

**CITY OF DANBURY**  
**DEPARTMENT OF PUBLIC WORKS**



**155 DEER HILL AVENUE**  
**DANBURY, CONNECTICUT 06810**  
**(203) 797-4537 FAX (203) 796-1586**

**MAYOR**  
**Honorable Mark D. Boughton**

**PUBLIC WORKS DIRECTOR**  
**Antonio Iadarola, P.E.**

November 30, 2010

Honorable Mayor Mark D. Boughton  
Honorable Members of the Danbury City Council  
155 Deer Hill Avenue  
Danbury, CT 06810

**RE: Monthly report for October 2010**

Dear Mayor Boughton and Members of the City Council:

I am pleased to present the Public Works Department report for the month of October.

Although the weather has been warm, the Public Works Department has been thinking about our winter work. The Equipment Maintenance Division has been performing maintenance on all of the snowplowing and de-icing equipment. The sand and salt storage facility has received deliveries of materials and the Highway Division is mixing the sand and salt in preparation for any early November storms that may occur. The Highway Division continues to squeeze as many paving and drainage projects into this year as the weather allows.

Backus Avenue Bridge was completed and opened to traffic this month. The project was completed on time and within budget. The new bridge looks great and was very well received by the public.

As you will see from their reports, all divisions in Public Works are working on many projects. Overall, we all strive to serve the public and the concerns that the Office of the Mayor and individual City Council members bring to us while also performing our infrastructure maintenance and new construction.

All of our fall programs are in the works across all division of the Public Works Department.

Should you have any questions regarding this report or any of the separately submitted division reports please call me at 203-797-4537.

**Construction Services report submitted by Thomas H. Hughes III, Superintendent:**

**Backus Avenue Bridge over Miry Brook:** The project was bid in December with a spring construction start. We received approval from ConnDot to award the project to Hemlock Construction. The pre-construction meeting was held on March 24, 2010. The notice to proceed was issued on March 29, 2010 following the signing of the contract. Project was completed and opened to traffic on October 22, 2010. Semi Final inspection is scheduled for November 2, 2010.

**Kenosia Spray Park:** We met with the Public Utilities consultant, LGB, and forwarded information for the change of use permit required by the State Department of Health due to the proximity of the drinking water wells. LGB has answered all the State Department of Health's comments. The final Drinking Water Quality Management Plan for construction to the State Department of Health has been submitted.

**B.I. Access Project :** Earthmovers has some plantings that remain to take place before 10/28/10. The project is at substantial completion. The contractor is working on the punch list items. All items have been nearly completed. The final walk through is scheduled for October 28, 2010.

**White Street ARRA Project:** The contract was bid with A&J Construction as the low bidder. Engineering received the approval from the DOT to award the contract to A&J Construction on 5/12/2010. We held the pre-construction meeting on 5/24/2010. The contract was signed by the Mayor on 5/25/2010. The City issued the Notice to Proceed on 5/27/2010. The contractor completed the paving on 8/30/10 and is at substantial completion work. We have requested to do some additional work on White Street under the project's ARRA funding. ConnDot has agreed with our request to install an additional 1,000 L.F. of sidewalk throughout the project limits. We also have submitted some additional widening on the south side of White Street east of the Locust Avenue intersection.

**Lincoln Avenue :** The contractor continues to install drainage nearing 75% completion of this line item. The relocation of utilities has hampered the progress. Both Construction Services and the Engineering Division have been coordinating and pushing the utilities to complete their work. This will allow us to move forward without utility obstructions impeding our progress.

**Perry Field :** The one year retainage period has ended. JJA Sports, our consultant, and Construction Services have performed the final inspection of the field. We have accepted the field and released the final 2 % retainage. However, the field remains under our ten year warranty from Field Turf supplier of the artificial turf.

Should you have any questions regarding this report, please do not hesitate to call me at 203-797-8069.

**Engineering report submitted by Farid L. Khouri, P.E., City Engineer:**

**Assessment Projects:**

- Hayestown Heights/Rose Lane Storm Drainage: Design and cost estimate are complete. Mail survey sent out. Results of survey to be sent to City Council next month.
- Fairway Drive, Royal Pine Drive, Country Way and Hausmann Road Sanitary Sewer Assessment: In-house design and estimate are complete. Mail survey to be sent out next month.

