

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.

August 31, 2010

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

RE: Monthly report for July 2010

Dear Mayor Boughton and Members of the City Council:

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

There are presently a number of major projects in progress. All of the preliminary work on White Street will be completed for the paving to commence in August. To lessen the impact on traffic, some of the work will be performed at night.

The Backus Avenue Bridge utility relocation work is in the planned stages and will start in August. While there is a certain amount of inconvenience at the present time, the finished project will prove to be well worth the wait. Both the Backus Avenue Bridge and the White Street Projects are ARRA funded, and require tremendous administration.

The Highway Division has put for a strong effort on drainage improvements on Hawthorne Cove Road and Dana Road. These improvements will result in improved icing conditions during the winter months.

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 and the notice to proceed was issued on March 29, 2010 following the signing of the contract. The contractor has mobilized to the project and the construction is underway with a seven month construction period. Phase one cofferdams have been installed. During the driving of the sheeting on both the north east and westerly ends of the cofferdams an unanticipated soil condition became apparent. We questioned the designers and requested the Geotechnical Engineer confirm the soil conditions for the designed slip caissons. Our fear was the soil stratum would not contain the vertical load of the plastic concrete, resulting in the probability of a large change order per the original designed slip caissons. The Geo-technical engineer concurred with my evaluation of the unanticipated soil condition differing from the borings. We requested that the contractor submit a steel casing left in place unit cost. As an ARRA project ConnDot had to approve the change order and review the contractor's proposal. ConnDot concurred and approved the change in caisson design due to the unanticipated soil condition. The approval process and ordering of the steel casing material took approximately two and half weeks and loss of production. The footings and substructure have been completed for the phase one bridge construction. The contractor has removed the phase one cofferdam sheeting. Backfilled a crane pad for setting of the bridge structure phase one. The bridge structure and wing walls will be delivered on August 5, 2010. The key to the start of phase II is Yankee Gas relocating their high pressure gas main which exists through the middle of the existing bridge starting August 11th. We met with all the utilities onsite CL&P, Yankee Gas, AT&T and Comcast. We have explained our tight schedule to all the utilities. Comcast has committed to relocate in one day on a Saturday. AT&T has committed to a three day maximum relocation. Comcast and AT&T can work around Yankee Gas since we set a new permanent utility pole allowing the utilities to relocate for phase II. We are monitoring the project daily and are making every effort to adhere the schedule.

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 -06-06: Earthmovers has remobilized to the site in the beginning of April, and continues to move forward with the remaining work. The paving has been completed. There are some plantings that need to take place in the fall after 9/15/10. The project is approaching substantial completion.

White Street ARRA Project: The contract was bid with A&J Construction as the low bidder. Engineering has 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 has completed the concrete driveway ramps and curbing on White Street. We have paved from Crosby Street to just west of the intersection of Wildman St. & Locust Avenue. We are looking into installing concrete driveway ramps / sidewalk from the Danbury Auto Body Shop to Cole Place. In the original design this area was to be left in asphalt paved to the gutter line of White Street. By installing the

concrete driveway ramp / sidewalk we will have a continuous defined edge of White Street and sidewalk continuity for the traveling public. This additional work will add possibly two weeks to the project contract time and will be paid for as part of the ARRA project.

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:

- Oak Lane and Haddy Lane Sanitary Sewer: Mail survey was sent out, and results were received. Report to the City Council will be compiled by next month.
- Alexander D Sanitary Sewer Extension: Mail survey has been sent out, and results received. Report to the City Council will be compiled by next month.
- Hayestown Heights/Rose Lane Storm Drainage: Design and cost estimate are complete. Mail survey to be sent out within the next couple of months.
- Fairway Drive, Royal Pine Drive, Country Way, Hausmann Road Sanitary Sewer Assessment: In-house design and estimate are complete. Mail survey to be sent out within the next couple of months.
- 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. No cost estimate.
- Deepwood Drive Sanitary Sewer Extension: Preliminary design to be completed next month.
- Juniper Ridge Drive Sanitary Sewer Extension: Preliminary design completed. No cost estimate.
- East Gate Road Sanitary Sewer Extension: Working on a preliminary design.
- Hawthorne Terrace Water: Additional well tests taken. Submitted test results and application for well approval to the State. Waiting on State approval.

Traffic Division: Review land-use development plan and routine activities of 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 and 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:

During the month of July the Highway Division has placed special emphasis on two major drainage projects: Hawthorne Cove Road and Dana Road. The crew also created a new parking area for the Senior Center.

