J.A.C. Projected Flow Criteria.

The Executive Director of SBRSA is authorized and directed to execute the Treatment Works Approval (TWA-1 Application) Form WQM-003 in accordance with the SBRSA Resolution adopted August 21, 1984.

BE IT FURTHER RESOLVED by the Stony Brook Regional Sewerage Authority that the approval shall remain in effect as stipulated in SBRSA’s Revised Resolution Affirming Terms for Approvals for TWA-1 Sewer Extension Applications as Amended 11/26/01.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Mr. Doelling reported that staff received a TWA for Ellsworth Center; Block 5, Lots 20, 20.1-20.6, 62, 66 & 76; located in West Windsor Township. The TWA is for the construction of a sanitary sewer extension to service seven (7) proposed buildings and five (5) existing buildings. One existing retail/apartment building will be demolished. The proposed development will result in 7,475 gpd of new sewage flow, for a total projected flow of 11,512 gpd of flow from the site. The project has received West Windsor Township Council and Engineer approval.

Staff recommended approval of Resolution 2022-034 Authorizing Endorsement of Application for Treatment Works Approval Statement of Consent for Sanitary Sewer Improvements for the Ellsworth Center; Block 5, Lots 20, 20.1-20.6, 62, 66 & 76; Township of West Windsor, Mercer County.

Resolution 2022-034 was moved by Mr. Vilaro-Munet, seconded by Mr. Morehouse, and passed by a roll call vote of 6 to 0. Resolution 2022-034 follows.

Resolution Authorizing Endorsement of Application for Treatment Works Approval Statement of Consent for Sanitary Sewer Improvements for Ellsworth Center; Block 5, Lots 20, 20.1-20.6, 62, 66 & 76; West Windsor Township, Mercer County

Resolution No. 2022-034

WHEREAS, an application for Treatment Works Approval has been submitted to Stony Brook Regional Sewerage Authority (SBRSA) by Ellsworth Realty Association, LLC for construction of a sanitary sewer extension to service to seven (7) proposed buildings and five (5) existing buildings; and

WHEREAS, the New Jersey Department of Environmental Protection (NJDEP) requires the certification by the Wastewater Treatment Facility Owner, that the committed flow does not exceed the presently permitted design capacity and with the additional flow proposed by this application; and

WHEREAS, SBRSA has reviewed the application and calculated the projected flow based on the requirements of the N.J.A.C. 7:14A-23.3 Projected Flow Criteria; and

WHEREAS, the site contains approximately 4,073 gpd of existing flow; and

WHEREAS, proposed development will result in 7,475 gpd of new sewage flow, for a total projected flow of 11,512 gpd from the site; and

WHEREAS, this flow rate was approved for this project by the West Windsor Township Council at its March 28, 2022, meeting (Resolution 2022-R097); and

WHEREAS, this project was approved by the West Windsor Township Engineer on Form WQM-003, Consent by Governing Body on March 31, 2022; and

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

Stony Brook Regional Sewerage Authority recommends approval of the Treatment Works Approval application for the proposed allocation of 7,475 gpd (total site flow of 11,512 gpd) in accordance with the N.J.A.C. Projected Flow Criteria.

The Executive Director of SBRSA is authorized and directed to execute the Treatment Works Approval (TWA-1 Application) Form WQM-003 in accordance with the SBRSA Resolution adopted August 21, 1984.

BE IT FURTHER RESOLVED by the Stony Brook Regional Sewerage Authority that the approval shall remain in effect as stipulated in SBRSA's Revised Resolution Affirming Terms for Approvals for TWA-1 Sewer Extension Applications as Amended 11/26/01.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Mr. Doelling reported that the current investigation of the underground rock profile on Princeton University's Lake Campus has determined that no further blasting on Lake Campus will be required.

604.08 Regulatory Report

There were no Board member comments on the Regulatory Report. The following Regulatory Report is included in the meeting minutes for information.

Discharge Monitoring Report (DMR.)

The Discharge Monitoring Reports for the month of February 2022 were submitted with no violations reported.

March 2022 DMRs are currently being reviewed.

Residuals Discharge Monitoring Report (RDMR.)

