

WATER COMMISSIONER'S AND SUPERINTENDENT'S  
REPORT

To the Residents of the Leicester Water Supply District:

The Commissioners and Superintendent respectfully submit the One Hundred and Twenty-Fifth Annual Report for the year ending Dec. 31, 2012.

*WATER DEPARTMENT*

Water quality coliform samples were taken each month according to the Department of Environmental Protections Schedule at 4 locations, 124 Pine Street, 9 Water Street, 10 Market Street, at the water tanks and the Mount Pleasant Booster Station. In addition to the 5 routine distribution samples, each well (5) were sampled each month.

A 1 count of coliform bacteria, which is an indicator bacteria, was found in the Market Street sample in June. This same month we also had a 5 count at Paxton Street and a 4 count at the Mount Pleasant Booster station. Repeat samples were taken along with additional samples above and below the sample sites resulted in a zero presence and no E coli bacteria. No notification or Public Notice was required.

Due to these repeated coliform samples, the District has begun chlorinating the complete system year round. We maintain a residual at the far reaches of our distribution system between 0.10 and 0.20. DEP would like us to have a minimum residual of 2.0 in our system, however, taste and odor complaints begin to abound when we have disinfected to the 2.0 residual. Chlorine also creates Haloacetic Acids (HAA's) and Trihalomethanes (THMM's) within our distribution system. Balancing these two requirements is very challenging.

The District has been required to perform annual Perchlorate sampling on all of our wells in the District. Perchlorates are substances that have been found in the drinking water supplies that come from explosive powders such as fireworks, gun powders or blasting projects. All of our results were below the MCL's.

Volatile Organic Compound samples which are monitored yearly for petroleum produces which may be introduced to the ground water from

leaking gas and oil tanks were taken at the #1, #2, #3, Jim Dandy and Rawson Street wells during the 2<sup>nd</sup> quarter. All the samples taken during this period were found to have no detections of VOC's.

Nitrates sample were also taken to insure there was no presence or indication of sewerage from septic systems in the area of the well fields.

The wells currently have no issues and sampling will continue annually to monitor these water sources.

Wells #1 and Jim Dandy in Paxton have consistently not shown any Arsenic or Radionuclides during the quarterly sampling and have not had any accidents for the new DEP limits of 10 parts per billion.

Arsenic and Uranium is naturally occurring from the erosion of natural deposits in the rock structures of New England. Sampling at the #2 and #3 wells in Paxton and the #5 well in Leicester continues each quarter for arsenic. The treatment system that was built for #2 and #3 wells in Paxton went on line in October 2008 continues to meet the Arsenic MCL (Maximum Contaminant Limits) established by the EPA Safe Drink Water Standards.

Each of the wells has two vessels (Skid) which allows one of the vessels to be taken off line for cleaning, repair or regeneration of the treatment media without having to take the well off line while maintenance is being performed.

The four vessels are checked quarterly for arsenic break-through and have had arsenic breakthrough at 0.012 mg/L (Well #3) for the finish water being treated and pumped in Paxton. Both vessels will need to be taken out of service and replaced. The arsenic maximum contaminant level (MCL) is 10 parts per billion.

Arsenic removal is accomplished by passing water through an iron-oxide impregnated resin. This Arsenic attaches to this resin. To clean it, removal from the vessels is done by vacuuming the resin into large totes. These 35 cf totes are transported to a facility in Philadelphia, PA that gives the resin an acid bath to re-generate it. Normally, we will lose approximately 10% of material in the re-generation process. The cost of replacement material is in excess of \$415 per cubic foot. Each vessel (2 in each train), hold approximately 30 cubic feet of material.

The District went forward with a second round of Microscopic Particulate Analysis (MPA) testing on Pierce Spring, Well #2 and Well #3 in Paxton. This is due to its proximity to water bodies and the potential for the spring to be contaminated by these water bodies. These can only be done between April 1<sup>st</sup> to May 30<sup>th</sup> and August 15<sup>th</sup> and October 15<sup>th</sup> of each year. This test resulted in samples in the Low to Moderate Risk Range. Each MPA test costs approximately \$1000.

Future capital projects for the water system include the re-establishment of the Whittemore Street Well with an Arsenic and uranium treatment system; upgrading of the Pierce Spring cistern in Paxton; and, replacement of old water lines.

The new Hersey radio read meters have been performing as expected. The meters are read by a lap top computer minimizing the reading process and ensuring the readings are not visually mis-read or entered incorrectly.

In July 2011, the Twelfth Consumer Confidence reports were mailed to the District which included information for the previous year 2011.

Each year the Consumer Confidence reports are mailed to the residence of the District by June 30 and include the information about water quality of each source, information about progress the District is making in protecting the sources and pertinent information about treatment along with general district business.