The in-house paving crew has been extremely busy with repairing winter storm damage to driveway aprons and curbs, basin repairs and the never-ending pot holes. The in-house paving crew also paved Chuck Wagon Lane and a large area of Dana Road.

Seven (7) new signs were installed at five (5) locations and sever repairs were made at other sites throughout the City.

The downtown crew is out daily to police areas for litter and debris. We continue to have one (1) sweeper out on a daily bases and the recycling 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 has been in full swing maintaining the 400 plus acres of City property for which it is responsible. The City Center Green is getting special attention for the weekly summer concert series before and after each of the performances. The Farmers Market at Kennedy Park is now open and the Parks Division ensures that the area looks great for the vendors and patrons. With the extreme heat this month, the beaches have seen increased usage. The crews have been busy dragging and cleaning the two (2) beach areas daily.

One crew continues to maintain the City school grounds with the removal of growth along the fence lines, cutting back limbs and mowing. The athletic fields continue to be maintained and are in great shape for the residents' enjoyment.

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 pruning and removals at the following locations: Ives Center, Aspen Way, Old School House and Great Plain Road, Franklin Street Extension, Driftway Road, South King Street, North Street, Long Ridge Road, Wooster Street, Wooster Heights Road, Hoyt Street and Rogers Park.

The crew responded to tree call at the following locations: Aspen Way, Briar Ridge Road, Gregory Street, East Pearl Street, Rogers Park, George Street, Foster Street, Jefferson Avenue, Connecticut Avenue, Rolfs Drive, Lakeside Avenue and Sugar Hollow Road.

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 are completed and out to bid. The heating replacement projects will be awarded in early August. They are boiler replacements at the old jail and old library (see below), as well as replacing the **four main rooftop** units at the Elmwood hall. The older boilers will be replaced with high efficiency condensing boilers which will use less fuel. The city owned decorative street lights will be changed to an induction style of lighting that will cut our energy consumption by 40-50%. This will get our department of energy projects off to a good start. Our consultant has begun to design energy conservation projects that are not related to heating a building.

City Hall: The accessible lavatory for the third floor is going out to bid. The bids will be received by the end of August. Work will be performed on Fridays and evenings so as not to disrupt the building operations.

Air Handler #4 in the EOC has been replaced and is functioning very well...

Library: The HVAC upgrade Phase II to replace the air handlers and the chiller at the Danbury Public Library is 99% complete. The air handlers, controls, ductwork and piping, chiller, have been installed and put into service. The work that remains is the insulation and minor masonry work to the rear wall of the machine room. This job should be 100% complete by the end of August (weather permitting).

Old Jail & Old Library Buildings: We will be replacing the boilers at these buildings with a state of the art gas fired condensing boiler. This boiler will achieve an operating efficiency of 95%! This is an EECBG project which is currently under design. The anticipated date for installation is late summer and early fall.

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 project is out to bid. We will open bids and award the contracts in August.

Environmental Protection Agency: The environmental compliance work I mentioned last month has begun with the retention of TRC as our environmental consultants (engineers). TRC will assist in our response to the EPA relative to the newer facilities (Engine Co #26, Ellsworth Ave. School, and the new police building) that require a Spill Control and Countermeasures Plan (SPCC). TRC will provide its expertise in the formulation of the SPCC plan that will look at our facilities and insure compliance with the EPA regulations and procedures to counteract a spill (should one occur). The public buildings will be inventoried and will report to the EPA how much heating fuel is stored at our facilities, how it is stored and what methods will we implement if a spill occurs in the future! This is a very large task and will consume a good deal of our resources and time.

Honeywell Boiler Project: The Honeywell project approved by the council in July is in the contract negotiation stage. Our attorneys are reviewing the contract and suggesting changes that protect the

City's interests. The Honeywell engineers are working on boiler room design for DHS and BMS. I hope this negotiation will proceed quickly so we can move on to the construction phase!

Capital Improvement Projects: There will be capital improvements to Hatters Park Pavilion and Hatters Park Bowling alleys. The Pavilion will undergo some structural and operational repairs which will enhance its viability and safety. The bowling alleys will become handicapped accessible. Friar Associates is in the design and bids will be out in early August!

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 July. In the month of July we received 148 new work requests and completed 273 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 108.50 man-hours dedicated to this service. The next largest area of concentration was in HVAC repair work, utilizing 105.00 man-hours of labor. Mechanical work came in as the third highest category with 95.00 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 July 2010. Also attached is the Public Utilities Vehicle Maintenance Report.

