

#### **Massachusetts Water Resources Authority**

Presentation to

**MWRA and MWRA Advisory Board Forum on** 

# Revised Lead and Copper Rule

May 19, 2022



#### Introductions and Welcome

Fred Laskey
Joseph Favaloro



#### Agenda and Background

Stephen Estes-Smargiassi
Director of Planning and Sustainability



## **Two Main Topics Today**

- Changes to sampling and notification procedures for sampling in September (and onward)
  - Changes affect all fully supplied communities in metro Boston
  - Some changes may affect every other water supplier
- Service line Inventory development and LSL removal plans due October 2024



## **Agenda and Speakers**

- Agenda/Background Estes-Smargiassi
- Sampling Changes Beverly Anderson
- Find and Fix Requirements Josh Das
- Notification Requirements Stephen Estes-Smargiassi
- Service Line Inventory Dave Granados, Claudia Baptista
- MassDEP Inventory Template Jessica Sibirski, MassDEP
- Chelsea LSL Replacement Case Study Rebecca Wright, Chelsea
- Financial Assistance for LSL Replacement Jon Szarek
- **EPA is reviewing, but don't wait –** Stephen Estes-Smargiassi
- Q and A How can we help?



## **Logistics for Training Contact Hours**

At the end of the presentations, we'll provide this link – you will need to click on or copy, and follow the instructions.

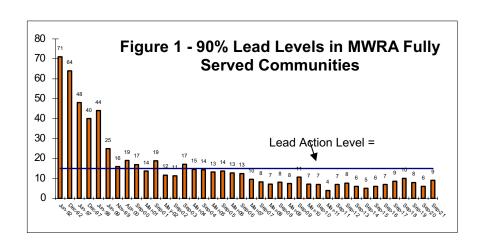
To register for your training credits, please follow the link below to a course evaluation on Survey Monkey. Follow all the directions to ensure proper credit for your TCHs:

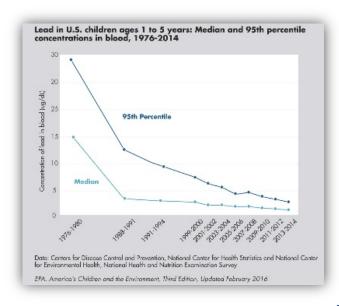
https://www.surveymonkey.com/r/9LQ5TYP



#### **Public Water Suppliers – Protecting Public Health**

- Our goal is public health protection
- Lead levels in children's blood have declined 90 percent
- Lead levels at our customer's taps have declined dramatically
- But still more to be done







#### Schedule Acceleration of Some of the LCR Revisions by EPA

- In February EPA Imposed Changes on How MWRA is Regulated under the LCR
- Affects All Fully Supplied Communities Served by Carroll WTP
- These Were Almost All Items from the LCR Revisions that Would Otherwise Not be Required Until October 2024

 Could be Considered a "Pilot" and Offer Opportunity to Influence EPA's Guidance Manuals and any Future Changes



## How Is the MWRA System Regulated Under the LCR

- "Consecutive System Monitoring Agreement"
- Hybrid Approach:
  - Partly Treated as Single System;
  - Partly as Individual PWS
- Each system ¼ of regular # of samples in total 445 vs 1780
- Local Action if PWS is Over the Action Level
  - Public Education, and Lead Service Line Replacement
  - Return to Twice Annual Monitoring
- Treatment Based on Entire Region's Results



#### Sampling and Sampler Notification Changes

Beverly Anderson
Project Manager, Public Health



## **Changes to Sampling Procedures**

- Increase in number of samples, 33%
  - 15 becomes 20; 10 becomes 13
- Sampling Only in Homes with Lead Service Lines (if you have any)
- This May Result in Higher 90<sup>th</sup> Result
- Update Sampling Plans with All LSL, add additional alternates
- Get revised sampling plans with all LSL to DEP region ASAP





#### **Notification Changes**

- For Any Home with Lead Result over the Action Level:
- Notify Sampler within 3 days of MWRA Notifying You
- Provide Results, Health Information, Risk Reduction Suggestions
  - MWRA Provides Template
  - Some Communities Calling, Then Following Up with Email and Letter
- Keep good records, Use MassDEP Form
- <u>www.mass.gov/doc/lcr-consumer-notification-certification-form/download</u>



# Find and Fix Requirements for Individual Homes Over the Action Level

Josh Das
Program Manager, Water Quality



#### **New "Find and Fix" – Community Requirements**

- Applies to each <u>individual</u> lead sample >15μg/L
- Within 30 days of learning the results:
- Investigate why it has an elevated result so water supplier and homeowner can take action to reduce levels
- Offer Lead Sampling to Resident --
  - Any type and number of samples
- Confirm if Lead Service Line is Present
- Maintain records, record refusal of sampling
- Some communities are immediately scheduling a LSL replacement
  - "get the lead out"



## **New "Find and Fix" – MWRA Requirements**

Applies to each <u>individual</u> lead sample >15μg/L

- MWRA Must Collect a Water Quality Parameter (WQP) sample at or near the site where the high lead sample was collected - within 5 days
  - Same pressure zone
  - Within 0.5 miles, same main size or smaller
  - Will Try to Use Existing MWRA or Community Sampling Sites
  - MWRA will Coordinate Sampling with Community

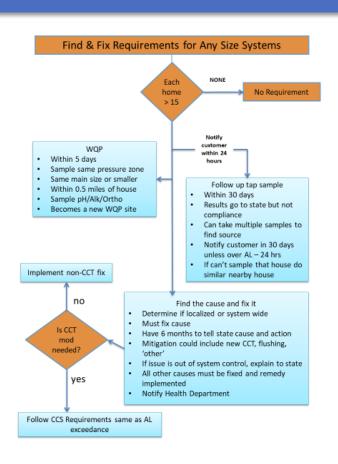




#### **Reporting on Find and Fix Results**

- Both Community and MWRA will Need to Report Results to DEP
- If Any Solutions are Identified Implement
- •
- No Guidance on This Yet

 Should Be Resolved Based on Spring Sampling Results





#### **Significant** Change to Notification Requirements

Stephen Estes-Smargiassi
Director of Planning and Sustainability



### If a community's 90th percentile is over the Lead Action Level

- 24 hour public notification to <u>entire system</u>
  - Similar to notice for confirmed E. coli contamination
  - Radio, TV Press release
- Clock will start when all required samples from LCR sampling plan are analyzed and a 90<sup>th</sup> percentile can be calculated
- Essentially no time to prepare
- No way to quickly close out the event
- Don't get caught flat footed! Review and coordinate prior to sampling
- New MassDEP template has been prepared



## **Lead Service Line Inventory Overview**

Lead Service Line Inventory

David Granados & Claudia Baptista

MWRA Community Support Program



## **LCR Lead Service Line Inventory Requirement**

#### **WHY**

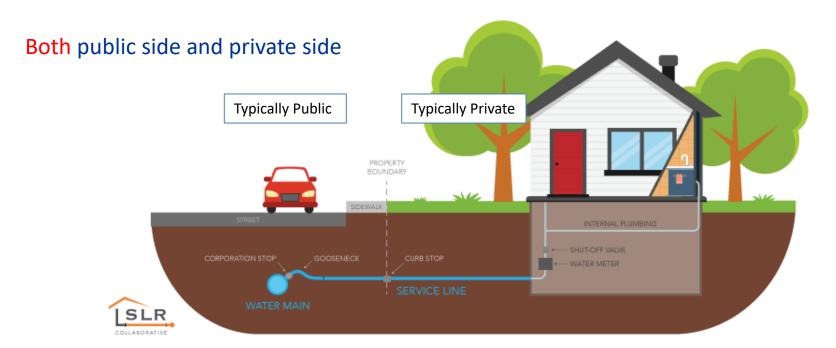
- Better Inventory of LSLs Inform the Public on Risks;
   Reduce Lead Exposure and Increase Transparency
- Studies Identify 50–75% of Lead in Drinking Water from LSLs
- Remainder: some lead can also come from Leaded Solder,
   Brass/Bronze Fittings, Goosenecks, Galvanized Piping, Faucets and
   Water Meters



#### There's more treated as a lead service line now!

Lead or Galvanized downstream of lead/unknown material (now or previous)

"Unknowns" are treated as Lead in rule





## LCR Lead Service Line Inventory Requirement

#### **WHAT**

- All Water Systems must prepare an Initial Lead Service Line Inventory that identifies:
  - ✓ Lead Service
  - ✓ **Galvanized Service** (Requiring Replacement) Currently or Formerly Downstream of a Lead Line
  - ✓ Lead Status Unknown (assumed lead until determined)
  - ✓ Non-Lead Service Line
- Service Material of Public-side, Private-side, and Meter Connection
- Full Accounting of Services Using: List, Table, or Map with Location Identifier (Service No., Street Address, community block, etc.)



