

Minutes of Meeting #473, April 25, 2011 – Stony Brook Regional Sewerage Authority

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

MEMBERS PRESENT: Bartolini, Compton, McKinnon, Morehouse

MEMBERS ABSENT: Downey, Miller, Patel

CONSULTANTS: Alexander

STAFF PRESENT: Bixby, Carlino, Coleman, Hess, Kunert, Neuhof, Pchola, Rahimi

473.01 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 Borough Hall Bulletin Board.

473.02 Approval of Minutes

Chairman Bartolini asked for comments on the minutes of the March 28, 2011 Board meeting. Ms. Pchola indicated that Dr. Downey had called earlier with two corrections to the minutes. On page 13, paragraph 4, line 1 reads “...Exhibit B of the Audit Report,6 the ...” The line should read “...Exhibit B of the Audit Report, the...” On page 17, under Adjournment, line 2 reads “...at approximately8:41 p.m. on...” should read “...at approximately 8:41 p.m. on ...” The minutes from the March 28, 2011 meeting were approved as amended on a motion by Mr. McKinnon, seconded by Mr. Morehouse and passed by a vote of 4 to 0.

473.03 Board Related Activities

Consultant List

The consultant list was provided for information. Ms. Pchola indicated that there are no contracts pending award tonight.

473.04 Planning and Administration

Ms. Pchola reported that the most current 12-month average daily River Road plant flow is 8,961,806 gpd with 1,104,148 gpd of approved but inoperative flow for a total committed flow of 10,065,954 gpd with 2,994,046 gpd or 22.93% of available capacity. The most current 12-month average daily flow at the Hopewell Plant is 225,200 gpd with no inoperative flow, for a total committed flow of 225,200 gpd with 24.93% or 74,800 gpd of available capacity. The Pennington Plant presently has 238,725 gpd as the most

current 12-month average daily flow, with 13,864 gpd of approved but inoperative flow, for a total committed flow of 252,589 gpd, with 47,411 gpd or 15.80% of available capacity. Ms. Pchola noted that the inoperative total for the Pennington Plant is the unused portion of Bristol-Meyer Squibb approved flow.

Chairman Bartolini asked how high the flows were during the rain event of April 16. Mr. Kunert indicated that 3.5 inches of rain were recorded in an eight-hour period. Flows at the Hopewell and Pennington STPs reached 0.945mgd and 0.91 mgd, respectively. At the River Road WWTP, flows ranged from 34.0 mgd to 35.0 mgd. Mr. Kunert indicated that the blending line was not used at the River Road WWTP during this rain event.

Ms. Pchola noted that the average flow for April thus far, is approximately 13.0 gpd at the River Road WWTP which will increase the 12-month average flow by approximately 175,000 gpd.

#### Monthly Flow Transmittal

The monthly flow transmittal for March was provided for information.

Ms. Pchola indicated that several adjustments were made for the month.

At the South Brunswick Pumping Station, the meter verification conducted on April 1, 2011 indicated that the low range meter was reading low by 3.55% and the high range meter was reading low by 4.73%.

The low range meter hourly flow data was adjusted upward by 2.565%, which is the average of the meter verification conducted on April 1, 2011 and the meter certification conducted on March 1, 2011.

The high range meter hourly flow data was adjusted upward by 2.5%, which is the average of the meter verification conducted on April 1, 2011 and the meter certification conducted on March 1, 2011.

At the Pennington STP, a review of the hourly flow data for the influent meter indicated that the meter was at its maximum capacity for a portion of the day on March 6, 7 and 11. However, review of the hourly effluent meter data indicated that the flows were not at the meter's maximum capacity for those days. Therefore, the flows for March 6, 7 and 11 were replaced with the effluent flow data.

#### Oversight Committee Minutes

Ms. Pchola reported that the Oversight Committee met on April 11, 2011. The main topic of discussion at the meeting was the fines/penalties assessed by the NJDEP. Ms. Pchola provided the Board with the Summary of Air Permit Fines, which had been presented to the Oversight Committee. Ms. Pchola indicated that staff stressed to the Committee that these violations for non-compliance are self reported.

#### 473.05 Approval Requests and Actions

##### TWA-1 Approvals

None.

##### Time Extensions

None.

##### NJPDES Endorsements Requested

None.

##### Water Quality Management Plan Amendments

None.

##### Allocated Flow Update

None.

#### 473.06 Regulatory Report

##### Discharge Monitoring Report (DMR) and NJPDES Compliance

Mr. Rahimi reported that the Discharge Monitoring Reports for the month of March were submitted to NJDEP and no violations were reported.