As of August 16, 2010 there are 115 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, City Clerk
David Day, P.E., Public Utilities Division
Duke Hart, Public Services Division
Tom Hughes, Construction Services Division

APPENDIX "A"

PUBLIC BUILDINGS

Monthly Report - July 2010

	Labor Hours	Total Hours This Month	Total Hours Last Month	Difference	Percent Change
Carpentry		3.50	10.00	-6.50	-185.71
City Bldgs	3.50				
Schools	0.00				
Electrical		51.50	177.00	-125.50	-243.69
City Bldgs	18.50				
Schools	33.00				
HVAC		105.00	78.50	26.50	25.24
City Bldgs	17.50				
Schools	87.50				
Locksmith		12.50	9.00	3.50	28.00
City Bldgs	12.50				
Schools	0.00				
Maintenance		62.00	39.00	23.00	37.10
City Bldgs	11.00				
Schools	51.00				
Mechanical		95.50	132.50	-37.00	-38.74
City Bldgs	80.50				
Schools	15.00				
Plowing		0.00	6.50	-6.50	0.00
City Bldgs	0.00				
Schools	0.00				
Plumbing		108.50	252.50	-144.00	-132.72
City Bldgs	46.00				
Schools	62.50				
Roofing		0.00	16.00	-16.00	0.00
City Bldgs	0.00				
Schools	0.00				

New Work Requests received 148

Appendix “B” Public Utilities Attachments

M E M O R A N D U M

DATE: August 12, 2010
TO: City of Danbury, Common Council
FROM: *David M. Day, P.E.*, Superintendent – July 2010
RE: Sanitary Sewer Collection System Maintenance

Complaints: 11 7 Backups, 3 Loose Manholes, 1 Sewer Smell

Number Received: 11

Number Completed: 11

Pipe Cleaned: 2,500 LF

Gallons of Water Used: 12,000

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: Jul '10

Date: 08/13/10

I. Wastewater Treatment:

A) Sewage Processed:	7.6 MGD (Daily Avg)	236.6	Million Gallons Total
B) Septic Waste Processed:		1,046,950	Gallons Total
C) Sludge Pumped To Digesters:		413,857	Pounds Total

II. Wastewater Quality

	Influent	Effluent	% Removal	Effluent Limit
A) BOD (mg/l)	247	5	98	30 mg/l and 85
B) Total Suspended Solids (mg/l):	311	3	99.2	30 mg/l and 85
C) Total Phosphorus (mg/l):	8.4	0.7	92	1.0 mg/l
D) Ammonia (mg/l):	27.3	0.42	98	1.7 mg/l
E) Total Nitrogen (lbs/Day):	2,751	277	90	502 lbs/day

Note: Phosphorus limits apply May - September.

Nitrogen limit for c only.

III. Pump Station Operation:

A) Beaver Brook:	677.4	Hours Run
B) Southfield:	47.3	Hours Run
C) Mill Plain:	756.6	Hours Run
D) Backus:	450.7	Hours Run
E) Tarrywile	38.0	Hours Run
F) Turner Road:	94.2	Hours Run
G) Ford Avenue:	27.6	Hours Run
H) Indian Glen:	63.4	Hours Run
I) Delay Street:	26.0	Hours Run
J) Hayestown Road:	54.6	Hours Run
K) Kenosia Avenue:	2.7	Hours Run
L) Larson Drive:	50.4	Hours Run
M) Landfill:	172.6	Hours Run
N) Thrope Street	10.0	Hours Run
O) Poets Landing	11.7	Hours Run
P) Rogers Park	10.7	Hours Run

