

Lead Service Line Identification and Replacement Plan

New Brunswick Water Utility

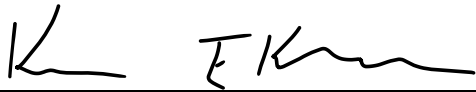
NJ 1214001

7/29/2024

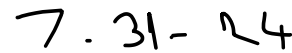
☐ New Plan ☒ Revised Plan as of 07.29.2024

1. Plan Certification

I have verified and certify the information listed in this Plan is true and accurate to the best of my knowledge and belief:



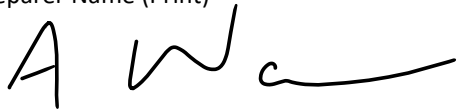
Plan Preparer Signature



Date

Kouao-Eric Ekoue

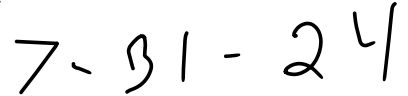
Plan Preparer Name (Print)



Supplier of Water Signature

Superintendent

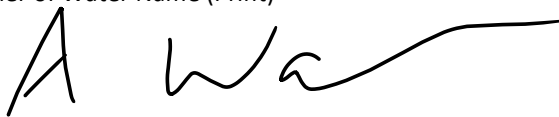
Title



Date

Alexei Walus

Supplier of Water Name (Print)



Licensed Operator Signature

Director

Title



Date

Alexei Walus

Licensed Operator Name (Print)

278886

License Number

2. General Water System Information

System Name:	PWSID:
Total Number of Service Connections:	
Number of Lead Service Lines:	
*Galvanized service lines are considered to be lead service lines and should be included in this total.	
Number of Service Lines of Unknown Material:	
Number of Service Lines Comprised of Other Materials:	
Total Population Served (excluding transient populations):	

2a. Contact Information

<u>System owner</u> contact information:	
Name: Alexei Walus	Title: Director
Phone: 732-745-5211	Email: awalus@cityofnewbrunswick.org
<u>Licensed operator</u> contact information	
Name: Alexei Walus	Title: Director
Phone: 732-745-5211	Email: awalus@cityofnewbrunswick.org
License (VSWS, T1, W1, etc.):	License Number: T4-0027886 W4-0022054
<u>Additional Licensed operator</u> contact information (if applicable)	
Name: Kouao-Eric Ekoue	Title: Superintendent
Phone: 732-745-5060	Email: ee koue@cityofnewbrunswick.org
License (VSWS, T1, W1, etc.):	License Number: T4-798110 W4-839995
<u>Plan Preparer</u> contact information	
Name: Kouao-Eric Ekoue	Title: Superintendent
Phone: 732-745-5060	Email: ee koue@cityofnewbrunswick.org

Under N.J.S.A. 58:12A-44, a public community water system must create a lead service line replacement plan. The plan must be updated annually or when new information becomes available regarding replacements, identification of lead service lines, or changes in staff. This plan is required to be kept on site, and made available for review upon request.

3. Responsible Parties	
List names, titles, and details for the following:	
1. Creation and maintenance of the Lead Service Line Replacement Plan:	Mark Tompeck (Mott MacDonald)-Program Manager
2. Identification of lead service lines:	The City of New Brunswick is participating to the Lead Service Line Identification and Replacement Accelerator Program and ongoing water and sewer main replacements.
3. Maintenance of service line inventory:	Duane Chapman (Mott MacDonald) – Inventory Manager
4. Construction Oversight:	Anthony Tomassello (Mott MacDonald) - Construction Manager
5. Funding:	Richard Mulrine - CFO
6. Public Outreach Coordinator::	JT Miller – Public Information Officer
7. Maintenance of online inventory updates:	Duane Chapman (Mott MacDonald) – GIS and Inventory Manager
8. Annual resubmission of the Lead Service Line Replacement Plan:	Eric Ekoue (City of New Brunswick) – Lead Service Line Task Force Lead
9. Other:	

4. Service Line Inventory Development and Maintenance	
Strategy for identifying service lines of unknown materials. <i>Note that all service lines must be identified by 2031, regardless of their composition material.</i> Check all applicable boxes of the strategies that your system is using to develop their service line inventory.	
☐ We do not have service lines of unknown material within our water system's service area	
Methods of Investigation	Completion Date
☒ Review historical and building records	01/21/2022
☒ Review distribution system maps and record drawings	Ongoing
☒ Field/visual inspection with or without full excavation	Ongoing
☐ Review sampling results and water quality information	
☐ Sequential monitoring	
☒ Review capital improvement plans and/or master plans for distribution system development	Ongoing
☒ Review utility records including meter installation records, customer complaint investigations, etc.	Ongoing
☒ Review documentation which indicates and/or confirms the location of lead service lines:	Ongoing
☒ Review existing connections	Ongoing
☐ Review results from service line sampling where lead service lines are suspected to exist, but their presence is not confirmed	

