WILMINGTON WATER DEPARTMENT



New chains and rakes for sedimentation basin 1-A installed by Water Dept. employees.

In 2015 the Wilmington Water Department treated an average daily flow of 1.752-MG (Million Gallons) and experienced a maximum day of 2.424-MG. The plant delivered to the distribution system a total of 545-MG of water in 2015 to 5004 customers.

The following water sources were used during the year.

Source	Beginning	Ending
Caesar Creek Lake	1/1/15	12/31/15
Burtonville Reservoirs	4/2/15	10/31/15

The Burtonville Reservoirs held approximately 336.483-MG of water as of December 31, 2015 The Water Department had 10 water mains shut down for repairs and 10 boil advisories. There were 3 new lines installed and approved.

The following Divisions have been busy during 2015. Here is an outline of the activities.

Water Plant and Lab Division

- All required analysis of the city's drinking water was performed according to Ohio and U.S. EPA rules and regulations.
- We composed and posted on the city's website the Consumer Confidence Report as required by EPA. We hand delivered 756 CCRs to apartment owners.
- As of December 31, 2015, a total of 376 bacteriological samples were tested in the Water Plant's laboratory. There were 150 monthly system samples, none of which tested total coliform positive. A total of 10 boil advisories caused by either broken mains or water main maintenance resulted in 34 samples to be tested. A total of 3 new line approvals caused 14 samples to be tested.
- The amount of treatment chemicals used as of December 31, 2015 were:

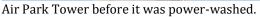
\triangleright	Pebbled Lime (softening)	389 tons
\triangleright	Alum (coagulant to remove solids)	149 tons
\triangleright	Carbon (taste and odor control)	16 tons
\triangleright	Potassium Permanganate (pretreatment)	0 tons
\triangleright	Carbon Dioxide (pH adjustment)	56 tons
\triangleright	Chlorine (disinfectant)	9 tons
\triangleright	Polyphosphate/orthophosphate	6 tons
	(corrosion control)	

- Water Plant, Reservoir, Booster Station, and Tower maintenance performed:
 - 1. Installed new rakes and chain in 1A basin.
 - 2. Repaired High Service pump 2A
 - 3. GA valve solenoids and limit switch repaired on 2B High service pump.
 - 4. Replaced meter head on water plant's raw water meter.
 - 5. Pulled #2 Caesar Creek raw pump and had inspected and refurbished.
 - 6. Replaced main cable leads to #2 raw water pump at Caesar Creek Lake pump station.
 - 7. Pressure washed exteriors of Airpark and Fairground towers
 - 8. Replaced VFD on #1 Raw Water pump located at Caesar Creek Pump Station.

- 9. Buckeye Engineering prepared inundation maps for Burtonville reservoirs.
- 10. Replaced seal on valve to 1A high service pump
- 11. Installed 4 new battery back-ups on SCADA and tower telemetry
- 12. Repaired rakes and chain in #2A basin
- 13. Replaced mixer blades in both lime slakers
- 14. Replaced sump pump in 68 tower pit
- 15. Installed new telemetry system and dehumidifier in raw water control box
- 16. Replaced chlorination flow meters to clear well.
- 17. Relocated Caesar creek generator batteries to pump station basement.

Distribution Division







Air Park Tower after being power-washed

The Distribution Crew worked on the following.

Task	Quantity
Fire hydrants flushed	250
Fire hydrant repaired/replaced	7
Fire hydrants painted	0
Water main repairs	11
Service line leak repairs	2
Meter pit repairs	0
Old service lines abandoned	4
Yard restorations	11
Curb box repairs	20
Water line locations flagged	720

Main valves repaired/replaced	5
Valves exercised	450
Water taps made	3
Curb stops replaced	6
Road boxes repaired	6
Service lines replaced	24
Approximate water used by crews for	34-MG
flushing	

Utility Billing Office/Customer Service

- There were 596 disconnects for nonpayment and 471 reconnects.
- There were 1181 service transfers.
- There were a total of 3856 customer services completed in 2015.
- Customer Service changed approximately 165 meters with new ones.
- Customer Service installed 7 meters for new customers.
- We sold 440-MG of water to customers.

Submitted by:

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