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# Lead Service Line Replacement Program Semi-Annual Report

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January 26, 2022

Public Works Committee

Common Council File #211520

# Lead Basics

- Lead is a toxic substance
- Lead exposure is cumulative
- There is no safe exposure to lead
- Young children are particularly vulnerable
- Goal is to remove ALL sources from the community
  - Lead-Safe Milwaukee:  
<https://city.milwaukee.gov/LeadSafeMKE>
    1. Safe Paint
    2. Safe Water: Lead Service Line Replacement (LSLR) program
    3. Safe Kids



**Lead-Safe Milwaukee**  
SAFE PAINT SAFE WATER SAFE KIDS

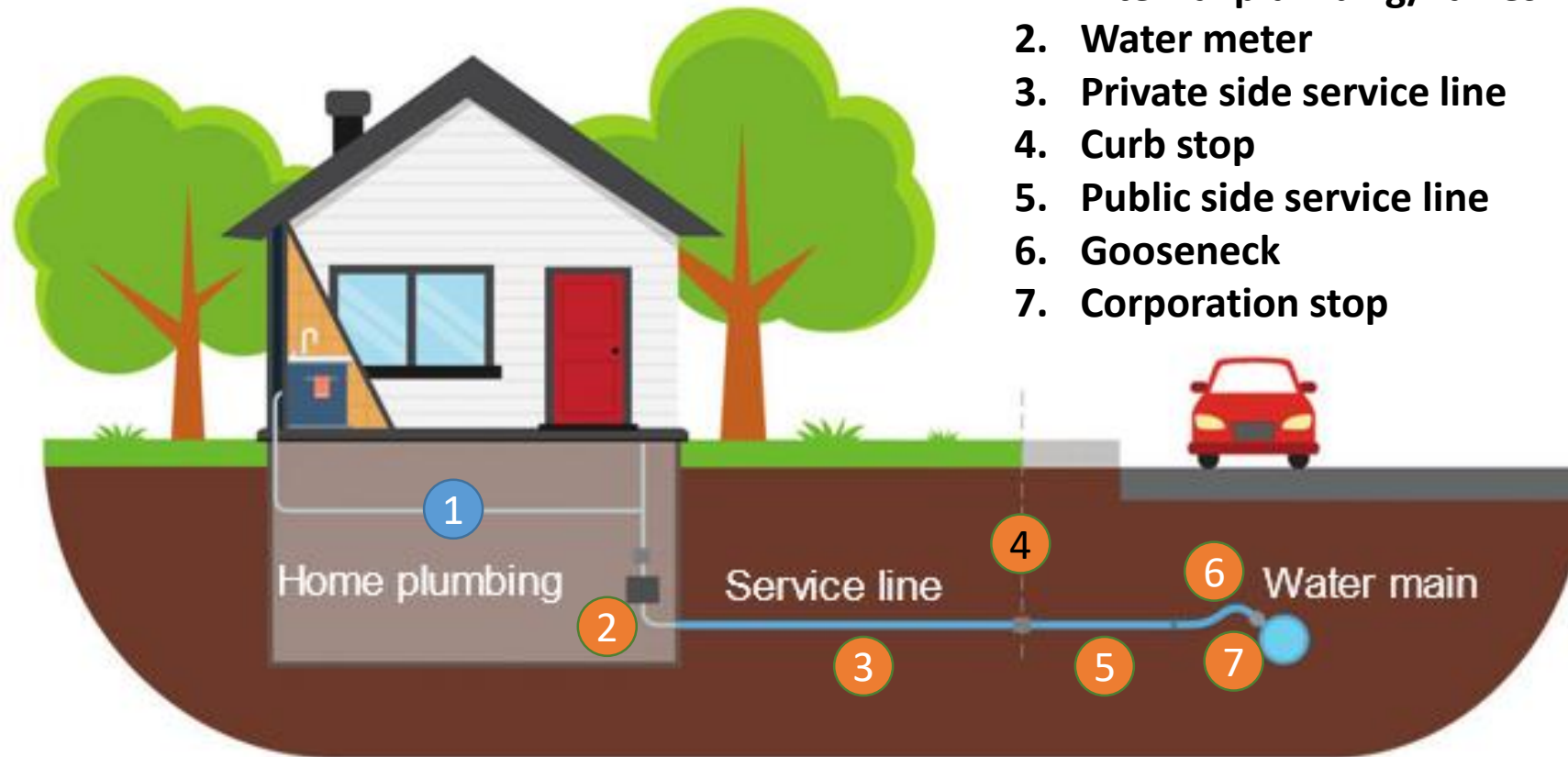
Learn About Lead Lead-Safe Easy as 1-2-3

CONTACT US VERSION EN ESPAÑOL

There are several sources of lead you should know about. The most common way children are exposed to high levels of lead is through chipping, peeling or cracking lead-based paint in older homes. When lead is found in drinking water, it is usually because water can dissolve the lead in pipes and plumbing. What can you do to protect your family?