#### **Recommended** - More Detailed Service Line Inventory

- ✓ Lead Service
- ✓ Lead-Lined Service
- ✓ Galvanized Service Currently or Formerly Downstream of a lead line
- ✓ Lead Gooseneck on Service
- ✓ Lead Status Unknown (assumed lead until determined)
- ✓ Galvanized Service
- ✓ Iron Service
- ✓ Brass Service
- ✓ Copper Service
- ✓ Plastic Service
- ✓ Other





#### **LCR Lead Service Line Inventory Requirement**

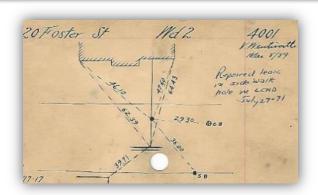
#### WHEN

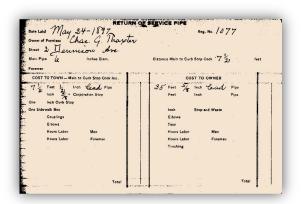
- Initial Lead Service Line Inventory within 3 Years of Final Rule
   » October 16, 2024
- Initial Notice to All LSL, Galvanized (requiring replacement), and Lead Status Unknown within 30 Days after submission of inventory
- Annual\* Update of Inventory Including:
  - ✓ Prior Unknown Services that have been Verified
  - ✓ LSL Replacements Completed
  - \* Every three years if on triennial monitoring



#### **How to Develop a LCR Lead Service Line Inventory**

- Identify Local Cut-off Date for Lead Service Installation
  - National Lead Service Ban as of June 1986
  - Many Communities Stopped Earlier
- Review Local Plumbing Code
- Review Service Tie Cards and DPW Records
- Review Water Main Project Records
- Water Meter Replacements and Service Leak Repairs
- Review Assessor Records for Building Construction Dates
- Test Pits (not required)
- Customer Self-Identification with Municipal Confirmation
- Waiting for EPA or MassDEP Guidance Manuals







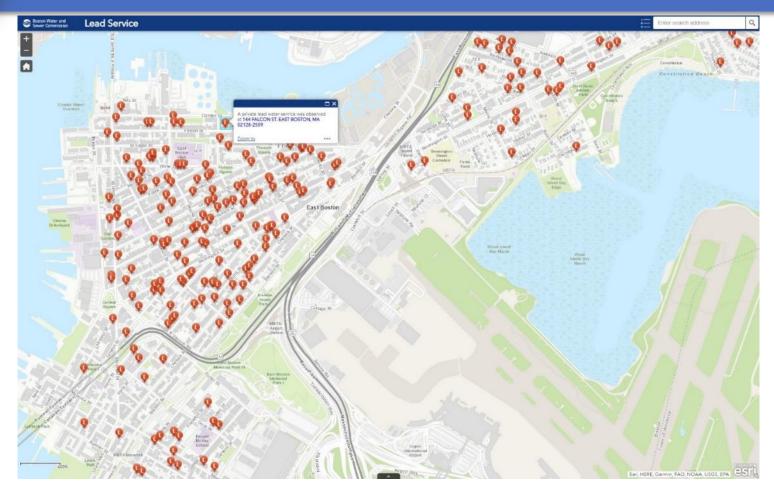
#### **Inventory/Mapping – Public Disclosure**

#### **PUBLIC DISCLOSURE**

- Systems greater than 50,000 people must post inventory on web
- Smaller systems must make the inventory available to the public
  - available for review at public location
  - recommend on-line, it's what our customers expect
- Letter to every home with LSL, galvanized requiring replacement, or unknown within 30 days
- Annual letter thereafter to all LSL, galvanized requiring replacement, or unknown

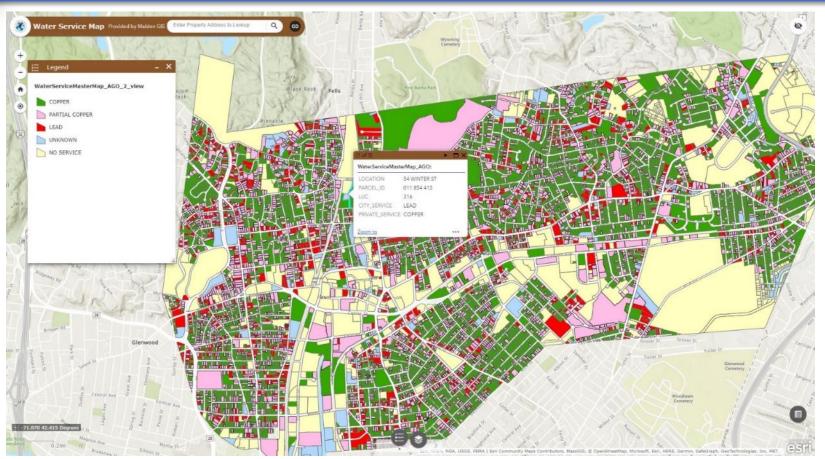


## **Public Disclosure - Boston Lead Service Line Map**





## **Public Disclosure - Malden Lead Service Line Map**





## **Public Disclosure – Quincy and Marlborough Lead Service Lists**

#### **Quincy LSL Inventory**

#### Marlborough Lead Service Replacement Program

#### Lead and Lead Lined Water Services

Ward 1	Type	Ward 4	Type
51 Newton Street	Lead	27 Campbell Street	Lead-Lined
40 Northfield Street	Lead	31 Campbell Street	Lead-Lined
74 Babcock Street	Lead-Lined	66 Campbell Street	Lead-Lined
86 Butler Road	Lead-Lined	127 Centre Street	Lead-Lined
66-68 Chickatabot Road	Lead-Lined	14-15 Dunns Court	Lead-Lined
7 Highfield Road	Lead-Lined	160 Intervale Street	Lead-Lined
8 Highfield Road	Lead-Lined	439 Willard Street	Lead-Lined
61 Ratchford Street	Lead-Lined	"493 Willard Street	Lead-Lined
72 Rock Island Road	Lead-Lined	(22 Larry Street)"	

#### Saville Ave (Home Making School)

		Ward 5	
Ward 2		74-78 Beach Street	Lead
5-13 Shaw Street	Lead	207 Thomas Burgin Parkway	Lead-Lined
39-41 South Walnut Street	Lead	38-40 Elm Avenue	Lead-Lined
70-72 Arnold Street	Lead-Lined	2 Euclid Avenue	Lead-Lined
14-16 Berry Street	Lead-Lined	6-8 Franklin Place	Lead-Lined
48 Dee Road	Lead-Lined	125 Kemper Street (Flagg)	Lead-Lined
2 Endicott Street	Lead-Lined	133 Kemper Street	Lead-Lined
134-136 Main & Sumner Street	Lead-Lined	200 Marlboro Street	Lead-Lined
159-161 Main Street	Lead-Lined	27-29 Merrymount Avenue	Lead-Lined
		29 Pearl Street	Lead-Lined