☒ Conduct customer survey	Ongoing
☐ Review county appraisal district records	
☐ Review county and municipal ordinances	
☐ Records from area plumbers	
☐ Documented interviews of local contractors, developers, and builders	
☒ Other: Machine learning of potential lead service line locations being performed under the Lead Accelerator program	Ongoing

5. Replacement Schedule Development and Replacement Considerations

5a. Methods used to identify the prioritization of lead service line replacements (use numbers to indicate the level of priority, with "1" being the highest priority)

☐ We do not have lead service lines within our service area. In the event one or more lead service lines are found in the future, we will prioritize replacement based on the considerations indicated below.

☒ Sensitive populations* 2 ☐ Proximity to high lead results* ☐ Previous partial replacement* ☐ Areas that receive a lot of water quality complaints* ☒ Overburdened Communities * 1 ☐ Licensed childcare centers * ☐ Areas where there are no service lines of unknown material ☐ Areas where all service lines are of unknown material ☐ Areas where pipe replacements are already being conducted ☐ Previous participation in PbCu sampling ☐ Areas with high density of children *Prioritization consideration should focus on sensitive populations and previously known lead concentrations	☐ Age of current water main ☐ Proximity to other known contaminants ☐ Pressure gradient ☐ Road moratoriums ☐ Ownership ☐ LSLs close to interconnections with a wholesaler which utilizes CCT ☐ Areas of source water or treatment changes ☐ Areas where all residents have agreed to participate in the program ☒ Service lines containing lead only on the water system side 4 ☒ Service lines containing lead only on the property-owner side 5 ☒ Predictive modeling results 3
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5b. Explanation of how the system is prioritizing replacement based on the considerations identified under 5a. above, and how a replacement schedule will be implemented. Example: The prioritization of the replacements is focused on identifying areas with sensitive populations such as nursing homes and nursery schools.

Past sampling events have shown that these areas also have high lead results. By focusing replacement on these areas first, we are addressing the areas where lead contamination has the most adverse impacts on public health.

The prioritization of the replacement is focused on sensitive populations such as childcare facilities, schools, children under the age of five, and confirmed lead service lines. By focusing on these areas first, we are addressing the known lead (galvanized) service line in the water systems, as well as addressing the areas where lead contamination has the most adverse impacts on the health of those who drink the water.

5c. Coordination with Property Owners

What portion of the service line is owned by the water system?	☐ The system owns the entire service line (main to house)	☐ The system owns a portion of the service line (main to curb)	☒ The system does not own any portion of the service line
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How will the system conduct public outreach regarding its lead service line replacement program? Provide links to all publicly available materials.

- An informational website has been developed which provides a link to the latest inventory and educational materials on the City's website: [Welcome to City of New Brunswick, New Jersey](#)
- Attend all city events with a utility tent to display and distribute reading materials

How will the system solicit property owner/customer's approval to replace lead service lines?

Thus far, permission has been arranged with individual property owners on a case-by-case basis. Further consideration is being given to preparing a standard form of agreement for access to customer property.

Provide a summary of any applicable legal requirements or other considerations. *E.g., prior to replacing the property-owner portion of a lead service line, a contract between the water system, contractor and property-owner must be signed and executed through the following process.*

Prior to replacing the lead service line, a contract between the water system, contractor and property owner must be signed and executed.

In the event of a property owner/customer's refusal to replace the service line the water system will:

- ☒ Document the incident using the Department's Customer Refusal Form located on the Department's website <https://www.nj.gov/dep/lead/resources.html>:
- ☒ Continue to contact the property owner/customer each year for participation and continue to document all outreach efforts.
- ☒ When applicable, inform the customer the property-owner refused to replace their portion of the lead service line; and therefore, the lead service line in its entirety must remain.

5d. Coordination with Municipalities & NJDOT

How will the water system work with local municipalities in our service area and NJDOT to coordinate replacement efforts to minimize costs, impacts on roads, and neighborhood disturbances?

- ☐ By meeting with municipalities on a ☐ monthly ☐ bi-monthly basis
- ☒ By participating in public meetings
- ☒ By attending council meetings
- ☒ By checking NJDOT website monthly
- ☒ By developing an outreach program with the municipalities/local authorities
- ☒ Other. Explain: [Coordination with the City's paving plan through the Engineering Department](#)

5e. Disposal of Lead Service Lines

Water systems should take steps to make sure all lead service lines removed are disposed of properly. *Check the boxes of the steps your system will take to ensure service lines are properly disposed. The Department recommends the following:*

- ☒ By ensuring that the contractors remove them to an appropriate facility/scrapyard for disposal
- ☐ By keeping records of the sale ticket and receipts on file for our records.
- ☐ Other _____

5f. Emergency Replacement

What steps will the water system take in the event an emergency replacement is necessary?

