Lead Service Line Replacement Plan

Village of Huntley

Facility ID: IL-1110350

☒ New Plan ☐ Revised Plan Date: 4/11/2024

Under Public Act 102-0613, a public water supply owner must create a lead service line replacement plan. The Plan must be updated annually or when new information becomes available regarding the replacements, identification of lead service lines, changing priorities, contract expirations, or changes in staff. This Plan is required to be published on the owner's web site and made available for State review upon request.

1. General Public Water Supply Information- Appendix A										
1A. Public Water Supply: Village of Huntley							Facility ID: IL-1110350			
1B. Total Number of Service Connections: 11,100							County: McHenry, Kane			
1C. Total Number of Suspected Lead and Galvanized Service Lines: 42										
1D. Total Number of Known Lead and Galvanized Service Lines: 9										
Final Inventory Total Number of Lead and Galvanized Services: 1,200 or Less										
1E. Number of Lead Replacement Service Lines:	2020:		2021:		2022:		2023:	18	2024:	

2. Contact Information	
Public Water Supply Owner contact information:	
Name: Tim Farrell	Title: Director of Public Works and Engineering
Phone: 847-515-5285	Email: TFarrell@Huntley.il.us
Licensed operator contact information	
Name: Steve Zonta	Title: Water Operator
Phone: 847-515-5281	Email: szonta@huntley.il.us
	License Number: 18149730
Plan Preparer contact information	
Name: Jon Duddles P.E., CFM	Title: Senior Construction Engineer
Phone: 847-823-0500	Email: jduddles@cbbel.com

3. Lead Service Line Replacement Goal Rate and Schedule- Appendix B

The Public Water Supply proposes a lead service line replacement goal rate of 7% (1,200 or less) per year based on the **Final Inventory Number** above. The proposed schedule will be found in Appendix B.

Completion in Years per %- 7%- 15 years, 6%- 17 years, 5%- 20 years, 3%- 34 years, 2%- 50 years

A Public Water Supply may apply to the Agency for an extension to the replacement timelines. The Agency shall develop criteria for granting replacement timeline extensions. When considering requests for timeline extensions, the Agency shall, at a minimum, consider: the number of service connections in a water supply; and unusual circumstances creating hardship for a community.

The Agency may grant one extension of additional time equal to not more than 20% of the original replacement timeline, except in situations of extreme hardship in which the Agency may consider a second additional extension equal to not more than 10% of the original replacement timeline.

4. Financing -Appendix C

4a. Lead Service Line Replacement Financing

Will the Public Water Supply need to have approval from a governing body prior to beginning replacements (due to budgetary issues)?

☒ Yes

☐ No

If yes, please choose all that apply:

☒ Budget Appropriation

☐ IEPA Public Water Supply Loan Program (PWSLP)

☐ CDBG Funding

☐ Bond Issuance

☐ Water Rate or Fee Increase

☐ Other:

How will replacements be funded?

Local funds

How will the Public Water Supply address customer owned portions of service lines that are owned by customers who are unable to pay to replace the portion they own?

The Village will be paying 100% cost of all replacements.

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?

4b. Setting Aside Funds for Mailings and Other Future Costs

Our water system will ensure that there are adequate funds to cover the cost of lead service line replacement activities by:

☒ 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 samples following an LSL replacement.

☒ Securing and setting aside funds for filter pitchers and replacements provided following an LSL replacement.

☒ Make sure that there is adequate funding set aside if additional staffing or consulting is needed.

☒ Securing and setting aside funds if additional lead service lines and galvanized requiring replacement service lines are identified and must be replaced.

☒ Applying for Local, State and Federal Funding where applicable.

☐ N/A- No Lead Services

5. High Risk Facility Prioritization

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) Detailed list is Appendix D and Mapped locations on Appendix E.

__ Pre-Schools	**__ Playgrounds**
_1_ Known lead service lines	**__ Hospitals**
__ Day Care Centers	**__ Medical Clinics**
__ Group Day Care Homes	**__ Other High Risk:**
__ Parks	
☐ N/A- No Lead Services	

5b. Explanation of how the system is prioritizing replacement locations using the methods identified above and how the schedule will be implemented. ***Example: The prioritization of the replacements is focused on identifying areas with sensitive populations such as daycares and preschools. 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 the health of those who drink the water.***

The prioritization of the replacements will start with any high-risk facility. The next priority will be the replacement of service lines in conjunction with any scheduled water main replacement project. The final priority will be to replace all remaining services at a time when funding is available.

☐ N/A- No Lead Services

6. Prioritization of Lead Service Line Replacements Map

Clearly identify and explain below the areas identified that correspond on the Map included in the Appendix E.

☒ Phase I- 2024 Lead Service Line Replacement Contract
☒ Phase II- 2025 Lead Service Line Replacement Contract

☐ N/A- No Lead Services

7. DBE Participation

☒ We will comply with all DBE requirements of Public Act 102-0613
☒ We will use IDOT DBE Special Provisions within our contract specifications.
☐ N/A- No Lead Services

8. LSL Replacement Procedure

☒ We will comply with ANSI/AWWA C810-17 Replacement and Flushing of Lead Service Lines
☒ We will use the procedure attached in Appendix F.
☐ N/A- No Lead Services

9. Notification Requirements

Consumer Notification

☒ We will notify owners and non-owner customers of plans to conduct a full or partial service line replacement at least 45 days in advance:

- ☐ Using IDPH Template.
- ☒ Using our own template (Attached in Appendix G).