		80 Thornton Street	Lead-Lined
Ward 3			
33-35 North Central Avenue	Lead		
64 North Central Avenue 135 Norfolk Street	Lead Lead	Ward 6 26 Bay State Road	Lead
153 Norfolk Street	Lead	38 Aberdeen Road	Lead-Lined
42 Marion Street	Lead	22 Albion Road	Lead-Lined
40 Bowdoin Street	Lead-Lined	282-284 Billings Road	Lead-Lined
19 Eddie treet	Lead-Lined	103 Colby Road	Lead-Lined
222 Elmwood Avenue	Lead-Lined	14-16 Colby Road	Lead-Lined
57 Harvard Street	Lead-Lined	47-49 Flynt Street	Lead-Lined
15 Hilda Street	Lead-Lined	69 Holmes Street	Lead-Lined
163 Norfolk Street	Lead-Lined	343-353 Newport Avenue	Lead-Lined
103 Oakland Avenue	Lead-Lined	58 Royal Street	Lead-Lined
297 Safford Street	Lead-Lined	14-16 Windsor Road	Lead-Lined

#### Section 4 - Documentation of Project Need Suspected Lead Services Marlborough, Massachusetts

		Length of Service (feet)			
SERVICE #	Address	from Water Main	from Curb Box to		
SERVICE #	Address	to Curb Box	Building		
885	14 ADAMS ST	16			
1241	16 ADAMS ST	21			
891	20 ADAMS ST	9			
1161	26 ADAMS ST	12			
871	32 ADAMS ST	23.6			
719	26 AMES PLACE	0	17.9		
473	36 AMES PLACE	0	?		
472	40 AMES PLACE	9			
569	43 AMES PLACE	0	29.9		
2878	12 ARNOLD ST	0	25.4		
1691	27 ARNOLD ST	12	27.11		
2109	46 ARNOLD ST	0	13.7		
2907	51 ARNOLD ST	13	23.1		
1972	55 ARNOLD ST	0	21.4		
849	24 AUBURN ST	0	15.6		
2509	127 BEACH ST	0	39 GALV, 8 LD		
2386	151 BEACH ST	0	14		
1005	175 BEACH ST	0	21.4		
1014	187 BEACH ST	0	13.3		
2495	BEACH ST	0	331 GALV, 2 LD		
3195	BEACH ST	34.4			
124	12 BELMONT ST	0	12		
1140	16 BELMONT ST	21	18		
2053	22 BELMONT ST	0	14.9		
128	33 BELMONT ST	0	14		
1797	65 BELMONT ST EXT	0			
3118	23 BERLIN ROAD	21.7	19		
2609	43 BERLIN ROAD	12.6	74		
2270	54 BERLIN ROAD	8.1			
2785	61 BERLIN ROAD	17.6	59.3		
2472	66 BERLIN ROAD	14			
2277	84 BERLIN ROAD	5.6			
2583	100 BERLIN ROAD	6.4			
2268	108 BERLIN ROAD	7.5			
1787	36 BICKNELL	0	14		
1568	40 BICKNELL	0	15.6		
2186	14 Bicknell st	0	11		
2586	17 BICKNELL ST	0	29.6		
1999	20 BICKNELL ST	0	14		
2206	21 BICKNELL ST	0	17.3		
1607	23 BICKNELL ST	10.6	15		
2467	34 BICKNELL ST	0	14		
2889	2 BIGELOW ST	0	15 GALV		
2755	24 BOLTON ST	17.8			



page 1

## **Inventories – Winthrop and Watertown Lead Service Lists**

#### Winthrop LSL Inventory

Class 1 - Lead from main to property line Class 2 - Lead from main to curbstop Class 3 - Lead from curb stop to property line

REGISTER NO.	STREET#	STREET	Size of pipe	kind of pipe	Main to curb stop	curb stop to lot line	DPW Class	REPLACED W/Copper after list was generated in 2006
3	23	THORTON ST	5/8	LEAD	10FT LEAD MAIN TO CURB	5/8 LEAD	1	
4	10	W.SHORE DR.	5/8	LEAD	12FT LEAD MAIN TO CURB	5/8 LEAD	1	X-DCR Project
9	262	WINTHROP ST	5/8	LEAD	28 FT LEAD MAIN TO CURB &CLEARED'26'33' '71'	5/8 LEAD	1	
29	64	LINCOLN	5/8	LEAD	12 FT LEAD SERVICE	5/8 LEAD	1	
30	59	FREEMONT ST	5/8	LEAD	14FT LEAD RELAYED 15FT LEAD SERVICE '36'	5/8 LEAD	1	X - Contract 2
38	220	WOODSIDE AVE	5/8	LEAD	33FT LEAD SERVICE	5/8 LEAD	1	X-Contract 4
39	480	PLEASANT ST	5/8	LEAD	28FT LEAD SERVICE &CLEARED FOR PRESSURE '68'	5/8 LEAD	1	
45	144	HERMON ST	3/4	LEAD	ALL LEAD SERVICE	3/4 LEAD	1	
55	176-178	HERMON ST	5/8	LEAD	47FT LEAD ,CLEARED'34'& FOR PRESSURE'69'	5/8 LEAD	1	
61	19	OCEAN VIEW ST	5/8	LEAD	12FT LEAD SERVICE	5/8 LEAD	1	
66	24	BEACON ST	5/8	LEAD	12FT LEAD SERVICE	LEAD	1	X - Contract 4
67	18	BEACON ST	3/4	LEAD	11FT LEAD SERVICE	LEAD	1	X - Contract 4
69	23	TEWKSBURY ST	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	
71	57	MOORE ST	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	
84	160	WINTHROP SHORE DR	5/8	LEAD	ALL LEAD SERVICE & CLEARED '41'	5/8 LEAD	1	X - DCR Project
93	203	SHIRLEY ST	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	
100	162	WINTHROP SHORE DR	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	X - DCR Project
103	42	WAVE WAY AVE	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	
105	40	TEWKSBURY ST	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	
106	78	CENTER ST	5/8	LEAD	ALL LEAD SERVICE	5/8 LEAD	1	