##### Residual Discharge Monitoring Reports

Mr. Rahimi indicated that the February Residuals Discharge Monitoring Reports are in the process of being prepared.

##### Air Reporting

The Excess Emissions and Monitoring Performance Reports for the first calendar quarter of 2011 were submitted to the NJDEP. Incinerator No. 2 was used exclusively during this period exhausting through RTO. Mr. Rahimi noted that it is the first time that staff prepared this report with minimal assistance from Chavond Barry Engineering.

##### Safety

Mr. Rahimi reported that the JIF Safety Incentive Report was submitted.

A Safety Meeting was held on April 19, 2011. The minutes for this meeting were provided to the Board.

During the month of April, the following safety training was provided: Confined Space, Ladder Safety and Lock-out/tag-out.

Chairman Bartolini expressed his concern regarding the memo about some employees not tying their shoe laces while on duty. Chairman Bartolini strongly recommended that staff take a proactive role with this issue. A lengthy discussion followed regarding the potential safety hazards as well as recommendations from the Board.

#### Laboratory

Mr. Rahimi reported that the Laboratory has completed analyzing Proficiency Testing Study samples. This data will be reported to ERA (PT provider).

#### Miscellaneous

The Quarterly Capacity Assurance Program Reports were submitted to NJDEP.

Bryan Barrett (NJDEP, Compliance and Enforcement) was on site to take samples of the River Road Effluent on April 12, 2011.

#### 473.07 Litigation

The Litigation Report was provided for information.

Ms. Alexander noted that there were no changes to the report.

#### 473.08 Operations Report

Mr. Kunert reported that the change-over of all the hydro-pneumatic valve actuators on the filters to pneumatic actuators at the Pennington STP is 95% complete. The project is being completed in-house. Staff is waiting for one more valve actuator and a butterfly valve to complete the project within the next two weeks. The project is a major improvement to the filter operation at both upstream facilities.

A significant rain event occurred on April 16, 2011. Approximately 3.5 inches of rain fell during an eight-hour period causing high flows at all three facilities.

Seventy-five (75) cubic yards of mulch has been added to the four biofilters.

Mr. Kunert reported that the motor for Modified Aeration Return Sludge Pump #1 had been sent to Marshall Maintenance to have the bearing replaced. The motor was returned and re-installed. The pump is back in service.

Mr. Kunert reported that on April 11, 2011 the main breaker on MCC-E7 opened on a ground fault. After checking all equipment on this MCC and finding no problems, staff called A.C. Scott Electric to troubleshoot the problem. A.C. Scott checked the cabling, equipment and trip unit. An adjustment was made to the ground fault setting and the MCC was placed back in service.

Mr. Kunert indicated that SBRSA is cleaning the final effluent tanks. All the chlorine contact tanks have been pumped down and hosed. The re-aeration tanks will be completed this week.

SBRSA has made some repairs and upgrades to the sodium hypochlorite and sodium bisulfite chemical feed systems at Hopewell and Pennington STPs. The work was performed in-house.

During the last month, SBRSA experienced an abnormality in the biological process at the River Road WWTP which lasted almost two weeks. Although the effluent was not in danger of violating SBRSA's discharge permit, the effluent had an unusual cloudy appearance. Staff performed some investigative work and it appears that it may have been caused by liquid sludge from an outside source. Staff made some adjustments to the process in conjunction with making a change to the handling of outside sludge and the dewatering operation. As a result of these changes, the final effluent became clear within a week. Staff will continue to monitor the process when SBRSA returns to the normal operation of mixing outside sludge with its own sludge prior to dewatering.

#### Odor Reports

Mr. Kunert reported that staff received one odor complaint from our surrounding area during the month of March and no odor complaints for the partial month of April.

#### Customer Septage and Sludge Deliveries

The monthly quantities of liquid sludge, sludge cake and gray water exceeded the budgeted amounts.

### 473.09 Construction Report

#### 2011 Annual Inspection

Mr. Bixby indicated that staff has contacted AECOM to set up inspection dates and is waiting to hear from AECOM for mutually acceptable dates. It is expected that the inspections will take place sometime this May.

#### Pennington STP Upgrade and Expansion

There is no action required on this issue until staff receives the draft NJPDES permits for the Upstream Plants. Mr. Bixby noted that Mr. Jim Cosgrove has been in contact with the NJDEP. The NJDEP indicated that they are continuing to work on SBRSA's permits.

