



TECHNICAL COMMITTEE MEETING MINUTES

Wednesday 04/15/2020

4:30pm

TELECONFERENCE

Attendees:

Merritt Nesin	Chairman, Technical Committee
Edward Kelly	Committee Member
Robert Barocas	Committee Member
Mark McGrath	Committee Member
William Brink	Executive Director, WPCA
Rob Pudelka	Plant Supervisor, WPCA
Ann Brown	Supervising Engineer, WPCA

1. Call to Order and Roll Call.

Ed Kelly called the meeting to order at 4:30 pm and announced all attendees as listed above.

2. Discussion and vote: SWPCA Technical Committee Chairman election

R. Barocas motioned to nominate Merritt Nesin as Chairman; seconded by E. Kelly. Discussion: M. Nesin stated he appreciated the opportunity and would be honored to serve as the Committee Chairman. There was no further discussion. Vote: 4-0-0

3. Approval of February 19, 2020 meeting minutes

Ed Kelly made the motion to approve the minutes of the February 19, 2020 Technical Committee meeting, seconded by R. Barocas; motion carried 4-0-0.

4. COVID-19 Pandemic Impacts on SWPCA

A. Brown stated that the contractor, CH Nickerson, for the plant improvement construction project halted work for two weeks because a potential carpenter hire met with their project team who later tested positive for the virus. Their quarantine period has ended and they returned to work on Monday.

A. Brown also stated that they are waiting for the dryer equipment manufacturer to advise whether or not there will be delays in delivery of equipment. A purchase order has been issued for all the equipment identified to date as needed for the repairs to the Sludge Dryer Building and the manufacturer is to provide the delivery dates. Once provided, a schedule will be updated.

B. Brink stated that the plant is operating with a ghost staff but, maintenance items are not being done. This is fine for the short term but, eventually the deferred maintenance will catch up and become an issue. We may see things break down in the long term requiring major maintenance in the future if this continues.

R. Pudelka stated that he is overall pleased with the performance of the staff. There is one mechanic each day doing some preventive maintenance. Some smaller jobs are being done as needed. The staff is maintaining social distancing. Joe Sobotor has done a great job of providing masks and gloves to the staff. There does not seem to be any issues with the sludge trailers getting in and out and finding disposal sites. There are a few jobs, such as installation of pumps, which he is waiting for additional mechanics to be called in for an emergency. They can utilize the remaining time to tackle these jobs. He has not seen a decrease in the daily plant flow. Total nitrogen numbers are good. He is having a problem getting polymer to the plant.

5. Discuss Sludge Management Plan Interviews

A discussion was held on whether to continue with remote interviews as currently scheduled or postpone them until the firms can provide in person presentations. E. Kelly liked the in person interview to meet the team you will be working with. B. Brink stated that a delay for a short period, 2 months, would be fine but, they should not delay into the late summer. R. Barocas stated that we don't know when this will end and should continue with remote interviews. The Committee decided to proceed with remote interviews as originally scheduled.

6. Update on Sludge Dryer and Building Repairs

A. Brown stated that a purchase order has been issued for all the equipment identified to date. The equipment is manufactured in Germany and we are waiting to see if there are any delays in delivery due to COVID 19. The work on the selective demolition is complete.

B. Brink stated that we received two bids for the repair of the building and installation of the new equipment. We will notify the committee of the results once the bids are reviewed.

7. Update on Perna Lane area surveys

A. Brown stated that surveys were returned but, the number of responses was much less than expected. Based on the public meeting, we expected to see a majority of homeowners respond in favor of installing the sewers. We did not get that result. Only 33% of the surveys were returned, resulting in only 20% of all homeowners expressing any favorable response. There were mainly two comments included in the responses: 1) the cost is too high; and 2) only in favor of a gravity system. No grinder pumps. Very few surveys were returned to the WPCA and there is no clear decision to be drawn from the results. The summary of the surveys is attached to these minutes.

B. Brink stated that this is a very difficult project to construct with a high cost. The results are not compelling that the project should continue.

E. Kelly asked if there is a health risk that is imposed on the community if the project does not continue. R. Barocas asked if the state would perform sampling of the river and opine on the health risks. M. Nesin stated that if there is a failing system, the health department will advise the homeowner to upgrade their system. Based on the poor response rate, it appears that there is a lack of interest in the project from a majority of homeowners in this area.

8. Discussion on plant operations

R. Pudelka provided the March monthly operating report which is attached and made part of these minutes.

9. Update on engineering studies and designs

A. Brown provided an update on the engineering studies and designs which is attached and made part of these minutes. B. Brink indicated that there was approximately \$40,000 left in funds for the Infiltration & Inflow Project. The project is paid for with 55% grant funding. The consultant proceeded with additional phases of the project to utilize the funding and will submit this to DEP before June 2020.

