

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-third Annual Report for the year ending Dec. 31, 2020.

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.

One hundred ninety-eight (198) count of coliform bacteria, which is an indicator bacteria, was found at well #3 - raw water (RW 03G) and twenty eight (28) count of coliform bacteria was found at well #3 - finish water in February 2020. Required follow up testing for well #3 - raw water came back with three hundred and twenty-five (325) count of coliform bacteria and zero coliform bacteria for well #3 - finish. Another round of required follow up testing was completed and all samples 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 pulling/ replacing 800 feet of three phase power lines from the WWTP to #5 wellhouse. SCADA radio communications/ PLC upgrades were started, the radio and PLC at the water towers was replaced. The roofs at wells #1, #2 and #5 were replaced. Master meters at #2, #3, #5 and the water towers were replaced. Well #2 well pump, motor and pipe were pulled and all new was installed to a deeper depth of 480 Feet. Consulting with a hydrogeologist (NGI) for well #5 to try and establish a better yield. Consulting with Wright-Pierce Engineering to start the design of an interconnection with the City of Worcester, the design should be completed by fall of 2021. The District applied for a grant through the Water Management Act Grant Program and was awarded a \$92,000.00 grant to conduct an alternative source evaluation, the report will be completed by June 30 2021. Three water leaks were repaired and one new hydrant was installed at Main and Grove Street's. Two new water connections at 706 and 708 Main Street were made this year.

Future capital projects for the water system include repainting or replacing the north water tank at Carey Hill. Continuing to upgrade the SCADA system radio and PLC's at pump stations including a new SCADA computer and software. The District will continue working with Wright- Pierce Engineering on an 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 2020, the Twenty-first Consumer Confidence reports were made available to the District which included information for the previous year 2019.

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 and 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.

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 2020.

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 2020, 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 replacement of pump/ pump casing at Homestead Lane pump station. Replacement of pump and control cabinet wiring at Rawson Street pump station; SCADA radio communications/ PLC upgrades were started, the main radio receiver at the WWTP was replaced and also Main Street, Waite Street and Holcomb Street Pump Station radio and PLC were replaced. New aerator controls were brought over to a new PLC and electrical cabinet at the WWTP. Repairs were made to the sludge de-watering facilities and also to clarifier #2 at the WWTP. The District applied for a grant through the State Revolving Fund and was awarded a \$45,000.00 grant to conduct an asset management plan for the sewer system. Two new sewer connections were installed at 7 Felix Street and 66-68 Rawson Street.

Future projects will include the replacement of the roof for the main ops building. Continuing to upgrade the SCADA system radio and PLC's at pump stations including a new SCADA computer and software. Refurbishment of the existing headworks 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 of the existing clarifiers with larger ones; 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 132nd Annual Meeting Leicester Water Supply District
June 23, 2020**

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 23, 2020 at seven fifteen in the evening (7:15 pm), to act on the following Articles, viz:

Robert Wilson moved to appoint J. Donald Lennerton to be the District Moderator for the meeting. Leonard Margadonna seconded. Voted unanimously.

The meeting was called to order at 7:15 p.m. by the Appointed District Moderator J. Donald Lennerton 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: Robert Wilson made a motion to dispense with the reading of the Officers Reports as copies of the 132nd 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: Leonard Margadonna nominated Robert F. Wison for Water Commissioner for a term of three years. Motion was seconded by J. Donald Lennerton 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, 2020.

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, 2020.

Water & Sewer Maintenance(R&A).....	\$ 1,334,083.88
Transfer from Sewer Development Account...	\$ 25,125.61
Transfer from Free Cash to Water Engineering Line Item.....	\$ 100,000.00
TOTAL.....	\$1,532,267.55

To transfer from the Waite Street, Massasoit , Rural, Chapel Sewer Lateral Account To Maturing Debt (Principal).....	\$30,834.00
To Interest on Debt (Interest).....	\$15,801.40
TOTAL	\$46,635.40

Leonard Margadonna seconded and voted unanimously.

