

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.

December 27, 2010

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

RE: Monthly report for November 2010

Dear Mayor Boughton and Members of the City Council:

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

The Public Works Department continues to prepare for any winter emergencies that may arise. The sand and salt storage facility has received deliveries of material. A department-wide special meeting was held for the managers responsible for snow emergency operations and plans were confirmed for standard operating procedures for snow removal activities. All of the equipment has been prepared and Public Works is ready for any winter events.

The Parks Maintenance Division will start performing maintenance and repairs to all of our summer maintenance equipment. The rest of the Parks Maintenance will perform repairs to the fences, bleachers, docks, lifeguard sheds and chairs, and pain all of the City's garbage cans in order to have them ready for the spring and summer seasons. All of this work will be accomplished in between snow plowing and shoveling the parking lots and sidewalks.

With the help of our purchasing agent, we have been successful in procuring several thousand yards of sand from the state garages in Danbury and New Milford at an incredible discounted rate saving thousand of taxpayer dollars. We are trying to find the most cost effective manner to move all of this material to our yard.

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. Project was completed and opened to traffic on October 22, 2010. Semi Final inspection was held on November 2, 2010. The project is now in the closeout phase with ConnDot.

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) The project is at substantial completion. There is one remaining punch list item a camera cable which has been ordered. We have extended the grant & project through the Department of Economic Development till 12/11. This will allow us to use the remaining grant monies to install additional sidewalk and lighting on the median as you enter Old Ridgebury Road from Mill Plain Road. This at no cost to the City of Danbury and is fully funded by the State of CT.

White Street ARRA Project: The contract was bid with A&J Construction as the low bidder. 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. This work will be done in the spring. This is fully funded at no cost to the City of Danbury.

Lincoln Avenue : The contractor continues to install drainage nearing 85% completion of this line item. The relocation of utilities and lack of cooperation from the utility companies has hampered the progress. Construction Services has been coordinating and pushing the utilities to complete their work. AT&T finally removed the poles in the new curb line on November 12, 2010. The drainage and paving of Lincoln Avenue have been completed.

Tarrywile Parking Lot: The parking lot has been completed, using our in house resources and City Bid Lists to reduce the cost.

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 sent to City Council to be placed on December's City Council agenda.

- 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.
- Karen Road Sanitary Sewer Extension: Started compiling information for project.
- Hawthorne Terrace Water: Design work for Phase III to begin in next couple of months.
- Olive Street and Tilden Road Area Sanitary Sewer Extension: Another mail survey sent out to update on current cost of project and to inform new property owners of the new preliminary assessment cost.

Stadley Rough School Roof: Architect prepared 80% of design plans and specifications and they are currently under review by various City officials. Project will be presented to State BSF in January 2011. Construction is anticipated in June 2011.

Traffic: 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.
- Review of 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:

The Highway Division has been very busy trying to finish several projects before the asphalt plants close for the season. The construction crew installed new drainage at Marldon Drive, Saddle Rock

Road, East Pembroke Road and Aspen Way. A repair was also made on Middle River Road. The in-house paving crew paved sections of Bragdon Avenue, Marlton Drive, Westminster Road, Saddle Rock Road and Forty Acre Mountain Road. As weather permitted, two crews installed curbing and aprons and did pothole repairs.

Thirteen new (13) signs were installed at six (6) new sites and numerous repairs were also completed at other locations.

The downtown 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 ended on November 26th and was once again very successful. We appreciate the help of the Park Maintenance Division with this task.

In preparation for winter, the construction crew has started installing the sanders and plows on the trucks.

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, in the month of November, was busy transitioning from the busy fall sports season to the winter season. The fields and municipal properties were cleaned and reseeded. All of the veteran's memorials were prepared for the Veterans Day ceremonies. The holiday lighting was also installed on the ornamental street lights downtown. The crews were pleased to assist the Highway Division with the leaf bag pick-up program.

Winter maintenance of the mowing equipment commenced at the end of the month.

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 November the Forestry Division performed many diversified tasks. The crew installed the holiday lighting at the library and the large wreath was placed on the city hall building. Trees were removed and pruned for a drainage project on Morgan Road. Shrubs were removed and trimmed to improve a sight line issue at the train station and at Shelter Rock School.

The Forestry Division performed take-downs and pruning at the following locations: Joe's Hill Road, Pearl Street, White Street, Stadley Rough Road, Robin Hood Road, Morris Street, Madison Avenue, West King Street and East Gate Road.

The crew responded to tree calls at the following locations: Spruce Mountain Road, King Street, Carriage House Road, West King Street, Hawley Road, Harwood Drive and Middle River Road.

Should you have any questions 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 have been completed. The contractors have only "punch work" remaining. The decorative street lighting project began and will

be completed by the end of this calendar year. 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 planning to perform 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.