- a. Infiltration & Inflow Removal Project
- b. Sludge Degritting System Upgrade
- c. Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) pumps

10. Update on construction projects

A. Brown provided an update on the construction projects which is attached and made part of these minutes. A. Brown stated that none of the capital projects are delayed as a result of COVID 19 to date.

B. Brink reviewed the Change Order Log for the construction projects pointing out that the largest Change Order is for the revision to the bridge crane in the generator area of project a) listed below. The original design was in conflict with a large storm drain. Relocating the storm drain system in this area would be very expensive and the alternative chosen was to relocate the generator, and steel bridge crane supports, cost is approximately \$60-80K range which is less than relocating the storm drainage system.

- a. Preliminary, Secondary and Disinfection Treatment Improvements.

- b. LED lighting in Operations, Solids Processing and Chemical Buildings
- c. Design Build a Standby Generator for the Greenwich Ave. Pump Station
- d. Clay Hill Pump Station Generator
- e. Electrical Preventive Maintenance and Arc Flash Evaluation

11. Old Business

12. New Business

B. Brink stated that he needs to advertise for the Assistant Plant Supervisor position.

There being no further issues to discuss M. Nesin made a motion to adjourn the meeting, seconded by R. Barocas; motion carried 4-0-0. The meeting was adjourned at 5:44pm.



APRIL 2020

Monthly Operating Report for: MARCH

						PERMIT LIMITS
Q (FLOW)	MGD	AVG	16.1	PEAK	29.1	
BOD INFLUENT	mg/l	AVG	237	LBS/D	31,554	
BOD EFFLUENT	mg/l	AVG	2	MAX	4	20
BOD REMOVAL	%		98.9			85%
TSS INFLUENT	mg/l	AVG	295	LBS/D	43,773	
TSS EFFLUENT	mg/l	AVG	6	MAX	10	20
TSS REMOVAL	%		98.1			85%
UV LOW DOSE	mJ/cm2		69			≥30 mJ/cm ²
TOTAL N INFLUENT	mg/l	AVG	32.4	LBS/D	4,350	
TOTAL N EFFLUENT	mg/l	AVG	1.99	LBS/D	264	926
N REMOVAL	%		93.9			
TOTAL P INFLUENT	mg/l	AVG	4.34			
TOTAL P EFFLUENT	mg/l	AVG	0.56			
P REMOVAL	%		87.1			
EXCEEDANCES	None					

PLANT EQUIPMENT HIGHLIGHTS

BFP	Replaced belts on two of presses.
Primary #1	Installed new gearbox and motor.
Garage Door	Solids Processing truck bay door not going up, mechanics removed door. Crawford door to order necessary parts and install.
Bar Screen #1	Damaged scraper bar, removed and straightened in press and adjust chain.
Polymer Pumps	Rebuild #4, cleaned make-up system.

SAFETY TWO OPERATORS OUT ON QUARANTINE DUE TO COVID-19 LIKE SYMPTOMS.

SAFETY TWO MECHANICS OUT FOR EXTENDED TIME DUE TO SURGERIES.





**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
April 13, 2020**

A. Brown presented the following project updates:

1. Update on engineering studies and designs

a. Infiltration & Inflow Study

Kenyon Pipeline began working on Seaview Avenue, Shippan Avenue, Wardwell Street, Owens Street and James Street. They began with TV inspections to determine if sewer is ready for lining. They were able to video about 1.5 miles of sewer and found two places that need to be cleaned before lining. They have suspended work for now because of COVID 19.

b. Sludge Degritting System Upgrade

Gannett Fleming is completing the 100% Design Submittal documents and plans to submit them to WPCA for review the second week in May. The project will replace the primary sludge pumps and sludge degritting equipment. We anticipate bidding the project in July 2020.

c. Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) Basis of Design Memo (BODM)

Hazen Sawyer is working through the RAS and WAS system evaluation. They are currently confirming the system capacity. The study will identify performance and reliability issues and concerns with the existing pumping system, evaluate historical plant data and recommend design criteria for new equipment. They are also identifying and comparing alternative styles of pumps that may be suitable to replace the existing vertical shaft pumps. The schedule shows submitting a draft BODM in May with a final BODM this summer.