The District employs four fully licensed water treatment and distribution personnel.

We continue to collaborate with the Town of Leicester on water issues as they relate to economic development opportunities.

### *SEWER DEPARTMENT*

In September 2010, the LWSD was issued a new, 5-year renewal of their National Pollution Discharge Elimination System (NPDES) permit. Some of the major changes in this permit include a decrease in our discharge limits for Total Phosphorous, Total Recoverable Copper, Aluminum and Ammonia-Nitrogen. We must also report quarterly for Total Kjeldahl Nitrogen, Total Nitrate and Total Nitrite. In our previous permit we were required to perform quarterly toxicity testing on our effluent. This has been reduced to semi-annual testing.

The monthly test results of the daily laboratory analysis have been forwarded to the Department of Environmental Protection (DEP) and the Environmental Protection Agency (EPA) as required. In addition quarterly sampling was conducted to determine the Toxicological for Acute and Chronic species survival of the treated effluent from the WWTP. There were no exceptions during 2012.

The District currently operates eight (8) Wastewater Pump Stations (WWPS) for the LWSD and three (3) WWPS Pump Stations for the Hillcrest Sewer District. All together at the end of 2010 the District operations include 11 Waste Water Pump Stations, 5 Drinking Water Pump Stations and 3 Drinking Water Booster Stations in addition to the WWTP located on Pine Street.

The District is required to report annually on Infiltration and Inflow (I/I) within our collection system. Areas have been identified for upgrades to include replacement of old clay pipes; lining of clay pipes; replacement of deficient manholes; composite lining of deficient manholes; and, installation of water-tight manhole covers.

The Board of Commissioners set aside funds to look at the overall health of the wastewater treatment plant. This study was completed in November 2011 and will be used to upgrade the plant going forward. Regulatory requirements, fatigue and breakdowns at the plant predicated this study and future upgrades and maintenance to the plant.

The District moved forward on the design of a new headworks facility. The headworks screens out rags and paper through a smaller (3/8") screen. Currently the headworks have a (3/4") screen. A solids washer is proposed to wash the rags and paper materials to remove organic matter to be recycled back as food into the wastewater process. Everything else is compacted down to be placed into the solid waste container. A new grit removal system will remove inorganic matter. Currently, all of these materials are being passed through the whole plant. Construction of the new headworks will allow us to process wastewater more efficiently and slow down the wear and tear on downstream components.

Future projects include the installation of additional aeration tanks; replacement of mechanical aeration equipment with more energy efficient bubble aeration; replacement and upgrading of obsolete electrical components; sludge pump replacement; emergency generation upgrades;

upgrading of sludge de-watering systems; and, upgrade of the chlorine contact chamber. These upgrades will allow us to assist the Town of Leicester in economic development areas.

The Commissioners once again caution the residence of the District about sump pumps, roof drains, removing cleanout covers to allow surface water to enter the sanitary sewer or any other means of allowing rain or surface water to be discharged to the sanitary sewer system.

District Rules and Regulations read as follows:

Article 4 Section 6 Specific Prohibitions:

The following discharges are specifically prohibited:

- A. Groundwater, storm water and surface waters, including but not limited to, roof and surface runoff, and subsurface drainage.
- B. No water from pools, reservoirs, or cellars shall be drained into any sanitary sewer either by gravity or pump.

Should your residence be found in violation through random inspections and smoke testing, the offender will be given 30 days to correct the violation and will be fined or service discontinued according to the penalty section of the Rules and Regulation.

Copies of the Rules and Regulations are available at the office or can be found on the Districts Web Site at [www.lwsd.net](http://www.lwsd.net) along with Notices, Applications and other District information.

The District employs four fully licensed wastewater operators.

We continue to collaborate with the Town of Leicester on wastewater issues as they relate to economic development opportunities.

**Minutes of the 125th Annual Meeting  
Leicester Water Supply District  
April 24, 2012**

In accordance with the warrant legally served and posted, the legal voters of the Leicester Water Supply District met in the Leicester Water Supply District Meeting Hall, 124 Pine Street, in the Town of Leicester on Tuesday April 24, 2012 at seven in the evening ( 7:00 pm), to act on the following Articles, viz:

The meeting was called to order at 7:00 p.m. by the District Moderator Frank W. Lyon after a quorum was declared with 15 signed in voting residence.

A Motion was made by the Clerk to dispense with the reading of the Articles as everyone present had a copy of the Warrant. A second was made and voted in the affirmative. None opposed.

