

Hamilton, Ohio



Water Service Information Map

The purpose of this map is to exhibit the general time frame that City of Hamilton residential structures were built in order to determine the likelihood of the presence of lead in water ines

Structure Build Date

- In or Before 1997
- Between 1998 and 2013
- In or After 2014
- Unknown

Known Service Lines

- Private, Public
- Lead, Lead
 - Lead, Other
 - Other, Lead



Disclaimer: This map is based on historic data of which the accuracy cannot be guaranteed. This data should be used for reference only and should not be used for any legal or commercial purposes. The intent of this map is to provide Hamilton residents the best available data concerning their water services and will be updated as more information becomes available. The City of Hamilton reserves the right to alter and amend the display of this data.



Founded 1791

Department of Underground

Utilities

City of Hamilton, OH
345 High Street
Hamilton, OH 45011
Telephone 513 785-7206
FAX 513 785-7203
www.hamilton-city.org

February 27, 2017

Ohio EPA
Division of Drinking & Ground Waters
Southwest District Office
401 E. Fifth Street
Dayton, Ohio 45402

RE: City of Hamilton Water Distribution - Lead Mapping in System

Dear Mr. Dan Cloyd,

The City of Hamilton has a distribution system with well over 340 miles of water mains ranging in size from 2" up through 36" pipe. The system has over 4,300 valves and 2,600 fire hydrants. The City of Hamilton water distribution system has six different pressure zones to compensate for the differences in elevation. The City of Hamilton has two Water Treatment Plants, two underground reservoirs, four elevated storage tanks, one water standpipe, six booster stations, and four pressure reducing vaults. The City of Hamilton also supplies water to most of the residents of eastern Butler County. The City of Hamilton Water Production produced an average of 15.176 million gallons per day in 2016 to serve a population of approximately 160,000 people. The Water Production and Water Distribution Divisions are part of the Department of Underground Utilities.

The Underground Utilities Department has produced a map of the water distribution system, in an attempt to identify the likelihood of piping, solder or fixtures within the service area that may contain lead. Please note that our map only includes customers within the City of Hamilton, and not the portions of Butler County receiving Hamilton Water. A link to the completed map is below.

The guidance document provided by the Ohio EPA's Division of Drinking & Ground Waters provided support for the creation of our map, to ensure compliance with House Bill 512 and Section 6109.121 of the Ohio Revised Code; effective in June of 2016. The attached map includes three (3) different colored parcels, indicating the potential of lead piping, solder or fixtures within the buildings. Per the Ohio EPA guidance document, the age of the building was used as the primary indicator of lead content. In general, the yellow parcels have the highest potential for lead, the grey parcels have moderate potential, and the green parcels have the lowest potential. See below for more details of each category:



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Date Range	Rules & Regulations	Parcel Color
1997 - Homes built in or before	The Safe Drinking Water Act (SWDA) was amended to ban lead (1986); effective in Ohio Plumbing Code in 1998	Yellow
1998 - 2013 - Homes built within this range	Ohio Plumbing Code revised per SWDA standards. "Lead-free" was defined as no more than 8% lead.	Grey
2014 - Homes built in or after	SWDA amendments, effective 1/1/14 that changed definition of "lead-free" to 0.25% or less	Green

Within the City of Hamilton, there are approximately 47,333 total water service connections. In reviewing existing records, 23,771 of those service connections are on the private (customer) side. The Underground Utilities Department maintains approximately 23,562 service connections on the public (street) side. Below is a summary of known information regarding material, to date:

Total Private Service Lines = 23,771

Cast Iron = 3
Clay = 1
Copper = 2,914
Ductile Iron = 62
Lead = 149
Polyethylene = 178
Polyvinyl Chloride = 1
Steel = 2
Unknown* = 20,461

Total Public Service Lines = 23,562

Cast Iron = 1
Copper = 4,431
Ductile Iron = 43
Lead = 51
Polyethylene = 1,038
Unknown* = 17,998

*The Underground Utilities Department will continue efforts to review service and maintenance records, collect more current data, and update maps and documentation with the best available information. The Department is confident that the majority of the unknown lines, especially on the public side, have been replaced with copper. In evaluating the service lines (both public and private) known to be lead, almost all are located within the 817 System, which is the oldest section of the City's distribution system. Concentrated areas of known lead lines are within residential areas in the southeastern portion of the City, adjacent Parkamo Avenue; and also within residential and commercial areas in the west-central portion of the City adjacent N. F and D Streets. It is possible that additional lead service lines remain installed in these areas and others throughout the City. All updated information will be included as it becomes available.



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The enclosed map has been provided to the Ohio Department of Health and the Ohio Department of Job & Family Services, per the Ohio EPA guidance document. An electronic copy has also been posted to the City of Hamilton's website, where water customers can search by address to identify the potential for lead in their water. Links for additional information and resources regarding lead have been provided to our customers within the electronic map (see below).

With any questions or concerns regarding this letter or the attached map, please feel free to contact me at 513-785-7095.

Sincerely,

Steve R. Eberts

Steve R. Eberts
Environmental Compliance Specialist

cc: Kevin Maynard, Director of Public Utilities
Dwight Culbertson, Director of Underground Utilities
John Bui, Superintendent of Water Production
Andy Flum, Superintendent of Gas & Water Distribution
David Jenkins, Supervisor of Water Production & Reclamation Operations

Link to Online Map Shared with Water Customers:

<http://cohoio.maps.arcgis.com/apps/webappviewer/index.html?id=eae334c106624af08ba532b799852ffc>

Additional Information Provided to Water Customers:

<https://www.epa.gov/lead/learn-about-lead>
(U.S. EPA, "Learn About Lead" - Health Effects)

<http://www.epa.state.oh.us/Portals/28/documents/labcert/Chemical%20Labs.pdf>
(Ohio EPA, Certified Commercial Labs to Perform Lead Testing)

<https://www.epa.gov/dwstandardsregulations/use-lead-free-pipes-fittings-fixtures-solder-and-flux-drinking-water>
(U.S. EPA, Standards & Regulations - Use of Lead Free Pipes)