

Village of Millersburg, Ohio Public Water System Lead (Pb) Components PWS# OH-3800912 Prepared March 2017

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

RCAP staff and the Millersburg water department met on February 6th, 2017 to review possible presence of lead in the service area. Applicable historical maintenance and operational records were consulted along with limited as-built construction maps. The water department has maintained a set of notes and drawings, similar to tap cards, which show the location of curb stop valves and other features throughout the water system. These cards are primarily used for recording details of water and sewer work that has been done in the past, however, in rare cases the service line material is noted (see attached sample page, NE029). In addition, operators with extensive experience and knowledge of the system were present to provide firsthand accounts of the system. Existing maps and historical maintenance knowledge are the basis of the institutional memory for the water distribution system. Lead component findings were identified by Millersburg water operators and recorded in a GIS database.

Service Lines and Ownership

The Millersburg water department distributes water to 1,375 customers amongst approximately 1,350 parcels. The system owns and maintains service lines from the water distribution main to the curb stop valve. The length of service line from the curb stop valve to the meter is owned and maintained privately by the property owner. The majority of publicly owned and the private portions of service lines are a mix of copper, CTS plastic, galvanized, and lead. Some public-side service lines are known to be lead, however, it is not believed that there are any private service lines that are made of lead.

Historically, ${}^{3}/{}_{4}{}''$ (or larger) type K copper pipe has been installed from the tapping saddle on the main up to the curb stop in most cases. The codified ordinances of Millersburg provides a regulation that mandates the use of type K copper (see <u>Codified Ordinances of Millersburg</u>, <u>Ohio</u>, <u>Part Nine</u>, <u>ordinance 925.16</u>) for private water service lines. Current rules and regulations were last updated in 2011. In recent years it has also been acceptable to install CTS plastic (rated for 200 psi) for private water service lines, on a case by case basis at the discretion of the water department. Experienced operators currently in charge of maintaining the water distribution system replace lead service lines if they are exposed for any reason. The attached map shows the probability of each service address having a lead service line based on the places where lead service lines have been found and replaced. Some of these services are known based on the year of installation; others are based on what has been found during past repair and maintenance projects.



Distribution System

Millersburg water department produces treated ground water and distributes it through approximately 24.5 miles of water main lines. The water distribution system was constructed between the 1930's and 2016. The system was constructed using copper, cast iron, ductile iron, galvanized steel, SDR 21 PVC, and c900 PVC water pipe (all piping between 1" and 10"). Portions of the original cast iron remain and the system has few maintenance problems in the oldest pipes of the system. The oldest sections may have leaded joints, though this has never been confirmed. Currently, the Millersburg water department treats its water with orthophosphate to prevent the entry of dissolved lead into the drinking water.

Water Meters and Indoor Plumbing

Some of the customer water meters may contain lead. The Village of Millersburg does meter replacement as needed. While a few meters have been replaced in recent years, it is likely that the majority of meters contain >8% lead.

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.

According to Holmes county auditor records, 8 structures have been built in Millersburg since 2014. Those 8 structures should be completely free of plumbing with components containing greater than 0.25% lead, Nearly all other buildings in Millersburg may have some percentage of lead in the plumbing components. The buildings that are most likely to contain a high percentage of plumbing with lead in it are in the historic district. Many of the buildings downtown Millersburg have been renovated since their original construction. Records are difficult to obtain for renovation projects, however, it is the buildings in the historic business and residential districts that are most at risk, and their owners are highly encouraged to inspect and self-report lead findings.

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 Holmes 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 Millersburg water department if they have determined whether or not a lead service line exists. Please contact the village office by calling (330) 674–1886, emailing Nathan.troyer@millersburgohio.com or kevin.vaughn@millersburgohio.com, or visiting the office at 6 North Washington Street, Millersburg, Ohio, 44654. 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 Village of Millersburg Public Water System, please contact:

Millersburg Municipal Offices

Phone (330) 674-1886

Email nathan.troyer@gmillersburgohio.com or kevin.vaughn@millersburgohio.com

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

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



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

The following map(s) does not verify the presence of lead in any of the lines or structures shown. This map only shows the probable or possible locations based on the year that the structure was built, historical maintenance and operation records, and customer or utility staff verification.

