

Colchester Sewer and Water Commission

Minutes of the October 9, 2014 Regular Monthly Meeting

Municipal Office Complex

Colchester, Connecticut

Members Present: R. Silberman (7:10), Robert Peter, T.Hochdorfer, M.Cross

Members Absent: S.Coyle

Others Present: J. Paggioli (Public Works), 3 Civics Students

1. **Call to Order-** Vice Chairman Peter called the meeting to order at 7:06 p.m.
2. **Approval of the Sewer and Water Commission September 11, 2014 Regular Monthly Meeting Minutes** – Motion to approve the minutes of the September 11, 2014 Regular Meeting Minutes as submitted, by M.Cross, second by T.Hochdorfer; Motion approved 3-0 (none abstained)
3. **Citizen's Comments** - A brief discussion between the students and the Commission occurred regarding the duties and responsibilities of the Sewer and Water Commission.

4. **Subcommittee Reports**

A. Finance – Transfers, Monthly financial reports, Quarterly billing, Disputes, other
Transfers – None.

Monthly Financials – Monthly financials were distributed and discussed.

Quarterly Billing –As of 9/30/14 we have collected 24.71% of the projected budget and we have billed out 24.4% of the “projected”.

Disputes: None.

5. **Water Activities**

A. Water Activities Report –

- 1) Service Work: Mark outs, Samples, Finals. Profiles, Service Calls, Lead and Copper Tests. Shutoffs/Turn-ons.
- 2) New Developments. Galaxy Plaza (Health Care Facility), initial 95 Linwood Ave.
- 3) Taintor Hill Treatment Plant: Well 3 yield reduction, alternatives, Alarm quotes and coordination with vendors. Backwash timing.
- 4) Test Pits Highland Farms, Broadway.
- 5) Distribution enhancement work, Inline valve Broadway conducted 10/8/14 and hydrant replacement plan work. (SEE ATTACHED WARNING LETTER)
- 6) Staff implementation of budget, resource cost reduction.
- 7) 80% complete mapping project for Well 3A potential site at plant.
- 8) Assist Bacon Academy – Block House connection to Public Water Supply..
- 8) Monthly Water Quality Sampling- No issues.
- 9) Main breaks: 0 Shutoffs: 10 (all returned to service within 3 days) and 2 permeant (bank actions)

B. Water Projects Status –

- 1) Existing Well 3 has exhibited reduction in specific yield capacity over the last 45 days. Initial indications were directed towards lower rainfall during the summer months, however the likely issue appears to be clogging of the screen openings with iron deposits and other material. The screen for the intake is a “louvered” style of screen, (imagine the openings on house shutters). In consultation with Jim Duncan of the Steven Church Company, staff has met to determine/ design alternatives to redevelop/repair the well in order to maintain the operation of the Well 3 until such time that the new relocated Well 3A can be approved, constructed and bought on line. At the present time there is \$221,000 in the Capital Fund. A Proposal is attached for review. Additionally there are estimates for test drilling for well design in order to have the Well 3A design configured. Discussion occurred regarding technical issues on the existing well and the need to expedite the repair to Well 3 and proceed with the regulatory approval process to conduct the Well 3A work. Action to be conducted under Item 8A of the meeting agenda.

6. Sewer Activities

A. Joint Facilities Report – Joint Facilities has contracted CDM to prepare the documents for the RDT. Job Description for the Administrator is still within the Town Manager’s office at East Hampton awaiting advertisement.

B. Sewer Activities Report – No unusual activities within Colchester. FOG AGRU at the former Jerimiah’s Restaurant on Main Street. Increased ARGU capacity at FCS at Bacon Academy. Mr. Paggioli also commented on the Certificate of Public Convenience and Necessity work that was required to submitted for the property at 7 Loomis Road in the Westchester section of the town.

C. Sewer Projects Status – Board of Selectman meeting 10/2/14 Approved funding recommendation for RDT project.

7. Old Business

A. Capital Planning Update.- In response to presented opportunity for long-term lease possibilities, evaluation of 3 locations were conducted. The most

advantageous location is presently owned by the Town of Colchester. Further research investigation is being conducted in order to plan for required regulatory approvals. Existing mapping for location and potential Well 3A site at plant 90% complete. Referring back to the work that is required to be conducted in order to maintain Well 3 operational while awaiting regulatory approval for Well 3A, the Commission agreed that the use of available Water Capital Funds was the most appropriate means in order to conduct the repair work on the Well 3 screen, casing and redevelopment. Additionally, due to the necessity of expediting the repair in order to maintain service to the system, the need for a waiver from the competitive bidding process should be included within the recommendation. This is due to Time being a critical factor for the repair and that should malfunction occur on any other well of the system, there would be a substantial disruption of service of the water system.

Motion was made by R. Silberman, Seconded by T.Hochdorfer; to Recommend to the Board of Selectmen the appropriation of up to \$22,500 from the Water Capital Fund for the video, new screen and casing and redevelopment work for the existing Well 3, in accordance with proposal dated October 8, 2014 from The Stephen B. Church Company, and that a Waiver of Request for the Competitive Bid Process under Section F of the Town of Colchester Purchasing Policy be granted. Motion approved 4-0.

