

**SEWER COMMISSION**  
**THURSDAY, May 7, 2009**

A Meeting of the Board of Sewer Commissioners was held on May 7, 2009, at 7:30 p.m. in Conference Room A at the Thomas C. Parsons Complex, 70 West River Street.

Chairman, Paul Austin called the Sewer Commission meeting to order at 7:30 p.m.

The following Commission Members were present:

Chairman Paul Austin; Vice Chairman Donald Anderson;  
Commissioner Michael V. Brown; and Commissioner  
Robert Carroll

Others Present:                      Consultant Mark Davis, Westcott & Mapes, Inc.;  
Consultants, AECOM, Inc. Kenneth Bradstreet and Charlie  
Smith; James Cooper, Acting Wastewater Superintendent

Absent:                                  Commissioner Louis D'Amato and Raymond Macaluso,  
Westcott and Mapes, Inc.

**CITIZENS COMMENTS:**

**Fred Detar, 9 Stowe Avenue**

Mr. Detar is requesting that the allowable gallonage of 3,000 gallons per day per acre for the Devon Westshore Sewer District be extended to include his house on 9 Stowe Avenue, giving him more gallonage per day per acre so that he will be allowed to construct a two-family house. Mr. Detar's application to construct a two-family was denied at the March 2, 2001 Regular Sewer Commission meeting. On March 14, 2001, Mr. Detar again approached the City to construct a one-family on 9 Stowe Avenue. At the May 3, 2001 Regular Sewer Commission meeting, the Commission approved the connection of a one family.

Chairman Paul Austin stated that the only way that the gallonage could be increased would be by performing a study of the flows in the area. However, the City would not be able to designate any funds for this survey, and that Mr. Detar would be responsible. Mr. Detar stated that he would return with an application at the June 2009 Regular Sewer Commission meeting under the non-conforming applications.

**Charles Brown, 11 Pearl Hill Street**

Mr. Brown stated that he wanted an update on the progress of the East/West Interceptor project in reference to the reparations of his property on 11 Pearl Hill Street. Now that it appears that work is done, Mr. Brown will obtain estimates to repair damage that was done to his property in conjunction with the East/West Interceptor Project and the contractor Mark IV Construction. Mr. Brown has been in contact with Westcott and Mapes, however, has not spoken with Mark IV, except to ask them to remove their materials from his front yard and materials that were leaning against his house and steps. His property has sustained gutter damage, landscaping and extensive drainage

problems. Mr. Brown was told that Mark IV Construction would return his property to the original condition. It was suggested by the Commission that Mr. Brown submit a list of damages directly to Westcott and Mapes, with a copy to the Sewer Commission.

**Michael Brown, Commissioner**

Commissioner Michael Brown spoke to the Commission regarding Rosemary Court and Kerry Court and the lack of sewers in both of these locations. Mr. Brown requests that these two items be submitted to Mayor Richetelli for the next Capital Improvement Plan. Regarding Rosemary Court, there had been a public hearing at which time the residents were asked to answer a survey; there being a negative response, no clear cut decision at that time was made to install sewers with the original problem being the size and placement of the pump station. Commissioner Brown states that septic systems along the Oyster River could possibly be draining into the River.

Vice Chairman Donald Anderson **MADE A MOTION** to refer this request to Mayor Richetelli to include Rosemary Court and Kerry Court in the next Capital Improvement Plan.

Commissioner Robert Carroll **SECONDED** and it was unanimously approved.

**PETITIONS**

None

**TABLED APPLICATIONS**

None

**WESTCOTT AND MAPES, INC.**

Mark Davis, Engineer with Westcott and Mapes, Inc. presented the report from Westcott and Mapes, Inc.

**A. Indian River Interceptor Rehabilitation**

Westcott and Mapes, Inc. reported that plans and specifications for this project are being completed and that easements will be acquired, which will then go before the Planning and Zoning Board and Board of Aldermen for authorization. In addition, Inland Wetlands approval is required for this project.

**B. East-West Interceptor Replacement**

Westcott and Mapes, Inc. reported that sewer construction for the project is complete and that curb-to-curb paving and final restoration is underway. The project is on schedule for completion by May 27<sup>th</sup>.