This map is not intended for design engineering, surveying, or construction purposes. Information and data contained or accessed within this map emanates from various public and private sources and may contain errors and omissions

All data, information and documentation within this map are provided "as is" without warranty of any kind, either expressed or implied. The suitability of the data and information contained in this map is not guaranteed, and the user assumes all risk for such uses. WSOS Community Action 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.

GIS Data Sources: OGRIP, OSIP, Holmes County Auditor, RCAP GIS. Datum/Projection: NAD 1983 Ohio State Plane South (ft) Date: 3/1/2017





Millersburg Water Service Area



Millersburg Water Service Area



Line is Known

Lead

Non-Lead

Page

East

Shown:

3 of 5

Determined by maintenance history

Millersburg Water Service Area

Very High

Moderate

Low

In addition, 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.

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet





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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.

In addition, 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.

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet



5 of 5

Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Data Sources: Village of Millersburg, Holmes County, RCAP GIS Team, ESRI, OGRIP, OSIP, TIGER Lines

Millersburg Water Service Area

Low

925.16 SERVICE CONNECTIONS.

(a) No person except an employee of the Water Department shall be permitted to tap and make any connection with the mains or distribution lines of the Water Department. All connections from the Village water main, including but not limited to lines, valves, cross connections and backflow preventers must comply with Ohio EPA rules and regulations.

(b) The Water Department shall furnish the corporation cock, curb cock, curb cock box and the copper tubing or tubing approved by the Village from corporation cock to the curb cock.

(c) The property owner shall connect his service line to the curb cock and leave the line exposed to the meter connection until tested and approved by the Water Department pursuant to Section <u>925.06</u>.

(d) All lines between curb cock and meters shall be of Type K copper or approved by the Village. Repairs to existing lines shall be made of copper or the entire lines shall be replaced after inspection and at the discretion of the Water Department.

(e) Any service between the main and curb cock which is broken or damaged by anyone other than an employee of the Water Department while performing work at these connections shall be exposed by trenching at the cost of the property owner. Repairs shall be made by the Water Department at the expense of the property owner.

(f) No arrangements shall be allowed whereby there may be any possibility of rain, river or other water flowing into the Water Department lines.

(g) No service pipe connected with the Millersburg water supply shall be connected with pipes supplied with water from any other source so as to allow any pumpage from flowing to the Water Department lines. No cross connections are permitted unless approved by the Village. Any cross connecting must have back flow prevention. If it becomes necessary to connect or disconnect the cross connection, the customer shall contact the Village.

(h) When any premises are supplied with water from two or more standard services such service shall be provided with check valves so that water can flow into the premises but cannot flow out through either of the services.

(i) No person except an employee of the Water Department shall be permitted to open or close curb stops or gate valves. Any person violating this section shall be penalized two hundred dollars (\$200.00).

(j) When a leak occurs between curb valve and house or building to which water is supplied, it shall be the duty of the owner to have repairs made within three working days; provided however, if the Village determines the leak is too severe the Village may disconnect the service. If repairs are not made within a three working days, service shall be discontinued, and Section <u>925.11</u> shall apply.

(k) The Water Department shall not be responsible for breaks in main or service lines that cause flooding in a basement or damage to premises in any way whatsoever.

(1) If the Village determines that the line from the curb stop to the premises is leaking repeatedly, the Village may require the owner to replace the line. If the owner does not do so, the Village may disconnect the water service.

(m) The Village shall not be responsible for breaks in the main or service lines that cause flooding in a basement or damage to premises in any way whatsoever. When the Water Department turns the water off at any premises, it will not drain the pipes in the premises or otherwise protect the fixtures within and is in no way responsible for any damage that may result.

(n) The owner shall promptly notify the Water Department when it is the owner's desire to have the service discontinued for any reason. Otherwise the owner will be charged for all water used and will at least incur the minimum charge.

(o) Special use of water for which no regular rate is given and which may be used under special circumstances shall be at the discretion of the Village Administrator and the charge shall be at special rates which are established from time to time by the Village Administrator. (Ord. 2010-107. Passed 1-24-11.)





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Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet Data Sources: Village of Millersburg, Holmes County, RCAP GIS Team, ESRI, OGRIP, OSIP, TIGER Lines