- Shannon Ridge Road, Fairlawn Avenue, Edgewood Street and Westville Avenue Extension Sanitary Sewer and Water Main Extension for Fairlawn Avenue and Myrtle Avenue: In-house design and estimate are complete. Preparing for a mail survey.
- Ivy Lane, Cedar Street and Sylvan Drive Water Main Extension: Preliminary design completed. Cost estimate completed. Preparing for mail survey.
- Deepwood Drive Sanitary Sewer Extension: Preliminary design to be completed within the next couple of months.
- Juniper Ridge Drive Sanitary Sewer Extension: Preliminary design completed. Cost estimate completed. Mail survey to be sent out within the next couple of months.
- East Gate Road Sanitary Sewer Extension: Working on a preliminary design.
- Hawthorne Terrace Water: State approved well. Design work for Phase III to begin in next couple of months.
- Olive Street and Tilden Road Area Sanitary Sewer Extension: Another mail survey will be done next month to update on current cost of project and to inform new property owners of the new preliminary assessment cost.

**Traffic Division:** Semi-final engineering design of the Backus Avenue Traffic Light Synchronization Project; review of land-use development plans; handling of public complaints and routine repair and maintenance of traffic control signal devices and pavement markings.

**Staff Engineers:**

- Review various site plans, water and sewer applications, special exception applications, and subdivision applications for land-use approval of on-going development projects throughout the City.
- Field inspection of sanitary sewer, water mains and new roads are performed regularly on various developments.
- Reviews of long-standing drainage problems, including site visits, analysis and design.

**Survey crew:** Currently working on various survey requests, verification of R.O.W. on tree issues and locating storm drainage outfalls for the entire City using GPS equipment.

Should you have any questions regarding this report or any other issues related to your Engineering Division, please do not hesitate to contact me at (203) 797-4641.

**Highway Division report submitted by Duke Hart, Superintendent of Public Services:**

In the month of October, the Highway Division construction crews made repairs at twelve (12) locations and in addition to installing new drainage at two (2) locations; Aspen Way and Marldon Drive. The in-house paving crew paved the areas of improvements performed last month at Long Ridge Road, Hawthorne Cove, the one-way on Aunt Hack Road and Saw Mill Road. A section of Joe's Hill Road was also paved. All of these projects will result in an easier winter drive for the residents. A curb and apron crew and pot-hole crew were out daily performing repairs.

Five new (5) signs were installed at three (3) new locations and numerous repairs were also completed at other locations.

The garbage truck continues to make its daily rounds collecting debris and litter. The sweeper is also out on a daily basis helping to keep the gutters clear of fallen leaves.

The leaf collection started October 18<sup>th</sup> and will continue until November 26<sup>th</sup>.

Should you have any questions regarding this report, please feel free to contact me at 203-797-4605.

**Park Maintenance submitted by Duke Hart, Superintendent of Public Services:**

The Park Maintenance Division has been very busy during the month of October lining and mowing the playing fields for the fall programs. Maintenance of the fields will continue throughout the playing season. The crews also continue to maintain the school grounds and parks. Mowing and trimming will continue as needed. The flower beds and islands have been prepared for winter.

The Park Maintenance Division is pleased to assist the Forestry Division with tree and brush removal and the Highway Division with the Fall Leaf Bag Program.

Should you have any questions regarding this report, please feel free to contact me at 203-796-1558.

**Forestry Division report submitted by Mark Miller, Foreman Forestry Department:**

During the month of October the Forestry Division performed many diversified tasks. Trees were removed at Tarrywile Park for the parking lot project. The crew removed dead trees and pruned along Joe's Hill Road. The sight lines for traffic lights at Eagle Road, Seger Street and at Westville and Lake Avenue were cut and improved.

The Forestry Division performed take-downs at the following locations: Wintergreen Hill, Ohehyahtah Place, Forty Acre Mountain Road and Caisson Drive. The crew responded to tree calls at the following locations: Lancey Street, Joe's Hill Road, Rockwell Road, Franklin Street Extension and Hatters Park.

Should you have any question regarding this report, please feel free to contact me at 203-797-4609.