2. Update on construction projects

a. Preliminary, Secondary Treatment and UV Disinfection Improvements

Contractor, C.H. Nickerson, has poured concrete in the UV tanks. They have installed some of the TROJAN UV equipment. They are completing the electrical work at the UV system. In the blower building, the installation of the metal furring strips, sheet rock and painting is complete. The electrical conduit has been reinstalled. Excavation for the bridge crane footings and the generator is done. Nickerson is backfilling the area to prepare for the next concrete pour. A test pit for the bypass was completed last week and the information will be used to complete the bypass pumping plan.

b. Biosolids Dryer Repairs

The bid documents for the Dryer Building Repairs have been sent to contractors. Bids are due April 14th. BR Welding has completed the additional steel demolition work and replacement of the steel columns, beams and bracing. We have issued a Purchase Order in the amount of \$1,454,533.62 to Andritz for the following equipment: dust hazard mitigation upgrades required by code, SCADA system, saturator/dryer/furnace repairs, and process air loop instrumentation. With the latest PO issued by WPCA, Andritz will provide confirmation on lead times and anticipated delivery times from suppliers.



The latest schedule shows the facility back to normal operation on 9/17/20. However, a revision to the schedule is to be issued in the coming weeks, after bids are received and a better timeline is known for award of general repairs project.

c. LED lighting in Operations, Solids Processing and Chemical Buildings

Energy Resources was given the approval to proceed with the additional lighting in the Synagro office space in the Solids Processing Building. The quote for this work was in the amount of \$13,661.22 which was reviewed and determined to be fair and reasonable. We have notified the Contractor to proceed.

d. Design-Build Standby Generator for the Greenwich Ave. Pump Station

We are in the shop print submittal review phase. The Contractor is preparing a submission for a Coastal Site Plan review.

e. Clay Hill Pump Station Generator

We will be including the generator pad and site work as part of a City Engineering drainage project in the area. While the site work is being completed, we are in discussions with Northeast Generator as to the size generator needed for this location.

f. Electrical Preventive Maintenance Arc Flash

After interviewing the three firms and having a second interview with the firm submitting the lowest cost, the selection committee has chosen Siemens for the contract. We will issue a contract for one year in the amount of \$95,732.00.

Change Order Log 4-12-20

Copy of Change Order log for construction projects attached. In summary, the value of Change Orders for Capital projects is as follows:

Preliminary, Secondary and Disinfection Treatment Improvements

Original Value of Contract = \$ 26,751,500.00
Total Approved CO Amount = \$ 311,249.59
Percent of total project = 1.2%

Biosolids Dryer System Selective Demolition

Original Value of Contract = \$229,306.00
Total Approved CO Amount = \$ 42,012.00
Percent of total project = 18.3%

Supply and Install LED Lighting

Original Value of Contract = \$110,922.37
Total Approved CO Amount = \$ 13,661.22
Percent of total project = 12.3%

Stamford WPCF Preliminary, Secondary and Disinfection Treatment Improvements
Change Order Summary

CHN PCCOR No.	CHN PCCOR Date	Description	PCO								RFI		RFP		WCD	
			Contractor Amount	Status	Included in CO#	Total Approved Amount	Approved to Preliminary	Approved to Secondary	Approved to UV	Approved Date	No.	Date Issued	No.	Date Issued	No.	Date Issued
NA	NA	Replace the Issue for Bidding Specification Sections 00520 - Agreement and 00800 - Supplementary Conditions with the Attached Specifications	\$ -	Approved	1	\$ -					5/10/2019					
01 (rev)	6/21/2019	Programming Services Provider / Integration Services - Revised	\$ 194,922.00	Approved	2	\$ 194,922.00	\$ 48,340.00	\$ 110,000.00	\$ 36,582.00	7/9/2019						
02 (rev)	1/20/2020	Additional Plank Support Framing & Planking at UV Basin 1 Outfall	\$ 35,257.23	Approved	3	\$ 35,257.23			\$ 35,257.23	2/27/2020			01	11/19/2019		
03 (rev)	10/25/2020	Changes to Moment Connection at UV Canopy	\$ 4,076.36	Approved	3	\$ 4,076.36			\$ 4,076.36	12/12/2019	H-019					
04	10/25/2019	Modify Leaking Gate and Wall Infills	\$ 10,824.91	Approved	To Bid Item 5B	\$ 10,824.91		\$ 10,824.91		12/2/2019	W-015	8/19/2019				
05	11/18/2019	UV Pilasters	\$ 2,689.46	Approved	3	\$ 2,689.46			\$ 2,689.46	11/19/2019						
07	1/22/2020	Bulk Waste Testing - Additional	\$ 4,266.05	Approved	To Bid Item 13A	\$ 4,266.05	\$ 4,266.05			2/27/2020						
08	1/28/2020	Additional Gate Demo at ATs	\$ 6,612.83	Approved	To Bid Item 5B	\$ 6,612.83		\$ 6,612.83		2/27/2020					W-05	11/20/2019
09	1/28/2020	Remove and Reinstal drain piping and electrical conduionboxes in Blower Room to install new fire rated wall. Plans did not call for this work	\$ 28,473.69	Approved	3	\$ 28,473.69		\$ 28,473.69		4/7/2020					W-06	11/20/2019
10	2/14/2020	Demo Sonotbe un Conflict with SS Air Pipe	\$ 1,464.31	Approved	To Bid Item 5B	\$ 1,464.31		\$ 1,464.31		2/27/2020					W-07	11/22/2019
11	2/21/2020	Add spool pipe to Septage Area	\$ 1,214.84	Approved	3	\$ 1,214.84	\$ 1,214.84			2/27/2020					W-03	11/20/2019
12	3/4/2020	Additional Cable Tray Supports Not shown on drawings. Approved materials only. Labor to high so going T&M	\$ 16,077.81	Partial Approval	TBD	TDB		TBD			W-65	12/18/19				
13	3/9/2020	Additional Rebar at UV Basin 1	\$ 21,447.91	Approved	3	\$ 21,447.91			21,447.91	3/15/2020					H-01	12/18/2019
15	3/18/2020	Reroute roof drain from Screenings Building as required by the Stamford Building Department. Approved materials only. Labor to high so going T&M	\$ 6,912.20	Partial Approval	TBD	TBD	TBD			4/7/2020					W-01	
16		Additional Cable Tray & Supports. Approved materials only. Labor to high so going T&M	\$ 12,593.87	Partial Approval	TBD	TBD		TBD		4/7/2020	W-83	12/23/2020				
		Relocation of Electrical Gear at UV Basins	\$ 23,643.14	Under Review							H-095	4/8/2020				
		Modbus Network Modification		Pending											H-02	3/5/2020
		Replace Missing Hardware @ AT Bridges		Pending											W-08	11/22/2019
		Bridge Crane Revisions		Pending				TBD							W-09	1/20/2020
		Delete Buried GTP Valve, Install in D-Box		Pending											W-04	11/20/2019
		Replace Additional Town Purchased Diffusers		Pending											W-02	9/5/2019
						Total	\$ 311,249.59	\$ 53,820.89	\$ 157,375.74	\$ 78,605.05						