C - Copper main to lot line CM - Copper main to meter

#### Watertown Lead Gooseneck Water Services

Watertown Lead Gooseneck Water Service inventory Service Service												
Total	Watertown Service Number	Address No.	Street Name	Town	State	Size at Street (Inches)	Material Type at Street	Service Size at Property (Inches)	Material Type at Property	Lead gooseneck at Street	Lead gooseneck at Private	Lead gooseneci Replaced
1	2703	77-79	Dexter ave.	Watertown	MA	1	FE	1	FE	Y	N	
2	4303 4579	159 201	palfrey st. Acton st.	Watertown Watertown	MA	1.25	FE FE	1.25	FE	Y	N N	
4	1950	59	Adams ave.	Watertown	MA	î	FE	1	FE	Ÿ	N	
5	3680	18	Adams ave.	Watertown	MA	1	FE	1	FE	Y	N	
7	1734 5197	4-8 31-33	Adams st.	Watertown	MA	1	FE	1	FE	Y	N N	
8	5197	33-35	adams st.	Watertown	MA	1	FE	1-3/4	FE-CU	· ·	N	
9	4367	10-12	Amherst rd.	Watertown	MA	1	FE	1-3/4	FE-CO	Ÿ	N	
10	4775	28-30	Amherst rd.	Watertown	MA	1	FE	1	FE	Y	N	
11	4841	14	Amherst rd.	Watertown	MA	1	FE	1	FE	Y	N	
12	6121 1745	2	Andrews St Appleton st.	Watertown	MA	1	FE FE	1	FE	Y	N N	
14	1767	1	Appleton st.	Watertown	MA	1	FE	3/4-1	CU-FF	Ÿ	N	
15	2481	15-17	Appleton st.	Watertown	MA	1	FE	1	FE	Ý	N	
16	2642	23	Appleton st.	Watertown	MA	1	FE	1	FE	Y	N	
17	2049	97	Arlington st.	Watertown	MA	1	FE	1	FE	Y	N	
18	5934 6297	210-212 <null></null>	arlington st. arlington st.	Watertown	MA	2	FE	1 2	FE	Y	N N	
20	6493	174	arlington st.	Watertown	MA	1.5	FE	1.5	FE	Ÿ	N	
21	7021	130	arlington st.	Watertown	MA	1	FE	3/4-1	CU-FE	Ý	N	
22	2802	197	arsenal st.	Watertown	MA	1	FE	1	FE	Y	N	
23	6492	660	arsenal st.	Watertown	MA	1	FE	1	FE	Y	N	
24 25	6508 1468	450 10	arsenal st. Arundel terr.	Watertown	MA	1	FE FE	1 1	FE CU	Y	N N	
26	1605	16	Arundel terr.	Watertown	MA	1	FE	1	FE	Ÿ	N	
27	1305	32	bacon st.	Watertown	MA	1	FE	1	CU	Y	N	
28	1677	65	Bacon st.	Watertown	MA	1	FE	1	FE	Y	N	
29 30	5149 2322	27-29 109	Bancroft St barnard ave.	Watertown	MA	1	FE FE	1 1	FE	Y	N N	
31	2717	80	barnard ave.	Watertown	MA	1	FE	1	FE	Y	N	
32	2761	136	barnard ave.	Watertown	MA	1	FE	1	FE	Ÿ	N	
33	2718	54	beechwood ave.	Watertown	MA	1	FE	1	FE	Y	N	
34	4680	90-92	beechwood ave.	Watertown	MA	1	FE	1	FE	Y	N	
35 36	5450 1851	16 232	belknap terr. Bellevue Rd.	Watertown	MA	1	FE FE	1	FE FE	Y	N N	
37	2915	184	Bellevue Rd.	Watertown	MA	1	FF	1	FF	· ·	N	
38	3040	178	Bellevue Rd.	Watertown	MA	1	FE	1	CU	Ý	N	
39	3902	216	Bellevue Rd.	Watertown	MA	1	FE	1	CU	Y	N	
40	4211 4767	116 185	Bellevue Rd. Bellevue Rd.	Watertown	MA	1	FE	1	FE	Y	N N	
42	4865	152	Bellevue Rd.	Watertown	MA	1.5	FE	1.5	FE	· ·	N	
43	4974	212	Bellevue Rd.	Watertown	MA	1	FE	1	cu	Ý	N	
44	5093	260	Bellevue Rd.	Watertown	MA	1	FE	1	FE	Y	N	
45	7200	170	Bellevue Rd.	Watertown	MA	1	FE	UNK	CU	Y	N	
46	5272 5615	5 121	Bellevue terr. Bellevue terr.	Watertown	MA	2	FE FE	1	FE	Y	N N	
48	5670	121	Bellevue terr. Bellevue terr.	Watertown	MA	1	FE	1	FE	Ÿ	N	
49	81	812-814	Belmont st.	Watertown	MA	1	FE	1	FE	Y	N	
50	110	840-842	Belmont st.	Watertown	MA	1	FE	3/4	FE	Y	N	
51 52	1679 1842	984 1084	Belmont st.	Watertown	MA	1 1	FE FE	3/4	CU FE	Y	N N	
52	1842 1988	1084 282	Belmont st. Belmont st.	Watertown	MA	1	FE	1	FE	Ÿ	N N	
54	2107	<null></null>	Belmont st.	Watertown	MA	1	FE	1	FE	Y	N	
55	2423	774-776	Belmont st.	Watertown	MA	1	FE	1	CU	Y	N	
56	2509	326	Belmont st.	Watertown	MA	1	FE	1	FE	Y	N	
57 58	2738 3084	498-500 748	Belmont st.  Belmont st.	Watertown	MA	1	FE FE	1	cu	Ÿ	N N	
59	3667	344	Belmont st. Belmont st.	Watertown	MA	1	FE	1	FE	Y	N	
60	4709	112-114	Belmont st.	Watertown	MA	1	FE	1	FE	Y	N	
61	5141	602	Belmont st.	Watertown	MA	1	FE	1	FE	Y	N	
62 63	5515 5523	612 626	belmont st. belmont st.	Watertown	MA	1	FE FE	1	FE FE	Y	N N	
63	5523 6645	626 596	belmont st. belmont st.	Watertown	MA	1	FE	3/4	CU	Ÿ	N	
65	7083	1030	belmont st.	Watertown	MA	1	FE	1-3/4	FE-CU	Ý	N	
66		1047-1049	belmont st.	Watertown	MA	1	FE	3/4	CU	Y	N	
67		1026-1028	belmont st.	Watertown	MA	1	FE	1-3/4	FE-CU	Y	N	
68 69	1175 7600	16	bigelow terr.	Watertown	MA	2	FE FE	3/4	CU FE-CU	Y	N N	
70	7600 5506	<null> 9-11</null>	bigeon + elton birch rd.	Watertown	MA	1	FE FE	2-1 1/2	FE-CU FE	, v	N N	
71	5552	14-16	birch rd.	Watertown	MA	î	FE	1	FE	Ÿ	N	
72	3000	247-249	Boylston st.	Watertown	MA	1	FE	1	FE	Ý	N	
73	3003	255-257	Boylston st.	Watertown	MA	1	FE	1	FE	Y	N	
74 75	3092 3181	60-62 187-189	Boylston st.	Watertown	MA	1	FE FE	3/4	FE	Y	N N	
75	3181 3226	92-94	Boylston st. Boylston st.	Watertown	MA	1	FE	3/4	FE	Ÿ	N	
77	3243	53-55	Boylston st.	Watertown	MA	1	FE	1	FE	·	N	



# MassDEP Service Line Inventory Tools Jessica Sibirski, MassDEP



# MassDEP Inventory Fields (1 of 5)

COLUMN LETTE ▼	COLUMN NAME	THE GOTTLES			VALID VALUES DESCRIPTION
A	SITE ID		PWSs that do not wish to report site addresses to the department in column B may want to use this column to "link" their materials inventory table to a separate service address table for their own use.	Any value	
В	LOCATIONAL IDENTIFIER		Sub-subparagraph §141.84 (a)(8)(i) of the LCRR requires a location identifier associated with each service line. The locational identifier can be the site address, or it can be a block, intersection, or landmark.  The location identifier can be the site address. If the PWS does not wish to report addresses to the Department it can be a block, intersection, or landmark as long as the site is not part of the sample plan.	Any value	
С	LCR SAMPLING LOCATION?	REQUIRED	Is this location a Lead and Copper Rule (LCR) sample site?	YES NO	
D	CONNECTOR (GOOSENECK/PIGTAIL) CURRENTLY PRESENT?	REQUIRED	Is there a gooseneck, lead connector or pigtall present?	YES NO UNK	YES = Yes, Known with Certainty NO = No, Known with Certainty UNK = Unknown, Not Known with Certainty
E	CONNECTOR (GOOSENECK/PIGTAIL) MATERIAL	CONDITIONALLY REQUIRED	Identify the connector material if known. If column E is "YES" then this column is required.	L C B S P O UNK-NOLG	L = Confirmed Lead C = Confirmed Copper B = Brass S = Steel P = Plastic O = Other, does not contain lead or lead solder UNK-NOLG = Unkown, definitely does not contain lead or galvanized
F	CONTENT TO SECULIAR ENTER IN A LEGAL		The current utility-side service line pipe material, from the water main to curb stop.	L C G P DI CI-L CI-U UNK-LG UNK-NOLG	L = Confirmed Lead C = Confirmed Copper G = Confirmed Galvanized P = Plastic DI = Ductile Iron CI-L = Lined Cast Iron CI-U = Unlined Cast Iron UNK-LG = Unknown, may contain lead and/or galvanized UNK-NOLG = Unknown, definitely does not contain lead or galvanized
G	WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD?	REQUIRED	Was the service line ever previously lead?	YES NO UNK	YES = Yes, Known with Certainty NO = No, Known with Certainty UNK = Unknown, Not Known with Certainty