## Second Quarter RATA

Mr. Bixby reported that annually a RATA test must be performed. Staff requested quotes from five firms on March 17, 2011 (four quotes were received). ITS had the lowest quote at \$5,875 (with one mobilization) and \$6,675 (for two mobilizations if a second set up is necessary). ITS successfully conducted all four (4) RATAs with one set up last year. The RATA has been scheduled for the week of May 9, 2011 with Industrial Technical Services (ITS).

## Mercer County Wastewater Management Plan (WMP)

Mr. Bixby indicated that the Mercer County Wastewater Management Plan has been submitted to the NJDEP. The draft WMP can be downloaded from the Mercer County Planning Division website:

<http://nj.gov/counties/mercerc/department/planning/wastewater.html>

Chairman Bartolini asked if staff has any indication on the status of the Middlesex County WMP. Ms. Pchola indicated that staff has not received any information but will check into it. Chairman Bartolini noted that South Brunswick Township is in Middlesex County and the WMP could have an impact on their development.

Ms. Pchola indicated that staff reviewed the summary section of the Mercer County WMP but will perform a more detailed review of the WMP and will submit comments.

Mr. Morehouse asked if adopted will the WMP be the statement of planning and followed regardless of permit issues, stream issues etc.

Ms. Alexander indicated that these WMPs are critical and will override many other decision-making avenues that currently exist. Ms. Alexander cautioned that there are many areas of concern with these WMPs. Issues have arisen regarding flow allocations to sewage treatment plants (i.e. is it high enough); changes to the service areas; the affect the WMP may have on future plans for expansion; and even just maintaining the flows that a treatment plant may already have. Regulations require that no permits can be issued that are inconsistent with these plans. It is important for everyone to review the plan.

## Odor Control Facilities

Mr. Bixby reported that staff is in the process of putting together a listing of all capital projects associated with odor control at the SBRSA facilities and associated capital costs. In addition staff will also provide the estimated operation and maintenance costs related to the odor control improvements.

Sludge Cake Odor Control Unit

Mr. Bixby reported that staff requested quotes from three carbon suppliers/manufacturers for the replacement of the media currently in the Sludge Cake Odor Control Unit. Staff received quotes from the following:

Calgon Carbon Corporation	\$17,841
Siemens Industry, Inc.	\$21,555
Purafil Environmental Systems Division	\$35,100

Calgon Carbon Corporation was previously awarded Contract 10-4 which was bid in FY 2010 (September 2010) with the work to be completed in FY2011 (the cost of the project was \$69,107). Staff had discussions with the NJ Division of Local Government Services (NJDLGS) to determine if the carbon replacement for the Sludge Cake project needed to be bid due to the fact that the lowest quote was from the same vendor that was conducting work in FY 2011 and receiving payment in FY 2011 above the bid threshold. Information provided to staff from the NJDLGS indicated that the project could be awarded to Calgon (as providing the lowest quotation) without bidding.

Staff recommended approval of Resolution 2011-15 awarding a No Political Contributions Allowed contract to Calgon Carbon Corporation for the Sludge Cake Facility Carbon Odor Control Unit Media Replacement at a cost of \$17,841. So moved by Mr. Morehouse, seconded by Mr. McKinnon and passed by a roll call vote of 4 to 0. Resolution 2011-15 follows.

**Resolution Authorizing the Award of a “No Political Contributions Allowed”  
Contract for the Sludge Cake Facility Carbon Odor Control Unit Media  
Replacement**

**Resolution No. 2011-15**

WHEREAS, the Stony Brook Regional Sewerage Authority (SBRSA) has a need for the replacement of the media in the Sludge Cake Receiving Facility Odor Control Unit as a contract that does not allow for political contributions to the Authority or its members (“No Political Contributions Allowed” contract) pursuant to the provisions of N.J.S.A. 19:44A-20.4 et seq.; and,

WHEREAS, the qualified purchasing agent, Stuart Neuhof has determined and certified in writing that the value of the work for this contract will exceed \$17,500; and,

WHEREAS, the term of this contract will take place during SBRSA’s FY 2011; and,

WHEREAS, SBRSA has received three quotes for the replacement of the media in the Sludge Cake Receiving Facility Odor Control Unit with coconut shell based carbon and the results are as follows; and,

Calgon Carbon Corporation	\$17,841
Siemens Industry, Inc.	\$21,555
Purafil Environmental Systems Division	\$35,100

WHEREAS, Calgon Carbon Corporation has submitted the lowest quotation indicating they will provide the carbon media replacement services for a lump sum fee not to exceed \$17,841 without prior written approval from SBRSA; and

WHEREAS, Calgon Carbon Corporation has completed and submitted a Business Entity Disclosure Certification for FY 2011(ten days prior to the Authority Board meeting on April 25, 2011) which certifies that Calgon Carbon Corporation has not made any reportable contributions to a political or candidate committee in the Stony Brook Regional Sewerage Authority service area, Mercer County, and Middlesex County in the previous one year, and that the contract will prohibit Calgon Carbon Corporation, from making any reportable contributions through the term of the contract, and

WHEREAS, the Stony Brook Regional Sewerage Authority has Funds available in its current budget.