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 submitted to the EPA for review/comment. We are awaiting confirmation of compliance by the EPA and these plans will add to our monthly work load. 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 project at Hatters Park Pavilion has been awarded and the contract has been signed. The contractor is currently preparing to execute their work specified in their contract. The Pavilion will undergo structural and operational repairs which will enhance its viability and safety.

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 received many proposals from qualified mechanical design engineering firms to evaluate, plan, design and work with us on the boiler replacement project. The City of Danbury review committee appointed by the Mayor has met and made its recommendation to Mayor Boughton. 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 November 2010. In the month of November we received 233 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 222.00 man-hours dedicated to this service. The next largest area of concentration was in electrical repair work, utilizing 152.00 man-hours of labor. Mechanical work came in as the third highest category with 52.00 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 November 2010. Also attached is the Public Utilities Vehicle Maintenance Report.

As of December 10, 2010 there are 82 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

cc: Jean Natale, Legislative Assistant
Mark Saumell, Equipment Maintenance Division
David Day, P.E., Public Utilities Division
Farid Khouri, P. E., City Engineer

Rick Palanzo, Public Buildings Division
Mark Miller, Forestry Division
Tom Hughes, Construction Services
Farid Khouri, P.E. City Engineer

APPENDIX "A"

PUBLIC BUILDINGS

City of Danbury
Monthly Report for November 2010

	Labor Hours	Total Hours This Month	Total Hours Last Month	Difference	Percent Change
Carpentry		2.00	0.00	2.00	100.00
City Bldgs	2.00				
Schools	0.00				
Electrical		152.00	199.50	-47.50	-31.25
City Bldgs	75.50				
Schools	76.50				
HVAC		29.50	32.00	-2.50	-8.47
City Bldgs	0.00				
Schools	29.50				
Maintenance		38.00	33.00	5.00	13.16
City Bldgs	33.00				
Schools	5.00				
Mechanical		52.00	124.50	-72.50	-139.42
City Bldgs	52.00				
Schools	0.00				
Plowing		0.00	0.00	0.00	0.00
City Bldgs	0.00				
Schools	0.00				
Plumbing		222.00	245.00	-23.00	-10.36
City Bldgs	32.50				
Schools	189.50				
Roofing		2.00	0.00	2.00	100.00
City Bldgs	0.00				
Schools	2.00				

New Work Requests received this month 233
Work Requests Completed this month 158



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: Nov '10

Date: 12/8/10

I. Wastewater Treatment:

A) Sewage Processed:	8.1 MGD (Daily Avg)	243.3 Million Gallons Total
B) Septic Waste Processed:		1,126,850 Gallons Total
C) Sludge Pumped To Digesters:		384,796 Pounds Total

II. Wastewater Quality

	Influent	Effluent	% Removal	Effluent Lim
A) BOD (mg/l)	246	8	97	30 mg/l and 85%
B) Total Suspended Solids (mg/l):	277	6	97.9	30 mg/l and 85%
C) Total Phosphorus (mg/l):	5.5	0.8	86	1.0 mg/l
D) Ammonia (mg/l):	29.5	0.19	99	4.0 mg/l
E) Total Nitrogen (lbs/Day):	3,301	562	83	502 lbs/day

Note: Phosphorus limits apply May - September.

Nitrogen limit for credit only.

III. Pump Station Operation:

A) Beaver Brook:	718.7	Hours Run
B) Southfield:	37.5	Hours Run
C) Mill Plain:	522.0	Hours Run
D) Backus:	434.1	Hours Run
E) Tarrywile	36.7	Hours Run
F) Turner Road:	26.9	Hours Run
G) Ford Avenue:	22.8	Hours Run
H) Indian Glen:	80.8	Hours Run
I) Delay Street:	22.2	Hours Run
J) Hayestown Road:	55.0	Hours Run
K) Kenosia Avenue:	2.6	Hours Run
L) Larson Drive:	98.6	Hours Run
M) Landfill:	189.8	Hours Run
N) Thrope Street	11.5	Hours Run
O) Poets Landing	8.4	Hours Run
P) Rogers Park	12.8	Hours Run

Total Station Alarms: 4

MEMORANDUM

DATE: December 6, 2010
TO: City of Danbury, Common Council
FROM: *David M. Day, P.E.*, Superintendent – November 2010
RE: Sanitary Sewer Collection System Maintenance

Complaints: 8

Number Received: 8

Number Completed: 8

Pipe Cleaned: 3,200

Gallons of Water Used: 9,000

Pipe Inspected:

COMMENTS:

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

RE : WATER DEPARTMENT REPORT: NOVEMBER 2010

I. WATER PRODUCTION :

A) Margerie Water Treatment Facility :	<u>90.3</u>	<u>MG.</u>
B) West Lake Water Treatment Facility :	<u>93.7</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>2.8</u>	<u>inches</u>
B) Past 12 Months (running total) :	<u>55.7</u>	<u>inches</u>
C) Current Year (Jan.- Current Mo.) :	<u>43.7</u>	<u>inches</u>

