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Why do Public Water Systems (PWSs) need to provide this information?

Under Section §141.84 of the Lead and Copper Rule Revision (LCRR), all community Public Water Systems (PWS) “must develop an inventory to identify the materials of service lines connected to the public water distribution system. The inventory must include all service lines connected to the public water

What specifically does the LCRR materials inventory require?

Subparagraph §141.84 (a) (4) of the LCRR states that “each service line, or portion of the service line where ownership is split, must be categorized” as belonging to one of the following groups: lead; non-lead; lead status unknown; or galvanized requiring replacement.

COLUMN LETTER	COLUMN NAME	OPTIONAL/ REQUIRED	COLUMN DESCRIPTION	VALID VALUES	VALID VALUES DESCRIPTION	CSV HEADER NAME
A	SITE ID	OPTIONAL	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		site_id
B	LOCATIONAL IDENTIFIER	REQUIRED	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 locational identifier MUST be unique. The locational identifier, once assigned, should NEVER change. MassDEP will use the locational identifier to uniquely identify the location. It will be used in our database as the unique primary key.	Any value	Must be unique	locational_identifier
C	LCR SAMPLING LOCATION?	REQUIRED	Is this location a Lead and Copper Rule (LCR) sample site?	YES NO		lcr_location
D	CONNECTOR (GOOSENECK/PIGTAIL) CURRENTLY PRESENT?	REQUIRED	Is there a gooseneck, lead connector or pigtail present?	YES NO UNK	YES = Yes, Known with Certainty NO = No, Known with Certainty UNK = Unknown, Not Known with Certainty	connector_present
E	CONNECTOR (GOOSENECK/PIGTAIL) MATERIAL	CONDITIONALLY REQUIRED	Identify the connector material if known. If column D is "YES" then this column is required.	L C B S PVC HDPE O UNK-NOLG	L = Lead C = Copper B = Brass S = Steel PVC = Plastic (PVC) HDPE = Plastic (HDPE) O = Other, does not contain lead or lead solder UNK-NOLG = Unkown, definitely does not contain lead or galvanized	connector_material
F	CURRENT PUBLIC SERVICE LINE MATERIAL	REQUIRED	The current utility-side service line pipe material, from the water main to curb stop.	L C G PVC HDPE DI CI-L CI-U B UNK-LG UNK-NOLG	L = Lead C = Copper G = Galvanized PVC = Plastic (PVC) HDPE = Plastic (HDPE) DI = Ductile Iron CI-L = Lined Cast Iron CI-U = Unlined Cast Iron B = Brass UNK-LG = Unknown, may contain lead and/or galvanized UNK-NOLG = Unknown, definitely does not contain lead or galvanized	current_public_sl_material
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	public_sl_prev_lead
H	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" 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		public_sl_size
I	PUBLIC SERVICE LINE INSTALL DATE	REQUIRED	The four-digit year that the utility-side service 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	public_sl_install_date
J	CURRENT PRIVATE SERVICE LINE MATERIAL	REQUIRED	Service line pipe material, from the curb-stop to water meter.	L C G PVC HDPE DI CI-L CI-U B UNK-LG UNK-NOLG	L = Confirmed Lead C = Confirmed Copper G = Confirmed Galvanized PVC = Plastic (PVC) HDPE = Plastic (HDPE) DI = Ductile Iron CI-L = Lined Cast Iron CI-U = Unlined Cast Iron B = Brass UNK-LG = Unknown, may contain lead and/or galvanized UNK-NOLG = Unknown, definitely does not contain lead or galvanized	current_private_sl_material
K	PRIVATE SERVICE LINE SIZE	OPTIONAL	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		private_sl_size
L	PRIVATE SRVICE LINE INSTALL DATE	REQUIRED	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	private_sl_install_date
M	ENTIRE SERVICE LINE CLASSIFICATION	REQUIRED	This is a calculated value. It will be automatically calculated based on changes made to the following columns: - CURRENT PUBLIC SERVICE LINE MATERIAL (COLUMN F) - WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD? (COLUMN G) - CURRENT PRIVATE SERVICE LINE MATERIAL (COLUMN J) 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 DEP: Inventory Col. Options > Column M > Calculate Entire Service Line.	LEAD NON-LEAD GALVANIZED REQUIRING REPLACEMENT LEAD STATUS UNKNOWN		entire_service_line

