

Water Supply Update

Serving the Community of Oxford

News and Notes

- 💧 In accordance with requirements from the Department of Environmental Protection (DEP), work is proceeding on the North Main Street Well program to reduce groundwater manganese levels at this wellfield. This multi-year project is evaluating two options to address source water manganese levels at the North Main Street wellfield: 1) treatment and 2) replacement with a new source. Exploratory Test Drilling in 2019 identified one potential site for the development of a new groundwater supply along the French River off Harwood Street in the vicinity of Old Webster Road. We are continuing to complete hydrological evaluations of the aquifer and planning to complete some additional exploratory drilling this year. With respect to the treatment option, we are planning to complete a conceptual design report this year for siting a filtration treatment facility at the N. Main Street wellfield. Implementation of either DEP required option will result in a significant capital investment. For this reason Aquarion is evaluating low interest loan and grant programs to reduce the impacts to our rate payers.
- 💧 Plans to upgrade the pumping facilities at Nelson Well #3 were fast tracked this spring after the well was taken off line for cleaning and redevelopment. While cleaning and rehabilitating the Nelson Street Well #3 this past March, an inspection of the pump and well piping indicated significant deterioration. As a result Aquarion completed a design/build project, partnering with our well driller and electrician to furnish and install a new 100 HP pump with variable speed controls, increasing the design capacity to 730 gallons per minute (gpm). The original pump consisted of a 60 HP pump with a capacity of 450 gpm. This new higher capacity pump increases the production capacity of our system allowing a greater margin of safety. As part of our new source project described above, we are also evaluating the installation of a second groundwater supply well at the Nelson Street Site. This project is being considered as a third option for addressing the source water manganese levels at our N. Main Street Wellfield.
- 💧 Plans to begin design work on the replacement of approximately 1,000 ft of 6' diameter asbestos cement pipe on Church Street with new 8" ductile iron pipe. Construction of this project is targeted in the fall.
- 💧 This June we will be flushing the distribution system in North Oxford to clean out the water mains. We placed an advertisement in the newspaper and additional details regarding the program including our daily flushing schedule will be available on our website:



Stewards of the Environment™

www.aquarionwater.com (the alert section includes the schedule). This program is being undertaken to ensure customers continue to receive the highest quality water.

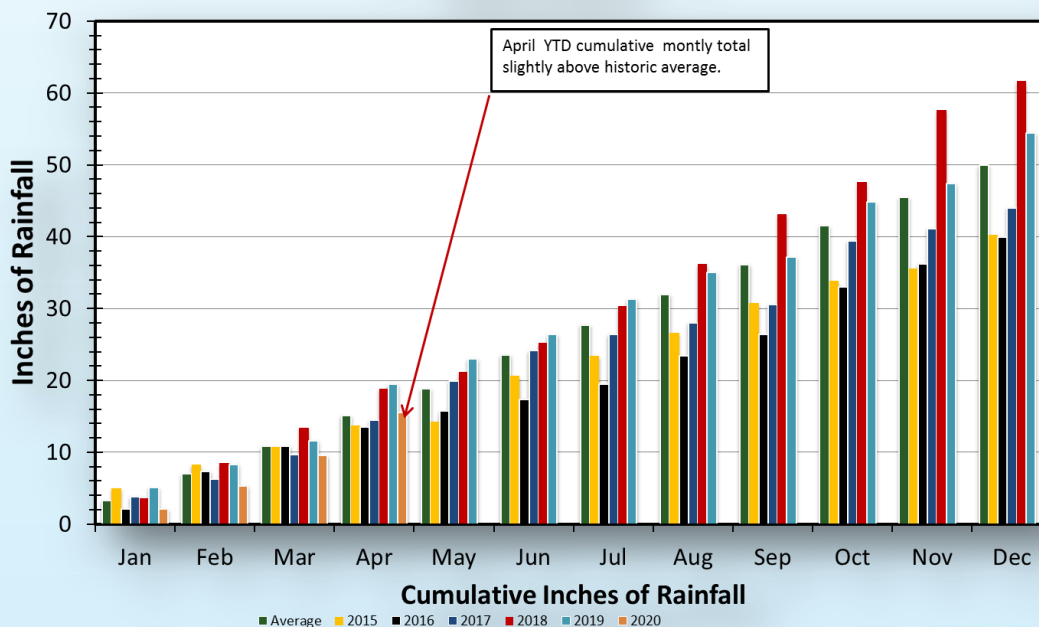
- Based on the current Covid-19 pandemic, we had to cancel our March Customer Advisory Board meeting at Pine Ridge Country Club. We are hopeful that conditions will improve and we can hold our next meeting this fall. The meeting we will review our 2020 capital improvements and plans for 2021.
- Community Outreach: This past March we conducted a training session with the Fire Department regarding the hydraulics of our water system. The Fire Department received a pressure map of the water distribution system and learned about our computerized hydraulic model. We also enjoyed paying tribute to the former Fire Chief at an informal retirement gathering in February. We are currently working with the Town Manager regarding a monetary donation and services for the Downtown Beautification initiative. Other recent donations include the Oxford Little League and the Barton Center for Diabetes Education.