**Public Buildings report submitted by Rick Palanzo, Superintendent of Public Buildings:**

**EECBG Grant:** The EECBG projects that are related to heating and street lighting have begun. The contracts have been signed and the heating contractors have two of the three major projects at 95% complete. The decorative street lighting project will begin in November. Every City-owned street light in Danbury will be retrofit with an energy saving system. The city will save 60% of the energy used to power the decorative street lights with no loss of illumination. We are investigating the possibility of performing some of the smaller energy projects utilizing our in-house staff which will allow us to stretch the grant allocation and accomplish more work. The Department of Energy has approved the use of the grant funds to compensate the city for the labor. This minor change will allow our staff to complete more energy conservation work in the city buildings, without disrupting their normal work scheduling.

**City Hall:** The contractor that has been awarded the work to install an accessible lavatory for the third floor is preparing documents for his contract. Once the contract items have been completed the work can begin.

**Library:** The HVAC upgrade Phase II to replace the air handlers and the chiller at the Danbury Public Library is complete. There is fine tuning that will take place over the next several months but the Library and its environs are comfortable.

**Old Jail & Old Library Buildings:** Utilizing EECBG funds, the boilers at these buildings have been replaced with a state of the art gas fired condensing boiler. This boiler will achieve an operating efficiency of 95%. These boilers take up less space and are extremely quiet. They produce sufficient heat to satisfy the buildings need without the waste inherent in older boiler designs.

The Old Jail will also receive some TLC to its facade with repairs to deteriorating masonry and wooden accents. The Old Jail will retain its historical appearance and receive a new lease on life through the use of modern construction materials. This has been awarded and we are awaiting the documentation for contract completion.

**Environmental Protection Agency:** The SPCC plans for Fire HQ; Ellsworth Ave. School and the new Police HQ facility have been formulated by our consulting engineer at TRC. The plans have been reviewed by city departments and submitted to the EPA before our October deadline. We are awaiting confirmation of compliance by the EPA and these plans will add to our monthly work order/inspection system. The terms of these plans require a qualified technician to perform and document an on-site inspection of these systems monthly. Records of the inspections must be kept available should an EPA field agent visit Danbury and ask to see our records of compliance and implementation. This record keeping requirement for the EPA has added to the departmental workload; failure to perform the monthly inspections will result in fines against the City.

**Capital Improvement Projects:** The Capital Improvement projects at Hatters Park Pavilion and Hatters Park Bowling Alley have been awarded. The contractor is currently preparing documentation for their contract. The Pavilion will undergo structural and operational repairs which will enhance its viability and safety. The bowling alley will become handicapped accessible. Once the contract has been finalized the work will commence.

**West Side Open Space:** The newly acquired open space (formerly owned by Morefar- Back O' Beyond Inc.) has been added to the City Public Works responsibility. A five acre parcel on the border of New York State has several buildings that are now the responsibility of this division. Three of the buildings are domiciles and two of the three are rented to the employees or Morefar and under our arrangement Morefar will assist in caring for these domiciles and the immediately adjacent property for the next two years. The city has the "main" house available for occupancy. The long range use of this portion of the open space acquisition will be determined by a task force appointed by Mayor Boughton.

**Danbury Public Schools:** The Board of Education has a proposal before the city council to review and approve a solar PV system for Ellsworth Avenue and Park Avenue schools. I was asked to review the proposal and report back to the subcommittee. The report has been submitted. The structural engineer has opined that the roof structures will support the proposed arrays. The roofing manufacturer will continue the roof warranty as long as certain measures are taken before the solar array is installed.

The heating plant replacement project we tried to perform with Honeywell is being performed along a more traditional city tried -and-true method which will render an excellent outcome. The city has advertised for qualified mechanical design engineering firms to evaluate, plan, design and work with us to achieve a new state-of-the-art heating plant for Danbury High and Broadview Middle schools and several elementary schools. The City of Danbury review committee has been appointed by the Mayor and the design firm should be selected by the end of November. Our goal is to hire the engineering firm and have the design completed by February so we can bid and hire a contractor to begin work after school closes for the summer in June 2011.

**Requests for Maintenance and Repairs:** Attached please find the statistical analysis for repairs and maintenance work that the Public Buildings Mechanics engaged in during the month of October 2010. In

the month of October we received 213 new work requests and completed 158 work requests. In reviewing this report, you will find the repair time that was expended in major work categories, (current month versus previous month). Also listed is the total number of work order hours completed, (current month versus the previous month).