MAINTENANCE REPORT - BUILDING # 6
7/1/2010

7/1/2010	EX MARK	WATER	MOWER DECK
	10DA	POLICE	POWER STEERING
	6DA	POLICE	A/C
7/13/2010	10DA	POLICE	POWER STEERING
	24DA	POOL	ANTIFREEZE LEAK A/C
	MOWER	WATER	FUEL FILTER
	352DA	POLICE	ELECTICAL SERVICE
	276DA	WATER	BLOWER RESITOR
7/14/2010	24DA	POOL	ANTIFREEZE LEAK A/C
	280DA	WATER	SERVICE
	9DA	POLICE	SERVICE
	DET	POLICE	BRAKES SERVICE
7/15/2010	280DA	WATER	SERVICE
	257DA	POLICE	SERVICE ENGINE LIGHT
7/19/2010	350DA	WATER	BRAKES SERVICE
	261DA	POLICE	SERVICE
	DET	POLICE	MIRRIOR
7/20/2010	352DA	POLICE	POWER STEERING
	350DA	WATER	BRAKES SERVICE
7/21/2010	352DA	POLICE	POWER STEERING
	332DA	POLICE	SERVICE BRAKES TIRES
	18DA	POLICE	TRANNY
7/22/2010	114DA	WATER	BRAKE LINE
	18DA	POLICE	TRANNY
	MOWER	WATER	NO START
7/23/2010	137DA	PERMIT	EXHAUST
	249DA	WATER	POWER STEERING
7/26/2010	283DA	WATER	BRAKES SERVICE
7/27/2010	18DA	POLICE	TRANNY
	DET	POLICE	EXHAUST
	39DA	POLICE	NO START
	MOWER	WATER	HYD LEAK
7/28/2010	MOWER	WATER	MOWER DECK
	278DA	HEALTH	BRAKE LINE
	DET	POLICE	EXHAUST
	10DA	POLICE	NO START SMELL
7/29/2010	157DA	POLICE	SERVICE
	240DA	POLICE	LIGHTS
	278DA	HEALTH	BRAKE LINE
7/30/2010	130DA	HEALTH	BRAKE LINE SERVICE
	186DA	POLICE	BLOWER MOTOR

TO : City Council - City of Danbury
 FROM : David Day, Superintendent of Public Utilities
 DATE : August 17, 2010
 RE : WATER DEPARTMENT REPORT: JULY 2010

I. WATER PRODUCTION :

A) Margerie Water Treatment Facility :	<u>115.7</u>	<u>MG.</u>
B) West Lake Water Treatment Facility :	<u>134.7</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>3.0</u>	<u>inches</u>
B) Past 12 Months (running total) :	<u>53.4</u>	<u>inches</u>
C) Current Year (Jan.- Current Mo.) :	<u>30.7</u>	<u>inches</u>

III. WATER STORAGE :

date: 7/1/2010

	<u>Current Reading</u>		<u>Historical Average</u>	
A) East Lake Reservoir :	<u>92.2</u>	%	<u>86.8</u>	%
B) Margerie Lake Reservoir :	<u>85.8</u>	%	<u>90.0</u>	%
C) West Lake Reservoir :	<u>85.4</u>	%	<u>90.8</u>	%
D) Total :	<u>86.5</u>	%	<u>90.0</u>	%

IV. WATER PUMPED :

A) Park Avenue Pump Station :	<u>0</u>	<u>MG.</u>
B) Padanaram(High School) Pump Station :	<u>7.28</u>	<u>MG.</u>

C) Shelter Rock Pump Station :	<u>3.14</u>	<u>MG.</u>
D) WestConn Pump Station :	<u>1.49</u>	<u>MG.</u>
E) Margerie Pump Station :	<u>3.35</u>	<u>MG.</u>
F) Pleasant Acres:	<u>3.11</u>	<u>MG.</u>
G) Nabby Road:	<u>1.27</u>	<u>MG.</u>
H) Harvest Hill:	<u>4.68</u>	<u>MG.</u>
I) West Lake High Service :	<u>66.6</u>	<u>MG.</u>
J) Total Water Pumped (A-I) :	<u>90.9</u>	<u>MG.</u>
	(MG. = Million Gallons)	

V. WATER TRANSFERRED :

A) East Lake to Margerie Reservoir :	<u>60</u>	<u>MG.</u>
B) Padanaram to Margerie Reservoir :	<u>0</u>	<u>MG.</u>
C) Kohanza to West Lake Reservoir :	<u>27</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>87</u>	<u>MG.</u>
	(MG. = Million Gallons)	

VI. ALGAE CONTROL :

A)	<u>Margerie Reservoir - 8400 lbs. Copper Sulfate</u>
B)	<u>East Lake Reservoir - 950 lbs. Copper Sulfate</u>
C)	<u>Lower Kohanza Reservoir - 200 lbs. Copper Sulfate</u>
D)	<u></u>

VII. SURVEY OF WATER SOURCES :

A)	<u>Daily testing of treated and untreated water by Water Quality Laboratory.</u>
B)	<u></u>
	<u></u>

VIII. SUPERINTENDENTS NOTES :