Westcott and Mapes, Inc. also reported that we have received Pay Application No. 8 from Mark IV Construction Company, Inc. Westcott and Mapes, Inc. has

reviewed the application and recommends approval of Pay Application No. 8 in the amount of \$56,125.12.

In addition, Westcott and Mapes, Inc. reported that additional work was required by DOT District III for pavement within the U.S. 1 right-of-way. Also, additional work for traffic control services by the Milford Police Department was performed in excess of the original estimated amount. Westcott and Mapes, Inc. recommends approval of Change Order No. 10 in the amount of \$25,832.00. If approved, the request for payment will occur next month.

Vice Chairman Donald Anderson **MADE A MOTION** to approve change order No 10 in the amount of \$25,832.00.

Commissioner Robert Carroll **SECONDED** and was unanimously approved.

Westcott and Mapes, Inc. also submitted an estimate for additional work to sandfill the existing 210 LF of 36-inch sanitary sewer where it runs along Erna Avenue from the Boston Post Road to Washington Street for a cost of \$36,750.00. This is recommended due to the poor condition of the existing sewer encountered in this area and its location along the center of Erna Avenue. If approved, a change order for this work will be prepared and submitted at next month's meeting.

There is presently \$102,237 in contingency available for the completion of construction for this project. Westcott and Mapes, Inc. estimates that at final completion the contingency remaining will be approximately \$87,000. This estimated surplus includes deductions for Change Order No. 10 and for the sandfill of the sewer along Erna Avenue, as well as final adjustment of bid quantities.

Commissioner Robert Carroll questioned when the paving of this area had been done. Mark Davis stated that the paving had just been done on May 6, 2009. Commissioner Carroll then asked why the sandfill had not been done previous to the paving. Jim Cooper, Acting Superintendent of Wastewater stated that process could not be avoided due to the fact that there was not enough time. Mark Davis stated that the \$36,750.00 would include the repaving.

The Commissioners stated that if in future projects, we know that the old sewer pipe needed to be filled with sand, we should do it before the paving.

Vice Chairman Donald Anderson **MADE A MOTION** to approve in concept the work to sandfill the existing 210 linear feet of 36-inch sanitary sewer where it runs along Erna Avenue from the Boston Post Road for a cost of \$36,750.00.

Commissioner Michael Brown **SECONDED** and was unanimously approved.

**C. East Broadway Interceptor Replacement**

Westcott and Mapes, Inc. reported that the payment request submitted at the March meeting is presently being reviewed by the City Attorney.

**D. West Avenue Parallel Force Main**

Westcott and Mapes, Inc. reported that this project is presently out to bid. The Mandatory Pre-Bid Conference will be held this Monday, May 11<sup>th</sup>. Bids are scheduled to be opened on Wednesday, June 10<sup>th</sup>.

**E. Buckingham Avenue Force Main**

Westcott and Mapes, Inc. reported that engineering design for this project is ongoing and is approximately 80 percent complete.

**EARTH TECH\AECOM, INC.****A. Housatonic & Beaver Brook Wastewater Treatment Plants**

1. Carlin's Payment Requisition #30 in the amount of \$510,593.98 is presented to the Board for approval. This requisition includes work through April 16, 2009 as follows:

**Housatonic Plant - \$470,744.15**

Secondary clarifier # 1,2, & 4 equipment installation

Grit chamber equipment installation

Operations Building renovation:

First Floor offices, new lunch room/conference room

Chemical room – equipment installation, sprinkler system and electrical

Secondary Gallery – installation of piping and electrical for RAS pumps

Aeration control system startup

HVAC and plumbing

Site grading

SCADA system

Clarifiers #1, #2, & #4 will be operational within a week

The chemical pumps are to be started this week

The aeration control system is operational but needs fine tuning

**Beaver Brook Plant - \$39,849.83**

Punch list work

Performance testing for the odor control system is scheduled for May 14<sup>th</sup>.

The aeration control system is operational but needs fine tuning

2. Change Order #70 in the amount of \$25,653 is submitted to the Board for approval. It includes the following items of work at the Housatonic plant:
  - A. Landscaping with shrubbery in the slopes adjacent to Primary clarifier #2 and the South Anoxic Basins (\$21,258.00). This is being done to

prevent erosion  
of the embankment.