# **MassDEP Inventory Fields (2 of 5)**

		_			
COLUMN		OPTIONAL/	COLUMN DESCRIPTION	VALID VALUES	VALID VALUES DESCRIPTION
Н	PUBLIC SERVICE LINE SIZE	OPTIONAL	Service line pipe diameter in inches (e.g. 3/4", 0.75), from the water main to curb stop.  This column may be used by PWSs that wish to track information required in a single document.	3/8" 3/8" 5/8" 3/4" 1" 1 1/4" 1 1/2" 1 3/4" 2" 3" 4" 6" 8" 10" 12" 14" 16" OTH	
ı	PUBLIC SERVICE LINE INSTALL DATE				PLB = Pre lead ban ALB = After lead ban  E.g., 1910's, 1910s, 1920's, 1920s  E.g., 1974, 1993, 2003, 2020
J	CURRENT PRIVATE SERVICE LINE MATERIAL	REQUIRED		L C G P DI CI-L CI-U UNK-LG UNK-NOLG	L = Confirmed Lead C = Confirmed Copper G = Confirmed Galvanized P = Plastic DI = Ductile Iron CI-L = Lined Cast Iron CI-U = Unlined Cast Iron UNK-LG = Unknown, may contain lead and/or galvanized UNK-NOLG = Unknown, definitely does not contain lead or galvanized



# MassDEP Inventory Fields (3 of 5)

COLUMN LETTE ▼					▼ VALID VALUES DESCRIPTION	▼
к	PRIVATE SERVICE LINE SIZE		Service line pipe diameter, in inches (e.g. 3/4", 0.75), from the curb-stop to water meter.  This column may be used by PWSs that wish to track information required in a single document.	3/8" 1/2" 5/8" 3/4" 1" 1 1/4" 1 1/2" 1 3/4" 2" 3" 4" 6" 8" 10" 12" 14" 16" OTH		
L	PRIVATE SRVICE LINE INSTALL DATE		The four-digit year that the customer side service line was installed (e.g. 1974). If the exact year is not known, enter the decade (e.g. 1970s, 2000s). If unknown, was the service line installed Pre-Lead-Ban (PLB) or After-Lead-Ban (ALB).	PLB ALB  Valid Regular Expression Patterns: ^((1(1){?:(89)}[0-9](1)}((2(1){?:(0)}[0-2]))[0](1)?s(1)\$ ^[1-2](1)[0-9](3)\$	PLB = Pre lead ban ALB = After lead ban E.g., 1910's, 1910s, 1920's, 1920s E.g., 1974, 1993, 2003, 2020	
М	ENTIRE SERVICE LINE CLASSIFICATION		This is a calculated value. It will be automatically calculated based on changes made to the following columns:  - CURRENT PUBLIC SERVICE LINE MATERIAL (COLUMN G)  - WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD? (COLUMN H)  - CURRENT PRIVATE SERVICE LINE MATERIAL (COLUMN K)  To manually calculate the value select one or more of the cells in the column for ENTIRE SERVICE LINE CLASSIFICATION and then right-click. From the context menu select MassDEP - Inventory Column Options > Column N > Calculate Entire Service Line.	LEAD NON-LEAD GALVANIZED REQUIRING REPLACEMENT LEAD STATUS UNKNOWN		
N	VERIFICATION METHOD	REQUIRED	Methodology used for verification of service line material.	R F V I A S	R = Records Only F = Field Inspection Only V = Records Validation I = Records Invalidation A = Statistical Analysis S = Sequential Monitoring	34



# **MassDEP Inventory Fields (4 of 5)**

COLUMN LETTE -	COLUMN NAME		<u></u>		
0	BUILDING TYPE	REQUIRED	The type of structure that is served water by the service connection.  At a minimum, the PWS must identify the connection either SF, MF or NONRES.	SF MF SCH/CC RES/CC NONRES MIX O	SF = Single-Family MF = Multi-Family SCH/CC = School/Childcare RES/CC = Residential & In-Home Child Care NONRES = Nonresidential, Non-School, Non-Childcare MIX = Mixed Residential & Nonresidential O = Other
Р	POE/POU TREATMENT PRESENT?	CONDITIONALLY REQUIRED	Is the cold-water kitchen tap treated by point-of-entry or point-of-use softening, filter or other treatment? Required if column D is "YES".	YES NO UNK	YES = Yes, Known with Certainty NO = No, Known with Certainty UNK = Unknown, Not Known with Certainty
Q	BUILDING PLUMBING MATERIAL 1	CONDITIONALLY REQUIRED	The type of plumbing material(s) inside the structure for serving water. Required if column D is "YES".	L C CLS O UNK	L = Lead C = Copper CLS = Copper w/ Lead Solder O = Other, does not contain Lead or Lead Solder UNK = Unknown
R	BUILDING PLUMBING MATERIAL 2	OPTIONAL	If there is more than one known plumbing material type.	0	L = Lead C = Copper CLS = Copper w/ Lead Solder O = Other, does not contain Lead or Lead Solder UNK = Unknown
S	PLUMBING MATERIAL INSTALL DATE	CONDITIONALLY REQUIRED		<1983 1983-1984 > 1984 Valid Regular Expression Patterns: ^((1{1}{?:[89])[0-9]{1}) (2{1}{?:[0])[0-2]))[0]{1}'?s{1}\$ ^[1-2]{1}[0-9]{3}\$	E.g., 1910's, 1910s, 1920's, 1920's E.g., 1974, 1993, 2003, 2020
Т	SAMPLING PLAN LOCATION	CONDITIONALLY REQUIRED	If the location is part of the sampling plan choose between Routine or Alternative site. Required if column D is "YES".	R A	R = Routine Site A = Alternative Site



# **MassDEP Inventory Fields (5 of 5)**

COLUMN LETTE ▼	COLUMN NAME	OPTIONAL/ REQUIRED	COLUMN DESCRIPTION	VALID VALUES	▼ VALID VALUES DESCRIPTION
	SAMPLING SITE TIER	CONDITIONALLY REQUIRED	The Tier classification for the LCR Sampling Location.	TIER 1 TIER 2	
			This is a calculated value based on the following columns: - ENTIRE SERVICE LINE CLASSIFICATION (COLUMN N)	TIER 3 TIER 4	
			- BUILDING TYPE (COLUMN P)	TIER 5	
11			- CONNECTOR (GOOSENECK/PIGTAIL) CURRENTLY PRESENT? (COLUMN E) - CONNECTOR (GOOSENECK/PIGTAIL) MATERIAL (COLUMN F)	NA	
U			- WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD? (COLUMN H) - BUILDING PLUMBING MATERIAL INSTALL DATE (COLUMN T)		
			To manually calculate the value select one or more of the cells in the column for SAMPLING SITE TIER		
			and then right-click. From the context menu select MassDEP - Inventory Column Options > Column V : Calculate Sampling Site Tier.	>	
	REPLACED LSL PUBLIC OR PRIVATE SIDE?	OPTIONAL	Status of lead service line replacement performed during or after 2024.	PUBLIC	PUBLIC = Yes, public side of LSL
٧				PRIVATE	PRIVATE = Yes, private side of LSL
				BOTH	BOTH = Yes, both public and private side of LSL
	NEW REPLACED MATERIAL	OPTIONAL	The material of the new service line.	C	C = Copper
W				P OTH	P = Plastic OTH = Not Applicable
Х	LSL REPLACEMENT DATE	OPTIONAL	Date when lead service line was replaced.		
γ	COMMENTS	OPTIONAL	Additional information about this service location.	Any value	



## **MassDEP LSL Crowdsourcing Tool**

#### Follow the EPA guide to identify your service line material Before filling out this form you should review and follow the instructions in the EPA guide "Protect Your Tap: A Quick Check for Lead" for identifying your service line material. It's okay if you are not 100% certain of the material. Your water utility will follow-up with you if necessary. Homeowner's Full Name \* Enter the homeowner's full name. Example: Jonathan Smith **±** Homeowner's Email Address \* Homeowner's Phone Number **■** +1 (\_\_\_) \_\_\_-Street Address \* Enter the address of the building/house where the service line is located. DO NOT enter city, state, or zip code in this field. Example: 123 Elm Street City/Town \* Select the official town for the street address above. For example, for an address in Dorchester, the official city/town is Boston; Dorchester is a neighborhood, not an official city or town. Select **Public Water System** If known, select the public water system that serves the street address. You may type into

the field to filter the drop-down list options.