The January 2022 RDMRs were submitted. All River Road parameters were compliant with the Air Permit requirements.

The February 2022 RDMR is currently under review.

Air Reporting

The 1st quarter 2022 Excess Emissions and Monitoring Performance Reports are currently being prepared.

The 1st quarter 2022 Bypass report was submitted on April 14, 2022, with no bypass events to report.

The 2021 Annual Emission Statement is being prepared.

On March 28 through April 1, 2022, staff responded to several Requests for Information (RFI) from NJDEP related to reports previously submitted in 2019, 2020, and 2021 and the more recent in February 2022 affirmative defenses.

Laboratory

The laboratory renewal certification applications for River Road, Hopewell, and Pennington WWTPs were submitted to NJDEP on March 25, 2022.

604.09 Safety

A discussion took place regarding the importance of the safety position and safety training.

Ms. Pchola stated that the Authority had hired a temporary safety consultant and planned to extend their original 4-week contract to continue providing site safety audits of buildings and areas and training/toolbox talks. The safety consultant has updated the safety policy manual, assisted with

training, and provided write ups for toolbox talks. A staff Safety Meeting is scheduled for April 26, 2022.

There were no other Board member comments on the Safety Report. The following Safety Report is included in the meeting minutes for information.

Accidents

As of April 20, 2022, Stony Brook Regional Sewerage Authority has gone 78 consecutive days without any “Lost Time” accidents.

COVID-19/Staffing

There were no new reports of employee exposure to COVID-19 during this reporting period.

Below is the yearly loss time due to positive COVID-19 testing.

Total (2020- present) lost time due COVID-19 is 165 man-days (1,320 man-hours); a more detailed breakdown is provided below. Please note these numbers **do not** include loss time due to quarantining.

- 2020 – September through December – Five (5) employees with 70 days out of work for a total of 560 hours
- 2021 – Three (3) employees with 30 days out of work for a total of 240 hours
- 2022 to date – Seven (7) employees with a total of 65 days for a total of 520 hours

Inspections

Princeton’s annual fire inspection of the River Road WWTP Disinfection Building occurred on March 7, 2022. Three (3) items were noted as violations, and all have been corrected. A reinspection was conducted on April 19, 2022, and no issues were found. The Notices of Abatement for the violations were provided in the report.

The Pennington WWTP Notice of Violation from the Hopewell Valley Bureau of Fire Safety concerning the fire alarm system is scheduled for repair in the first week of May 2022.

Temporary Safety Coordinator

A temporary safety coordinator, provided by *Signature Safety* to assist SBRSA with reviewing, maintaining, and implementing existing SBRSA’s health and safety plans, began work on March 29, 2022. To date, 42 Health and Safety Program plans have been reviewed or added. Staff will be requesting that *Signature Safety* extend their original 4-week contract to continue providing site safety audits of buildings and areas, as well as training/toolbox talks.

Training

On March 30, 2022, Hazard Communication with Global Harmonization System (HazCom/GHS.) Training was provided to one (1) employee through MSI Live.

On March 31, 2022, Confined Space Entry Training for Entrants and Attendants was provided to two (2) employees through MSI Now/SafetySoft.

On March 31, 2022, Office Safety Refresher Training was provided to one (1) employee through MSI Now.

On April 5, 2022, Back Safety/Materials Handling was provided to three (3) employees through MSI Live. Staff is awaiting certificates.

On April 6, 2022, Bloodborne Pathogens in First Response Environments Training was provided to one (1) employee through MSI Now/SafetySoft.

On April 7, 2022, Bloodborne Pathogens Training was provided to three (3) employees through MSI Live. Staff is awaiting certificates.

On April 7, 2022, Trench Safety Basics for Field Personnel Training was provided to one (1) employee through MSI Now.

On April 8, 2022, Lockout/Tagout Training was provided to three (3) employees through MSI Live. Staff is awaiting certificates.

On April 11, 2022, Confined Space Entry Training for Entrants and Attendants was provided to nine (9) employees through MSI Live. Staff is awaiting certificates.