NOW THEREFORE, BE IT RESOLVED that the Board of the SBRSA authorizes the Chairman to enter into a contract with Calgon Carbon Corporation 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>
Robert A. Bartolini	X			
Gale D. Downey				X
Harry R. Compton	X			
James McKinnon	X			
David Miller				X
C. Schuyler Morehouse	X			
Bharat Patel				X

Replacement of Ash Pelletizers

Mr. Bixby indicated that staff has set up a meeting with Thomas and Muller (T&M) (manufacturer of one of our existing pelletizers) for April 26, 2011 to discuss issues that staff has with the current equipment and to discuss any design changes that Thomas and Muller may have incorporated in their equipment design since the installation of the unit at SBRSA in the early 1990's. The T&M ash pelletizer was installed as part of Contract 90-1 Afterburners.

Contract 07-1, River Road STP Regenerative Afterburner (RTO)

Mr. Bixby reported that this project remains at 98% complete. On April 14, 2011 Bionomic Industries (BI) and their consultant Redkoh were on-site. BI and Redkoh completed preliminary sampling for particulate removal and downloaded operational data for analysis. BI did find some problems with the technique and methodology they were using. BI did secure the correct sampling devices and are scheduled to return to the site the week of April 25 to continue with the sampling.

Contract 10-1, Headworks Project

Mr. Bixby reported that the project is 2.0% complete. Tomar began test pits and sub-surface investigation in the Septage Receiving Area and Headworks Building footprint.

As part of this project, the Princeton Township Fire Official required that a new fire hydrant be installed within the vicinity of the new headworks facility. The fire hydrant connection to the potable water distribution system was submitted to New Jersey American Water Company (NJAWC) for approval. SBRSA was contacted by NJAWC and informed that in order to approve the hydrant installation; SBRSA would need to install a water meter and an above ground backflow prevention device (BPD). This requirement would result in unanticipated construction costs and increase our annual service charge for water service connection fees by almost 40% (\$7,290 current vs. \$10,143 proposed).

As an alternative NJAWC suggested that SBRSA install a single water meter that would serve the entire River Road Plant site. While the installation of the new site-wide meter would be slightly most expensive than the fire hydrant meter and BPD installation, the annual water service connection fees would be reduced by 17.5% and eliminate the need for the meter and BPD on the new hydrant.

Based on the above, SBRSA asked Omni Environmental to prepare a construction cost estimate for the new metering chamber. The estimate for the new meter chamber is \$39,000 which includes a 10% contingency. Discussions with NJDEP Construction Element representative indicated that this additional work would be eligible for payment under the NJEIT loan if it was included as part of Contract 10-1 Headworks Project (NJDEP has indicated that if the work is conducted by an outside contractor other than Tomar this work would not be eligible under the NJEIT loan program). Tomar has been asked to submit a proposal for this work.

Contract 10-3, Millstone Pump Station Sewage Pump Rebuild Project

Mr. Bixby indicated that Pump #3 is currently being rebuilt and modified for the new mechanical seal. The Contractor will begin installation of the rebuilt pump the week of April 25, 2011.

Contract 10-4, Pump Station Odor Control System Carbon Replacement

Mr. Bixby indicated that due to inclement weather conditions that has left the soil unsuitable for the required equipment to access the Millstone Pumping Station carbon unit; the change out of the media for the Millstone Pump Station unit has been rescheduled for May 4, 2011

Contract 11-1, Fly Ash Slurry Pump Rehabilitation Project

Mr. Bixby reported that a pre-construction meeting was held with the contractor, A.C. Schultes, Inc. on April 14, 2011. The contractor will now begin the process of submitting shop drawings.

Process Control/SCADA:

Preventative maintenance was completed for all field devices and process control loops. The quarterly flow meter verification was performed on April 1, 2011.