Select

Construction Year	
If known, enter the	year the building/house was constructed. Example: 1953
Service Line Materi	ial *
material of your ser	Guide " <u>Protect Your Tap: A Quick Check for Lead</u> " select the vice line. If you are unsure it's okay to select the material you ecessary your water utility will follow-up with you.
Select	•
Upload a photo of y	our service line. *  Drag and drop files here or browse files
Send me a copy of	f my responses

0 <b>-</b> i	primary ⊕ f <sub>×</sub>	row_id ⊕	pws_id ⊕ f×	customer_id	homeowner_name ⊕	homeowner_email	street_address ⊕	city_town
1								
2 0	4	4	3178000		Tsuyoshi Yano	tio.yano@mass.gov	123 Main Street	MELROSE
2 . 0 = = 0								



## **Lead Line Inventory: City of Chelsea**

Lead Line Service Inventory: City of Chelsea Case Study

Rebecca Wright
City of Chelsea



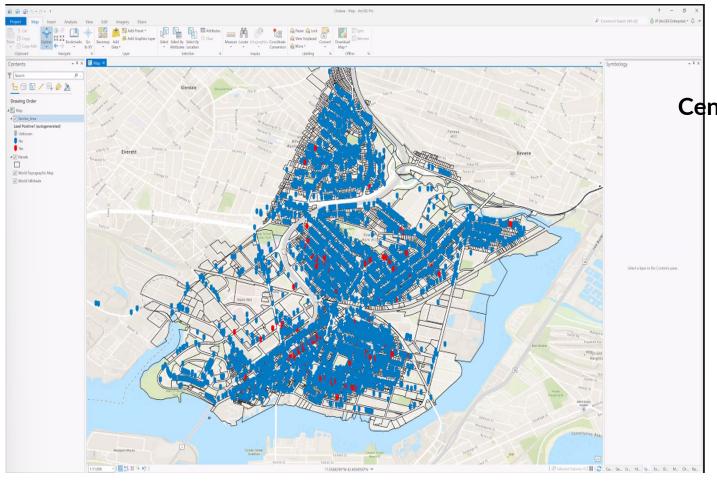
# Chelsea, Massachusetts



# Data management and inventories

Water Services								Water Main to	Curb Stop			Curb Stop to Premis	e (Cellar)						
Address	House Num	Lead Positive?	Lead Identified thru Meter Replacement Program	Lead Positive remaining from 2019 Replace. Prog.	Source	Last Recorded Inspection	Current Material	Current Size (in)	Length (ft)	Age	Current Material	Current Size (in)	Length (ft)	Age	Total Length	Original Material	Original Install Dat	Water Main ID	) Water Mai
45 ADDISON ST	45 ADDISON ST	NO	NO	No		2/20/2020	Copper	0.75	1	4 197	Copper	0.75	12	1973	26	Lead	7/23/1973	1517.00	6.0
46 ADDISON ST	46 ADDISON ST	NO		No		1/27/2020	Copper	0.75		9 196	Copper	0.75	15	1968	24	Lead	4/2/1968	1517.00	6.0
48 ADDISON ST	48 ADDISON ST	NO	NO	No		1/27/2020	Copper	0.75		8 199	Copper	0.75	6	1947	14	Lead	8/21/1947	1517.00	6.0
50 ADDISON ST	50 ADDISON ST	NO		No		1/28/2020	Copper				Copper					Lead	5/7/1971	#N/A	#N/
51 ADDISON ST	51 ADDISON ST	NO	NO	No		1/24/2020	Copper				Copper							1517.00	6.0
52 ADDISON ST	52 ADDISON ST	NO	NO	No		1/29/2020	Copper	0.75	1	5 197	Copper	0.75	7.5	1975	22.5	Lead	2/4/1927	1517.00	6.0
53 ADDISON ST	53 ADDISON ST	YES		Yes	Email	7/26/2019	Copper				Copper							1517.00	6.0
54 ADDISON ST	54 ADDISON ST	NO	NO	No		6/2/2020	Copper	0.75	1	0 196	Copper	0.75	17	1965	27	Copper	8/11/1965	1517.00	6.0
55 ADDISON ST	55 ADDISON ST	NO		No		10/24/2019	Copper	0.75	1	6 197	Copper	0.75	14	1973	30	Lead	3/29/1962	1517.00	6.0
56 ADDISON ST	56 ADDISON ST	NO	NO	No		10/28/2019	Copper				Copper							1517.00	6.0
57 ADDISON ST	57 ADDISON ST	NO	NO	No		1/23/2020	Copper	0.75	2	5 197	6 Copper	0.75	7	1976	32	Lead	1968	1517.00	6.0
59 ADDISON ST	59 ADDISON ST	NO	NO	No		1/23/2020	Copper	0.75	2	6 195	1 Copper	0.75	7	1951	33	Lead		1517.00	6.0
60 ADDISON ST	60 ADDISON ST	NO		No		10/1/2019	Copper				Copper						2/6/1959	1756.00	10.0
61 ADDISON ST	61 ADDISON ST	NO		No		5/29/2020					Copper							#N/A	#N/
64 ADDISON ST	64 ADDISON ST	NO		Replaced in Program		1/9/2020	Copper	0.75		9 195	7 Copper	0.75	9	1957	18	Copper	10/28/1957	1756.00	10.0
66 ADDISON ST	66 ADDISON ST	NO	NO	Replaced in Program		2/21/2020	Copper				Copper					Lead	2/7/1963	1756.00	10.0
69 ADDISON ST	69 ADDISON ST	NO	NO	No		2/19/2020	Copper	0.75	2	0 196	Copper	0.75	10	7/6/1960	30			1188.00	6.0
70 ADDISON ST	70 ADDISON ST	NO	NO	No		10/3/2019	Copper	0.75		194	Copper	0.75		1947		Lead	11/13/1947	1188.00	6.0
71 ADDISON ST	71 ADDISON ST	NO			mail on Fi	12/29/2021	Copper	1.00			Copper	1.00				Lead	7/13/1905	1188.00	6.0
72 ADDISON ST	72 ADDISON ST	NO	NO	No		1/9/2020	Copper	0.75		194	1 Copper	0.75	15	1941	15	Lead	10/30/1940	1188.00	6.0
73 ADDISON ST	73 ADDISON ST	NO		No		10/14/2019	Copper	0.75	1	5 6/14/197	Copper	0.75	10	********	25	Lead	5/15/1970	1188.00	6.0
74 ADDISON ST	74 ADDISON ST	NO	NO	No		1/9/2020	Copper	0.75	1	1 197	Copper	0.75	8	1970	19	Copper	5/5/1970	1188.00	6.0
75 ADDISON ST	75 ADDISON ST	NO		No		1/22/2020	Copper	0.75	2	0 #######	Copper	0.75	5	*******	25			1188.00	6.0
76 ADDISON ST	76 ADDISON ST	NO	NO	No		1/13/2020	Copper	0.75	1	2 196	Copper	0.75	10	1960	22	Lead	4/21/1960	1188.00	6.0
76 ADDISON ST	76 ADDISON ST	NO		No		1/22/2020	Copper				Copper							#N/A	#N/
77 ADDISON ST	77 ADDISON ST	NO	NO	No		1/22/2020	Copper				Copper							1188.00	6.0
78 Addison ST	78 ADDISON ST	YES	YES	No		See WS Card					Copper							1188.00	6.0
80 ADDISON ST	80 ADDISON ST	NO		No	Jose	12/29/2021	Copper	1		202	1 Copper	1		2021		Lead		1188.00	6.0
81 ADDISON ST	81 ADDISON ST	NO	NO	No		2/21/2020	Copper	0.75	2	0 8/1/195	5 Copper	0.75	6	8/1/1956	26	IEAD		1188.00	6.0
83 ADDISON ST	83 ADDISON ST	NO	NO	No		2/19/2020	Copper	0.75	2	0 11/8/198	Copper	0.75	10	*******	30	lead		1188.00	6.0
84 ADDISON ST	84 ADDISON ST	NO		No		2/17/2020	Copper	0.75		7 197		0.75		1971	_	Lead	8/19/1971		6.0
87 ADDISON ST	87 ADDISON ST	YES		No		1/21/2020	Lead				Copper	0.75		1967	_		,,	1188.00	6.0
88 ADDISON ST	88 ADDISON ST	NO		No	Jose	12/30/2021	Copper	1		202		1		2021	_	Lead	8/13/1904	1188.00	6.0
91 ADDISON ST	91 ADDISON ST	NO		No		1/20/2020	Copper			100	Copper					1	2,22,300	1188.00	6.0
92 ADDISON ST	92 ADDISON ST	NO		No		10/8/2019	Copper	0.75	1	5 198		0.75	13.58	1987	28.58	Lead	6/24/1914		6.0
96 ADDISON ST	96 ADDISON ST	NO				,-,-		0.75		150			10.50	150.			-,2-,452	1188.00	6.0
96 ADDISON ST #1	96 ADDISON ST	NO		No		1/8/2020	Copper	0.75	1	2 195	Copper	0.75	15	1958	27	Lead	1/28/1958		#N/
00.400000000	20 1001001107	VEA			_	0/0/2020	1		_	100	0	0.72			-		-,, 3550	1141/A	