- ☒ By having materials, staff resources, and procedures in place to replace the service line.
- ☒ Replace the lead service line as part of the emergency repair.
- ☒ Document the service line materials if they are made known and replace at a later date.
- ☐ Other _____
- ☒ List sampling and notification procedures that will be implemented during an emergency replacement:
- [Right of entry agreement would need to be provided to customer](#)
 - [Pitcher filter would be provided following replacement](#)
 - [Sampling 3-6 months following lead service line replacement](#)

6. Prioritization of Lead Service Line Replacements Map

Identify the following water system components as provided on the Distribution Map (see Appendix)

Included items:

- ☒ Each area of priority
- ☐ Delineation of pressure zones # of pressure zones: _____
- ☒ Lead service lines
- ☒ Service lines of unknown material
- ☐ Areas of replacement
- ☐ Scheduled year of replacement (phase)
- ☐ Delineation of areas receiving CCT
- ☐ Delineation of areas receiving no/different CCT from seasonal EPTDS
- ☐ Treatment plant(s)

7. Financing

7a. Lead Service Line Replacement Financing

Will the water system require approval from another agency or governing body prior to beginning replacements (due to budgetary issues):

☒ Yes

☐ No

If yes, explain:

New Brunswick is planning to submit a funding application to the I Bank.

List certifications, if any, that will need to be obtained before beginning replacements:

N/A

How will the replacement be funded?

The Use of public funds through federal, state, and local funding.

Is the water system government-owned? ☒ Yes ☐ No

- If yes, will the property owner be responsible for a portion of the replacement cost? ☐ Yes ☒ No
- If yes, what amount?

Does the water system intend to utilize the resources available through the Drinking Water State Revolving Fund (DWSRF)? ☒ Yes ☐ No

- If yes, which funding does the system intend to utilize?

The State of New Jersey program for financing environmental infrastructure projects. The program specific to lead service line replacement will be used.

Does the water system serve any municipalities that meet New Jersey's Affordability Criteria? ☒ Yes ☐ No

For more information, visit the Department's Water Infrastructure Investment Plan webpage at:

<https://www.nj.gov/dep/wiip/index.html>

How will the water system accommodate consumers that are unable to pay to replace the portion of the service line that they own?

7b. Setting Aside Funds for Mailings and Other Future Costs

To ensure that there are adequate funds to cover the cost of lead service line replacement activities, check all that apply:

- ☒ Securing and setting aside funds on a yearly basis to cover the additional costs of certified mailing associated with each phase of replacement.
- ☒ Securing and setting aside funds for any outreach costs associated with replacements
- ☒ Securing and setting aside funds for customer request samples in the event the system triggers an Action Level Exceedance.
- ☒ Securing and setting aside funds for additional customer request samples for partial replacements if performed. *(Customers may request a partial replacement up to 6 months after the replacement is complete.)*
- ☒ Making sure that there is adequate funding set aside in the event that additional staffing is needed
- ☒ Securing and setting aside funds if additional lead service lines are identified and must be replaced

8. Notification Requirements

Notification Letters

We will use NJDEP templates and send letters to consumers for the following notifications:

- ☒ Public Education Letters
 - ☒ Annual notifications of LSLs
 - ☒ Properties with newly identified LSLs will receive a certified letter on the template created by the Bureau.
 - ☒ Replacement notifications before and after each replacement
 - ☒ Annual notification of unknown service lines-
- If applicable, refer to your system's Lead and Copper Sampling Plan for additional public education and notification requirements in the event of a lead action level exceedance. The information will need to include what your water system is doing regarding your LSLR program.

**All notification letters must also include a written notification in any language in which greater than 10% of the population served by the water system speaks less than very well. The Department has put together guidance to assist water systems in determining if the people within the municipality(ies) they serve primarily speak a language other than English, which can be found here: <https://www.state.nj.us/dep/watersupply/pdf/secondary-language-directions.pdf>. If you cannot find information on a specific municipality, the Department recommends that you consult with the municipality(ies) for this information.*

9. Annual Reporting

For submissions beginning in 2023:

- An updated LSL inventory will be submitted to NJDEP by 7/10 annually
- Our annual progress report will be submitted to NJDEP for the period of 7/1 – 06/30 by 7/10 annually
- An updated LSL replacement plan will be submitted to NJDEP by 7/31 annually
- We will send out Customer Notice of LSL Material letters to properties with newly identified LSLs via certified mail, and all other properties served by a LSL via standard mail by 8/10 annually
- Lead Service Line Notification Form will be sent to NJDEP by 8/20 annually

- ☒ Check to certify that your water system is in compliance with these reporting requirements

**Attach a copy of the Customer Notice of LSL Material letters to this Plan.*

10. Other Considerations

10a. Lead Service Line Inventory and Lead and Copper Sampling Plan: *Check the boxes to indicate that your system will make the following updates as needed.*

- ☒ LSL Inventory and the Lead and Copper Sampling Plan should be updated in conjunction with each other. We will update lead and copper plan to reflect lead service line replacements on a semi-annual basis and keep on file for our records.
- ☒ The Lead and Copper Sample Location Spreadsheet (BWSE-18) will be submitted to the Department within 30 days of making sample site changes due to lead service line replacements.

