

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 Thirty-first Annual Report for the year ending Dec. 31, 2019.

WATER DEPARTMENT

Water quality coliform samples were taken each month in accordance with the Department of Environmental Protection's schedule at 5 locations, 124 Pine Street wastewater treatment building, 15 Water Street, 10 Market Street, 180 Paxton Street (the water tanks) and the Mount Pleasant (Route 9) Booster Station. In addition to the 5 routine distribution samples, each well (5) were sampled each month.

Eighteen (18) count of coliform bacteria, which is an indicator bacteria, was found at 124 Pine Street WWTP (RS 001) in August 2019. Required follow-up testing came back clean. One (1) count of coliform bacteria was found at Well #2 RAW (RW 02G) in November 2019. Required follow-up testing came back clean. Repeat samples taken along with additional samples above and below the sample site resulted in a zero E-Coli bacteria presence. No notification or Public Notice was required.

The District has continued to chlorinate treated water on a year-round basis in accordance with MassDEP requirements. We maintain chlorine residuals at the ends of the distribution system between 0.10 mg/l and 0.20 mg/l. DEP requires a minimum chlorine residual of 0.30 mg/l for finished water being stored at the water tanks at Carey Hill. However, taste and odor complaints begin to abound when we have disinfected water with 1.0 mg/l residual chlorine. Chlorine also creates Haloacetic Acids (HAA's) and Trihalomethanes (THMM's) within our distribution system. Balancing these two requirements has continued to be challenging.

The District has been required to perform annual Perchlorate sampling on all of our wells. Perchlorates are substances that have been found in the drinking water supplies that have come in contact with explosive powders such as fireworks, gun powders or blasting products. All of our test results were below Mass DEP's MCL's (Maximum Contaminant Limits).

Water samples taken for analysis for Volatile Organic Compounds, which are monitored yearly for petroleum storage facilities, were taken at Wells #2, #3, Pierce Spring and Rawson Street during the 2nd quarter. All the samples taken during this period were found to have no detections of VOC's.

Nitrate samples 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.

Lead and copper samples were taken from 15 selected residence in the distribution system in September with the results meeting the current Lead and Copper requirements of the DEP. The District adds an ortho-poly phosphate product to the drinking water at the water tanks and at the #5 well to control the possibility of any lead or copper from leaching into the water in the plumbing residence.

Arsenic and Uranium is naturally occurring from the erosion of natural deposits in the bedrock of New England. Sampling at Wells #2 and #3 in Paxton and Well #5 in Leicester continues each quarter for arsenic. The water treatment Plant that was built in 2008 for Wells #2 and #3 in Paxton continues to meet the Arsenic MCL (Maximum Contaminant Limits) established by the EPA Safe Drinking Water Standards.

The treatment system for each of the wells has two vessels. This 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.

Arsenic is removed from the well water by passing the water through an iron-oxide impregnated resin. This Arsenic attaches to the resin. To clean the resin, the District removes and transports the resin to a regeneration facility in 35 cubic foot totes. The regeneration facility is located in Philadelphia, PA. Normal regeneration procedures require replacement of 10% of the media. The cost of replacement material is in excess of \$475 per cubic foot. Each treatment vessel at the Paxton wells holds approximately 36 cubic feet of resin.

Capital projects completed this year for the water system include the replacement of all water gate boxes on Rt.9. Upgrades to the Hyland Booster Pumps including replacement of Variable Frequency Drives and valves. Well #5 maintenance including pulling the well pipe/pump and hydrofracking. Three water leaks were repaired and one new water connection at 6 William Circle was installed. The District worked on getting approval from the Massachusetts Water Resources Commission to possibly purchase water from the City of Worcester. The Massachusetts Water Resources Commission concluded that the Interbasin Transfer Act does not apply to the proposed water purchase from the City of Worcester due to past legislation.

Future capital projects for the water system include repainting or replacing the north water tank at Carey Hill, roof replacement on Paxton Well houses #1, #2, #4. Upgrading the SCADA system. The District will be working with engineers on the design of a potential interconnection with the City of Worcester this project is part of our ongoing DEP Administrative Consent Order. The District is also working towards the Re-establishment of the Whittemore Street Well and design of an arsenic and uranium treatment system.

The Hersey radio read meters have continued to perform poorly with failure rates higher than 6 percent. We are currently replacing the Hersey meters with Badger E-Series, Ultrasonic Meters that read through a cellular connection. The software will allow us to have a customer portal that will allow customers to monitor their own usage. The District might go to monthly billing when all the new meters are installed.

