

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.

February 22, 2011

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

RE: Monthly report for January 2011

Dear Mayor Boughton and Members of the City Council:

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

January proved to be a very challenging month for the Public Works Department. There were six (6) weather related events which put us to the test. With record setting snow falls, the crews worked very hard to provide the safest conditions possible for the traveling public. According to all reports, January broke the record for the most snowfall in one month since records have been kept. In addition, some of the coldest weather that we have had in years came in January. Record snowfall and accumulations also put our roofs to the test. A mandatory inspection program for each school was initiated. Several roofs were found to be reaching capacity for loading.

This month put my team to the extreme test. I cannot thank all of the divisions of the Public Works Department enough for pulling together and also taking care of each other as each division was put to the test in one way or another. I am also especially thankful to the Public Utilities Division for helping with snow removal and making themselves available while still getting their regular work done.

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:

In the month of January the Highway Division responded to six (6) weather related storms. The crews plowed, sanded and removed record breaking inches of snow and ice! When we weren't battling Mother Nature, they were busy repairing the plows and removing snow from City roads with site-line

issues and cul-de-sacs with excess piles of snow. We are hoping that February is a kinder, gentler month.

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:

January started off a very busy year for the Parks Maintenance Division. With six (6) weather events during the month, the crews were hard at work clearing snow from the City maintained sidewalks and downtown crosswalks. The assistance of the Forestry Division was very much appreciated with the plowing of all of the schools and City parking lots.

Winter maintenance on the mowing equipment continued as time allowed.

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:

The Forestry Division performed a massive amount of snow related activities during the month of January. The crew did snow plowing and sanding on roadways along with snow removal at many public buildings, parking lots and on Main St.

Due to the record amount of snow, a limited amount of tree work was performed. The crew responded to some minor fallen tree limb calls. In spite of the high winds, there was very little damage proving that the tree removal program is a success.

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 has also been completed. We have bid two new energy projects and will receive the Bids next month. 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 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. When we receive state funds 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.

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 heating plant replacement project has been awarded to AKF engineers. They are beginning to evaluate the schools and will propose new, modern, efficient, boilers and burners that will heat our schools reliably. Our goal is have the design completed by early March 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. This is the coldest, snowiest winter I can remember. It is taxing our heating systems and buildings. The amount of snow on the roof is cause for concern. The building official has inspected all our buildings and wants the drifts and excessive amounts of snow removed from our roofs. This is a daunting task and will require special resources to manage this task correctly.

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 January 2011. In the month of December we received 210 new work requests and completed 123 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 snow plowing of school parking lots and snow removal from school roofs with a total of 477.0 man-hours dedicated to this service. The next largest area of concentration was in plumbing work, utilizing 82.00 man-hours of labor. Electrical work came in as the third highest category with 61.00 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 January 2011. Also attached is the Public Utilities Vehicle Maintenance Report.

As of February 16, 2011 there are 76 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

APPENDIX "A"

PUBLIC BUILDINGS

City of Danbury
Danbury Monthly Report for January 2011

	Labor Hours	Total Hours This Month	Total Hours Last Month	Difference	Percent Change
Carpentry		3.00	35.50	-32.50	-1083.33
City Bldgs	3.00				
Schools	0.00				
Electrical		61.00	126.00	-65.00	-106.56
City Bldgs	36.00				
Schools	25.00				
HVAC		33.50	36.50	-3.00	-8.96
City Bldgs	24.50				
Schools	9.00				
Locksmith		3.00	4.50	-1.50	-50.00
City Bldgs	3.00				
Schools	0.00				
Maintenance		32.50	43.00	-10.50	-32.31
City Bldgs	22.50				
Schools	10.00				
Mechanical		13.50	71.00	-57.50	-425.93
City Bldgs	11.00				
Schools	2.50				
Plowing		477.000	0.00	100.00	100.00
City Bldgs	0.00				
Schools	477.00				
Plumbing		82.00	277.00	-195.00	-237.80
City Bldgs	5.50				
Schools	76.50				
Roofing		14.00	8.00	6.00	42.86
City Bldgs	7.50				
Schools	6.50				