Our department was heavily engaged in plumbing repairs of the City's buildings and schools with a total of 228.00 man-hours dedicated to this service. The next largest area of concentration was in electrical repair work, utilizing 144.50 man-hours of labor. Mechanical work came in as the third highest category with 117.00 man-hours.

Should you have any questions regarding this report, please do not hesitate to contact me at 797-4584. I am happy to discuss any portion of this report with you.

**Public Utilities report submitted by David Day, Superintendent of Public Utilities:**

Enclosed is the monthly report to the Common Council for activities that took place in October 2010. Also attached is the Public Utilities Vehicle Maintenance Report.

As of November 12, 2010 there are 87 hydrants out of service. Repairs to hydrants are continuing. I will be happy to review the information with you.

Should you have any questions regarding this report, please do not hesitate to call me 203-797-4593.

See appendix "B" for attachments.

Sincerely,

*Antonio Iadarola, P.E.*

Antonio Iadarola, P.E.  
Director of Public Works

AI/dgs

ec: Jean Natale, Legislative Assistant  
David Day, P.E., Public Utilities Division  
Duke Hart, Public Services Division  
Tom Hughes, Construction Services Division  
Farid Khouri, P. E., City Engineer  
Mark Miller, Forestry Division  
Rick Palanzo, Public Buildings Division  
Mark Saumell, Equipment Maintenance Division

# APPENDIX “A” PUBLIC BUILDINGS

City of Danbury Monthly Report  
October 2010

|                          | Labor Total<br>Hours | Total Hours<br>This Month | Total Hours<br>Last Month | Difference | Percent<br>Change |
|--------------------------|----------------------|---------------------------|---------------------------|------------|-------------------|
| Electrical               |                      | 144.50                    | 186.00                    | -41.50     | -28.72            |
| City                     | 66.50                |                           |                           |            |                   |
| School                   | 78.00                |                           |                           |            |                   |
| Carpentry                |                      | 0.00                      | 76.00                     | -76.00     | 0.00              |
| City                     | 0.00                 |                           |                           |            |                   |
| School                   | 0.00                 |                           |                           |            |                   |
| HVAC                     |                      | 32.00                     | 8.00                      | 24.00      | 75.00             |
| City                     | 14.50                |                           |                           |            |                   |
| School                   | 17.50                |                           |                           |            |                   |
| Maintenance              |                      | 22.00                     | 59.00                     | -37.00     | -168.18           |
| City                     | 14.50                |                           |                           |            |                   |
| School                   | 7.50                 |                           |                           |            |                   |
| Mechanical               |                      | 117.00                    | 45.50                     | 71.50      | 61.11             |
| City                     | 104.50               |                           |                           |            |                   |
| School                   | 12.50                |                           |                           |            |                   |
| Plumbing                 |                      | 228.00                    | 278.00                    | -50.00     | -21.93            |
| City                     | 39.00                |                           |                           |            |                   |
| School                   | 189.00               |                           |                           |            |                   |
| New work orders received |                      | 213                       |                           |            |                   |
| Work requests completed  |                      | 158                       |                           |            |                   |

---

# M E M O R A N D U M

---

**DATE:** November 22, 2010  
**TO:** City of Danbury, Common Council  
**FROM:** *David M. Day, P.E.*, Superintendent – October 2010  
**RE:** Sanitary Sewer Collection System Maintenance

Complaints: 14

Number Received: 14

Number Completed: 14

Pipe Cleaned: 2,500

Gallons of Water Used: 4,000

Pipe Inspected:

---

COMMENTS:



**To:** David Day, P.E., Supt. of Public Utilities, City of Danbury

**From:** Walter Royals, Project Manager                      **Walter Royals**

**Subject:** WPCP Report For Month of:                      Oct '10

**Date:** 11/10/10

**I.                      Wastewater Treatment:**

|    |                             |     |                 |           |                       |
|----|-----------------------------|-----|-----------------|-----------|-----------------------|
| A) | Sewage Processed:           | 8.5 | MGD (Daily Avg) | 262.8     | Million Gallons Total |
| B) | Septic Waste Processed:     |     |                 | 1,156,025 | Gallons Total         |
| C) | Sludge Pumped To Digesters: |     |                 | 383,519   | Pounds Total          |