ARTICLE 1 A motion to be made to dispense with the reading of the Officers Reports as copies of the 125nd Annual Report was present and that the reports of the District Officers be accepted with the exception of any typographical errors. A second was made and voted. None opposed,

ARTICLE 2 Robert F. Wilson nominated J. Donald Lennerton, Jr. for Water Commissioner for a term of three years. Motion was seconded by Frank W. Lyon. None opposed

ARTICLE 3 J. Donald Lennerton made a motion that the District vote to pay the District Officers as follows for the fiscal year beginning July 1, 2012.

Commissioner Chairman	\$	2,029.00
2 other Commissioners		3,520.00
Moderator		137.50
Clerk		302.50
TOTAL	\$	5,989.00

A second was made and voted.

ARTICLE 4 Robert F. Wilson made the motion that the District vote to raise and appropriate the following sums of money to defray the expenses of the District for the fiscal year beginning July 1, 2012.

Water Maintenance....Raise & Appropriate....\$462,720.47....\$462,720.47  
Sewer Maintenance....Raise & Appropriate...\$438,904.05....\$438,904.05

TOTAL \$940,440.10

To transfer from the  
Rawson, Holcomb, Utica and Breezy Green Lateral Account  
To Maturing Debt (Principal).....\$ 13,750.00  
To Interest on Debt (Interest).....\$ 3,437.50  
TOTAL \$ 17,187.50

To transfer from the  
 Waite Street, Massasoit, Rural, Chapel Sewer Lateral Account

To Maturing Debt (Principal) .....	\$ 30,834.00
To Interest on Debt (Interest).....	\$ 28,443.34
TOTAL	\$ 59,277.34

To transfer from the  
 Route 9 West Sewer Lateral Account

To Maturing Debt (Principal).....	\$ 84,678.00
To Interest on Debt (Interest).....	\$ 73,351.86
TOTAL	\$158,029.86

The motion was seconded and voted: None opposed

ARTICLE 5 J. Donald Lennerton made the motion that the District vote to authorize the Treasurer with the approval of the Commissioners to borrow in anticipation of the revenue for the fiscal year beginning July 1, 2012, in accordance with Mass. Gen. Laws, c. 44, sec 4 and Acts in amendment thereon, and including in addition thereto, Chapter 849 of the Acts of 1969, as amended, by issuing a note or notes payable within one year and renew any note or notes as may be given for a period of less than one year.

The motion was seconded and voted unanimously.

ARTICLE 6 J. Donald Lennerton made the motion that the District vote to pass over this article.

The motion was seconded and voted unanimously.

ARTICLE 7 Robert F. Wilson made the motion that the District vote to transfer the sum of two Hundred and thirty-six thousand, five hundred and fifty Dollars (\$236,550.00) from the Free Cash to do the following capital projects.

Intrusion alarms for Sewer & Water Pump Stations	\$ 9,800.00
Rebuild skid steer	\$ 10,000.00
Engineering for headworks	\$ 85,000.00
Paxton Well Maintenance	\$ 75,000.00
Franklin Street Water (+/- 650 lf)	\$ 42,250.00
Spring Street Water (+/- 185 lf)	\$ 14,500.00
Grand Total	\$236,550.00

The motion was seconded and voted: None opposed

ARTICLE 8 J. Donald Lennerton made a motion that the District vote to transfer the sum of One Hundred Ninety Four Thousand Dollars and zero cents (\$150,000.00) from Free Cash to fund the Franklin Street Area Sewer Rehabilitation Account.

The motion was seconded and voted: None opposed

ARTICLE 9 Robert F. Wilson made a motion that the District vote to transfer from Available funds the sum of Forty-seven thousand, four hundred and sixty dollars (\$47,460.00) to the Water Development Account and Fifteen thousand, six hundred and fifty-one dollars (\$15,600.00) to the Sewer Development Account. Transfer from: Deerpond Betterment the sum of Six thousand, nine hundred seventy dollars and thirty-seven cents (6,970.37); Mannville Betterment the sum of Two thousand, three hundred sixty-three dollars and sixty-eight cents (2,363.68); Paxton Betterment the sum of Five hundred sixty-five dollars and seventeen cents (565.17) to the Sewer Stabilization Account.

The motion was seconded and voted: None opposed

ARTICLE 10 J. Donald Lennerton made the motion that the District vote to pass over this article.

The motion was seconded and voted unanimously.