On April 11, 2022, a hands-on (practical) Confined Space Entry Training was provided to ten (10) employees. This hands-on training was provided by staff and the Temporary Safety Coordinator.

On April 12, 2022, two (2) employees attended an off-site Hazard Communication with Global Harmonization System (HazCom/GHS) Training through the NJ Water Association.

On April 13, 2022, Hazard Communication with Global Harmonization System (HazCom/GHS.) Training was provided to two (2) employees through MSI Live. Staff is awaiting certificates.

On April 13, 2022, Fall Protection training was provided to three (3) employees through MSI Live. Staff is awaiting certificates.

April 19, 2022, Fire Extinguisher Training was provided to three (3) employees through MSI Live. Staff is awaiting certificates.

April 20, 2022, Shop and Tool Safety Training was provided to three (3) employees through MSI Live. Staff is awaiting certificates.

604.10 Litigation

Ms. Alexander reported that she received the draft NJ EPA Consent Decree. Ms. Alexander has not reviewed the document but will be before the EPA's May 2, 2022, meeting. An update will be provided in the May Litigation report.

604.11 Operations Report

Mr. Stewart gave a brief description of the Ecosorb System that the Odor Task Force recommended for a three-month pilot program to eliminate off-site odors.

Mr. Stewart reported on the cost breakdown of a three-month pilot program that included the system's total cost, material, installation, and approximate annual cost.

A discussion took place regarding the Ecosorb System.

Staff will request quotes on the construction cost of the piping. An update will be provided at the May Board Meeting.

Mr. Stewart reported that the liquid scrubber fan should be arriving in early May.

There were no other Board member comments on the Operations Report. The following Operations Report is included in the meeting minutes for information.

River Road Facility

The River Road Facility operated well during this reporting period.

On April 1, 2022, the generators for the River Road Plant and Princeton Pumping Station engaged and supplied power due to issues with the PSE&G substation located on Route 1 adjacent to Lower Harrison Street. The River Road Plant generator was on from approximately 00:38 to 02:43 and the Princeton Pumping Station was on generator power from 00:36 to 00:54.

During the week of March 27, 2022, the River Road Plant began accepting liquid sludge from Ocean County Utilities Authority (OCUA). OCUA's dewatering system was taken out of service for mechanical issues. As of April 6, 2022, their dewatering system was back in service.

On April 7, 2022, a rain event created high flow conditions for all three treatment plants. The River Road Plant influent peaked at 30.8 MGD. Additional tanks were put into service at the Headworks Building and Modified Aeration System.

On April 13 and 14, 2022, the five (5) Disc Filters arrived onsite for the River Road UV and Filtration Project. All liquid sludge deliveries were rescheduled to accommodate the offloading and placement of the filters within the new Filter Building.

Upstream Facilities

Both Upstream Facilities operated well during this reporting period.

On April 7, 2022, a rain event created high flow conditions for both Upstream facilities. Total rain accumulation was approximately 2.5 inches, and rain events earlier in the week compounded the effects. The Hopewell Plant bypassed their dual media filters during this event. The Pennington Plant handled the flow conditions well with no issues.

The contractor, CMS, continues to work on completing the punch list items at the Pennington Facility.

Odor Task Force Report

An Odor Task Force was appointed by the Authority Chairman to investigate root causes and provide a recommendation to mitigate reported off-site odors from the River Road WWTP. After conducting an onsite plant survey in December 2021, the primary sources of odors within the plant were found to be from the Headworks Building and the Modified Aeration (MA) system, more specifically from the MA Settling Tank launders.

Potential alternatives were considered to mitigate the release of odors off-site to the surrounding residential areas. The alternatives explored were:

- physical barriers along the northern fence line
 - berms and planted trees
 - Solid fencing
- chemical applications along the same fence line to treat/neutralize odors or mask odors
 - spray/mist application to mitigate odors as it leaves the plant site
- chemical application at the odor source to neutralize odors
 - spray/mist application to mitigate odors in the local area of release

It was determined that the best course of action would be to treat/neutralize the odors at the identified odor source. Various companies were investigated with consideration of effect on the treatment process and operations, odor neutralization capability versus masking the odor, ease of installation and use, and cost.