III. WATER STORAGE :

date: 11/1/10

	<u>Current Reading</u>		<u>Historical Average</u>	
A) East Lake Reservoir :	<u>70.4</u>	%	<u>75.6</u>	%
B) Margerie Lake Reservoir :	<u>70.7</u>	%	<u>78.0</u>	%
C) West Lake Reservoir :	<u>73.9</u>	%	<u>76.5</u>	%
D) Total :	<u>72.1</u>	%	<u>77.0</u>	%

IV. WATER PUMPED :

A) Park Avenue Pump Station :	<u>0</u>	<u>MG.</u>
B) Padanaram(High School) Pump Station :	<u>4.69</u>	<u>MG.</u>
C) Shelter Rock Pump Station :	<u>2.34</u>	<u>MG.</u>

D) WestConn Pump Station :	1.81	MG.
E) Margerie Pump Station :	2.43	MG.
F) Pleasant Acres:	1.42	MG.
G) Nabby Road:	1.27	MG.
H) Harvest Hill:	2.76	MG.
I) West Lake High Service :	41.8	MG.
J) Total Water Pumped (A-I) :	58.5	MG.
	(MG. = Million Gallons)	

V. WATER TRANSFERRED :

A) East Lake to Margerie Reservoir :	0.0	MG.
B) Padanaram to Margerie Reservoir :	5.9	MG.
C) Kohanza to West Lake Reservoir :	10.8	MG.
D) Kenosia Diversion to West Lake Reservoir :	94.5	MG.
E) Kenosia Wells to West Lake Reservoir :	0.0	MG.
F) Total Water Transferred (A-E):	111.2	MG.
	(MG. = Million Gallons)	

VI. ALGAE CONTROL :

- A) NONE
- B)
- C)
- D)

VII. SURVEY OF WATER SOURCES :

- A) Daily testing of treated and untreated water by water quality laboratory.
- B)

VIII. SUPERINTENDENTS NOTES :

MAINTENANCE REPORT - BUILDING # 6

11/1/2010

11/2/2010	14DA	POLICE	TRANNY
	126DA	WATER	BRAKES SERVICE
11/3/2010	126DA	WATER	ENGINE LIGHT BRAKES
	14DA	POLICE	TRANNY
	222DA	POLICE	SERVICE
11/5/2010	159DA	WATER	NO HEAT SERVICE
	10DA	POLICE	REAR BUMPER
	113DA	POLICE	NO START
	126DA	WATER	ENGINE LIGHT
11/8/2010	257DA	POLICE	NO START
	DET	POLICE	NOISE
	10DA	POLICE	BUMPER
	159DA	WATER	NO HEAT
	126DA	WATER	NO HEAT
	217DA	WM	FUSE BOX
11/9/2010	164DA	ENG	ANTIFREEZE LEAK
		37981 SENIOR	ALTERNATOR SERVICE
	126DA	WATER	ACTUATOR
	DET	POLICE	TRANNY SERVICE AC
	14DA	POLICE	COMPRESSOR
11/10/2010		37981 SENIOR	TRANNY
			ALTERNATOR SERVICE
			TRANNY SERVICE AC
	DET	POLICE	COMPRESSOR
	14DA	POLICE	TRANNY
	217DA	WM	NO HORN
			TRANNY SERVICE AC
11/12/2010	DET	POLICE	COMPRESSOR
	14DA	POLICE	TRANNY
	164DA	ENG	ANTIFREEZE LEAK ENGINE LIGHT
11/16/2010	217DA	WM	HORN
	DET	POLICE	FUEL PUMP
	354DA	POLICE	INTAKE
11/17/2010	217DA	WM	HORN
	DET	POLICE	SPEED SENSOR
	354DA	POLICE	ANTIFREEZE LEAK
11/18/2010	191DA	POOL	SERVICE ENGINE LIGHT
	334DA	POLICE	SERVICE
	DET	POLICE	SPEED SENSOR
11/19/2010	91DA	ENG	SERVICE
	184DA	WATER	MOUNT COMPRESSOR
	DET	POLICE	SPEED SENSOR

11/22/2010	350DA	WATER	BRAKE LIGHTS
	334DA	POLICE	SERVICE
	BLOWER	WATER	COIL
11/23/2010	95DA	WATER	TIRES SERVICE
	17DA	POLICE	SERVICE STARTER
	DET	POLICE	TRANNY
11/24/2010	DET	POLICE	TRANNY
	184DA	WATER	INSTALL COMPRESSOR
	18DA	POLICE	SERVICE
1/29/2010	272DA	WATER	TIRES
	18DA	POLICE	OVERHEATING
	132DA	WATER	TUNE UP
	246DA	POLICE	NO HEAT
11/30/2010	159DA	WATER	NO HEAT
	246DA	POLICE	SERVICE
	18DA	POLICE	OVERHEATING
	225DA	POLICE	SERVICE
	117DA	WM	SHIFTER ELETRICAL
	350DA	WATER	ALTERNATOR