



# CITY OF DANBURY

155 DEER HILL AVENUE  
DANBURY, CONNECTICUT 06810

ENGINEERING DEPARTMENT  
(203) 797-4641  
FAX (203) 796-1586

WILLIAM J. BUCKLEY, JR., P.E.  
DIRECTOR OF PUBLIC WORKS / CITY ENGINEER

March 24, 2005

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

Re: Engineering Department Monthly Report to the Common Council

Dear Mayor Boughton and Members of the Common Council:

Attached you will find the monthly report for the month of February 2005 for the Engineering Department of the City of Danbury. Additionally, you will find information on the Highway Division, the Forestry Division and the Parks Maintenance Division of the Public Works Department. I will also give you an update on what is happening in the Public Utilities Department and will attach to this report a separate report by Mr. Paul Galvin who is filling in for the Superintendent of Public Utilities on a temporary basis. I am happy to report to you that by the time that you meet for your monthly meeting in April, Mr. David Day, P.E. will be taking over the position of Superintendent of Public Utilities for the City of Danbury. David has worked with me here in Engineering for a number of years and I think that he is an excellent choice to fill that vacancy. I also want to take this opportunity to publicly thank Mr. Paul Galvin, who did come back from retirement to assist the City of Danbury during this transition period.

As I have done in the past, I have attached the list of major projects that the City of Danbury is involved in with a short report of the current status of each of the projects, as well as a notation as to the department under whose jurisdiction the project falls. While this list does not contain every project that the City is involved in, it does contain the major projects. Again, as I have done in the past, I will email you an updated copy of this list prior to the monthly meeting of the Common Council. The update will contain the most current information. Again, should you have any questions regarding the list, do not hesitate to contact me or the department head under which the project is listed.

Attached to this report is a list of assessment projects that you have authorized to go forward. We continue to make progress on this assessment list and are nearly complete with a couple of projects that I reported to you last month. These include the Candlewood Drive area water line and the Backus Avenue sanitary sewer. We did have some difficulty with the Backus Avenue sanitary sewer in the manner in which it was installed and the contractor had to relay a section of it. That is what caused a delay on that job, but again, by the time you read this report

and have your monthly meeting in April, that road should be in the early stages of being restored. During the past month, I met with our consulting engineers and discussed with them the Cornell Hills and Jeanette Heights area sanitary sewer and drinking water assessment projects. We are waiting for proposals from our engineer so that those two projects can begin. Additionally, I met with the engineers to discuss the sanitary sewer and drinking water assessment projects for Jensen's Mobil Home Park on Christopher Columbus Boulevard. We expect that we will authorize both of these neighborhood water and sewer assessment projects to go forward in the very near future. Further work has been done on other assessment projects including the Jackson Drive area, Carolyn Avenue area, and the Cozy Hollow Road area, as well as the Boulevard Drive area. In the very near future, we will be looking at the assessment project for the acquisition of the Indian Springs Water Company and the assessment project for road improvements on Wilkes Road.

Within the Highway Division, we have continued to battle snowstorms during the past month. Before the Common Council meets, I will be reviewing the current status of our various accounts with the Finance Director and, if additional funds are needed in any of those accounts, I will report that to you in a separate letter. We are beginning to feel the effects of the increases in the cost of fuel and we will also be reviewing the status of that account in the near future.

We are beginning to gear up for a number of spring projects and, hopefully, by the beginning of April, you should see work begin on the sidewalks near the Danbury War Memorial and also on Center Street. We are continuing our heavy emphasis on sidewalk repairs and replacements throughout the City.

School projects are moving forward at a steady pace at this time. The Magnet School bids were received the end of February. By the time you meet for your April meeting, the contracts should be signed. This is a construction manager type of project with eleven separate bid disciplines. The sum of all the successful low bidders fell within our consultants estimate and we expect to move forward with this project in the near future with a ground breaking on April 12, 2005. Permission from the State of Connecticut School Facilities Unit to go out to bid for the Broadview Middle School has been received and we are awaiting their approval for the Rogers Park School improvements. With respect to the Roberts Avenue replacement school, it is our intent to go out to bid later this year for construction to begin late this year or early next year, again, all being a function of the timing of the State of Connecticut Department of School Facilities Unit's approval.