N	VERIFICATION METHOD	REQUIRED	Methodology used for verification of service line material. If more than one verification method was used pick the most accurate/highest verification method. Other and/or additional methods can be reported in column O.	F V A C S O	F = Field Inspection by PWS: This is considered the most accurate verification method that uses a physical and visual inspection by a trained staff person. Typically, at the time of meter replacement, service line replacement, or special inspections such as pot holing and vacuum excavation. V = Records Review: This verification method includes review of PWS current or past records. Including Tap/tie cards, distribution system main replacement or leak detection or any projects where service line material may have been recorded by PWS. Other potential sources of information in a community might include plumbing and building permits, or inspectional services records, or year of construction. A = Statistical Analysis: This verification method a qualified consultant uses statistical modeling and machine learning to predict the presence of lead service lines saving time and resources looking for lead service lines. C = Customer Self-Identification: This verification method uses information collected from building occupants, and typically in includes photos of the service line. The MassDEP Crowdsourcing application or a similar software solution can be used to collect the and verify the information. S = Sequential Monitoring: This verification method can be used if the physical inspections, records review or statistical analysis are not feasible. This method employs a process of taking five 1-liter samples and analyzing the samples for lead to determine if the service line is likely lead. O = Other MassDEP-Approved Method: Alternative methods. Examples – electrical resistance acoustic wave, eddy current, other technologies that may be developed. DEP can and will review these approaches for validity and accuracy.	verification_method
O	OTHER MASSDEP APPROVED VERIFICATION METHOD	CONDITIONALLY REQUIRED	Describe the other MassDEP-Approved verification method or, if more than one verification method listed in Column M options was used, then list the method(s) in this column.			
P	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	building_type
Q	POE/POU TREATMENT PRESENT?	CONDITIONALLY REQUIRED	Is the cold-water kitchen and/or bathroom tap treated by point-of-entry or point-of-use softening, filter or other treatment? Required if column C is "YES".	YES NO UNK	YES = Yes, Known with Certainty NO = No, Known with Certainty UNK = Unknown, Not Known with Certainty	poe_pou_treatment
R	BUILDING PLUMBING MATERIAL 1	CONDITIONALLY REQUIRED	The type of plumbing material(s) inside the structure for serving water. Required if column C is "YES".	L C CLS B PEX O UNK	L = Lead C = Copper CLS = Copper w/ Lead Solder B = Brass PEX = Cross-Linked Polyethylene O = Other, does not contain Lead or Lead Solder UNK = Unknown	building_plumbing_material_1
S	BUILDING PLUMBING MATERIAL 2	OPTIONAL	If there is more than one known plumbing material type.	L C CLS B PEX O UNK	L = Lead C = Copper CLS = Copper w/ Lead Solder B = Brass PEX = Cross-Linked Polyethylene O = Other, does not contain Lead or Lead Solder UNK = Unknown	building_plumbing_material_2
T	PLUMBING MATERIAL INSTALL DATE	CONDITIONALLY REQUIRED	The four-digit year, or decade (e.g., 1960's), that the interior premise plumbing was installed. If the decade is in 1980s, enter one of: 1983-1984, <1983, or >1984. Required if column C is "YES".	< 1983 1983-1984 > 1984 Valid Regular Expression Patterns: ^([1]{1}[?:[89]]{0-9}[1]) (2{1}[?:[0]]{0-2}))[0]{1}[?]{1}\$ ^[1-2]{1}[0-9]{3}\$	E.g., 1910's, 1910s, 1920's, 1920s E.g., 1974, 1993, 2003, 2020	building_plumbing_material_install_date
U	SAMPLING PLAN LOCATION	CONDITIONALLY REQUIRED	If the location is part of the sampling plan choose between Routine or Alternative site. Required if column C is "YES".	R A	R = Routine Site A = Alternative Site	sampling_plan_location
V	SAMPLING SITE TIER	CONDITIONALLY REQUIRED	The Tier classification for the LCR Sampling Location. This is a calculated value based on the following columns: - ENTIRE SERVICE LINE CLASSIFICATION (COLUMN M) - BUILDING TYPE (COLUMN P) - CONNECTOR (GOOSENECK/PIGTAIL) CURRENTLY PRESENT? (COLUMN D) - CONNECTOR (GOOSENECK/PIGTAIL) MATERIAL (COLUMN E) - WAS PUBLIC SERVICE LINE MATERIAL EVER PREVIOUSLY LEAD? (COLUMN G) - 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 DEP: Inventory Col. Options > Column V > Calculate Sampling Site Tier.	TIER 1 TIER 2 TIER 3 TIER 4 TIER 5 NA		tier
W	REPLACED LSL PUBLIC OR PRIVATE SIDE?	OPTIONAL	Status of lead service line replacement performed during or after 2024.	PUBLIC PRIVATE BOTH	PUBLIC = Yes, public side of LSL PRIVATE = Yes, private side of LSL BOTH = Yes, both public and private side of LSL	replaced_sl
X	NEW REPLACED MATERIAL	OPTIONAL	The material of the new service line.	C P OTH	C = Copper P = Plastic OTH = Other Material	replaced_material
Y	LSL REPLACEMENT DATE	OPTIONAL	Date when lead service line was replaced.			replacement_date
Z	COMMENTS	OPTIONAL	Additional information about this service location.	Any value		comments