- B. Miscellaneous mechanical work at the Housatonic plant include modifications to polymer piping, installation of a stand pipe in the odor control containment and rerouting of seal water piping in the Chemical Room. (\$4,395.00)

After discussion, Vice Chairman Donald Anderson **MADE A MOTION** to approve change order No. 70 in the amount of \$25,653.00.

Commissioner Michael Brown **SECONDED** and was unanimously approved.

3. Change Order #71 in the amount of \$6,349 is submitted to the board for approval. It includes miscellaneous items of work done at the Beaver Brook plant on a time and materials basis including: New wall sleeve for gas pipe through Secondary Digester wall; installation of electric door lock on existing door as part of security system; aluminum angle installed in front of step screen to trap rocks; and replacement of clogged drain at sample sink in Digester Building.

Commissioner Robert Carroll **MADE A MOTION** to approve change order No 71 in the amount of \$6,349.00.

After discussion, Vice Chairman Donald Anderson **SECONDED** and was unanimously approved.

4. Change Order #72 in the amount of a \$96,930 credit is submitted to the board for approval. This includes elimination of remaining unit price items at the Beaver Brook plant.

Commissioner Michael Brown **MADE A MOTION** to approve change order No. 72 for a credit of (\$96,930.00).

After discussion, Vice Chairman Donald Anderson **SECONDED** and was unanimously approved.

- 5 The spreadsheet showing the status of the project contingency account has been updated to reflect change orders to date, unit price items to date, other expenses, and pending items of work. Based on this the Project Status is:

|   |                   |
|---|-------------------|
| Total change orders through #72         | \$1,818,943       |
| Total pending & potential change orders | <b>\$ 265,345</b> |
|   |                   |
| Total remaining unit price items        | \$ -203,742       |
| Earth Tech/AECOM contract extension     | \$ 213,060        |
| Independent Materials Testing           | \$ 125,000        |
| Force Account work                      | \$ 20,000         |

|                            |                    |
|----------------------------|--------------------|
| Projected Contingency used | <b>\$2,238,606</b> |
| Total Contingency          | <b>\$2,333,372</b> |
| Remaining contingency      | <b>\$ 94,766</b>   |

6. A separate spreadsheet has been prepared listing additional items of work at both plants that are on hold.
4. The project is approximately 96.5% complete.

B. West Avenue and Gulf Pond Pump Station and Force Main

1. Earth Tech is continuing to update the design of the pump stations as well as package the plans and specifications for bidding. We anticipate advertising this project for bids approximately 6 months following advertisement of the force main project, which was done on Monday, May 5, 2009.

C. East Broadway Pump Station Relocation

1. The borings for the project have been completed and the data is being analyzed by Earth Tech's geotechnical engineer.
2. The design for the project is almost complete and the plans and specifications are being packaged for bidding.
3. Since the new West Mayflower Place Pump Station is larger than the existing pump station at that site, additional easement must be obtained from the Milford Housing Authority. A meeting was held this morning with Anthony Vasilou of the Housing Authority with discussion as follows:
  - A. Mr. Vasilou has discussed the proposed pump station expansion with his board. They are concerned with issues such as diesel fumes and noise from the generator affecting the residents of the apartment complex.
  - B. The Housing Authority has a 100 KW generator in the apartment building that has been the source of complaints. It discharges exhaust right outside the building which impacts residents. The question was raised as to whether we can give them sufficient capacity in the pump station generator to eliminate the Authority's generator. We plan to reuse the existing generator from East Broadway. We said that we would look into this possibility.
  - C. If the capacity in the pump station generator is not sufficient they want us to consider moving their generator to the pump station site. Putting their generator in the new pump station electrical building is not possible. This alternative would probably involve purchasing a new pad mounted generator.
  - D. With either alternative B or C approval of the Sewer Authority and presumably the Aldermen would be required.
  - E. There was some concern raised about excavation and blasting to construct the new pump station. Borings show fractured rock at the pump station site.