Some of the smaller projects that we are involved in, that you may be concerned with, include the Rose Hill Avenue Bridge, which is still in the design phase and we are looking forward to begin the design of repairs to three other bridges later this year or early next year. We continue to work on the public bathrooms for Rogers Park and the pavilion for the Tarrywile Park. With respect to the Fire Department, we are in the final stages of putting the plans together for Engine Company No. 25 and have recently received the site evaluation report for Engine Company No. 26, which recommends the site on Kenosia Avenue near the Danbury Airport. Finally, work is continuing on the Fire Training Center on Plumtrees Road.

Within the Forestry Division of the Public Works Department, we continue to address unsafe trees and branches concentrating primarily on branches that hang down into the roadway, as Highway Division employees plow snow. We also are working on cutting trees in drainage easements that you have authorized us to acquire so that we can install drainage as part of the upcoming road paving season.

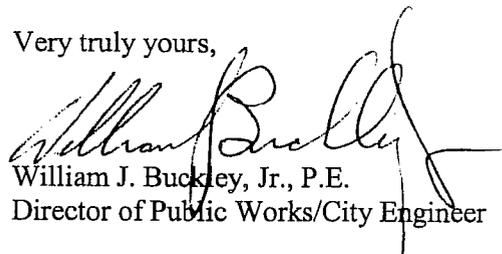
With regard to the Parks Maintenance Division of the Public Works Department, we continue to perform minor repairs and improvements to the various playgrounds in the City. We are also working on putting contracts together for landscaping and maintenance of existing landscaped areas and will have them out to bid shortly. We are also taking inventory of damaged fences and other park facilities so that the necessary repairs can be made for the opening of the City's parks in the spring.

Lastly, we are working at Rogers Park to clean out some of the drainage trenches that are located in the park in order to help reduce the water that ponds on the fields. As I indicated to you last month, one of the major projects, as we look forward, is one that would improve drainage throughout the entire park, perhaps eliminating the drainage trenches and replacing them with underground piping.

Within the Public Utilities Department, a significant amount of pipeline is being installed from Segar Street, along Lake Avenue and up through High Ridge Road to Scuppo Road. That project was part of the 21<sup>st</sup> Century Danbury Bond Package. We continue to negotiate with the Town of Brookfield relative to their acquisition of additional sanitary sewer capacity from our existing system and we will report to you on progress, as we move forward with those negotiations.

Once again, I tried to highlight most of the significant projects that the Public Works Department is involved in, and I encourage you to take a look at the attachments, as they will give you a good idea of the work that is going on within the City. Should you have any questions on this report or any other aspects of the Public Works Department, do not hesitate to bring them to my attention.

Very truly yours,

A handwritten signature in black ink, appearing to read "William J. Buckley, Jr.", written over the typed name and title.