10b. Filter Distribution

The LCRR, effective October 16, 2024, requires pitcher filters or point of use devices to reduce lead in drinking water to be distributed to consumers following a partial or full service line replacement, replacement of a lead connector and some disturbances before the affected line is returned to service.

We will provide filters to customers:

- ☒ Yes

We will provide water filters under these circumstances (bolded choices are required and must be checked):

- ☒ **When a partial or full replacement occurs**
☒ **When a lead connector is replaced**
☒ **When a disturbance occurs**
☐ When an ALE occurs
☐ When lead results come back high
☐ We will provide filters to customers without cause

In the event of a lead action level exceedance, filters will be provided to:

- ☐ To all consumers served by the water system
☒ Only those affected by known lead service lines

When lead results come back high, these filters will be provided to:

- ☐ To all consumers served by the water system
☒ Only those affected by known lead service lines

What types of filters will be provided (i.e. faucet mounted/point of use, pitchers, etc)? Include specific brand and model # if known:

[Brita long last everyday water pitcher and filter.](#)

Will additional replacement filters be provided? **(when filters are provided, replacement cartridges are required to be supplied for 6 months)** Yes ☒ No ☐

Will instructions on how to use the filters be provided? Yes ☒ No ☐

Describe the methods used to track the properties which have received filters and properties who were not provided filters?: [Requirements for contractors to note location and date of filter distribution and tracking will be completed in City's database](#)

10c. Flushing Procedures

Per 40 CFR 141.84(b)(5), water systems are required to provide a procedure for consumers to flush service lines and premise plumbing of particulate lead. Explain the system's procedure for providing this information to consumers:

1. Turn on an outside faucet of your home/building and leave it running at the highest rate possible. Flushing should continue for at least ten minutes (longer if there is a visible appearance of particulates or other matter within the water being flushed). Be sure to safely direct water away from your home. The system or contractor may have indicated they completed this step.

2. Locate all faucets, laundry tubs, sinks, bathtubs, showers, and hose bibs that have a proper drain. Remove all screens and aerators, including showerheads, and make sure all drains are clear. Fully extend flexible faucets for flushing.

3. Turn off or bypass any water softener or filtration system to allow for maximum flow.

4. Turn on the cold-water faucets in the basement (or lowest floor). Leave all faucets running at the highest rate.

5. Turn on the cold-water faucets on the next highest floor. Continue until all faucets are running on all floors.

6. Record the order in which the faucets were turned on.

7. Leave water running for at least 30 minutes.

8. Turn off the faucets in the same order they were turned on.

9. Clean or replace the faucet aerators and screens before you re-attach. Separate the individual parts and, if necessary, soak them in white vinegar for a few minutes and scrub them with a brush.

Conduct the above flushing once every two weeks for three months.

10d. Replacement Goal Rate

Per 40 CFR 141.84(b)(4), a water system that serves over 10,000 customers and incurs a lead trigger level exceedance is required to set a replacement goal rate. If applicable, what is the system's replacement goal rate?

If applicable, the goal rate will be 14 services per year.

10e. Communication Attempts and Refusal Tracking

To ensure that water systems make a sufficient effort at replacing the customer owned portion of the service line, water systems will track their communication attempts. Systems will track the annual number of attempts for replacing the customer-owned portion of the service line, number of non-responses and refusals for each address, as well as the dates associated with these communication attempts. Department has created a tracking spreadsheet for water systems to use located on our Additional Resources website <https://www.nj.gov/dep/lead/resources.html>

Check this box indicating that the water system will track communication attempts and refusals, either using the Department's form, or another system or electronic tracking method. ☒

11. Division of Water Supply & Geoscience Contact Information

Bureau of Safe Drinking Water

(609) 292-5550

04/2024

Bureau of Water System Engineering	(609) 292-2957
Bureau of Water Resources & Geoscience	(609) 292-2576

12. APPENDIX *Check all that apply and are enclosed*

☒ Appendix A: Lead Service Line (LSL) Inventory Report (DEP_10-S_00014)

☒ Appendix B: Map

☒ Appendix C: Progress Report (DEP_10-S_00027)