

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.

January 24, 2011

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

RE: Monthly report for December 2010

Dear Mayor Boughton and Members of the City Council:

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

We were given a swift reminder about New England weather right after Christmas when a blizzard delivering 24 inches of snow. At times we had snow fall rates of 3 inches per hour. This was a record storm and the Public Works Department performed way beyond expectations. A few days after the storm downtown area was cleared of all snow. The Public Works Department was pleased to prepare the downtown area for the First Night, 5K Race and festivities. There was impact to Danburians, their friends and family in enjoying the lively New Years Eve festivities. I appreciate the hard work of crews and their ability to work together to make the clean-up for this event run smoothly.

We finished the last bit of paving on Crosby Street, Swanson Avenue and South King Street with the snow chasing our tail.

I want to thank all of the families of our men and women at Public Works for allowing their loved ones to battle the "Mother of All Storms".

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 is complete. 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. The change order for the additional work has been approved and executed. The additional work is 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 completed the drainage. The relocation of utilities and lack of cooperation from the utility companies severely impacted the project's progress. The paving of Lincoln Avenue has been completed. There are several driveways ramps and additional under-drain added to the contract remaining. The contractor will complete these remaining items as weather conditions permit.

Tarrywile Parking Lot: The parking lot has been completed, using our in-house resources and City Bid Lists to reduce the cost. Punch list remains and will be completed as weather conditions permit.

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: City Council denied project at December Council meeting.
- Olive Street and Tilden Road Area Sanitary Sewer Extension: Responses for mail survey due back next month.

- Fairway Drive, Royal Pine Drive, Country Way and Hausmann Road Sanitary Sewer Assessment: In-house design and estimate are complete. Mail survey will 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. Mail survey will be sent out in February 2011.
- 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: Started preliminary design and will 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.

Stadley Rough School Roof: Architect prepared 100% 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 to start in June 2011 and be completed before the start of school in August 2011.

Traffic: 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: Verification of R.O.W. on tree issues and locating storm drainage outfalls for the entire City using GPS equipment. Preparing surveys for in-house design of City projects.

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 was able to perform some in-house milling and paving on Swanson Avenue, portions of Crosby Street and S. King Street in the first few weeks of December. Crews were out filling pot holes daily. The leaf program ended and the assistance of the Park Maintenance Division was appreciated. The leaf machine and crew were also deployed.

There were two (2) winter storm events this month, one of which was a near blizzard storm. There was 24 inches of snow which needed to be plowed and then removed from the downtown area to prepare for City Center for the “First Night and First Night 5K. The crews did an excellent job to have the area cleared and sanded for the events.

The downtown garbage truck continues to make its daily rounds collecting debris and litter. The recycle truck continues to be a popular stop for many of the residents.

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 shifted into winter storm mode during the month of December. The crews maintained the City’s walkways, parking lots, crosswalks, bridges and other areas during and after the two (2) storms that moved into the area. The downtown areas were prepared and ready for the First Night and First Night 5K Race from the near blizzard just a few days before the event.

The crew also continued with the maintenance of the mowing equipment.

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 December the Forestry Division performed several weather related tasks. The crew did plowing and sanding in response to the storm that moved into the area over Christmas weekend and to prepare for the First Night Celebration.

The crew responded to tree calls at the following location, some of which were storm related: West Wooster Street, Cedar Street, Middle River Road, East Starrs Plain Road, Shelter Rock Road, Spruce Mountain Trail, Joe’s Hill Road, Franklin Street Extension, Kohanza Street, Olympic Drive, Delno Drive, Palmer Road, Brushy Hill Road, Whitlock Street, Aunt Hack Road, Town Hill Avenue and Valley Drive. The Division also completed a tree removal and pruning project on Padanaram 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 decorative street lighting project began last month and will be completed by the end January, 2011. 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. More projects will be bid in January and commence in February 2011.

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 Buildings: The Old Jail will 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 better weather for the project to begin. In January – February we will perform a few minor changes to the old jail to accommodate the WIC program. Once they have moved in to the old jail we will decommission the McLean house.

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. Training on the EPA required procedures will take place in January.

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. Inclement weather will delay the start of this project.