**II.                      Wastewater Quality    Influent                      Effluent                      % Removal                      Effluent Limit**

|    |                                |       |  |      |      |                 |
|----|--------------------------------|-------|--|------|------|-----------------|
| A) | BOD (mg/l)                     | 228   |  | 4    | 98   | 30 mg/l and 85% |
| B) | Total Suspended Solids (mg/l): | 220   |  | 3    | 98.9 | 30 mg/l and 85% |
| C) | Total Phosphorus (mg/l):       | 4.6   |  | 0.3  | 93   | 1.0 mg/l        |
| D) | Ammonia (mg/l):                | 29.5  |  | 0.18 | 99   | 1.9 mg/l        |
| E) | Total Nitrogen (lbs/Day):      | 3,521 |  | 402  | 89   | 502 lbs/day     |

Note: Phosphorus limits apply May - September.

Nitrogen limit for cre only.

**III.                      Pump Station Operation:**

|    |                 |       |           |
|----|-----------------|-------|-----------|
| A) | Beaver Brook:   | 746.5 | Hours Run |
| B) | Southfield:     | 44.8  | Hours Run |
| C) | Mill Plain:     | 649.6 | Hours Run |
| D) | Backus:         | 431.1 | Hours Run |
| E) | Tarrywile       | 50.9  | Hours Run |
| F) | Turner Road:    | 19.4  | Hours Run |
| G) | Ford Avenue:    | 24.6  | Hours Run |
| H) | Indian Glen:    | 83.5  | Hours Run |
| I) | Delay Street:   | 23.6  | Hours Run |
| J) | Hayestown Road: | 56.5  | Hours Run |
| K) | Kenosia Avenue: | 3.0   | Hours Run |
| L) | Larson Drive:   | 139.9 | Hours Run |
| M) | Landfill:       | 189.0 | Hours Run |
| N) | Thrope Street   | 11.7  | Hours Run |
| O) | Poets Landing   | 7.5   | Hours Run |
| P) | Rogers Park     | 16.0  | Hours Run |

Total Station Alarms:    0

TO : City Council - City of Danbury  
 FROM : David Day, Superintendent of Public Utilities  
 DATE : November 15, 2010

RE : WATER DEPARTMENT REPORT: OCTOBER 2010

\*\*\*\*\*

I. WATER PRODUCTION :

|   |              |            |
|---|--------------|------------|
| A) Margerie Water Treatment Facility :  | <u>95.7</u>  | <u>MG.</u> |
| B) West Lake Water Treatment Facility : | <u>104.7</u> | <u>MG.</u> |
| C) Kenosia Well Field :                 | <u>0</u>     | <u>MG.</u> |
| D) Osborne Street Well Field :          | <u>0</u>     | <u>MG.</u> |
| E) Other :                              | <u>0</u>     | <u>MG.</u> |

( MG. = Million Gallons )

II. RAINFALL :

|                                       |             |               |
|---------------------------------------|-------------|---------------|
| A) Month :                            | <u>2.4</u>  | <u>inches</u> |
| B) Past 12 Months (running total) :   | <u>55.1</u> | <u>inches</u> |
| C) Current Year (Jan.- Current Mo.) : | <u>40.9</u> | <u>inches</u> |

III. WATER STORAGE :

date: 10/4/10

|                              | <u>Current Reading</u> |   | <u>Historical Average</u> |   |
|------------------------------|------------------------|---|---------------------------|---|
| A) East Lake Reservoir :     | <u>67.0</u>            | % | <u>73.9</u>               | % |
| B) Margerie Lake Reservoir : | <u>75.6</u>            | % | <u>78.6</u>               | % |
| C) West Lake Reservoir :     | <u>73.2</u>            | % | <u>76.8</u>               | % |
| D) Total :                   | <u>73.4</u>            | % | <u>77.2</u>               | % |

IV. WATER PUMPED :

|  |             |            |
|--|-------------|------------|
| A) Park Avenue Pump Station :            | <u>0</u>    | <u>MG.</u> |
| B) Padanaram(High School) Pump Station : | <u>4.93</u> | <u>MG.</u> |
| C) Shelter Rock Pump Station :           | <u>2.34</u> | <u>MG.</u> |