PERNA LANE AREA SURVEY RESULTS

These are the overall results as of Wednesday, April 8th, for the Perna Lane area survey.

PHASE 1

Total # of homes in Phase 1 = 144

Total # of Phase 1 surveys returned = 48

In Favor = 29

Opposed = 19

Brantwood Lane

Total # of homes on street = 10

Total # of surveys returned In Favor = 1

Total # of surveys returned Opposed = 1

Dzamba Grove

Total # homes on street = 8

Total # of surveys returned In Favor = 4

Total # of surveys returned Opposed = 1

Hampton Lane

Total # homes on street = 11

Total # of surveys returned In Favor = 5

Total # of surveys returned Opposed = 0

High Ridge Road

Total # homes on street = 42

Total # of surveys returned In Favor = 7

Total # of surveys returned Opposed = 7

Perna Lane

Total # homes on street = 16

Total # of surveys returned In Favor = 2

Total # of surveys returned Opposed = 3

Pine Hill Terrace

Total # homes on street = 11

Total # of surveys returned In Favor = 2

Total # of surveys returned Opposed = 2

Somerset Lane

Total # homes on street = 13

Total # of surveys returned In Favor = 1

Total # of surveys returned Opposed = 2

Willard Terrace

Total # homes on street = 33

Total # of surveys returned In Favor = 7

Total # of surveys returned Opposed = 3

PERNA LANE AREA SURVEY RESULTS

These are the overall results as of Wednesday, March 25th, for the Perna Lane area survey.

PHASE 2

Total # of homes in Phase 2 = 61
Total # of Phase 2 surveys returned = 23
In Favor = 11
Opposed = 12

Blue Ridge Drive
Total # of homes on street = 16
Total # of surveys returned In Favor = 4
Total # of surveys returned Opposed = 2

Diamondcrest Lane
Total # homes on street = 16
Total # of surveys returned In Favor = 3
Total # of surveys returned Opposed = 4

High Ridge Road
Total # homes on street = 11
Total # of surveys returned In Favor = 2
Total # of surveys returned Opposed = 2

Marva Lane
Total # homes on street = 7
Total # of surveys returned In Favor = 1
Total # of surveys returned Opposed = 1

Meredith Lane
Total # homes on street = 11
Total # of surveys returned In Favor = 1
Total # of surveys returned Opposed = 3

PHASE 3

Total # of homes in Phase 3 = 42
Total # of Phase 3 surveys returned = 14
In Favor = 10
Opposed = 5

Diamondcrest Lane
Total # homes on street = 9
Total # of surveys returned In Favor = 2
Total # of surveys returned Opposed = 1

Opper Road
Total # homes on street = 5
Total # of surveys returned In Favor = 0
Total # of surveys returned Opposed = 0

Redmont Road
Total # homes on street = 28
Total # of surveys returned In Favor = 8
Total # of surveys returned Opposed = 4