ARTICLE 5: Leonard Margadonna 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, 2020, 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 the Principal \$30,834.00 and Interest \$17,215.64 for a total sum of \$48,049.64, from the Waite Street, Massasoit, Rural, Chapel Sewer Lateral Account to the 2020 Operating Budget to defray the expense of the District for the fiscal year beginning July 1, 2019.

Leonard Margadonna seconded and voted unanimously.

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

The meeting was adjourned at 7:20 p.m. after a motion and a second was made. 10 legal votes attended the meeting.

Respectfully submitted,
Nancy L. Almeida
District Clerk
June 23, 2020

JULY 1, 2019 TO JUNE 30, 2020

RECEIPTS	2020
WATER REVENUE	\$632,689.08
SEWER REVENUE	\$538,490.41
INTEREST INCOME BANK ACCOUNTS	\$5,249.76
INTEREST INCOME INVESTMENTS	\$55,529.28
INTEREST WAITE LATERAL	\$161.57
OTHER CHARGES	\$97,786.87
WATER CONNECTION FEES	\$13,750.00
SEWER CONNECTION FEES	\$23,861.53
WATER ASSESSMENTS	\$32,681.95
SEWER ASSESSMENTS	\$36,922.20
BETTERMENT COLLECTIONS	\$67,861.56
BETTERMENT INTEREST	\$27,936.02
NATIONAL GRID RENTAL	\$7,892.50
GRANT MONIES	\$40,400.00
TOTAL RECEIPTS	\$1,581,212.73

DISBURSEMENTS	
WATER MAINTENANCE	\$617,585.33
SEWER MAINTENANCE	\$585,718.71
MATURING DEBT	\$51,905.00
INTEREST ON DEBT	\$26,497.78
WORCESTER COUNTY RETIREMENT	\$42,193.00
ART #6 6-7-16 WATER TREATMENT MEDIA	\$0.00
ART #6 6-6-17 WATER TREATMENT FACILITY STUDY	\$0.00
ART #6 6-5-18 REHABILITATION OF WELL #5	\$16,554.69
ART #7 6-5-18 INFLOW & INFILTRATION	\$3,839.50
TOTAL DISBURSEMENTS	\$1,344,285.01

ANALYSIS OF CASH

WATER DEVELOPMENT	\$136,938.99
SEWER DEVELOPMENT	\$1,765,237.95
WATER & SEWER RATE RELIEF	\$245,674.78
SEWER STABILIZATION ACCOUNT	\$67,903.96
WAITE/CHAPEL LATERAL	\$49082.28
DEPOSIT IN TRANSIT	\$7521.60
ART #6 6-7-16 WATER TREATMENT MEDIA	\$30,470.72
ART #6 6-6-17 WATER TREATMENT FACILITY STUDY	\$98,117.95
ART #6 6-5-18 REHABILITATION OF WELL #5	\$1,616.42
ART #7 6-5-18 INFLOW & INFILTRATION	\$187.72
TOTAL ANALYSIS OF CASH	\$2,402,752.37
SURPLUS REVENUE	\$1,648,852.00
TOTAL	\$753,900.37

GENERAL DEBT

WAITE SEWER LATERAL	\$277,488.00
C.W.M.P SERIAL ISSUE	\$113,910.00
DEP WATER PROJECT LOAN	\$250,000.00
TOTAL GENERAL DEBT	\$641,398.00

RESPECTFULLY SUBMITTED
DEBRA A. WILSON
DISTRICT TREASURER
JUNE 30, 2020

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

OFFICERS 2020

*Board of Water Commissioner's
Robert F. Wilson - 2020-2023
J. Donald Lennerton, Jr. - 2018 -2021
Leonard G. Margadonna – 2019-2022*

District Treasurer

Debra A. Wilson 2020-2023

District Clerk

Nancy L. Almeida 2020-2023

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