Staff identified OMI. Industries, Inc. (OMI) as a potential to achieve our goals. On January 2022 OMI provided a virtual presentation of their system to the Odor Task Force and to answer any questions regarding their system, application and limitations.

OMI provides a vapor phase system that works in conjunction with their Ecosorb 606 product, a solution that neutralizes odors rather than masking odors. The 606 product uses plant-based oils to neutralize malodorous molecules at the point of release. The OMI vapor phase system atomizes the product to significantly increase the surface area of the product which increases the chance of the product interacting with the odor molecules.

Based on OMI’s experience with wastewater applications, they have recommended their 606 product.

A second meeting with OMI was held on March 23, 2022, to determine the applicability for a trial of their system. At that time OMI provided a sample of the recommended Ecosorb 606 product.

Two OMI representatives with the Odor Task Force, walked the River Road plant site to the previously identified source of potential off-site odor. OMI indicated that a trial of the proposed system could be installed near the MA Settling Tank. OMI would provide the vapor phase unit as a rental on a monthly basis with the purchase of the 606 product in 55-gallon drums. In addition, the “system” would require piping around the perimeter wall of the 115-foot MA Clarifier, piping supports, and electrical power supply/connection which would be the responsibility of the Authority. The piping does not require any nozzles to deliver the product, only ¼ to 3/8-inch holes spaced approximately 5 feet apart. The product does not require any water (delivered neat).

Staff would need to prepare a Request for Quotes (RFQ) for the procurement and the installation of materials. Timing would occur sometime during the primary odor season (May through October). It is anticipated that the system would most likely be installed some time at the end of June/early July.

The cost breakdown for a 3-month trial is shown below. The pricing for the “system” is approximate. The OMI Ecosorb cost for chemicals and the vaporization unit is approximately \$21,000. The cost to install all necessary piping and supports along with power to the unit is estimated at \$26,000.

Ecosorb Cost Breakdown						3-Month Trial
Cost per month to rent one (1) 450 CFM unit			\$3,000			\$9,000
Shipping						
	Ecosorb System					\$1,522
	Cost to ship drums TBD at time of purchase					
Cost for one 55-gallon drum of the 606 product			\$2,223			
	Cost per drum when ordering 2+ drums		\$2,061			
	Each drum will last approx. 18 days at 3 gallons/day - 5 drums					\$10,305
				Ecosorb sub-total		\$20,827
Cost to install 6” HDPE Piping on one (1) MA Clarifier						
	Material - 6” SDR 17 HDPE					\$4,100
	approx. 370 ft fused and bent in field					
	Labor – cost per day, estimated 3 days to install		\$5,000			\$15,000
	Mounting struts spaced at 10’ intervals (\$/5ft section)		\$28.00			\$210
	Strut clamps (will need 37 clamps)		\$15/clamp			\$550
	Estimated cost to install struts, clamps and diffusers					\$3,000
	Electrical					\$3,000
				Estimated sub-total for install		\$25,860
				Total		\$46,687

Below is a picture of a similar installation on a tank wall.



References were provided by OMI. Of the two references staff contacted, the Village of Crystal Lake wastewater treatment plant provided some insight on the system. They reported little maintenance has been needed in the last 6 plus years of service. Issues were reported in the winter months with freezing. They used a different product than the 606. They use a strong concentrate provided by OMI that they dilute with water. Staff is waiting for a return call from the other reference.

Air sampling can be conducted by OMI to aid in the identification of odor compounds and may provide additional information regarding the best product to use at our site to neutralize the odors. The sampling would be conducted at various points in the tank launder area when the Ecosorb system is in operation and when offline. Approximately 20 samples would be collected and analyzed by OMI using Gas Chromatography-Mass Spectrometry. The cost is estimate provided by OMI is approximately \$7,500 for this service if requested.

Odor Report

Staff received no Odor Complaints from our surrounding area during the month of March 2022. Staff received no odor complaints during the partial April 2022 reporting period. The total April number will be reported in April 2022. The odor complaints appear on the graph showing the number of odor complaints received each year from January 1998 through the present March 2022.