B. Energy Performance Contract –. Installation of the Transformer upgrades are completed at the Filtration Plant. O&M Building Sealing is completed. Lighting is complete. Building Automation system is being online 5/7/14. Initial analysis for electric use shows that the plant is exceeding electrical savings, (with exception of tank recoating project drain/fill/etc use) due to the “non-degree day” influence on the plant overall.

C. Spray Park Repair Request- Estimate has been conducted to repair the spray park leakage. Due to the design and layout of the piping, estimated cost for replacement piping and associated concrete repair is \$38,000. The park was not activated until the last day of the school year, (with much criticism from the public) and readings will be taken monthly while open to monitor use. Update: Spray Park closed 8/29/2014. Park Meter reading for the bathroom/shower/and spray park for the quarter was 1.870 million gallons. Approximately a 80% increase in the leak than last year. Estimated cost of water based upon the use of the facility is \$17,737 based upon current rates. Specifications for bidding the repair project are being prepared. The First Selectman has been made aware of the issue and has instructed to prepare an RFP for the repair and upon receipt of bids, going forward with an accurate funding request. Mr. Paggioli is continuing specifications preparation.

D. Joint Facilities Public Utility Administrator replacement process. Job Description for the Administrator is still within the Town Manager’s office at East Hampton awaiting advertisement.

E. Town Water use.

A spread sheet was presented last meeting for discussion.
No further action conducted this month.

8. **Adjourn** - Motion to adjourn, by T. Hochdorfer, second by M. Cross; Motion approved 4-0. Vice -Chairman Peter adjourned the meeting at 8:15 p.m.

Respectfully submitted,
James Paggioli, L.S.

The Stephen B. Church Company
49 Great Hill Road
Oxford, CT
Since 1886

October 8, 2014

E-mail to Colchester Water Department
Attention: Steve Klobukowski
Colchester, CT
Phone 860-537-2806
E-mail Colchesterwater@comcast.net

And to Colchester DPW
Attention: Jim Paggioli
Colchester, CT
Phone 860-537-7286
E-mail publicworks@colchesterct.gov

From Jim Duncan
The Stephen B Church Company
Oxford, CT
Phone 203-888-2132
Cell 203-627-8006
E-mail stephenbch@aol.com

Steve/ Jim:

With this e-mail we wish to provide you with our proposal for repair of your #3 well and pump per our conversation of last week.

We understand that the last contractor who worked on the well encountered a hole in the casing above the screen. Their drawing shows that installed a 10 inch sleeve with a K packer inside the 12 inch well, set between 46 and 51 feet below grade. Your crew said that they remembered that the sleeve was held in place with a set of stilt-like steel legs that rested on the bottom of the well.

We propose to pull the pump and to put a hose into the well for a couple of hours at 10 gpm or so. Pulling a pump usually stirs up the water inside the well and running the hose generally clears the water for the video work.

We would then inspect the inside of the well with our underwater video camera. We would also lower indicator tools of various diameters to confirm that the well would accept the new screen.

We propose to purchase a new stainless steel well screen to slip inside the old sleeve, screen, and stilts. The new screen would be 7.5 inches OD and it would be 15 feet long. This would allow it to extend from the bottom of the well at 60' 2" to 45' 2". The well screen slot size would be 0.050 inches, which would theoretically transmit 360 gpm at recommended entrance velocity. The top part of the screen section would be what is called tightwrap, which would be a section of the screen that is of the correct OD but there would be no slot openings.

The top of the screen would be fabricated with a stainless steel adapter weld ring that would allow it to connect to 10 inch standard wall steel casing. We would weld on new 10 inch steel casing and extend it to the surface.

Once the new screen and casing are installed, we would then proceed to redevelop the well using a combination of chemical and mechanical processes. As we said last week, the key to the redevelopment would be to clean the area around the bottom of the louvers in the old shutter screen. Our old records show that we had success doing this using muriatic acid and also using HTH. While we cannot guarantee the increase in the capacity of the well, we are confident that with the new screen and casing in the well, we would have done as much as we can to make structural repairs to the well.

Estimated cost for the repair of the well would be as follows:

Pull pump, video well, confirm inside diameter, provide and install new screen and casing

Lump sum \$11,500

Redevelop well using surge rig, hollow block surge plungers, air lift pumping system, and chemical treatments, including pump reinstallation

5 days estimated at \$2000 per day	\$10,000
Muriatic acid - 45 gallons estimated at \$9.00 per gallon	405
HTH - 16 pounds estimated at \$8.00 per pound	128

The total cost of the well repair would be estimated at around \$22,000. In order to expedite the project, we assume that you would want us to have the new screen and casing on hand before we mobilize. We have been conservative in selecting the diameter of the new well screen, but if we determine that the new screen will not fit into the old well, we would then have to order another screen, at additional cost and time. The manufacturer has said that they would be able to ship the screen within 5 to 7 days of receipt of order. It would be made in St. Paul so let's assume that it would take another week for trucking time for the screen to get here.