In July 2019, the Twentieth Consumer Confidence reports were made available to the District which included information for the previous year 2018.

Each year the Consumer Confidence reports are made available to the residents 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 three 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.

The Commissioners hereby reminds our customers that conserving the use of water is a primary concern to the operation of our facilities. Use of water for lawn sprinklers is only permitted between the hours of 6 p.m. and 8 p.m. as stated in Article 12, Section 1 of the LWSD Rules and Regulations. Filling of swimming pools is only permitted after an application is completed and submitted to the District at 124 Pine Street also as stated in the LWSD Rules and Regulations. Use of water for all nonessential purposes should be avoided.

SEWER DEPARTMENT

In September 2010, the LWSD was issued a new, 5-year renewal of their National Pollution Discharge Elimination System (NPDES) permit. The major changes in the permit included a decrease in our discharge limit for Total Phosphorous, Total Recoverable Copper, Aluminum and Ammonia-Nitrogen. We continue to report quarterly for Total Kjeldahl Nitrogen, Total Nitrate and Total Nitrite. We continue to perform semi-annual testing for toxicity testing on our effluent.

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, semiannual sampling was conducted to determine Toxicity for Acute and Chronic species survival of the treated effluent from the WWTP. There were no exceptions during 2019.

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 2019, the District operations included 11 Waste Water Pump Stations, 5 Drinking Water Pump Stations and 3 Drinking Water Booster Stations in addition to the WWTP located at 124 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 in 2011 set aside funds to look at the overall health of the wastewater treatment plant. This study will be used to upgrade the plant in the future. Regulatory requirements, fatigue and breakdowns at the plant will mandate the order of future upgrades and maintenance at the facility.

This past year projects have included the replacement of all sewer manholes on Rt.9. Replace and install a new pump at Holcomb Pump Station. Five new sewer connections were installed at 1544 Main Street, 100 Waite Street, 1 Breezy Green Road, 122 Mannville Street and 6 William Circle.

Future projects will include the replacement of the roof for the main ops building. Construction of a new headworks building or refurbishment of the existing building; installation of biological phosphorous removal tankage ahead of aeration tank 1; replacement of mechanical aeration equipment with more energy efficient fine bubble aeration; replacement and upgrading of obsolete electrical components; emergency power generation upgrades; and upgrading of sludge de-watering facilities. These upgrades will allow us to assist the Town of Leicester in economic development areas.

The District currently employs three fully licensed wastewater treatment plant operators.

The Commissioners once again cautions the residents 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 Regulations.

Copies of the Rules and Regulations are available at the office or can be found on the Districts Web Site at LWSD.Net along with Notices, Applications and other District information.

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

**Minutes of the 131st Annual Meeting
Leicester Water Supply District
June 4, 2019**

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 June 4, 2019 at seven in the evening (7:00 pm), to act on the following Articles, viz:

Robert Wilson moved to appoint Harry Brooks to be the District Moderator for the meeting. J. Donald Lennerton, Jr. seconded. Voted unanimously.

The meeting was called to order at 7:00 p.m. by the Appointed District Moderator Harry Brooks after a quorum was declared with 10 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. Leonard Margadonna seconded. Voted unanimously.

ARTICLE 1: Leonard Margadonna made a motion to dispense with the reading of the Officers Reports as copies of the 131st 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 unanimously.

ARTICLE 2: J. Donald Lennerton nominated Leonard Margadonna for Water Commissioner for a term of three years. Motion was seconded by Robert Wilson seconded. and voted unanimously.

ARTICLE 3: Leonard Margadonna made a motion that the District vote to pay the District Officers as follows for the fiscal year beginning July 1, 2019.

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. Voted unanimously.

ARTICLE 4: Robert Wilson moves to see if the District will vote to raise and appropriate or transfer such sums of money as may be necessary to defray the expenses of the District for the fiscal year beginning July 1, 2019.

Water & Sewer Maintenance(R&A).....	\$ 1,290,249.48
Transfer from Sewer Development Account...	\$ 24,158.14
TOTAL.....	\$1,314,407.62

Grand Total.....\$1,314,407.62

Leonard Margadonna seconded and voted unanimously.

ARTICLE 5: J. Donald Lennerton, Jr 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, 2019, 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. Robert Wilson seconded. Voted unanimously.