- 1 Safe Paint:
- 2 Safe Water:
- 3 Safe Kids:

# What is a lead service line?



1. Internal plumbing/valves
2. Water meter
3. Private side service line
4. Curb stop
5. Public side service line
6. Gooseneck
7. Corporation stop

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# Lead in Water Reduction Efforts

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- 1951 MWW installed last public-side lead service line (LSL)
- 1962 City ordinance requiring private side copper
- 1985 Reconnection to LSL prohibited for new construction
- 1996 Corrosion Control Treatment (orthophosphate) implemented
- 1997 MWW compliance with Lead and Copper Rule
- 2015 MWW pilot study to assess lead in water
- 2016 MWW began replacing, rather than repairing, LSLs
- 2017 Lead Service Line Replacement Program established
- 2019 Corrosion Control Treatment (CCT) Reevaluation of Optimization
- 2020 Lead and Copper Rule (LCR) Compliance Sampling
- 2021 LCR Revisions published and go into effect late 2024

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# Lead service line replacement mandate

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- As of January 1, 2017, full lead service line mandated to be replaced with copper when:
  - A leak or failure has been discovered on either the privately- or utility-owned portion
  - The utility-owned portion is replaced on either a planned or emergency basis
  - The property is a child care facility (licensed or certified) or school
- REPAIR or RECONNECTION to lead service line PROHIBITED
- Property owner may initiate replacement of privately-owned portion at their own expense with which MWW will pay for and replace the utility-owned portion

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# Lead service line replacement mandate

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Reason for LSL Replacement	2017	2018	2019	2020	2021	Total (%)
Leak or failure	437	547	670	629	505	2788 (63)
Child cares and schools	150	204	129	48	67	598 (14)
Water main relay project	18	143	177	162	197	697 (16)
Owner initiated	11	39	23	24	27	124 (3)
Other infrastructure projects	6	0	1	25	186	218 (5)
<b>Total LSL Replacements</b>	<b>622</b>	<b>933</b>	<b>1000</b>	<b>888</b>	<b>982</b>	<b>4425 (100)</b>
<b>Total Filter Distribution</b>	<b>1164</b>	<b>1359</b>	<b>1418</b>	<b>971</b>	<b>1216</b>	<b>5876</b>

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# Lead service line financial impact

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- Average full replacement cost as of June 30, 2021: \$10,234
  - Private side: \$5,170
  - Public side: \$5,064
- One- to four-family residential property cost share for mandated replacements limited to \$1,843 as of March 1, 2021 (or one-third the cost of private side if lower)
- Updated cost share to be effective March 1, 2022. Anticipated to be one-third the average cost of private side.
- 2022 planned projects ~500 emergency and child care as necessary

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# Customer outreach

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- Lead-safe information provided with filter pitchers
- Semi-annual insert with lead safety information in municipal service bills
- Annual mailing of lead safety information to properties
- Consumer Confidence Report bill insert with lead and water information
- Online public-side LSL inventory updated quarterly
- Information provided via MWW Customer Service (439 LSLR specific calls)
- Website
  - [city.milwaukee.gov/Water](http://city.milwaukee.gov/Water) “Lead and Water” in English and Spanish
  - [city.milwaukee.gov/LeadSafeMKE](http://city.milwaukee.gov/LeadSafeMKE)
  - [city.milwaukee.gov/Leadsafemke-espanol](http://city.milwaukee.gov/Leadsafemke-espanol)
- Lead-Safe brochures, English and Spanish, available at MHD Health Centers, MPL branches, City Hall complex buildings



# Customer outreach



**OUR RECORDS INDICATE THE WATER SERVICE LINE THAT CONNECTS YOUR PROPERTY TO THE WATER MAIN IN THE STREET IS MADE OF LEAD.**

## Milwaukee Water Works

Zeidler Municipal Building  
841 N. Broadway, Room 409  
Milwaukee, WI 53202

Reduce the risk of exposure to lead in drinking water from lead service lines and interior plumbing and fixtures.

Households with lead service lines whose occupants include these at-risk persons should drink and cook with tap water filtered with an NSF 53 certified filter:

- Children under 6, especially bottle-fed infants



**NUESTROS RÉCORDS INDICAN QUE LA LÍNEA DE SERVICIO DE AGUA QUE CONECTA SU PROPIEDAD A LA LÍNEA PRINCIPAL DE AGUA DE LA CALLE ESTÁ HECHA DE PLOMO.**

Reduzca el riesgo de exposición al plomo en el agua potable de las líneas de servicio de plomo y tubería y accesorios de plomo.

Los hogares con líneas de servicio de plomo cuyos ocupantes incluyen a personas en riesgo, dichas personas deben beber y cocinar solamente con agua del tubo filtrada por un filtro certificado NSF 53:

- Niños menores de 6 años, especialmente los infantes alimentados en botella
- Mujeres embarazadas o que podrían quedar embarazadas (edades 15-45)
- Mujeres en período de lactancia

Estos clientes podrían ser elegibles para un filtro gratis de parte del Departamento de Salud de Milwaukee.

Para todos los que tienen una línea de servicio de plomo:

- Beba y cocine solamente con agua del grifo de agua fría.
- Deje correr el agua hasta que esté fría antes de usarla para beber o cocinar.
- A menudo desatomille y lave la pantalla al final de cada grifo.
- Enjuague la tubería del hogar al final de cada día de trabajo durante el reemplazo de la tubería principal, la reconstrucción de la calle y del alcantarillado y trabajo de plomería. Los clientes afectados inmediatamente por ciertos proyectos de construcción de la Ciudad reciben un cupón de parte de Milwaukee Water Works.



**Milwaukee Water Works**

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# Opportunities

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- EPA Lead and Copper Rule Revisions go in effect October 16, 2024
- Corrosion Control Treatment Study completed and submitted to DNR (Communication file #211521)
- Continue discussions with EPA and DNR on Bipartisan Infrastructure (BIL) Law funding
- 2022 (1<sup>st</sup> year) BIL funding
  - Administered through WI DNR Safe Drinking Water Loan Program (SDWLP)
    - \$48,191,000 for LSL replacement
    - \$30,602,000 for Water Infrastructure Projects
    - 49% principal forgiveness

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# Thank you

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Lead and Water Information

[Milwaukee.gov/Water/WaterQuality/Lead and Water](https://www.milwaukee.gov/Water/WaterQuality/Lead%20and%20Water)