## D. Welches Point and Rock Street Pump Stations

1. Earth Tech has started design work on this project.

## E. West Avenue Pump Station Emergency Repairs

1. The Board of Aldermen authorized the expenditure of \$625,000 to proceed with the emergency repairs to the West Avenue Pump Station and other related work. A Time and Material, Not-To-Exceed Contract was negotiated with Carlin Contracting in the amount of \$420,000 to install a live tap into the 30" West Avenue force main, set up and operate bypass pumping, clean out sand, silt, rocks, and grit which had washed into the wet well and disassemble and clean out portions of the piping in the pump station.
2. Time and Materials contracts were also negotiated with AECOM (Earth Tech) for \$50,000 and with Westcott & Mapes for \$10,000 to assist with negotiations with Carlin and to oversee and monitor the work being done by Carlin.
3. On starting the work, Carlin discovered a large floating mat of grease and other debris which has nothing to do with the materials that recently washed into the wet well, but which also must be removed. Carlin has submitted a request for a NTE \$50,000 increase in their not-to-exceed Contract to have this work done by Synagro. We agree that this is an unforeseen condition and recommend approval of this request. There is ample contingency in the City authorization to cover this increase.

Commissioner Michael Brown asked to recess the meeting at 8:44 p.m. Chairman Paul Austin recessed the meeting at 8:44p.m.

Chairman Paul Austin called the meeting to order at 8:58 p.m.

Commissioner Michael Brown **MADE A MOTION** proceed with Carlin's request to start work on removing the floating mat of grease and other debris for a not-to-exceed amount of \$50,000.

Vice Chairman Donald Anderson **SECONDED** and was unanimously approved.

4. City forces worked during the early morning hours on two occasions prior to Carlin starting the work to free up a 30" gate valve inside the pump station so that it could be closed while the bypass was running.
5. Carlin set up a siltation control system and excavated down to the force main, setting in place a steel sheet pile cofferdam as they progressed. Groundwater was encountered at a depth of about 6 feet and was handled with portable pumps. A tapping saddle was installed around the pipe with concrete poured around it. A valve was installed on the saddle and after the concrete had set, a tapping machine was bolted to the valve, which then cored a 24" hole through

the pipe while it was live. The machine head was withdrawn, the valve closed and the tapping machine removed. A 24" pipe header was then installed with connections from 5 portable bypass pumps, which all take suction from the manhole just outside the pump station. City forces again worked during the early morning hours to shut down 5 pump stations to allow the flows to reduce to where Carlin could set a plug into the 42" pipe which connects to the pump station wet well. At the present time the bypass has been operational since Monday, Synagro is working to clean out the wet well and Carlin is working to clean out the piping in the pump station pump room.

6. The \$625,000 authorization by the Aldermen only covered emergency work at the West Avenue Pump Station and minor work at the Housatonic plant. There are several serious issues at the treatment plant that need to be addressed as part of an insurance claim that consist of specialty tank/piping cleaning, equipment inspection and repair of damage and resulting additional time to not only accomplish these corrective actions but additional time because of the resulting inability for Carlin to complete contract work. These issues are presently impacting Carlin's ability to complete the work within the Contract time limit. We are currently re-assessing all of the above from our initial assessment in January 2009 now that damages at the plant have been able to be better defined for the subject of a future memo to the City.

#### **USER FEE REVISIONS/ASSESSMENT REVISIONS**

##### **1. 0 Riverside Drive, Lot #12, List #898, Map 18, Block 363, Parcel 12**

Commissioner Robert Carroll **MADE A MOTION** to suspend the assessment in the amount of \$1,500 for the frontage and \$200 for the lateral for 0 Riverside Drive, Lot #12, List # 898, Map 18, Block 363, Parcel 12, until such time said lot becomes buildable.

Commissioner Donald Anderson **SECONDED** and it was unanimously approved.

#### **COMMITTEE REPORTS**

None

#### **CONSULTING ENGINEER'S REPORT**

#### **WASTEWATER**

##### **Plants**

Both Wastewater Plants performed well in the month of March, producing a good effluent.

At the Housatonic Plant normal monthly maintenance was performed. North Aeration basins and anoxic tanks are up and running. We still have problems related to



the East West Interceptor work, although repairs are planned. Many new systems are being started up. Manufacturers representatives for the ultra-violet dis-infection and the Aeration control have been working on these systems.

At the Beaverbrook Plant normal monthly maintenance was performed. Most of the new systems are on line at Beaverbrook, we have started filling the secondary digester. We have had some problems with the aeration control system that are being worked on.