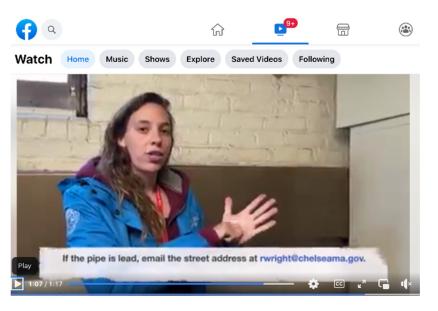
2022 Chelsea
Water Service
Inventory Master
Spreadsheet



GIS Output from Center for Geospatial Solutions

## **Communications**

#### **City of Chelsea Outreach**



#### WaterPIO March Water Billing Letter





## **Financial Assistance for LSL Replacement**

#### Financial Assistance for LSL Replacement

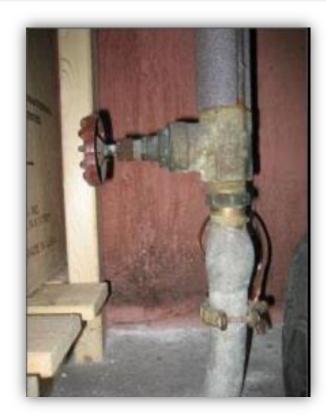
Jon Szarek

MWRA Community Support Program



## **MWRA Lead Loan Program**

- \$100 Million for community projects
- 10 year interest-free loans
- Projects must replace ALL lead pipe within a service line - BOTH public and private portions
- If any portion of service is lead or brass, entire service is eligible for replacement
- Funding for Inventory is an eligible cost





#### **MWRA Lead Loan Program**

47 MWRA Communities with Potential to Utilize Lead Loan Program

- 3 Communities with Greater than 1,000 Lead Services
- 7 Communities with 100 800 Lead Services
- 11 Communities with less than 80 Lead Services and some Lead Goosenecks
- 10 Communities with No Known Lead Services and some Lead Goosenecks
- 16 Communities with high confidence of No Lead Services and No Lead Goosenecks



## **MWRA Lead Loan Program – First 6 Years**

- Distributed \$32 Million to 13 Communities (32 Distributions):
  - Everett \$5.5 M
  - Marlborough \$5.0 M
  - Newton \$4.0 M
  - BWSC \$3.5 M
  - Winthrop \$3.0 M
  - Somerville \$2.5M
  - Winchester \$2.2 M
  - Revere \$1.5M
  - Quincy \$1.5 M
  - Needham \$1.0 M
  - Chelsea \$1.0 M
  - Watertown \$600,000
  - Weston \$160,000





## **What Should Be Replaced – Eligible Items**

Lead Service Pipe

Lead-Lined Service Pipe

Lead Goosenecks and Galvanized
 Pipe or any other Pipe
 Connected with Lead

Brass Pipe and Fittings





## **Lead Service Line Project Planning**

- Establish community goal to fully remove all lead pipe from both publicly-owned and privately-owned water services
- Project Planning Community Staff and Consultant Engineer
- Inventory of Lead Services, Mapping, and Public Disclosure
- Community Planning for Private-Side Incentive
  - Fully Fund Private Side
  - Partially Fund Private Side
  - Multi-Year Payment Plan for Private Side
- Targeted Outreach to Homeowners (Entry/Waiver Form)





#### **Private-Side Incentive Options**

#### Community Planning for Private-Side Incentive

- Fully Fund Private Side: Eleven (11) Communities with MWRA Loans
- Partially Fund Private Side: Two (2) Communities with MWRA Loans
- Multi-Year Payment Plan for Private Side: One (1) Community with MWRA Loan
- Rebate to Homeowner after Private-Side Lead Service is Replaced by Contractor: One (1) MWRA Community



### **MWRA Lead Loan Program Components**

- Application to MWRA for Lead Loan
- Community Authorization for Loan Repayment (via Town Meeting or City Council Vote)
- Community Executes Financial Assistance and Loan Agreements
- Bond Counsel Issues Bond
- Distribution of Funds to Community MMDT Account
- Community Utilizes Funds for Project





### **Other Funding Sources MA - SRF**

Massachusetts expects to receive approximately \$189 million in supplemental Bipartisan Infrastructure Law funding:

- CWSRF All Projects \$61M
- DWSRF LSL Replacements \$65.6M
- CWSRF Emerging Contaminants \$3.2M
- DWSRF All Projects \$41.7M
- DWSRF Emerging Contaminants \$17.5M

Maria Pinaud - MassDEP: <a href="maria.pinaud@mass.gov">maria.pinaud@mass.gov</a>
Nate Keenan - MCWT: <a href="maria.pinaud@mass.gov">nkeenan@tre.state.ma.us</a>

Massachusetts Department of Environmental Protection – https://www.mass.gov/state-revolving-fund-srf-loan-program Clean Water Trust - https://www.mass.gov/orgs/the-massachusetts-clean-water-trust



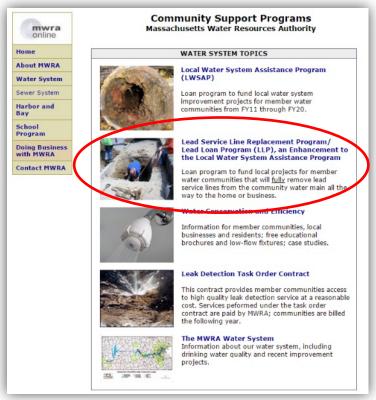
## **LSL Replacement**







#### **Community Support Program Website**



**MWRA Lead Loan Contacts** 

Jon Szarek

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**David Granados** 

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Claudia Baptista

claudia.baptista@mwra.com

http://www.mwra.com/comsupport/communitysupportmain.html



Don't Wait! Get Started Now!

