



City of Casselberry

Public Works – Water Production Division

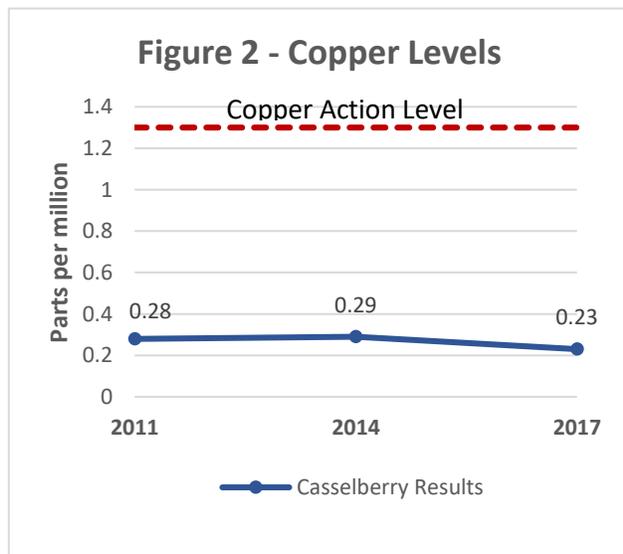
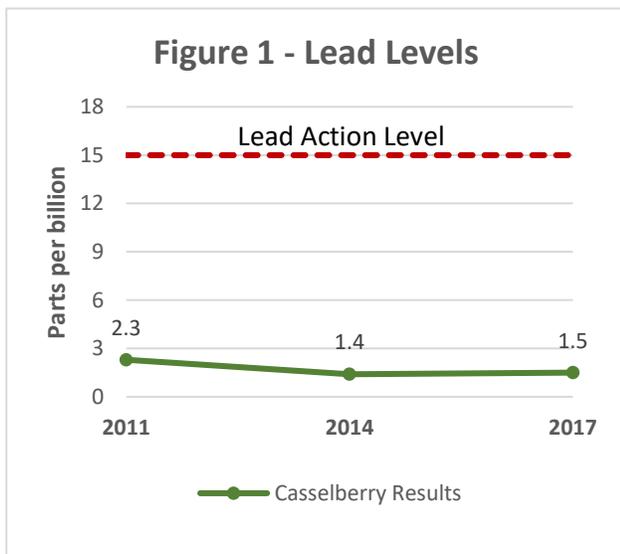
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City of Casselberry Water Quality Parameters

The City of Casselberry and the Florida Department of Environmental Protection (FDEP) have a set of Water Quality Parameters established for the City's drinking water system. These Water Quality Parameters allow us to more efficiently monitor the drinking water system for its potential to corrode lead and copper pipes. From May 8 to June 5, 2019, the alkalinity of our drinking water fell below the established range of 90-150 mg/L CaCO₃ equivalent, with the lowest recorded value being 82 mg/L CaCO₃ equivalent. This resulted in a violation of the City's Water Quality Parameters with FDEP. During this time period, no deviations from regular treatment were made and all other Water Quality Parameters were within their established range.

Alkalinity levels outside the established range can impact the effectiveness of the corrosion control additive the City uses in its drinking water. This corrosion control additive prevents metals, such as lead and copper, from entering into the water distribution system via pipe corrosion. Lead and copper piping can be found within the plumbing and fixtures of older homes as well as in older service lines. It is possible that during the period of lowered alkalinity, trace amounts of lead and copper from household fixtures and plumbing may have corroded into the drinking water. It is unknown how much, if any, may have corroded, but levels would not be such that it would be considered an emergency.



*Note: Per the Florida Department of Environmental Protection, the City of Casselberry has only been required to conduct Lead and Copper Analysis once every 3 years.

Lead and Copper Health Effects

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

As shown in Figure 1 and Figure 2, the City of Casselberry has not exceeded the lead or copper action levels in past sampling events.

What Happens Now

Since the system already returned to compliance on June 5th, no action needs to be taken by consumers at this time and no alternative water supplies are needed. As a result of this incident, we will be conducting additional lead and copper testing at residences. A letter will be sent out shortly asking residents whose homes may qualify to consider participating in the testing. Additionally, we will be conducting an alkalinity study to determine whether the established Water Quality Parameters need to be adjusted. We prioritize the safety of our drinking water and will be conducting a thorough investigation to prevent this incident from happening again in the future.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail. If you have any questions or would like more information, please contact:

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Water Production Superintendent

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