Customer Sludge Deliveries

The reported quantity of liquid sludge was 28% above the budgeted amount, sludge cake was 16% above the budgeted amount, and gray water was 18% above the budgeted amount for March 2022.

604.12 Maintenance

There were no Board member comments on the Maintenance Report. The following Maintenance Report is included in the meeting minutes for information.

On March 8, 2022, it was reported that the upper doctor blade on Belt Press No. 3 was not scraping the belt properly. Upon inspection and removal of the doctor blade assembly, it was found that the metal on the assembly was corroded to a point where it was no longer rigid enough to maintain contact with the belt when pressure was applied. The doctor blade assembly was thoroughly cleaned and sent to Marshall Industrial Technologies for repair. On March 23, 2022, the assembly was reinstalled. On March 25, 2022, the Belt Press was tested to ensure proper operation under normal operating conditions and placed into service.

On March 21, 2022, Receiving Bin No. 2 was removed from service due to a hole in the bin allowing dewatered sludge to leak onto electrical components. The bin was emptied, and a piece of metal was cut and welded over the hole. Once the repair was completed, the bin was filled, tested for leaks, and placed back into operation.

Sludge Transfer Pump No. 3 located at the Pennington Plant was not pumping properly and taken offline on March 22, 2022. The pump was drained and disassembled. Upon removal of the suction housing, it was found that a large accumulation of rags had formed in the housing and around the suction diaphragm disc. The diaphragm disc was removed to gain further access into the pump for similar rag build up. Once thoroughly cleaned out, the pump was reassembled tested for leaks, and placed into operation on March 24, 2022.

During the week of March 26, 2022, work had begun on upgrading the lighting in the Lab. The old fluorescent light fixtures were removed and replaced with new LED lights. On April 4, 2022, the project was completed, with a total of twenty lights replaced.

The shaftless Screw Conveyor located in the Headworks Building was found not operating during a plant surveillance on April 5, 2022. The motor overload was re-set, and new fuses were installed. After testing the screw for operation, it ran briefly but failed. The covers on the conveyor were removed to check for blockages. It was found that rags were clogging the screw and had built up to a point where it caused a motor overload. The rags were manually removed, and the screw was tested. The screw was placed back into operation and monitored for proper cycling and operation.

Provided in the report were several graphs that monitor our monthly progress. The current

monthly open work requests stand at twenty-six (26). On the Preventive Maintenance graph, we averaged four (4) days overdue, and the number of overdue units is approximately eight (8).

604.13 Finance

Payment of Bills and Claims

Mr. Goldfarb moved for approval Resolution 2022-036 for the payment of bills and claims in the amount of \$1,324,054.51 with two signatures instead of three. The motion was seconded by Ms. Switlik and passed by a roll call vote of 6 to 0. Resolution 2022-036 follows.

Resolution Regarding Payment of Bills and Claims

Resolution No. 2022-036

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 \$1,324,054.51 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>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Treasurer's Report

Mr. Chong reported the net income for the 2022 fiscal year, ending March 31, 2022, of \$767,197. The Authority has total cash and investments of \$15,326,340. The current construction project balance is \$1,720,164. There are sufficient funds for these projects. The outstanding bond principal balance is \$16,739,894.

Monthly Sludge Business Analysis

Mr. Chong reported that the net income figure for March is \$147,137, and the cumulative net income for the fiscal year is \$531,804.

Staff recommended amended Resolution 2022-037, Authorizing Award of a “No Political Contributions Allowed” Contract for Non- Professional Vendors. This is the Pay-to-Play provision in anticipation of making purchases that will exceed the \$17,500 limit from vendor(s) listed in the resolution. All appropriate documents have been obtained from these vendors.

Resolution 2022-037 was moved by Mr. Goldfarb, seconded by Mr. Vilaro-Munet, and passed by a roll call vote of 6 to 0. Resolution 2022-037 follows.