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 engineer for this project has been vetted from over thirty interested engineering firms and the design has been awarded. Our goal is 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.

Snow Removal: The staff worked in cooperation with the entire Public Works Department in clearing snow. Our responsibility is plowing snow from the public school parking lots and driveways. The blizzard and storms after Christmas really put everyone to task but the cooperation between divisions was excellent and the walks and drives were clean, sanded and ready for the students.

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 December 2010. In the month of December we received 200 new work requests and completed 226 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 205.50 man-hours dedicated to this service. The next largest area of concentration was in plowing work, utilizing 128.25 man-hours of labor. Electrical 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 December 2010. Also attached is the Public Utilities Vehicle Maintenance Report.

As of January 10, 2011 there are 79 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
Rick Palanzo, Public Buildings Division
Mark Saumell, Equipment Maintenance Division
Mark Miller, Forestry Division
David Day, P.E., Public Utilities Division
Tom Hughes, Construction Services
Farid Khouri, P. E., City Engineer

APPENDIX "A"

PUBLIC BUILDINGS

City of Danbury
Monthly Report December 2010

	Labor Hours	Total Hours This Month	Total Hours Last Month	Difference	Percent Change
Carpentry		34.00	3.00	31.00	91.18
City Bldgs	34.00				
Schools	0.00				
Electrical		117.00	158.00	-41.00	-35.04
City Bldgs	29.50				
Schools	87.50				
HVAC		35.50	31.50	4.00	11.27
City Bldgs	4.50				
Schools	31.00				
Locksmith		4.50	1.00	3.50	77.78
City Bldgs	4.50				
Schools	0.00				
Maintenance		42.00	40.00	2.00	4.76
City Bldgs	37.50				
Schools	4.50				
Mechanical		71.00	52.00	19.00	26.76
City Bldgs	62.00				
Schools	9.00				
Plowing		128.25	0.00	0.00	0.00
City Bldgs	0.00				
Schools	128.25				
Plumbing		272.50	248.50	24.00	8.81
City Bldgs	67.00				
Schools	205.50				
Roofing		6.00	2.00	4.00	66.67
City Bldgs	0.00				
Schools	6.00				

New Work Requests received this month 200
Work Requests Completed this month 226



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: Dec '10

Date: 1/10/11

I. Wastewater Treatment:

A) Sewage Processed:	9.4 MGD (Daily Avg)	292.4	Million Gallons Total
B) Septic Waste Processed:		743,500	Gallons Total
C) Sludge Pumped To Digesters:		263,325	Pounds Total

II. Wastewater Quality

	Influent	Effluent	% Removal	Effluent Limit
A) BOD (mg/l)	254	15	94	30 mg/l and 85%
B) Total Suspended Solids (mg/l):	239	10	95.9	30 mg/l and 85%
C) Total Phosphorus (mg/l):		1.7		1.0 mg/l
D) Ammonia (mg/l):	22.4	1.45	94	4.0 mg/l
E) Total Nitrogen (lbs/Day):	3,370	643	81	502 lbs/day

Note: Phosphorus limits apply May - September.

Nitrogen limit for credit only.

III. Pump Station Operation:

A) Beaver Brook:	727.5	Hours Run
B) Southfield:	35.6	Hours Run
C) Mill Plain:	745.7	Hours Run
D) Backus:	309.2	Hours Run
E) Tarrywile	66.7	Hours Run
F) Turner Road:	42.7	Hours Run
G) Ford Avenue:	24.5	Hours Run
H) Indian Glen:	101.9	Hours Run
I) Delay Street:	20.8	Hours Run
J) Hayestown Road:	52.6	Hours Run
K) Kenosia Avenue:	2.5	Hours Run
L) Larson Drive:	44.2	Hours Run
M) Landfill:	196.8	Hours Run
N) Thrope Street	13.8	Hours Run
O) Poets Landing	8.7	Hours Run
P) Rogers Park	15.0	Hours Run

Total Station Alarms: 6

MEMORANDUM

DATE: January 10, 2011
TO: City of Danbury, Common Council
FROM: *David M. Day, P.E.*, Superintendent – December 2010
RE: Sanitary Sewer Collection System Maintenance