### **Collection System**

#### **Pump Stations**

Scheduled maintenance was performed at the following pump station: Sailors Lane, Live Oaks, Pumpkin Delight and Carriage Drive Pump Stations

Other Duties performed by Pump Station Crews:

1. The Wastewater electrician repaired a set of auxiliary contacts on the emergency generator transfer switch. He also installed a new high water alarm float at the Mathews St. Pump Station.
2. We installed a new sleeve and a new type Chesterton shaft seal on the #1 pump at the Boston Post Road Pump Station
3. At the Naugatuck Avenue Pump Station we had a new emergency generator transfer switch installed to replace the old obsolete one that was causing problems. We also had the power supply for the alarm radio replaced.
4. We installed a new 50 HP KSB submersible pump at the Viscount Drive Pump Station. We sent the failed Flygt pump out for evaluation to see if it can be repaired or must be replaced.
5. The pump station crews shut down pump stations as needed for Mark IV Construction to facilitate work on the East West Interceptor Project.
6. The city plumber installed a new water main shut off valve at the Adams Ave. Pump Station.

There was seven (7) alarms at pump stations in March: 4 for power outages, 2 for high water and 1 unknown.

### **Sewer Maintenance**

Sewer Maintenance answered seven (7) complaints.

Sewer Maintenance crews performed scheduled maintenance sites eight (8) trouble sites citywide: #7, #8, #26, #27, #29, #33, #38 and #39.

Scheduled maintenance was performed on the following equipment: The aluminum trench box, the Ready 8 dewatering pumps, and they also cleaned and organized the back bays.

There were two (2) sewer excavations in March: 232 Housatonic Drive and 56 Chatham Ave.

Other duties performed by Sewer Maintenance crews:

1. The crews relieved a main line blockage at the intersection of New Haven Avenue and Buckingham Avenue.
2. The city engineering department requested the televising of several storm sewers in the West Avenue area.
3. We reset a manhole in the North Street area that could have been a significant source of I&I.
4. The technical services crew located and exposed the water main shut-off for Adams Avenue Pump Station
5. Manholes were located and opened in the Gulf Pond Pump Station area for Westcott and Mapes Engineers.

Total of 27,430 ft. were jet flushed, 1655 feet were TV'ed with our standard TV equipment, and 350 ft. were spy tv'ed. We also hand rodded 285 ft, used the hydraulic jet root cutter to relieve 375 ft, root treated 85 ft., smoke tested 1600 ft. and dye tested 165 ft. to check for sewer connection.

### **CHAIRMAN'S REPORT**

#### **Administrative Approvals:**

##### **188-198 Pepe's Farm Road (Frito-Lay, Inc.)**

Administratively approved to connect a proposed office/warehouse to the City's Sanitary Sewer System. Allowable gallonage for the entire parcel is 2,355 gallons per day. Proposed gallonage for the entire parcel 405 gallons per day. Tenant will install a 1,000 gallon oil/water separator.

##### **232-254 Melba Street**

Administratively approved to connect proposed 46 one-bedroom apartments to the City's Sanitary Sewer System. Allowable gallonage for the entire parcel which includes a grocery/retail store is 6,073 gallons per day. Proposed gallonage for the entire parcel, including the grocery/retail store is 5,877 gallons per day.

##### **1034 Bridgeport Avenue**

Administratively approved to connect a proposed metal/woodshop for theatrical set production to the City's Sanitary Sewer System. Allowable gallonage for the entire parcel 2,250 gallons per day. Proposed gallonage for the entire parcel, is 1,000 gallons per day.

### **VOTING**

#### **A. PETITIONS - See above**

#### **B. MINUTES**

Vice Chairman Donald Anderson **MADE A MOTION** to approve the minutes of the Regular Sewer Commission Meeting of April 2, 2009.

Commissioner Robert Carroll **SECONDED** and it was unanimously approved.