Resolution Authorizing Award of “No Political Contributions Allowed” Contract(s) for Non-Professional Service Vendors

Resolution No. 2022-037

WHEREAS, the Stony Brook Regional Sewerage Authority (the “Authority”) has a need to acquire goods or services as a no political contribution allowed contract pursuant to the provisions of NJSA 19:44A-20.4 or 20.5 as appropriate; and,

WHEREAS, the purchasing agent has determined and certified in writing that the value of each contract (by purchase orders) will likely exceed \$17,500; and,

WHEREAS, the term of this contract(s) is twelve (12) months. Commencing on December 1, 2021, and ending November 30, 2022, and may be extended as approved by this governing body; and,

WHEREAS, the attached list of vendors has completed and submitted a Business Entity Disclosure Certification which certifies that each vendor has not made any reportable contributions to a political or candidate committee served by the Authority in the previous one year, and that the contract will prohibit the (attached list of vendors) from making any reportable contributions through the term of the contract; and,

WHEREAS, the Authority has funds available in its current budget.

NOW THEREFORE, BE IT RESOLVED that the Authority authorizes the attached list of vendors to enter into contracts by purchase order; and,

BE IT FURTHER RESOLVED that the Business Entity Disclosure Certification and the determination of value be placed on file with this resolution.

<u>Recorded Vote:</u>	<u>AYE</u>	<u>NO</u>	<u>ABSTAIN</u>	<u>ABSENT</u>
Gale D. Downey	X			
David A. Goldfarb	X			
C. Schuyler Morehouse	X			
Bharat Patel	X			
Pamela Switlik	X			
Miguel Vilaro-Munet	X			

Year 2022 No Political Contribution Allowed Contracts	
<u>Company Name</u>	<u>Service</u>
ALS Environmental	Lab Testing
Applied Industrial Technologies Inc.	Bearings and Belts
Belyea Company Inc.	Electric Power Parts
Edmunds GovTech	Accounting Software and Support
GKD-USA Inc	Belt Filter Press Parts
Hesco Electric Supply Co. Inc.	Electric Supply
Hough Petroleum Corp.	Fuel
Lockwood's Electric Motor Service	Motors and Repairs
Princeton 130 Supply Co. Inc.	Janitorial and PPE Supply
Shafts & Sleeves Co. Inc.	Fabrication Service
Signature Safety LLC.	Safety Consulting Services
Titan Mechanical Services LLC	HVAC Service
Willier Electric Motor Repair Inc.	VFD/Process Drain Pump
Xylem Dewatering Solutions Inc.	4", 6" and 8" Pumps

Mr. Chong reported staff sent a request for quotes (RFQ) for accounting software in March 2022 to Edmunds and Munidex. After an evaluation of specialty, responsiveness, and cost, staff has selected Edmunds. The new accounting software system will go live in the fiscal year of 2023.

Mr. Chong reported that \$13,857 was received from FEMA, and an additional \$53,568 of invoices were submitted regarding Tropical Storm Ida

Mr. Chong reported that the energy bids on April 4, 2022, were rejected and not awarded. All but one bid group came in higher than the pre-established Trigger Prices due to very high prevailing market prices. The Energy Agent Refreshed bids that will be accepted on a to-be-announced date. A memorandum from the Authority's energy agent was provided in the report. The Authority is currently purchasing energy directly from Public Service Electric & Gas Company (PSE&G).

Mr. Chong reported that the fiscal year 2021 financial statements should be available for review by the Finance Committee in late May.

604.14 Personnel Report

Ms. Pchola reported that Ms. Karlowitsch, Purchasing Coordinator, and Mr. Pace, Lab Supervisor, retired on April 1, 2022, and One Operator VI had been promoted to Operator V.

604.15 Correspondence

For information only.

604.16 Old Business

Nothing to report.

604.17 New Business

604.18 Open to the Public

Chairman Downey opened the public portion of the meeting, hearing no comments from the public; the public portion of the meeting was closed at approximately 7:54 p.m.

604.19 And such other issues as may come before the Board

There was nothing to report.

604.20 Adjournment

As there was no further business to come before the Board, the meeting was adjourned at 7:56 p.m. on a motion by Ms. Switlik, seconded by Mr. Morehouse, and passed by unanimous vote.

Respectfully Submitted,

Antonia Pchola
Secretary

Recorded and Written by
Angela Christiano
May 5, 2022