

Appendix B – Municipal Scan

Municipality	Number of Public Lead Service Connections	Public Portion of Lead Service Connection	Private Portion of Lead Service Connection	Financing of Public Portion	Financing of Private Portion	Lead Exposure Mitigation/Corrosion Control	Lead Testing	Communications
Regina	~ 3 600	Public lead service connections are replaced at City expense during water main replacements, major road upgrades, redevelopment and emergency repairs.	No record of private side of service connections. Changing the private side is currently voluntary.	Free to resident.	Currently, no financing of the private side of lead water service connections in place. Once private portion is replaced, resident or property owner can apply through the LSCMP to have the City-owned portion replaced,	A filter rebate of up to \$100 or a water filter and filters are provided to homeowners on an annual basis where a lead service connection is confirmed, test results show lead at levels higher than national drinking water guidelines or a private side lead water service connection is confirmed.	Two testing programs are available to residents in areas with known lead water service connections. Please see Appendix A for full description of testing programs.	Educational material is provided on Regina.ca and directly to sampling participants regarding actions residents and property owners can take to reduce their potential exposure to lead. An annual notification letter is provided to residents and owners of properties serviced by a City-owned lead service connection.
Brandon	~ 3 000	Public lead service connections are replaced at City expense during water main replacements and emergency repairs.	They do not have complete records of the private side, but during water meter work, City staff note lead lines. Changing the private side is currently voluntary.	Free to resident.	The City will coordinate the replacement of the entire lead service connection, both private and City-owned sides. The City only pays for the City-owned side of the replacement.	A one-time filter rebate of up to \$100 is provided to homeowners where a lead service connection is confirmed; Or Test results show lead at levels higher than national drinking water guidelines. Orthophosphates have been discussed but are not likely to be used for 3-5 years.	Residential lead testing: Residents are charged \$20 if they live in known lead areas. \$45 for residents not in known lead areas. Residents pick up bottles, collect the samples, and return samples to the lab for testing.	Website with age of home (based on taxation records) and a map showing the areas with known lead service connections. An initial letter was sent to 5200 homes based on house age, presence of lead service connection. No annual letter. Occasional communication by newspaper and radio. Public is also referred to Manitoba Health and Office of Drinking Water.
Calgary	~ 550	Public lead service lines are replaced due to redevelopment, leaks, watermain replacement, and through the Annual Tap Water Sampling Program. No more partial replacements. If the private side will not replace, the public side is not typically replaced.	If residents opt to replace the private side, it is at their own expense. The City will then accelerate the replacement of the public side. If the resident opts not to replace the private side, the public side will not be replaced unless absolutely necessary.	Free to resident.	The City will coordinate the replacement of the entire service connection. The homeowner can pay for the private portion up front, or have the amount added to their property taxes on an interest-free payment plan amortized over 15 years.	Rebate for a certified NSF-53 kitchen-tap mounted or built-in water filtration device. They are now considering offering all certified point of use filters. They are now considering giving out the actual filters, not just a rebate. Orthophosphates were considered and determined not to be ideal for Calgary's situation.	Residential lead testing free for properties known to or likely to have a lead water service line. City staff or contractor completes the testing. Other residents must pay for their own sampling.	Annual notice to lead service connection sites and suspected lead service connection sites. Communication with affected residents regarding test results and related messaging and tips.