Stephen Estes-Smargiassi



## **Lead Service Line Replacement Plan Required Elements**

- More Training After EPA Issues Guidance
- Strategy for resolving "unknowns"
- Procedures for <u>full</u> LSL replacement
- Strategy for informing customers prior to full or partial replacement
- Goal rate for replacement if over Trigger Level of 10 ppb (PWS GT 10,000)
- Procedure for customer flushing of service lines and premise plumbing and providing filters
- LSL Replacement prioritization strategy
- Funding strategy to accommodate those who cannot afford private side replacement



#### **Don't wait — use this time productively**

- Update sampling plan with more sites and LSL
- Coordinate with local officials on possible 24-hour notice
- Begin to develop improved inventory and outreach
- Initiate discussions on replacement program and funding options for private side costs
- If reasonably small number, get the LSLs out now!
- The goal is zero and no lead in contact with water move in that direction



#### **Corrosion Control Treatment is Key Element of Revised Rule**

- MWRA has started planning now, to be ready if changes are needed
- Lead pipe rig set up and being acclimated at Carroll WTP





## **MassDEP Emergency Response Plan Reminder!**

• PWSs serving over 3,300 population must complete MassDEP's newly updated ERP Compliance Checklist by **May 31, 2022**.

 The original request was sent to all public water suppliers on April 28, 2022.

• <a href="https://www.mass.gov/doc/notice-to-pws-emergency-response-plan-erp-checklist-required-to-document-erp-compliance/download">https://www.mass.gov/doc/notice-to-pws-emergency-response-plan-erp-checklist-required-to-document-erp-compliance/download</a>



## **Questions + How Can MWRA Help?**

# Dave Coppes Chief Operating Officer

- Use raise hand function
- Unmute
- Add Question in Chat
- Send an email later



#### **Massachusetts Water Resources Authority**

Training Contact Hours are available for today's presentation of

# MWRA and Advisory Board Forum on the Revised Lead and Copper Rule

To register for your training credits, please follow the link below to a course evaluation on Survey Monkey. Follow all the directions to ensure proper credit for your TCHs:

https://www.surveymonkey.com/r/9LQ5TYP

Any questions, contact Jack Porcello at Jack.Porcello@mwra.com



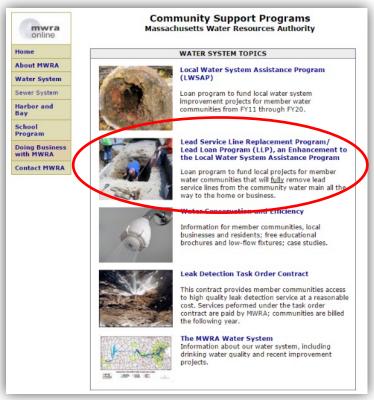


#### **Resources and Contacts**

- Stephen Estes-Smargiassi -- <u>smargias@mwra.com</u>
- Beverly Anderson <u>Beverly.Anderson@mwra.com</u>
- Jon Szarek Jon.Szarek@mwra.com
- Josh Das <u>Josua.Das@mwra.com</u>



#### **Community Support Program Website**



**MWRA Lead Loan Contacts** 

Jon Szarek

jon.szarek@mwra.com

**David Granados** 

david.granados@mwra.com

Claudia Baptista

claudia.baptista@mwra.com

http://www.mwra.com/comsupport/communitysupportmain.html



#### **Lead Resources**

#### **EPA**

- Lead and Copper Rule <a href="https://www.epa.gov/dwreginfo/lead-and-copper-rule">https://www.epa.gov/dwreginfo/lead-and-copper-rule</a>
- Reference Guide to Revised LCR <u>www.epa.gov/sites/production/files/2020-</u>
   12/documents/reference guide for pwss 12.21.20.pdf
- Basic Information <a href="https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water">https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water</a>

#### **MassDEP**

- **Drinking Water Regulations** <a href="https://www.mass.gov/regulations/310-CMR-22-the-massachusetts-drinking-water-regulations">https://www.mass.gov/regulations/310-CMR-22-the-massachusetts-drinking-water-regulations</a>
- Lead Service Line Replacements https://www.mass.gov/service-details/lead-service-line-replacement-requirements
- Incentive Loan Program <a href="https://www.mass.gov/service-details/incentivized-lead-service-line-replacement-program">https://www.mass.gov/service-details/incentivized-lead-service-line-replacement-program</a>
- SRF Loans https://www.mass.gov/how-to/getting-an-srf-loan

#### **MWRA**

- Lead Loan Program <a href="https://www.mwra.com/comsupport/llp/llpprogram.html">https://www.mwra.com/comsupport/llp/llpprogram.html</a>
- Water Testing https://www.mwra.com/04water/html/testinglabs.html
- Know About Lead In Tap Water <a href="https://www.mwra.com/04water/html/qual6leadinfo.htm">https://www.mwra.com/04water/html/qual6leadinfo.htm</a>

#### AWWA

- Replacement & Flushing Standard <a href="https://www.awwa.org/Store/Product-Details/productId/65634922">https://www.awwa.org/Store/Product-Details/productId/65634922</a>
- Pulling Lead Services <a href="https://www.mwra.com/comsupport/llp/documents/2016-07-awwa-opflow-trenchless-lsl/2016-07-awwa-opflow-trenchless-lsl.pdf">https://www.mwra.com/comsupport/llp/documents/2016-07-awwa-opflow-trenchless-lsl/2016-07-awwa-opflow-trenchless-lsl.pdf</a>

#### Lead Service Line Replacement Collaborative

• Collaborative Home Page - <a href="https://www.lslr-collaborative.org/">https://www.lslr-collaborative.org/</a>



#### **ASDWA LCRR Inventory Template**

#### **ASDWA Resources for Community Water Systems**

2003 - 1	nis template	is interfued for CWS	with traditional distribu	ition systems										
CWS Nam	ne and PWSID:													
Ownershi	ip of Service Line	s: public (PWS), private (	customer), or combination											
			ip split: meter or valve pit/cu	urb stop										
Date of Co	urrent Inventory													
CWS Cont	tact Person and C	Contact Information:												
SITE ID	LOCATIONAL IDENTIFIER	LEAD CONNECTOR CURRENTLY PRESENT? (E.G., GOOSENECK, PIGTAIL, OTHER)	CURRENT PUBLIC SERVICE LINE MATERIAL	WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD?	IS SERVICE LINE GALVANI ZED?	CWS SERVICE LINE INSTALL DATE	CURRENT CUSTOMER SERVICE LINE MATERIAL	CUSTOMER SERVICE LINE INSTALL DATE	VERIFICATION SOURCE	COMMENTS	CWS SERVICE LINE SIZE	CUSTOMER SERVICE LINE SIZE	IS THERE A COMMUNIT Y OUTREACH PROGRAM?	IS INFORMATION MAINTAINED IN SYSTEM'S ASSET MANAGEMENT PROGRAM?
	Geo locational	Y = Yes	L=Lead	Y = Yes	Y = Yes		L = Lead		R = Records Only					Y = Yes
		N = No	G = Galvanized Iron/Steel	N = No	N = No		G = Galvanized Iron/Steel		F = Field Inspection Only					N = No
		U = Unknown	C = Copper				C = Copper		V = Records Validation					
			P = Plastic				P = Plastic		I = Records Invalidation					
			O = Other				O = Other		A = Statistical Analysis					
			UL = Unknown but could co	ntain lead			UL = Unknown	but could cont	S = Sequential Monitoring					
			UN = Unknown but installed	d after state lead	ban date (	1986-88)	UN = Unknown	but installed	after state lead ban date (198	5-88)				
			UX = Unknown				UX = Unknown							
This is an	example of wha	t the state can provide as	a template to the system to	complete										
The codes	s to be put in dro	pdown are listed beneath	the header. Option needed	to type code in	directly an	d skip dro	odown.							
		black font (columns A-J)												
	now: green font													

ASDWA: Association of State Drinking Water Administrators -> Lead in Drinking Water -> Resources https://www.asdwa.org/lead-and-copper-rule-lcr/