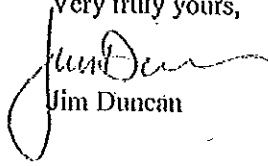
We can also provide a new bowl assembly for the turbine pump. We attach a catalog curve for an American Marsh six stage 8 MC bowl unit for 250 gpm at 150 feet total discharge head. This bowl unit would be assembled with stainless steel impellers. We would also sandblast and paint the discharge head and replace the bushing in the stuffing box. Your cost for the pump work would be \$4700. We assume that the column pipe, lineshaft, spider bearings, and discharge head would be in good enough condition so that they can be reused as is. The pump manufacturer has said that they should be able to ship this bowl unit about a week after receipt of

order. When we reinstall the pump, we would put a piece of suction pipe on the bottom of the bowl unit that would extend into the new screen.

It would be a good idea to have the motor serviced while the pump is out of the well. We can load the motor on your truck for delivery to the shop of your choice, or we can take it to the shop we use for service. The price of the motor service would be additional.

Thank you for asking us to quote on this project. If you have any questions, please feel free to call. We hope to serve you.

Very truly yours,



Jim Duncan

SECTION F WAIVER OF REQUEST FOR PROPOSAL/COMPETITIVE BID PROCESS

In certain situations the bidding, quotation, and proposal processes described in this document may be waived even though the estimated cost exceeds the dollar threshold established in "Section A: Definitions & General Requirements."

The formal process may be waived for any of the following reasons:

- Only one (1) reasonable or qualified source can be identified, including those furnished by a monopoly utility. The Purchasing Agent will make the final determination of single source purchases.
- Time is a critical factor.
- A formal process would result in substantially higher costs to the Town or Board of Education, or inefficient use of personnel, or cause substantial disruption of Town or Board of Education services.
- Tuition and other services as determined by Planning and Placement Team (PPT).
- Those exempted or determined by law.

The First Selectman or Superintendent may grant a waiver for any of the above-listed reasons. Upon granting such a waiver, the First Selectman or Superintendent must, in writing, state the reason(s) for granting such waiver and shall notify the Board of Selectmen or the Board of Education as applicable of such action by electronic means.

If within two business days following such notification two members or more of such board as applicable objects to the granting of such waiver then the waiver shall be suspended pending approval of the waiver by the full board. No bids shall be awarded pursuant to this process until two business days have elapsed.

A waiver for any reason other than those above requires the approval of the Board of Selectmen or the Board of Education as applicable. For a requesting department or school to obtain a waiver, a written waiver request including specific reasons for the waiver shall be provided to the First Selectman or Superintendent. The request must be signed by a department head, principal, or director. Upon receipt of the waiver request, the First Selectman or Superintendent will notify the requestor if the waiver has been granted.

James Paggioli

From: stephenbch@aol.com
Sent: Wednesday, October 08, 2014 2:22 PM
To: ColchesterWater@comcast.net; James Paggioli
Subject: Test Well Drilling

Steve/ Jim

Per your request, here is our best estimate for three test wells to determine a location for replacing your production well 3.

We assume that the test wells would be drilled to a depth of 60 feet and that they would each have 10 feet of screen. There would be no charge for undamaged materials for any well that we install and subsequently remove (for example, if a site shows little promise for a production well.)

	Estimated Quantity	Units	Unit price	Extension
Mobilization	1	Lump sum	450.00	450.00
Rig and crew for drilling, developing, pumping	3	days	2460.00	7380.00
Materials left in place				
2 1/2 inch XH drive pipe	150	feet	24.86	3729.00
1 1/4 inch ss screens x 5 ft	6	each	150.00	900.00
2 1/2 inch case hardened drive shoes	3	each	40.00	120.00
		Estimated total		12579.00

When we find a promising location from the test well drilling, we like to drill a sister well two feet away from the promising site and set a screen in it. Then we can pump one well and get very good water level measurements in the second well. On the basis of the test well drilling, and the pumping and water level data developed, we can provide you with an estimate of the yield of a gravel well at that location.

All drill sites need to be level, clear, and free from overhead and underground utilities and obstructions and accessible to our truck-mounted equipment. We would need a source of water to use in our drilling operation. This work must be done before freezing weather because we use a jetting operation that cannot be done safely in the cold.

If you have any questions, please feel free to call.

Jim Duncan
The Stephen B Church Co
Oxford CT
203 888 2132



ATTENTION PUBLIC WATER USERS

The Colchester Water Department will be installing a triple gate and a new hydrant in the area. Water service will be shut off while this work is being completed.

Water will be shut off at approximately 8:00 p.m. Wednesday, October 8, 2014, and be restored approximately four hours later.

You may notice some discoloration during the first use of water after service is restored. Please run the taps for a short period to "flush" your service lines.

We appreciate your cooperation and apologize for the inconvenience.

Colchester Water Department
860-537-7289

127 Norwich Avenue Colchester, CT 06415
860-537-7289 860-537-7273 fax