Weather Trends

Total precipitation through April 30, 2020 was 15.55 inches, which is 0.43 inches above average for this time of year. In April 2020 we received 5.98 inches of precipitation which is 1.68 inches above the historic average for the month of April. Groundwater levels are seasonally high which is normal for this time of year.

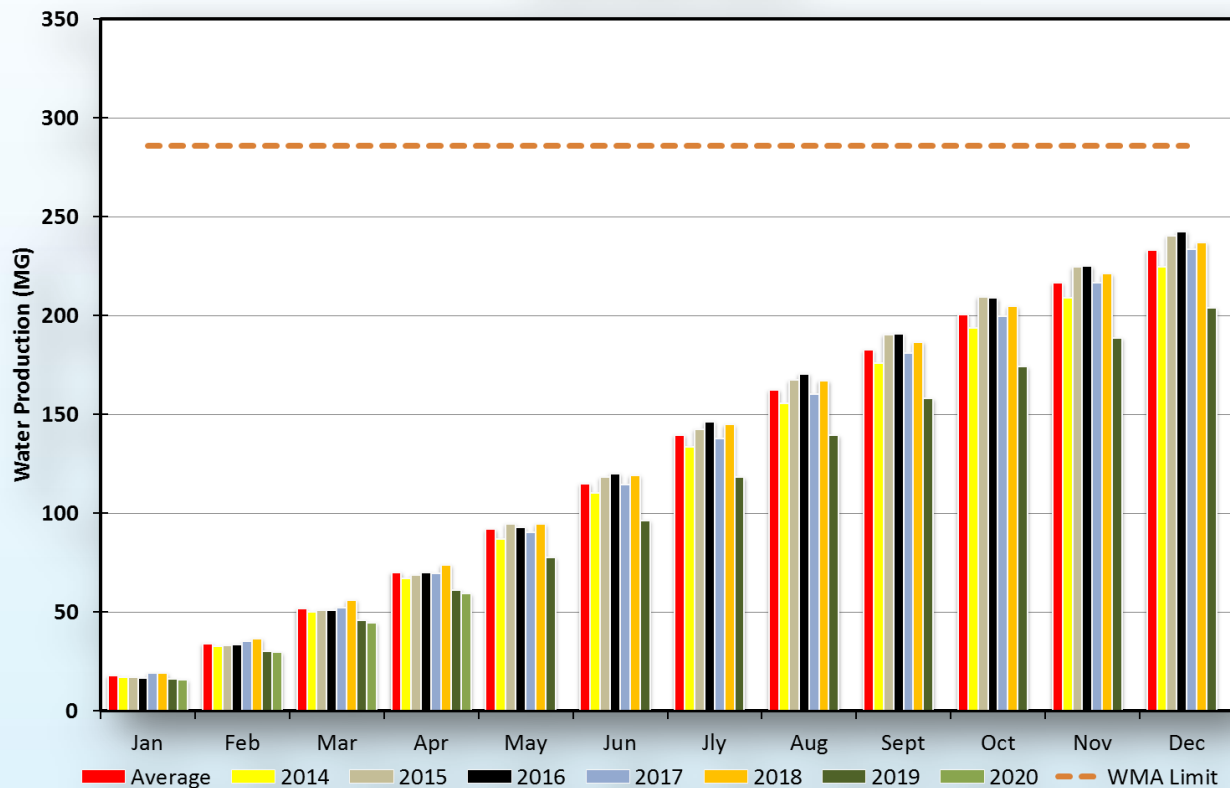
**Aquarion Water Company, MA
Cumulative Monthly Rainfall
Millbury/Oxford**



Water Supply and Demand

The average annual water demand through April 2020 is 0.49 million gallons per day (MGD), which is approximately 90,000 gallons per day lower than the historic annual average at this time of year. The water demand for the month of April 2020 was 0.491 MGD, which is approximately 119,000 gallons per day below the average usage for April. As most people are aware, it was a fairly mild winter but cold and wet spring. This likely contributed to the decrease in seasonal water demands through April. We are confident that we will continue be able to meet our customer's needs. Some statistical pumping information for the month of April 2020 is attached separately to this Water Supply Update.

**Aquarion Water Company
Cumulative Monthly System Delivery (MG)
Oxford Water System**



Customers are reminded to practice water conservation. For helpful water conservation tips, please visit our website:

<http://www.aquarionwater.com/MA/waterconservation>

**Aquarion Water Company, MA
Monthly Water Supply Report
Oxford**

**Month
April** **Year
2020**

Monthly Supply Pumping Summary

N. Main St Well #1A	0.00	MG	0.0%
N. Main St Well #1	3.23	MG	21.9%
N. Main St Well #2	11.50	MG	78.1%
Nelson St Well #3	0.00	MG	0.0%
	14.73	MG	100.0%
	0.491	MGD	

Precipitation

Monthly Total (Inches)	5.98
Annual Total (Inches)	15.55

Statistics

Pumping

Maximum Day (MGD)	0.640
Date	04/28/20

Minimum Day (MGD)	0.330
Date	04/21/20

Year to Date

Maximum Day (MGD)	0.817
Date	01/05/20

Average Day (MGD)	0.490
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