New Work Requests received this month	210
Work Requests Completed this month	123



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: Jan '11

Date: 2/9/11

I. Wastewater Treatment:

A) Sewage Processed:	8.1 MGD (Daily Avg)	249.6	Million Gallons Total
B) Septic Waste Processed:		294,400	Gallons Total
C) Sludge Pumped To Digesters:		306,202	Pounds Total

II. Wastewater Quality	Influent	Effluent	% Removal	Effluent Limit
A) BOD (mg/l)	257	15	94	30 mg/l and 85%
B) Total Suspended Solids (mg/l):	245	7	97.0	30 mg/l and 85%
C) Total Phosphorus (mg/l):	3.4	2.1	38	1.0 mg/l
D) Ammonia (mg/l):	28.0	1.12	96	1.9 mg/l
E) Total Nitrogen (lbs/Day):	2,793	626	78	502 lbs/day

Note: Phosphorus limits apply May - September.

Nitrogen limit for credit only.

III. Pump Station Operation:

A) Beaver Brook:	731.1	Hours Run
B) Southfield:	32.1	Hours Run
C) Mill Plain:	760.7	Hours Run
D) Backus:	292.8	Hours Run
E) Tarrywile	85.2	Hours Run
F) Turner Road:	54.8	Hours Run
G) Ford Avenue:	23.5	Hours Run
H) Indian Glen:	80.8	Hours Run
I) Delay Street:	52.3	Hours Run
J) Hayestown Road:	50.8	Hours Run
K) Kenosia Avenue:	1.9	Hours Run
L) Larson Drive:	47.2	Hours Run
M) Landfill:	196.8	Hours Run
N) Thrope Street	10.9	Hours Run
O) Poets Landing	9	Hours Run
P) Rogers Park	12.7	Hours Run

Total Station Alarms: 2

M E M O R A N D U M

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

Complaints: 15

Number Received: 15

Number Completed: 15

Pipe Cleaned: 1,400 FT

Gallons of Water Used: 11,000

Pipe Inspected:

COMMENTS:

TO : City Council - City of Danbury
 FROM : David Day, Superintendent of Public Utilities
 DATE : February 17, 2011

RE : WATER DEPARTMENT REPORT: JANUARY 2011

I. WATER PRODUCTION :

A) Margerie Water Treatment Facility :	<u>88.4</u>	MG.
B) West Lake Water Treatment Facility :	<u>95.2</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>3.4</u>	inches
B) Past 12 Months (running total) :	<u>50.0</u>	inches
C) Current Year (Jan.- Current Mo.) :	<u>3.4</u>	inches

III. WATER STORAGE :

date: 1/3/2011

	<u>Current Reading</u>		<u>Historical Average</u>	
A) East Lake Reservoir :	<u>79.3</u>	%	<u>84.5</u>	%
B) Margerie Lake Reservoir :	<u>85.4</u>	%	<u>86.6</u>	%
C) West Lake Reservoir :	<u>95.2</u>	%	<u>85.8</u>	%
D) Total :	<u>89.0</u>	%	<u>85.9</u>	%

IV. WATER PUMPED :

A) Park Avenue Pump Station :	<u>0</u>	MG.
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B) Padanaram(High School) Pump Station :	<u>4.70</u>	<u>MG.</u>
C) Shelter Rock Pump Station :	<u>2.71</u>	<u>MG.</u>
D) WestConn Pump Station :	<u>0.93</u>	<u>MG.</u>
E) Margerie Pump Station :	<u>1.00</u>	<u>MG.***</u>
F) Pleasant Acres:	<u>1.42</u>	<u>MG.</u>
G) Nabby Road:	<u>1.53</u>	<u>MG.</u>
H) Harvest Hill:	<u>2.72</u>	<u>MG.</u>
I) West Lake High Service :	<u>39.8</u>	<u>MG.</u>
J) Total Water Pumped (A-I) :	<u>54.8</u>	<u>MG.</u>
	(MG. = Million Gallons)	
	*** =	
	estimate	

