Village of Roseville, Ohio Public Water System Lead (Pb) Components PWS# OH-6002112 Prepared March 2017

To comply with Section 6109.21 of the Ohio Revised Code, enacted in September 2016, Roseville, Ohio has created the following report and attached maps to identify known and potential components of its public water system that contain lead (Pb). The Village of Roseville falls in both Muskingum and Perry Counties.

RCAP staff and the Roseville water department met on February 28th, 2017 to review possible presence of lead in the service area. Few applicable historical maintenance and operational records were available to be consulted along with limited as-built construction maps. The water department has a set of water line construction inspection books dating back to the 1930s and 1940s (when the majority of the system was



Inspection book from the 1930's documenting copper pipe was used for services.

constructed). These books hold the hand written records of water line installation inspections and Not all of the pages include tap locations. information about the material or age of the service line; however, there are pages that show pricing information for materials used during service line installations. In addition, operators with extensive experience and knowledge of the system were present to provide the best knowledge of the mapping system. Existing and historical maintenance knowledge are the base of the institutional memory for the water distribution system. Lead component findings were identified by Roseville water operators and recorded in a GIS database.

Service Lines and Ownership

The Roseville water department distributes water to approximately 700 customers. 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 into the meter is owned and maintained privately by the consumer account holder. The majority of publicly owned and the private portions of service line are a mix of copper, CTS plastic, and galvanized. While the system dates back to the early 1930s there are not believed to be any lead service lines on either the publicly owned or private portions of the services lines.

The Village of Roseville works with the Muskingum County Health Department to regulate private plumbing renovations. Properties in Roseville are required to install ¾" to 2" type K copper, or CTS plastic pipe rated



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for 200 psi. Type K copper has historically been used for service lines (both publicly and privately owned) most often. The original inspection notebooks from 1932-1947 reference use of copper service line, long before official legislation was put in place (see sample pages from Jennings-Lawrence civil engineers construction log book). While it is possible that some private service lines were contructed using lead lines, experienced operators currently in charge of maintaining the water distribution system have done replacement projects and repair work in all areas of the village and never uncovered any service line made of lead. Based on institutional knowledge and available information from installation inspections, the Village of Roseville considers the chance of the extistence of lead service lines to be minimal, and believes all of its customers to have a low probability of having a lead service line. Areas where service lines come off the few remaining cast iron mains, that have not yet been replaced, have the slightly higher chance of having a lead service line, however, the probability is still considerably low in these areas. The attached map shows the probability of each service address having a lead water service line.

Distribution System

Roseville Water produces treated ground water and distributes potable water through approximately 15 miles of water main lines. The water distribution system was constructed between the 1930's and 2005. The system was constructed using cast iron, SDR 21 PVC, and c900 PVC water pipe (all piping between 1" and 12"). The distribution system was constructed as early as 1932, with most of system completed by 1950. Much of the original cast iron remains today, and Roseville water department has relatively few problems maintaining it. In the original cast iron mains leaded joints were used; that portion accounts for about 40% of the active water mains.

Water Meters and Indoor Plumbing

Some of the customer water meters may contain lead. The Village of Roseville 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.

The Village of Roseville does have any local laws or regulations that ban the use lead for residential plumbing before state or federal statutes. Residential plumbing in Roseville is subject to Muskingum County Health Department standards for low lead and lead free fixtures. The health department makes regulations meet or exceed Ohio plumbing code standards. Muskingum County health department also provides plumbing information at their website (<u>http://www.zmchd.org/plumbing</u>), including information on identifying lead free certification marks. When plumbing renovations are carried out by home owners,

health department inspectors verify lead free plumbing is installed, and service lines are replaced on the private side. This is a relatively new practice, and the majority of structures in Roseville have not yet been evaluated by the health department. Only one property is known to have structures built since 2014, and therefore nearly all buildings in the village may have some lead in the solder or fixtures. Many of the buildings in Roseville have been renovated since their original construction. Since records are difficult to obtain for older renovation projects, the village is encouraging its residents to inspect their plumbing and report any potential lead to the water department.

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 Muskingum 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 Roseville water department if they have determined whether or not a lead service line exists. Please contact the Roseville water billing office by calling (740) 697–0322 or emailing <u>water7310@sbcglobal.net</u>. A representative of 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 Roseville Public Water System, please contact:

Roseville Water Billing Office Phone (740) 697-0322 Email <u>water7310@sbcglobal.net</u>

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 <u>http://epa.ohio.gov/pic/lead.aspx</u>
- 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 Roseville 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

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GIS Data Sources: OGRIP, OSIP, Muskingum County Auditor, RCAP GIS. Datum/Projection: NAD 1983 Ohio State Plane South (ft) Date: 2/28/2017



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Roseville Water Service Area

Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

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Data Sources: Village of Cadiz, Muskingum County, Harrison County, RCAP GIS Team, ESRI, OGRIP, OSIP, TIGER Lines



Data Sources: Village of Cadiz, Muskingum County, Harrison County, RCAP GIS Team, ESRI, OGRIP, OSIP, TIGER Lines





Created for use by The Village of Roseville By RCAP GIS Team March 1, 2017

Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet Data Sources: Village of Roseville, Muskingum County, RCAP GIS Team, ESRI, OGRIP, OSIP, TIGER Lines Service Area Overview



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