#### **A. PAYMENTS**

Commissioner Robert Carroll **MADE A MOTION** to approve Payment List of May 7, 2009 as follows:

to **Carlin Construction**, Housatonic Plant Upgrades, P.O. 07-0046625-001, Account No. 0026-4154-0036-4994-0025 in the amount of **\$470,744.15;**

to **Carlin Construction**, Beaverbrook Plant Upgrades, P.O. 07-0046618-001, Account No. 0026-4154-0036-4994-0024 in the amount of **\$39,849.83;**

to **Mark IV Construction**, East/West Interceptor Sewer Replacement, P.O. 08-0050441-001, Account No. 0026-4154-0044-4994-0000 in the amount of **\$56,125.12;**

to **Westcott & Mapes**, Buckingham Avenue Force Main, P.O. No. 08-0050540-001, Account No. 0026-4154-0045-4993-0000 in the amount of **\$25,368.00;**

to **Westcott & Mapes**, East/West Interceptor Sewer Replacement, P.O. No. 08-0050648-001, Account No. 0026-4154-0044-4993-0000 in the amount of **\$19,605.00;**

to **Westcott & Mapes**, East Broadway Interceptor Replacement Construction, P.O. No. 07-0047721-001, Account No. 0026-4154-0036-4993-0027 in the amount of **\$805.00;**

to **Westcott & Mapes**, West Avenue Parallel Force Main, P.O. No. 08-0050658-001, Account No. 0026-4154-0044-4993-0000 in the amount of **\$11,057.50;**

to **Westcott & Mapes**, Indian River Interceptor Replacement, P.O. No. 08-0050659-001, Account No. 0026-4154-0036-4993-0033 in the amount of **\$12,190.00;**

**Independent Materials Testing Lab, Inc.** WWTP-Upgrade Project Material Testing, P.O. No. 07-0046973-0001 Account Nos. 0020-4154-0036-4993-0024 and 0026-4154-0036-4993-0024 in the amount of **\$660.00;**

to **Earth Tech**, East Broadway Pump Station Replacement, P.O. No. 05-0043160-001, Account No. 0026-4154-0036-4993-0022 in the amount of **\$2,130.00;**

to **Earth Tech**, Eng. Services – West Ave/Gulf Pond PS, P.O. No. 08-0050650-001, Account No. 0026-4154-0036-4993-0039 in the amount of

**\$1,211.51;**

to **Earth Tech**, Eng. Services – Rock Street & Welches Point Pump Station, P.O. No. 08-0050651-001, Account No. 0026-4154-0036-4993-0028 in the amount of **\$252.67;**

to **Earth Tech**, Contract Engineering Services WWTP Upgrade, P.O. No. 06-0045461-001, Account Nos. 0026-4154-0036-4993-0024 and 0026-4154-0036-4993-0025 in the amount of **\$88,557.28.**

The total of Payment List of May 7, 2009 is in the amount of **\$728,556.06.**

Vice Chairman Donald Anderson **SECONDED** and it was unanimously approved.

Chairman Paul Austin discussed the possibility of rescheduling the June meeting from June 4, 2009 to June 11, 2009. Also on June 11, 2009, we will have a Public Hearing to present the proposed Sewer User Fee. This meeting will take place at 7:00 p.m. on June 11, 2009 just before the 7:30 p.m. regular Sewer Commission Meeting.

### **EXECUTIVE SESSION**

Vice Chairman Donald Anderson **MADE A MOTION** to go into Executive Session for the purpose of discussing Status report and consideration of Settlement of Claim of Mark IV regarding East Broadway Project.

Commissioner Robert Carroll **SECONDED** and it was unanimously approved.

Chairman Paul Austin announces the time at 9:28 p.m. and states that the Executive Session will be limited to the members of the Sewer Commission, Attorney Winthrop Smith and Mark Davis of Westcott and Mapes, Inc..

Recorder is turned off and the room is cleared of all individuals not invited and the door is shut.

Vice Chairman Donald Anderson **MADE A MOTION** to end the Executive Session.

Commissioner Michael Brown **SECONDED** the motion.

Chairman Paul Austin announces the time as 9:59 p.m..

Commissioner Michael Brown **MADE A MOTION** to make a partial payment to Mark IV Construction regarding the East Broadway Interceptor Replacement in the amount of \$347,651.81.

Vice Chairman Donald Anderson **SECONDED** and it was unanimously approved.

Vice Chairman Donald Anderson **MADE A MOTION** to adjourn at 10:01 p.m..

Commissioner Michael Brown **SECONDED** and it was unanimously approved.

There will be a Public Hearing regarding the Annual Sewer User Fee on **Thursday June 11, 2009 at 7:00 p.m.**

The next meeting of the Board of Sewer Commissioners is scheduled for **Thursday, June 11, 2009 at 7:30 p.m.**

Respectfully submitted,

Cynthia N. Valeo, Clerk  
City of Milford Sewer Commission