Complaints: 17 _____

Number Received: 17 _____

Number Completed: 17 _____

Pipe Cleaned: 2,000 _____

Gallons of Water Used: 13,000 _____

Pipe Inspected:

COMMENTS:

TO : City Council - City of Danbury

FROM : David Day, Superintendent of Public Utilities

DATE : January 14, 2010

RE : WATER DEPARTMENT REPORT: DECEMBER 2010

I. WATER PRODUCTION :

A) Margerie Water Treatment Facility :	<u>88.1</u>	MG.
B) West Lake Water Treatment Facility :	<u>96.7</u>	MG.
C) Kenosia Well Field :	<u>0</u>	MG.
D) Osborne Street Well Field :	<u>0</u>	MG.
E) Other :	<u>0</u>	MG.

(MG. = Million Gallons)

II. RAINFALL :

A) Month :	<u>5.0</u>	inches
B) Past 12 Months (running total) :	<u>49.4</u>	inches
C) Current Year (Jan.- Current Mo.) :	<u>49.4</u>	inches

III. WATER STORAGE :

date: 12/6/10

	<u>Current Reading</u>		<u>Historical Average</u>	
A) East Lake Reservoir :	<u>84.9</u>	%	<u>81.2</u>	%
B) Margerie Lake Reservoir :	<u>74.4</u>	%	<u>81.6</u>	%
C) West Lake Reservoir :	<u>85.9</u>	%	<u>80.6</u>	%
D) Total :	<u>81.0</u>	%	<u>81.1</u>	%

IV. WATER PUMPED :

A) Park Avenue Pump Station :	<u>0</u>	MG.
B) Padanaram(High School) Pump Station :	<u>4.93</u>	MG.

**MAINTENANCE REPORT - BUILDING # 6
12/1/2010**

12/1/2010	261DA	POLICE	LIGHTS
	6DA	POLICE	MIRRIOR SERVICE
	BOBCAT	WATER	SERVICE
12/2/2010	261DA	POLICE	LIGHTS SERVICE
	6DA	POLICE	MIRRIOR SERVICE
	BOBCAT	WATER	TIRES
	132DA	WATER	EXHAUST MANIFOLD
12/3/2010	DET	POLICE	SERVICE
	DET	POLICE	SERVICE EXHAUST
	225DA	POLICE	SERVICE
	132DA	WATER	EXHAUST MANIFOLD
12/6/2010	128DA	K9	SERVICE TIRES BRAKES
	225DA	POLICE	SERVICE ELECTRICAL
	DET	POLICE	SERVICE
12/7/2010	DET	POLICE	SERVICE BRAKES
	114DA	MAINT	VALVE COVER GASKET SERVICE TUNE UP
	225DA	POLICE	SERVICE ELECTRICAL
12/8/2010	DET	POLICE	TIRES SERVICE
	240DA	POLICE	TIRES BATTERY SERVICE
	132DA	WATER	EXHAUST MANIFOLD
12/9/2010	2DA	POLICE	NO HEAT SERVICE
	3DA	POLICE	STUCK IN PARK
	227DA	WATER	BRAKES SERVICE
12/13/2010	157DA	WATER	NO HEAT
	4DA	POLICE	SERVICE
	353DA	POLICE	SERVICE
12/14/2010	27DA	ENG	SERVICE BRAKES
	265DA	POLICE	BRAKES SERVICE
12/15/2010	27DA	ENG	SERVICE BRAKES
	181DA	POLICE	SERVICE NO START
	184DA	WATER	BALL JOINTS AXEL JOINTS
12/16/2010	DET	POLICE	OVERHEATING
	217DA	WM	NO BRAKE LIGHTS
	184DA	WATER	BALL JOINTS AXEL JOINTS
12/17/2010	184DA	WATER	BALL JOINTS AXEL JOINTS
	217DA	WM	NO BRAKE LIGHTS
	DET	POLICE	OVERHEATING
12/21/2010	DET	POLICE	DOOR HANDLE
	141DA	PARKS	ENGINE LIGHT NO HEAT
	2DA	POLICE	SERVICE