473.10 Finance Report

Payment of Bills and Claims

Mr. Neuhof recommended approval of the payment of bills and claims in the amount of \$1,082,973.23 with two signatures instead of three. So moved by Mr. Morehouse, seconded by Mr. Compton and passed by a vote of 4 to 0.

Treasurer's Report

Mr. Neuhof reported that net income for the five-month period stands at \$298,127. This is a decrease of \$7,904. The Authority has total investments of \$15,978,461 at an average interest rate of 0.44%. The balance for current construction projects is \$15,792,283. Current funding sources total \$22,837,982. The New Jersey Cash Management Fund yield is 0.21%.

Resolution 2011-14, Specifying Proprietary Replacement Parts for the Schwing Pumps

Mr. Neuhof explained that Resolution 2011-14 is specifying that there is no manufacturer other than Schwing that makes parts that are fully compatible with the Authority's Schwing Pumps. Schwing Bioset is the only manufacturer that makes replacement parts for the Schwing pumps.

The Authority has for the past several years, presented a resolution for specifying replacement parts for the Schwing Pumps. This resolution will be part of the bid package documents.

Mr. Neuhoﬀ recommended approval of Resolution 2011-14, Specifying Proprietary Replacement Parts for the Schwing Pumps. So moved by Mr. Morehouse, seconded by Mr. Compton and passed by a roll call vote of 4 to 0. Resolution 2011-14 follows.

**RESOLUTION OF THE STONY BROOK REGIONAL SEWERAGE  
AUTHORITY FOR SPECIFYING PROPRIETARY REPLACEMENT PARTS  
FOR THE SCHWING PUMPS**

**Resolution No.: 2011-14**

WHEREAS, the Stony Brook Regional Sewerage Authority (“Authority”) has determined that its existing Schwing Pumps will require parts replacement; and

WHEREAS, to the Authority’s knowledge, there is no manufacturer other than Schwing Bioiset that fabricates parts that are fully compatible with Schwing Pumps; and

WHEREAS, to the Authority’s knowledge, the only parts that may be authorized for use in the Authority’s Schwing Pumps are manufacturer-specified parts; and

WHEREAS, it is the Authority’s experience that manufacturer-specified Schwing Pump parts have superior operational performance due to their reliability and compatibility with Schwing Pumps; and

WHEREAS, the Authority has determined that Schwing Bioiset - manufactured parts are of a “specialized nature” because of their unique ability to reliably convey thickened sludge through Schwing Pumps; and

WHEREAS, the Authority has a compelling need to specify the same manufacturer for its spare parts as the Original Equipment Manufacturer; and

WHEREAS, as authorized by N.J.S.A. 40A:11-13(d) and N.J.A.C. 5:34-9.1(a) 1.i and 2.i, the proprietary designation of Schwing Bioiset-manufactured parts overshadows the public benefit of use of “brand name or equivalent”; and

WHEREAS, the Authority’s attorney has reviewed the proposed certification for the specialized nature of the proprietary equipment necessary for the conduct of SBRSA’s affairs and has advised of its applicability and acceptability pursuant to N.J.S.A. 40A:11-13(d) and N.J.A.C. 5:34-9.1;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF STONY BROOK REGIONAL SEWERAGE AUTHORITY AS FOLLOWS:

1. That the Authority agrees that due to the specialized nature of the equipment necessary for the conduct of its affairs, the only acceptable manufacturer for its Schwing Pump replacement parts is the manufacturer of the equipment, Schwing Bioiset of Somerset Wisconsin.
2. Funds are available for the purchase of spare parts.

3. This resolution for proprietary equipment shall be made part of the bid documents.

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

Monthly Sludge Business Analysis

The monthly Sludge Business Tracking for FY 2011 was provided to the Board. Mr. Neuhof reported that net income for the month of March is \$144,860 and the cumulative net income is \$571,463. Gas usage for March is 63,083 therms. The remaining simple payback period for the RTO is 4.5 years.

A brief discussion followed regarding expiring sludge contracts.

473.11 Personnel Report

The Personnel Report was provided for member information.

Ms. Pchola reported that since the March Board meeting, one additional employee is on a leave of absence.

473.12 Correspondence

For information

473.13 Old Business

None.

473.14 New Business

None.

473.15 Adjournment

As there was no further business to come before the Board, the meeting was adjourned at approximately 8:28 p.m. on a motion by Mr. Compton, seconded by Mr. McKinnon and passed by unanimous vote.

Respectfully Submitted,

John Kantorek  
Secretary

Recorded and Written by  
Patricia Carlino  
May 3, 2011