

Village of Yorkville

Public Water System Lead (Pb) Components

PWS ID OH-41033112

Prepared February 2017

To comply with Section 6109.21 of the Ohio Revised Code, enacted in September 2016, The Village of Yorkville in Jefferson County, Ohio has created the following report and attached map to identify known and potential components of its public water system that contain lead (Pb).

Service Lines and Ownership

The Village of Yorkville distributes water to approximately 530 connections. The Village owns and maintains service lines from the water distribution mains up to the curb stops. The also own meters inside of the buildings. The remainder of each service line from the curb stop to the building is the responsibility of the property owner. The line from water main to the curb stop at property lines is typically copper. No galvanized steel services exist on the public side.

One lead service line was found and replaced at 343 Jones Avenue approximately 20 years ago, and no lead lines have been discovered since. In the oldest section of town at the south end, there are areas where the service line materials are unknown. This includes South West of Market St., Jones St., St. Clair Ave. and Highland Ave. Since the original construction of the water system in the late 1930's, lead pipe has never been installed in this distribution system on the public side. While lead solder may have been used in the installation process for some of the private copper and galvanized service lines, this is not uncommon and there are no lead pipes used.

Distribution System

The Village of Yorkville produces treated ground water from two separate wells around the treatment plant, and distributes it through approximately 6.43 miles of water main lines with varying pressures from 87-91 psi throughout the system. The two wells operate within a three month alternating schedule and pump out anywhere between 115,000 gallons to 130,000 gallons per day in the winter, and up to 170,000 gallons per day in the summer. Since the original construction in the late 1930's, some sections have been replaced with PVC material after 1996, and during emergency repairs when necessary. Within the distribution system, none of the pipes themselves are known to contain any lead; however, there are joints within the system that contain lead solder and throughout the system lead and rubber packing in the bell joints. Pipe sections which may contain lead in the joints or valves are highlighted in orange on the attached map. The following table shows which lines may or may not have lead solder or fittings according to pre or post regulations.

Probability of Lead Solder and Fittings in Water Main		
Lead in Water Main Materials	Miles of Pipe	% of System
Probable (material typical pre-1998)	5.54	84.75
Improbable (material typical post-1998)	0.89	13.84

Also, the water meters at each customer location as old as 2012 and may contain less than 8% lead. There are meters installed before 1998 which may contain more than 8% lead. Meters installed after 2014 will have less than 0.25% lead. A small percentage of meters for the Village of Yorkville, approximately 4%, are older and no longer approved due to possible lead content. These meters are slowly being replaced. The remaining 96% of meters are Badger Meters that have been slowly installed since 2002.

Indoor Plumbing

Buildings in Ohio built prior to 1998 or that use plumbing material or solder manufactured before 1998 may have materials with greater than 8% lead and are at a higher risk of contributing lead to the drinking water than materials manufactured after 1998.

Buildings built and plumbing materials manufactured after 2014 were required to have less than 0.25% lead by weight and have the lowest risk for contributing lead to the drinking water. It should be noted however that, although prohibited, some use of leaded solder or leaded components may have occurred after the prohibitions became effective.

In the Village of Yorkville, there is one known structure built since 2014, and therefore nearly all buildings in the district may have some lead in the solder or fixtures. If a service line is replaced, it is required to have $\frac{3}{4}$ " copper or $\frac{3}{4}$ " PVC with a minimum of 200 psi. The Village Water Department employees inspect the work and service lines before they are covered to make sure any new services are within EPA regulations.

The table below provides information about the possibility of lead service lines and use of leaded plumbing materials to the customers Yorkville serves.⁴

Private Service Line Lead Probability		
Possibility of Lead	Private #	% of System
Non-Lead	14	3.34%
Low Probability	149	35.56%
High Probability	256	61.09%

Customer Self-Reporting

The information on this map regarding privately owned service lines is based on the limited information from the water system staff and Jefferson County building and parcel data. Property owners are encouraged to inspect their own service lines entering the building if these are in anyway exposed, and notify the Village of Yorkville if they have determined whether or not a lead service line exists. Please contact the water department billing clerk by calling 740-859-5171 or sending an email to bshmozie@hotmail.com . A representative from the water department will contact you to confirm and update this information for the next map release.

Contacts and Resources

If you have questions about known and potential lead components within the Yorkville Public Water System, please contact:

Christian Mozie, Operator
139 Market St.
Yorkville, Ohio 43971
740-859-5171
bshmozie@hotmail.com

For more information about lead service lines and their removal, we recommend the following resources:

- **The Lead Service Line Replacement Collaborative**
<http://www.lslr-collaborative.org/resources-for-concerned-consumers.html>
- **Ohio EPA 'Learn About Lead' page**
<http://epa.ohio.gov/pic/lead.aspx>
- **US EPA Lead in Drinking Water Information Page**
<https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>

Village of Yorkville Public Water Distribution System Lead Components and Lead Service Lines Map



On the public side, lead service lines have never been installed. The Village does not know for certain in most cases what property owners used on the privately-owned side of the service lines. Customers are encouraged to inspect and report to the water department what materials are used for their service lines from the curb stop into the building if the pipe is in any way exposed as it enters the building before the meter, or if it is ever excavated.

T-109

Probability of Lead Services

Yorkville, Ohio
Water System
Jefferson, County
PWS ID OH 4103112

Lead Probability

Private / Public

- High Probability
- Low Probability
- No Probability

Main Line

- Cast Iron (CAS)
- Polyvinyl Chloride (PVC)
- Parcels
- Boundary

0 380 760 Feet



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This map does not verify the presence of lead in any of the lines or structures shown. This map only shows the probability of lead locations based on the year that the structure was built, historical maintenance and operation records, and customer or utility staff verification. Information and data contained or accessed within this map emanates from various public and private sources and may contain errors and omissions. This map remains under development and is subject to change with or without notice. Sources: QGRIP, Jefferson County Auditor, RCAP GIS, Datum/Projection: NAD 1983 Ohio State Plane North (ft) Date: 3/06/2017 WSOS and its employees, affiliates, agents and licensors cannot and do not warrant the accuracy, completeness, non-infringement, merchantability or fitness of any information contained within this map.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Lead and Copper Sample Sites

Yorkville, Ohio
Water System
Jefferson, County
PWS ID OH 4103112

Tier Site

★ Tier 1

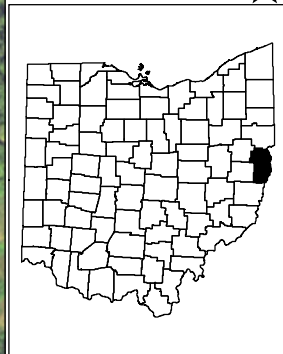
★ Tier 3

— Water Mains

□ Parcels

□ Boundary

0 375 750 Feet



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