## MAINTENANCE REPORT - BUILDING # 6

10/1/2010

|            |       |         |                      |
|------------|-------|---------|----------------------|
| 10/4/2010  | 354DA | POLICE  | TIRES WHEEL BEARINGS |
|            | 17DA  | POLICE  | POWER STEERING LEAK  |
|            | DET   | POLICE  | RUNS POOR            |
|            | 164DA | ENG     | TIRES SERVICE        |
| 10/5/2010  | 107DA | WATER   | MASTER CYL           |
|            | 63DA  | PUB BLD | SERVICE              |
|            | 17DA  | POLICE  | POWER STEERING LEAK  |
|            | 354DA | POLICE  | BATTERY TIRES        |
| 10/6/2010  | 63DA  | PUB BLD | BRAKES TIRES SERVICE |
|            | 17DA  | POLICE  | POWER STEERING LEAK  |
|            | 354DA | POLICE  | SERVICE              |
| 10/7/2010  | DET   | POLICE  | SERVICE              |
|            | 176DA | WATER   | NO START             |
|            | 17DA  | POLICE  | POWER STEERING LEAK  |
| 10/8/2010  | 17DA  | POLICE  | POWER STEERING LEAK  |
|            | 184DA | WATER   | COMPRESSIOR          |
|            | DET   | POLICE  | SERVICE              |
| 10/12/2010 | 240DA | POLICE  | FLAT SERVICE         |
|            | 186DA | POLICE  | INTAKE MANIFOLD      |
|            | MOWER | WATER   | STALLING             |
| 10/13/2010 | MOWER | WATER   | STALLING             |
|            | 186DA | POLICE  | INTAKE MANIFOLD      |
|            | 225DA | POLICE  | RUNS POOR            |
| 10/14/2010 | 113DA | POLICE  | SERVICE              |
|            | 186DA | POLICE  | INTAKE MANIFOLD      |
|            | 350DA | WATER   | BLOWER MOTOR         |
|            | 11DA  | POLICE  | WINDOW               |
| 10/15/2010 | 350DA | WATER   | FLOOR BOARD          |
|            | 240DA | POLICE  | SERVICE              |
|            | 186DA | POLICE  | INTAKE MANIFOLD      |
| 10/18/2010 | 6DA   | POLICE  | NO START             |
|            | 209DA | POLICE  | BRAKES SERVICE       |
|            | 3DA   | POLICE  | SERVICE              |
|            | 127DA | PERMIT  | BRAKE LINE           |
| 10/19/2010 | DET   | POLICE  | SERVICE BRAKES       |
|            | 10DA  | POLICE  | NO HEAT              |
|            | 127DA | PERMIT  | BRAKE LINE           |
|            | 114DA | WATER   | TRANNY LEAK          |
| 10/20/2010 | 184DA | WATER   | SERVICE TIRES        |
|            | 209DA | POLICE  | BRAKES MIRRIOR       |
|            | 10DA  | POLICE  | NO HEAT              |
| 10/21/2010 | 76DA  | ASESIOR | SERVICE BRAKES       |
|            | 10DA  | POLICE  | BLEND DOOR MOTOR     |
|            | 209DA | POLICE  | BRAKES MIRRIOR       |

|            |       |        |                    |
|------------|-------|--------|--------------------|
| 10/25/2010 | 157DA | POLICE | SERVICE            |
|            | 10DA  | POLICE | NO HEAT            |
|            | DET   | POLICE | OVERHEATING        |
|            | 141DA | PARKS  | SERVICE BRAKES     |
|            |       |        | STRUTS             |
|            |       |        | SERVICE BRAKES     |
| 10/26/2010 | 141DA | PARKS  | STRUTS             |
|            | DET   | POLICE | TRUNK LEAK SERVICE |
|            | 14DA  | POLICE | TRANNY             |
| 10/27/2010 | DET   | POLICE | ELECTRICAL         |
|            | 14DA  | POLICE | TRANNY             |
|            | 217DA | WM     | SHIFTER ELETRICAL  |
|            | 350DA | WATER  | ALTERNATOR         |
| 10/28/2010 | 14DA  | POLICE | TRANNY             |
|            | 225DA | POLICE | SERVICE            |
|            | 117DA | WM     | SHIFTER ELETRICAL  |
|            | 350DA | WATER  | ALTERNATOR         |