William J. Buckley, Jr., P.E.  
Director of Public Works/City Engineer

Encl.  
WJB/com

## ENGINEERING DEPARTMENT

February 2005

- A. Sanitary Sewer Permits Issued: 12
- B. Water Permits Issued: 13
- C. Project Bid Openings: Magnet School
- D. Projects under review, design and/or construction
  - 1. Aquifer Level A consultant RFQ
  - 2. Aspen Way storm drainage
  - 3. Backus Avenue area sanitary sewer
  - 4. Backus Avenue bridge – State Local Bridge Program application
  - 5. Bear Mountain water storage tank
  - 6. Beckerle Street storm drainage (DaSilva)
  - 7. Beckerle Street/Clapboard Ridge Road traffic signal
  - 8. Blind Brook Area playground
  - 9. Boehringer Ingelheim area road and infrastructure improvements
  - 10. Boulevard Drive sanitary sewer (assessment project)
  - 11. Broadview Middle School – additions and renovations
  - 12. Brookfield sanitary sewer – interlocal negotiations
  - 13. Burton's Bridge sanitary sewer and water main extensions and bridge
  - 14. Candlewood Terrace/Candlelight Drive water system improvements
  - 15. Cannondale Drive request for road acceptance
  - 16. Carla Estates – road construction
  - 17. Carolyn Avenue area sanitary sewer – assessment project
  - 18. Caraway Estates – road construction
  - 19. CDBG grant applications
  - 20. Center Street/portion of Town Hill Avenue sidewalk improvements –CDBG
  - 21. City Hall roof repair
  - 22. Clapboard Ridge Road – water main extension
  - 23. Cobblestone Drive – road acceptance
  - 24. Colonial Hills Baptist Church water line extension
  - 25. Commerce Park water system
  - 26. Common Council reviews and reports
  - 27. Cornell Hills area sanitary sewers and water mains
  - 28. Crosby Street bridge – State Local Bridge Program application
  - 29. Crows Nest Lane water extension
  - 30. Crystal Bay Development – sanitary sewer and water main extensions
  - 31. Danbury High School – science lab improvements
  - 32. Danbury High School – security camera study
  - 33. De Palma Lane sanitary sewer
  - 34. Eagle Road Extension/Bridge
  - 35. East Ditch drainage project
  - 36. Engine Co. 25
  - 37. Fieldstone Drive acceptance
  - 38. Fire Training School – Plumtrees Road

39. Flint Ridge Road acceptance
40. Hatters Park parking lot expansion
41. Hatters Park/PAL connecting walkway
42. Hawthorne Terrace water system improvements
43. High Ridge Road, Mill Ridge Road area water main
44. Hillcroft II sanitary sewer and water main extensions
45. Hollandale Road sanitary sewer extension
46. Home Depot sanitary sewer and water relocations
47. Immanuel Lutheran School Renovations/Head Start
48. Inspections – sanitary sewer and water connections
49. Intersection improvements – various locations (geometric and traffic signals)
50. Irving Place acceptance
51. Jackson Drive/Great Plain Road area sanitary sewer extension
52. Jeannette Heights area sanitary sewer and water assessment projects
53. Jireh Lane – road acceptance
54. Landfill closure
55. Lexington Court sanitary sewer and water main extensions
56. Lexington Mews sanitary sewer and water main extensions
57. Library trellis repair
58. Main Street – streetscape south end
59. Main Street – streetscape north end
60. Magnet elementary school
61. Margerie Street water line extension
62. Middle School (third) – feasibility study
63. Mill Plain Road improvements – DOT project
64. Morton Street sanitary sewer
65. Mountainview Terrace – Avalon sanitary sewer and water extensions
66. New elementary/replacement school (Roberts Avenue School)
67. North Street/Downs Street/Padanaram Road DOT improvement project
68. Old Farm Road sanitary sewer (assessment project)
69. Olive Street/Tilden Road sanitary sewer (assessment project)
70. On-call bridges consulting engineers – contract negotiations
71. On-call landscape architects/architects parks and recreation improvements – contract negotiations
72. Padanaram Road bridge – State Local Bridge Program application
73. Parking Garage – Downtown (Library Place)
74. Pembroke Road/Stacey Road DOT intersection improvements
75. Permits – sanitary sewer and water
76. Petersons Farm/Louis Allen Drive water line extension and bridge
77. Planning Commission reviews and reports
78. Police Headquarters (New)
79. Precision Drive traffic signal installation
80. Retaining wall reviews
81. Ridgewood Drive sanitary sewer extension (Botelho)
82. Rogers Park – public restrooms
83. Rogers Park drainage master plan
84. Rogers Park Middle School – additions, renovations and parapet repair
85. Rose Hill Avenue Bridge
86. Ryders Lane area sanitary sewer