The meeting was adjourned at 7:25 p.m. after a motion and a second was made. 19 legal votes attended the meeting

The motion was seconded and voted: None opposed:

Respectfully submitted,  
 J. Donald Lennerton, Jr.  
 District Clerk  
 April 26, 2012

TREASURER'S REPORT  
JULY 1, 2011 TO JUNE 30, 2012

<b>RECEIPTS</b>	2012
WATER REVENUE	\$340,320.23
SEWER REVENUE	\$395,533.46
INTEREST INCOME BANK ACCOUNTS	\$9,734.82
INTEREST WAITE LATERAL	\$1,229.99
INTEREST BREEZY/RAWSON LATERAL	\$73.23
INTEREST PAXTON/LAKE LATERAL	\$148.06
INTEREST MANNVILLE LATERAL	\$443.46
INTEREST RT 9 LATERAL	\$2,549.06
OTHER CHARGES	\$66,922.69
WATER CONNECTION FEES	\$51,960.00
SEWER CONNECTION FEES	\$72,389.91
WATER ASSESSMENTS	\$10,128.31
SEWER ASSESSMENTS	\$26,117.00
HILLCREST SEWER INSPECTION FEES	\$30.00
BETTERMENT COLLECTIONS	\$92,535.82
BETTERMENT INTEREST	\$82,277.41
NATIONAL GRID RENTAL	\$6,480.00
TOTAL RECEIPTS	\$1,158,873.45
<b>DISBURSEMENTS</b>	
WATER MAINTENANCE	\$451,547.81
SEWER MAINTENANCE	\$435,943.69
MATURING DEBT	\$592,242.00
INTEREST ON DEBT	\$164,386.80
WORCESTER COUNTY RETIREMENT	\$35,378.00
ART #9 4-27-10 TREATMENT PLANT UPGRADES & ENG	\$49,435.00
ART #7 4-26-11 WATER TANK PAINTING	\$6,259.50
ART #7 4-26-11 WHITTEMORE ST WELL	\$22,102.50
ART #8 4-26-11 FRANKLIN STREET SEWER LINE	\$49,064.00
ART #7 4-24-12 MISC. ITEMS	\$0.00
TOTAL DISBURSEMENTS	\$1,806,359.30

**ANALYSIS OF CASH**

WATER DEVELOPMENT	\$923,652.23
SEWER DEVELOPMENT	\$1,936,933.81
WATER & SEWER RATE RELIEF	\$452,599.48
SEWER STABILIZATION ACCOUNT	\$97,766.99
CAPITAL EQUIPMENT ACCOUNT	\$0.00
RAWSON ST. LATERAL	\$29,215.81
RT 9 W. SEWER LATERAL	\$967,933.78
WAITE/CHAPEL LATERAL	\$395,718.43
DEPOSIT IN TRANSIT	\$13,860.00
ART #9 4-27-10 TREATMENT PLANT UPGRADES & ENG	\$511.71
ART #7 4-26-11 WATER TANK PAINTING	\$18,740.50
ART #7 4-26-11 WHITTEMORE ST WELL	\$52,897.50
ART #8 4-26-11 FRANKLIN STREET SEWER LINE	\$144,936.00
ART #6 4-24-12 FRANKLIN STREET SEWER LINE	\$150,000.00
ART #7 4-24-12 MISC. ITEMS	\$236,500.00
TOTAL	\$5,421,266.24
SURPLUS REVENUE	\$1,116,647.00
TOTAL	\$6,537,913.24

**GENERAL DEBT**

RAWSON/BREEZY LATERAL	\$55,000.00
WAITE SEWER LATERAL	\$524,158.00
RT 9 W. SEWER LATERAL	\$1,693,549.00
C.W.M.P. SERIAL ISSUE	\$274,069.00
WATER TREATMENT NOTE	\$472,500.00
WATER TREATMENT NOTE	\$198,899.00
TOTAL	\$3,218,175.00

RESPECTFULLY SUBMITTED  
DEBRA A. WILSON  
DISTRICT TREASURER

*Leicester Water Supply District  
Incorporated 1988  
Chapter 171 Acts 1888 Water  
An Act to supply the Centre Village of Leicester with Water*

*OFFICERS 2011*

*Board of Water Commissioner's*  
Robert F. Wilson Chairman – 2011-2014  
Frank W. Lyon – Filling Leonard S. Gabrila term  
2010-2013  
J. Donald Lennerton 2012-2015

*District Treasurer*  
Debra Wilson 2010-2013

*District Clerk*  
J. Donald Lennerton 2012-2013

*District Moderator*  
Vacant

*Certified Public Accounting Auditors*  
Borgatti Harrison & Co.

*Superintendent*  
Roger A. Hammond

Annual Meetings - Last Tuesday in April.

Commissioners Meetings  
Third Thursday of the Month - 10:00 AM  
at the Office 124 Pine Street unless otherwise posted.

Billing Periods – Quarterly

Office Hours Monday through Thursday 9:30 AM to 2:00 PM  
Friday 9:30 AM to 1:00 PM – excluding Holidays

Office Telephone #:508 892-8484  
Emergencies #508 892-8484  
Police Dept. #508 892-7010

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of discrimination write USDA, Director, Office of Civil Rights,  
Washington, DC 20250-9410