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Edmonton	~ 3 000	No more partial replacements. If the City replaces a lead service connection (whether planned or due to emergency repair or during road re-construction), they replace the entire line up to the water metre at 100% City expense.	If residents independently opt to replace the private side, it is at their own expense. They can then show a receipt/invoice for the work to the City. The City will then accelerate plans to replace the public side (usually 60-90 days) for free.	Free to resident.	Free to resident if the City is replacing the public side, they replace the whole line up to the water metre for free. This is paid for out of a recent non-routine rate adjustment which Council imposed on the entire City, so the cost is spread across many rate payers. If residents opt to have the private side replaced independently, they pay 100% of the cost for the private side. The public side will then be replaced for free.	A pilot study of Orthophosphate Treatment began 4 years ago. The City plans two doses of orthophosphates for 2020, and will then re-sample water in affected areas to ensure lead levels are below the Maximum Allowable Concentration. A free Brita filter is provided to lead service locations one time only. New tenants or homeowners also qualify for a free filter unit.	Free lead testing to affected residents through the lead testing program, but only in those areas where lead is known or suspected.	An annual notice letter in the spring to known lead service connection sites and suspected sites. Notice to new accounts at suspected lead service connection sites. Regular contact with affected residents for test results and related information.
Moose Jaw	~ 2 000	The Public portion of the service connection is replaced by the City at City expense if there is a leak, or if the private side is replaced, or if lead is found during Cast Iron Watermain Replacement.	If there is a leak on the private side of the service connection, lead replacement is required (City crew or private contractor at homeowner choice). Otherwise, replacement of the private side is voluntary. If the public side is replaced, the City encourages the private side to replace, but does not require it.	Free to resident.	Previously, the homeowner was charged a set fee for replacement of private portion of the lead service connection. Going forward, construction and reconstruction of service connections will be performed on an actual cost recovery basis with a maximum upset limit to the property owner of \$15,000. The cost can be put on taxes and repaid over 7 years with interest.	Orthophosphates have been discussed, but may have implications for cast iron watermains, so have not been pursued at this time. Filters are generally only supplied to residents if the private side has been replaced and lead levels remain elevated.	Residents with lead service connections receive free testing for lead. The bottles are dropped off in the mailbox, the resident completes the testing, and the City picks up the bottles for analysis. Private individuals without known lead connections are charged \$30.	Initially, a letter was sent to all residents who may be affected. The City is currently considering re-communicating to all residents, but does not automatically do an annual letter. Case by case communication with affected residents is ongoing.
Saskatoon	~ 2 800	The public portion of the service connection is replaced by the City at City expense in conjunction with water main replacement.	The private side of the service connection is mandatorily replaced in conjunction with the replacement of the City-owned portion. The homeowner is responsible for 40% of the total cost, and the City is responsible for the remaining 60% of the total cost of the replacement.	Free to resident.	The City allows for residents to pay the contractor up front; put the cost of the replacement on next year's taxes; spread the cost of the replacement over 3 and 5 year options with associated administration fees; or spread the cost of replacement over 10 years if qualified for low income cut off criteria as published by Statistics Canada.	No filter program in place. No discussion of the use of Orthophosphates.	Letters requesting voluntary participation in the study were sent to 143 residents in 2020. Fifty-five residential samples were collected in accordance with Health Canada's Guidelines for reduced annual monitoring program. Participants were provided four, one litre sample bottles and a thermometer. They collected four sequential samples and reported the time and temperature at the beginning and end of sample collection. All found samples were analyzed by laboratory staff and pH and alkalinity were recorded for each sample.	Annual notification to all properties with lead pipes and online published map showing areas where lead pipes are known. Information also provided on Saskatoon.ca.

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Montreal	~ 48 000	Plans to replace all public 48 000 Lead Service Connections up to the water meter by 2030. City pays for City side, replaces the entire Lead Service Connection up to the water meter and bills the resident for the private side. No more partial replacements.	They estimate that there are 16 800 Lead Service Connections on the private side which will need to be replaced by 2030.	Free to resident. Estimating cost of replacement work for the public portion will be up to \$516M by 2030.	Previously the City replaced the public side and encouraged the owner to replace the private side voluntarily. The private side rarely elected to change at private expense. The private side continues to have the right to replace voluntarily, but now the City will proceed with replacing both the public and private side together and then bill the owner for the cost of the private side (generally between \$2200 to \$5000) if the owner does not elect to change voluntarily. The homeowner will have up to 15 years to pay the bill. A new bylaw will obligate the owner to change the private side if the public side has already been changed. Testing will confirm completion of the work.	An NSF-Certified for lead reduction filter is provided free if it is confirmed through testing that a lead service line is present.	City agents book appointments for free lead testing from May to October annually. By 2022 Montreal will accelerate its lead detection program.	Online lead service connection map. Awareness campaign with bilingual targeted letter. Pamphlets.
Halifax	~ 3,500	The City owned side is replaced by the City at City expense if there is service connection failure, watermain replacement, the private side is replaced. No partial service replacements.	They do not have complete records on the private side, but have identified a boundary for their suspected lead areas and are compiling data. Residents have been responsible to replace their own service connection voluntarily. There has been little uptake on this.	Free to resident.	Replacements are coordinated with street paving and renewal schedule. Replacements will be completed at no cost to the property owner. Replacements are scheduled through Halifax Water and could take place at any time throughout the life of the program. At any time, property owners can replace their lead service connection at their cost and apply for a rebate of 25% of the total cost, up to a maximum of \$2,500.	Halifax began introducing orthophosphates to the system in 2015 as a mitigation strategy. Additionally a free filter and replacements for up to 1 year are provided whenever the connection is disturbed through either a public or private side replacement.	They have a lead testing program within the boundary of their suspected lead area. Tenants and/or owners can receive a sampling kit. Residents who have a known lead service connection, live in a home built prior to 1960 with unknown service material or have special circumstances receive free one-off testing. After a lead service connection replacement occurs (public or private or both), residents are offered frequent testing until lead levels drop to 0.01.	Online map for identifying whether home is likely to have lead service connection. Aggressive public outreach campaign, videos, promoting rebates, brochures, interviews, aligned with street projects. Planned construction and emergency construction notification letters at known and suspected lead service connection sites. Constant communication with test results and related information.