87. Schools – various selective improvements
88. Scuppo Road sanitary sewer and water extensions
89. Segar Street bridge
90. Senior Center Phase II
91. Shannon Ridge Road sanitary sewer extension (Taylor)
92. Shelter Rock Road (GDC) sanitary sewer and water main extensions
93. Shelter Rock Road – Arlington Woods sanitary sewer and water
94. Shore Road improvements
95. Sidewalks – ADA improvements (ramps for the handicapped)
96. Sidewalks – replacement in Downtown area as well as around school and municipal buildings
97. South Cove Road water main extension
98. South King Street area water main extension as-built drawings
99. Stetson Place sanitary sewer and water
100. Storm drainage mapping (citywide)
101. Stormwater NPDES II regulations – plan and report
102. Ta'Agan Point area water main extension
103. Tarrywile Lake Road – road construction
104. Tarrywile Pavilion
105. The Reserve – former Union Carbide property
106. Traffic report reviews
107. Traffic signal maintenance
108. Water meter replacement project
108. Westside Fire Station
109. Westside Sanitary Sewer Interceptor
110. Wilkes Road improvements
111. Wooster School water line extension



**CITY OF DANBURY**  
**DEPARTMENT OF PUBLIC UTILITIES**  
 155 DEER HILL AVENUE  
 DANBURY, CT 06810

(203) 797-4637  
 FAX (203) 796-1590

RECEIVED  
 MAR 16 2005  
 ENGINEERING DEPT

TO : Common Council - City of Danbury  
 FROM : Paul Galvin, Superintendent of Public Utilities  
 DATE : March 15, 2005  
 RE : WATER DEPARTMENT REPORT : FEBRUARY 2005



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I. WATER PRODUCTION :

A) Margerie Water Treatment Facility :	<u>75.2</u>	<u>MG.</u>
B) West Lake Water Treatment Facility :	<u>121.9</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>4.34</u>	<u>inches</u>
B) Past Year (12 mos.) :	<u>54.05</u>	<u>inches</u>
C) Current Year (Jan.- Current Mo.) :	<u>4.34</u>	<u>inches</u>

III. WATER STORAGE :

A) Margerie Reservoir :	<u>99.8</u>	<u>%</u>	
B) West Lake Reservoir :	<u>99.7</u>	<u>%</u>	date: 2/7/05
C) East Lake Reservoir :	<u>100.0</u>	<u>%</u>	
D) Total :	<u>99.8</u>	<u>%</u>	

IV. WATER PUMPED :

A) Park Avenue Pump Station :	<u>0</u>	<u>MG.</u>
B) Padanaram(High School) Pump Station :	<u>3.73</u>	<u>MG.</u>
C) Shelter Rock Pump Station :	<u>1.21</u>	<u>MG.</u>
D) WestConn Pump Station :	<u>3.26</u>	<u>MG.</u>
E) Margerie Pump Station :	<u>1.00</u>	<u>MG.*</u>
F) Pleasant Acres:	<u>1.88</u>	<u>MG.</u>
G) Nabby Road:	<u>1.30</u>	<u>MG.</u>
H) Harvest Hill:	<u>2.11</u>	<u>MG.</u>
I) West Lake High Service :	<u>59.4</u>	<u>MG.</u>

( MG. = Million Gallons )  
(\* = Estimated )

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>

( MG. = Million Gallons )

VI. ALGAE CONTROL :

- A) NONE
- B) \_\_\_\_\_
- C) \_\_\_\_\_

VII. SURVEY OF WATER SOURCES :

- A) Daily testing of treated and untreated water for critical water quality parameters.
- B) \_\_\_\_\_

VIII. SUPERINTENDENTS NOTES :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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RECEIVED  
MAR 16 2005  
ENGINEERING DEPT