V. WATER TRANSFERRED :

A) East Lake to Margerie Reservoir :	<u>0</u>	<u>MG.</u>
B) Padanaram to Margerie Reservoir :	<u>0</u>	<u>MG.</u>
C) Kohanza to West Lake Reservoir :	<u>0</u>	<u>MG.</u>
D) Kenosia Diversion to West Lake Reservoir :	<u>0</u>	<u>MG.</u>
E) Kenosia Wells to West Lake Reservoir :	<u>0</u>	<u>MG.</u>
F) Total Water Transferred (A-E):	<u>0</u>	<u>MG.</u>
	(MG. = Million Gallons)	

VI. ALGAE CONTROL :

A) None	<u></u>
B)	<u></u>
C)	<u></u>

VII. SURVEY OF WATER SOURCES :

A) Daily testing of treated and untreated water by water quality laboratory.	<u></u>
	<u></u>

MAINTENANCE REPORT - BUILDING # 6
1/1/2011

1/6/2011	157DA	POLICE	SERVICE
	5DA	POLICE	RADIATOR
	238DA	WATER	WIRE SANDER
1/7/2011	39DA	POLICE	NO BRAKE LIGHTS
	166DA	WATER	REAR TIRES SERVICE
1/10/2011	226DA	WATER	BRAKE CYL SERVICE WHEEL BEARING
	5DA	POLICE	RADIATOR
	DET	POLICE	TIRE SERVICE
1/11/2011	DET	POLICE	HUB BEARING BRAKES
	18DA	POLICE	SERVICE
			NO START STUCK IN PARK
			NO HEAT SERVICE
	224DA	AIDS	HEADLIGHT
			NO HEAT SERVICE
1/12/2011	224DA	AIDS	HEADLIGHT
			HUB BEARING BRAKES
	DET	POLICE	SERVICE
1/13/2011	224DA	AIDS	WIPER MOTOR
	141DA	PARKS	TIRES
	226DA	WATER	PLOW BLADE
1/14/2011	280DA	WATER	BRAKES TIRES SERVICE
			HUB BEARING BRAKES
	DET	POLICE	SERVICE
1/17/2011	280DA	WATER	BRAKES TIRES SERVICE
	DET	POLICE	TIRES
	354DA	POLICE	ALTERNATOR
	257DA	POLICE	FLAT R/C
1/20/2011	17DA	POLICE	NO SHIFT FROM PARK
	238DA	WATER	BRAKES TIRES SERVICE
	DET	POLICE	NO START
	19DA	POLICE	SERVICE
1/21/2011	19DA	POLICE	SERVICE BRAKES
	10DA	POLICE	SERVICE BRAKES
	DET	POLICE	NO START SERVICE
	176DA	WATER	BRAKES TIRES SERVICE
1/24/2011	176DA	WATER	BRAKES TIRES SERVICE SANDER
	240DA	POLICE	NO START SERVICE
	36DA	POLICE	NO START LIGHTS
1/25/2011	18DA	POLICE	WATER PUMP ALTERNATOR
	224DA	AIDS	WIPERS
1/26/2011	18DA	POLICE	BRAKE LIGHT SWITCH&PLUG
	DET	POLICE	TIRES
	176DA	WATER	SANDER CHAIN
	160DA	WATER	FLAT
	238DA	WATER	PLOW JACK
1/27/2011		POLICE	REPAIR POLICE TIRES

	238DA	WATER	PLOW
	176DA	WATER	SANDER
1/28/2011	16DA	TRAFFIC	SERVICE TIRES LIGHTS DOOR
	36DA	POLICE	NO START
	157DA	POLICE	RUNS POOR
1/31/2011	36DA	POLICE	ELETRICAL
	DET	POLICE	ELETRICAL
	238DA	WATER	TIRES