ARTICLE 6: Robert F. Wilson made the motion to transfer from Route 9 West Account the sum of \$902,538.26 and transfer from Waite Street Account the sum of \$130,724.73 and transfer from the Sewer Development Account the sum of \$201,119.10 for a total of \$1,234,382.09. Leonard Margadonna seconded and voted unanimously.

MOTION: Robert Wilson made a motion to adjourn. Leonard Margadonna seconded. Voted unanimously.

The meeting was adjourned at 7:08 p.m. after a motion and a second was made. 10 legal votes attended the meeting.

Respectfully submitted,

Nancy L. Almeida
District Clerk
June 4, 2019

JULY 1, 2018 TO JUNE 30, 2019

RECEIPTS

2019

WATER REVENUE	\$616,909.97
SEWER REVENUE	\$523,043.40
INTEREST INCOME BANK ACCOUNTS	\$10,117.01
INTEREST INCOME INVESTMENTS	\$52,869.08
INTEREST WAITE LATERAL	\$1,193.98
INTEREST RT 9 LATERAL	\$6,201.48
OTHER CHARGES	\$100,784.03
WATER CONNECTION FEES	\$2,657.27
SEWER CONNECTION FEES	\$26,712.38
WATER ASSESSMENTS	\$14,373.70
SEWER ASSESSMENTS	\$38610.60
BETTERMENT COLLECTIONS	\$38256.91
BETTERMENT INTEREST	\$19540.82
NATIONAL GRID RENTAL	\$7,678.00
HILLCREST SEWER INSPECTION FEES	\$210.00

TOTAL RECEIPTS \$1,459,158.63

DISBURSEMENTS

WATER MAINTENANCE	\$529,171.16
SEWER MAINTENANCE	\$565,663.95
MATURING DEBT	\$1,421,598.00
INTEREST ON DEBT	\$238,691.79
WORCESTER COUNTY RETIREMENT	\$44,900.00
ART #6 6-7-16 WATER TREATMENT MEDIA	\$0.00
ART #6 6-6-17 WATER TREATMENT FACILITY STUDY	\$3,158.70
ART #6 6-5-18 REHABILITATION OF WELL #5	\$0.00
ART #7 6-5-18 INFLOW & INFILTRATION	\$31,160.50

TOTAL DISBURSEMENTS \$2,834,344.10

ANALYSIS OF CASH

WATER DEVELOPMENT	\$136,294.62
SEWER DEVELOPMENT	\$1,755,869.17
WATER & SEWER RATE RELIEF	\$244,602.80
SEWER STABILIZATION ACCOUNT	\$67,584.45
RT 9 W. SEWER LATERAL	\$1,147.40
WAITE/CHAPEL LATERAL	\$191.37
DEPOSIT IN TRANSIT	\$34,866.50
ART #6 6-7-16 WATER TREATMENT MEDIA	\$30,327.34
ART #6 6-6-17 WATER TREATMENT FACILITY STUDY	\$97,656.27
ART #6 6-5-18 REHABILITATION OF WELL #5	\$18,092.53
ART #7 6-5-18 INFLOW & INFILTRATION	\$29,792.45
TOTAL ANALYSIS OF CASH	\$2,416,424.90
SURPLUS REVENUE	\$1,478,797.00
TOTAL	\$937,627.90

GENERAL DEBT

WAITE SEWER LATERAL	\$339,154.00
RT 9 W. SEWER LATERAL – PAID OFF	\$0.00
C.W.M.P SERIAL ISSUE	\$168,414.34
DEP WATER PROJECT LOAN	\$300,000.00
TOTAL GENERAL DEBT	\$807,568.34

RESPECTFULLY SUBMITTED
DEBRA A. WILSON
DISTRICT TREASURER
JUNE 30, 2019

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

OFFICERS 2019

*Board of Water Commissioner's
Robert F. Wilson - 2017-2020
J. Donald Lennerton, Jr. - 2018 -2021
Leonard G. Margadonna – 2019-2022*

*District Treasurer
Debra A. Wilson 2017-2020*

*District Clerk
Nancy L. Almeida 2017-2020*

*District Moderator
Vacant*

*Certified Public Accounting Auditors
Borgatti Harrison & Co.*

*Superintendent
Joseph H. Wood*

Annual Meetings – First Tuesday in June.

*Commissioners Meetings
Third Thursday of the Month - 4:00 PM
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*

*This Institution is an equal opportunity provider. To file a complaint of
discrimination write USDA, Director, Office of Civil Rights,
Washington, DC 20250-9410*