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**M E M O R A N D U M**

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**DATE:** March 15, 2005  
**TO:** City of Danbury, Common Council  
**FROM:** Paul Galvin, Superintendent *Paul Galvin*  
**RE:** Sewer Collection Monthly Report – February 2005

Complaints: 12

Number Received: 12

Number Completed: 12

Pipe Cleaned: 1800 LF

Pipe Inspected:  
Cut 600 LF

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**COMMENTS:**

The cause of the sewer back up in the Forest Street areas was grease in the main, we cut Grove Street, Forest Avenue, and Virginia Ave. Main run's about 1/2 to 3/4 full. Division Street – cleaned about 700 LF, will camera the line and report condition.

Christina  
Olmstead/ENGINEERING/CO  
D  
02/07/2005 02:21 PM

To Mark Boughton/MAYOR/COD@Danbury, Michael  
McLachlan/MAYOR/COD@Danbury, Bill  
Buckley/ENGINEERING/COD@Danbury, Sarah  
Morey/PUBWORKS/COD@Danbury, Dave  
Scalzo/PUBMAINT/COD@Danbury, Paul  
Galvin/PUBWORKS/COD@Danbury

cc

bcc

Subject Fw: Reservoir Reading

----- Forwarded by Christina Olmstead/ENGINEERING/COD on 02/07/2005 03:24 PM -----



Dean  
Hollrah/ENGINEERING/COD  
02/07/2005 01:35 PM

To C.Olmstead@ci.danbury.ct.us@Danbury,  
S.Davis@ci.danbury.ct.us@Danbury,  
K.Green@ci.danbury.ct.us@Danbury

cc

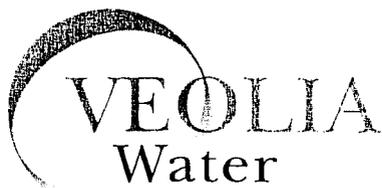
Subject Reservoir Reading

## Reservoir Reading

2/7/05

	Down (ft.)	%		Elev. (ft.)
East	(0.03)	100.0%	360,000,000	680.83
Margerie	0.02	99.8%	1,055,266,520	626.08
West	0.05	99.7%	1,261,205,000	610.65
Total Gallons in Storage			<u>2,676,471,520</u>	
Composite %			<u>99.8%</u>	
Day Supply (8.5 MGD)			<u>315</u>	

*Dean Hollrah*



CITY OF DANBURY  
PUBLIC UTILITIES

MAR 10 2005

To: Paul Galvin, Acting Superintendent of Public Utilities, City of Danbury

From: Jon Hoisak, Project Manager

File Date \_\_\_\_\_  
 Station \_\_\_\_\_  
 No. \_\_\_\_\_

Subject: WPCP Report For Month of: February, 2005

Date: 03/10/05

**I. Wastewater Treatment:**

A) Sewage Processed:	267	Million Gallons
B) Septic Waste Processed:	666,900	Gallons
C) Sludge Pumped To Digesters:	451,625	Pounds

**II. Wastewater Quality**

	Influent	Effluent	% Removal	Effluent Limit
A) BOD (mg/l)	252	5	98	30 mg/l and 85%
B) Total Suspended Solids (mg/l):	507	4	99	30 mg/l and 85%
C) Total Phosphorus (mg/l):	6.5	1.9	71	1.0 mg/l
D) Ammonia (mg/l):	21.5	0.70	97	4.0 mg/l
E) Total Nitrogen (lbs/Day):	2,511	1,701	32	651 lbs/day

Note: Phosphorus/Ammonia limits apply May - September. Nitrogen limit is for credit trading only.

**III. Pump Station Operation:**

A) Beaver Brook:	667.8 Hours Run
B) Southfield:	34.1 Hours Run
C) Mill Plain:	95.3 Hours Run
D) Backus:	94.3 Hours Run
E) Tarrywile	74.4 Hours Run
F) Turner Road:	22.2 Hours Run
G) Ford Avenue:	23.6 Hours Run
H) Indian Glen:	90.0 Hours Run
I) Delay Street:	31.0 Hours Run
J) Hayestown Road:	37.4 Hours Run
K) Kenosia Avenue:	68.6 Hours Run
L) Larson Drive:	50.1 Hours Run
M) Landfill:	77.0 Hours Run

Total Pump Station Alarms: 5





**CITY OF DANBURY**  
155 DEER HILL AVENUE  
DANBURY, CONNECTICUT 06810

**RICHARD M. PALANZO**  
SUPERINTENDENT

**Department of Public Buildings**  
Telephone: (203)797-4584  
Facsimile: (203)796-1528  
Email: r.palanzo@ci.danbury.ct.us

## Memorandum

**DATE:** MARCH 10, 2005

**TO:** Honorable Mark D. Boughton, Mayor  
Common Council Members

**FROM:** Richard M. Palanzo, Superintendent 

**RE:** Monthly Report - February 2005

**CC:** W.J. Buckley Jr.

Attached please find the statistical analysis for repairs and maintenance work that the Public Buildings Mechanics engaged in during the month of February. In the month of February we received 59 new work requests and completed 184 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 heating repairs of the City's buildings and schools with a total of 234.00 man-hours dedicated to this service. The next largest area of concentration was in mechanical repairs, utilizing 202.00 man-hours of labor. Plumbing repairs were the third highest category with 167.00 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.

Enclosure

c/g/pub bldg/CCMRJFEB05



MONTHLY REPORT  
FEBRAURY 2005

	<u>LABOR HOURS</u>	<u>TOTAL HOURS THIS MONTH</u>	<u>TOTAL HOURS LAST MONTH</u>	<u>DIFFERENCE</u>	<u>PERCENT CHANGE</u>
ADMINISTRATION		0.00	0.00	0.00	0.00
CITY BLDGS	0.00				
SCHOOLS	0.00				
CARPENTRY		0.00	0.00	0.00	0.00
CITY BLDGS	0.00				
SCHOOLS	0.00				
ELECTRICAL		130.00	73.50	56.50	76.87
CITY BLDGS	72.50				
SCHOOLS	57.50				
FIRE ALARMS		8.00	3.00	5.00	166.67
CITY BLDGS	4.50				
SCHOOLS	3.50				
HVAC		0.00	4.50	-4.50	-100.00
CITY BLDGS	0.00				
SCHOOL	0.00				
LOCKSMITH		38.00	8.00	30.00	375.00
CITY BLDGS	38.00				
SCHOOL	0.00				
MAINTENANCE		0.00	0.00	0.00	0.00
CITY BLDGS	0.00				
SCHOOLS	0.00				
HEAT		234.00	159.00	75.00	47.17
CITY BLDGS	74.50				
SCHOOLS	159.50				

MONTHLY REPORT  
FEBRUARY 2005

	<u>LABOR TOTAL HOURS</u>	<u>TOTAL HOURS</u>	<u>DIFFERENCE</u>	<u>PERCENT</u>
	<u>HOURS THIS MONTH</u>	<u>LAST MONTH</u>		<u>CHANGE</u>
<b>MECHANICAL</b>		202.00	231.00	-29.00
<b>CITY BLDGS</b>	101.50			-12.55
<b>SCHOOLS</b>	100.50			
<b>PLOWING</b>		0.00	54.50	-54.50
<b>CITY BLDGS</b>	0.00			-100.00
<b>SCHOOLS</b>	0.00			
<b>PLUMBING</b>		167.00	136.50	30.50
<b>CITY BLDGS</b>	17.50			22.34
<b>SCHOOLS</b>	149.50			
<b>ROOFING</b>		0.00	2.00	-2.00
<b>CITY BLDGS</b>	0.00			-100.00
<b>SCHOOLS</b>	0.00			
<b>COMPLETED WORK HOURS</b>		779.22		