☒ We will use IDPH templates letters for the following notifications:

- ☒ Waiver of Complete Lead Service Line Replacement
- ☐ Other:

☒ We will use our own templates letters for the following notifications (attached in Appendix G):

- ☒ Public Education.
- ☒ Lead Risk Mitigation.
- ☒ Annual notifications of LSLs – Each year customers who still have an LSL must receive a notification.
- ☒ Annual notifications of galvanized requiring replacement service lines – required every year.
- ☒ Annual notifications of service lines with unknown materials – required every year.

☐ N/A- No Lead Services

In the event of a property owner/customer's refusal to replace the service line the Public Water Supply will:

☒ Document the incident.

☒ Continue to contact the property owner/customer each year for participation and continue to document all outreach efforts.

☒ IDPH- Waiver of Complete Lead Service Line Replacement

☒ Recorded Document of IDPH- Waiver of Complete Lead Service Line Replacement to PIN at County Clerk's office

☐ Other:

9a. Lead Risk Mitigation Procedures

Event	Pitcher or Filter Program	Sample	Flushing Instructions	Consumer Notification	Public Education
Full LSL Replacement	Yes	Yes	Yes	Yes	Yes
Temporary Partial LSL Replacement (30-120 Days)	Yes	Yes	Yes	Yes	Yes
Emergency LSL Replacement	Yes	Yes	Yes	Yes	Yes
Customer Notifies Utility of intent to replace LSL in advance	Yes	No	Yes	Yes	Yes
Customer Notifies Utility of LSL replacement after completion	Yes	No	Yes	Yes	Yes
Disturbance of a LSL, GSR or Unknown Service Line	No	No	Yes	Yes	No
Disturbance of a LSL, GSR or Unknown Service Line from replacement of a water meter, meter setter, gooseneck, pigtail or connector	Yes	No	No	Yes	Yes

Pitcher or Filter Requirements – The Public Water Supply must provide the consumer with a pitcher filter or point-of-use device certified by an American National Standards Institute (ANSI) accredited certifier to reduce lead, six months of replacement cartridges, and instructions for use before the affected service line is returned to service. If the affected service line serves more than one residence or non-residential building (e.g., a multi-unit building), the Public Water Supply must provide a filter, six months of replacement cartridges and use instructions to every residence in the building.
Sample Requirements – The Public Water Supply must offer to collect a follow-up tap sample between three months and six months after completion of a full or partial LSL replacement. The Public Water Supply must provide the results of the sample to the customer as soon as practicable, but no later than 3 calendar days after the Public Water Supply learns of the tap monitoring results.
Flushing Instructions – The Public Water Supply must provide information about service line flushing before the affected service line is returned to service. These instructions are for the customer to flush the service line and premise plumbing of particulate lead.
Consumer Notification Templates -The Public Water Supply must notify customers of the risk of elevated lead levels, provide public education materials, and provide flushing instructions before returning a service line to service following a replacement or disturbance. The templates address the required elements.

10. APPENDIX

Check all that apply and are enclosed

- ☒ Appendix A: Lead Service Line Inventory List
- ☒ Appendix B: Proposed Lead Service Line Replacement Schedule
- ☒ Appendix C: Cost analysis and funding options associated with replacing lead and galvanized service lines
- ☐ Appendix D: High Risk Facilities Priority Plan -**Currently Under Development**
- ☐ Appendix E: Replacement Plan Map with sequences labeled (Phase 1, 2, 3, etc.) **Currently Under Development**
- ☒ Appendix F: Procedure for conducting full lead service line replacement
- ☒ Appendix G: Notification Templates (If developed by Public Water Supply)
- ☒ Appendix H: IEPA Lead Service Line Replacement Plan Checklist

11. Plan Certification

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

Jon Duddles Plan Preparer Signature	4-15-24 Date
Jon Duddles P.E., CFM Plan Preparer Name (Print)	Senior Construction Engineer Title
 Public Water Supply Official Signature	4/12/2024 Date
Tim Farrell Public Water Supply Official Name (Print)	Director of Public Works and Engineering Title
 Licensed Operator Signature	4/12/2024 Date
Steve Zonta Licensed Operator Name (Print)	18149730 License Number

Proposed Lead Service Line Replacement Schedule and Goals

Village of Huntley IL-1110350

Appendix B

	Total Number of Lead Services	Goal Amount	Goal Percentage	1-Year	5-Year	10-Year	15-Year	17-Year	20-Year	25-Year	30-Year	50-Year
Number of Service Line Replacements	1,200 or Less	51	7%	4	18	36	51					
Number of Service Line Replacements	1,200 to 5,000		6%	0	0	0	0	0				
Number of Service Line Replacements	4,999 to 10,000		5%	0	0	0	0	0	0			
Number of Service Line Replacements	9,999 to 99,999		3%	0	0	0	0	0	0	0	0	
Number of Service Line Replacements	Above 99,999		2%	0	0	0	0	0	0	0	0	0

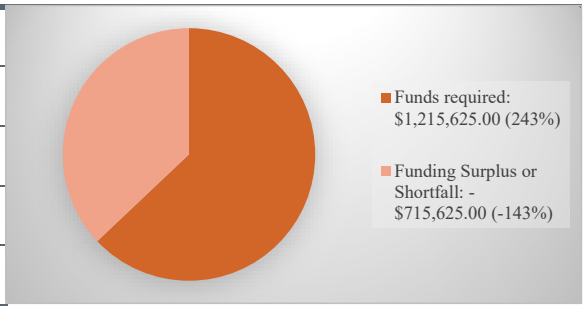
Lead Service Line Replacement Plan

PLAN INFORMATION

Public Water Supply	Village of Huntley
Facility ID-	IL-1110350

FUNDING OPTIONS

Water Fund	$500,000
General Fund	$0
Public Water Supply Loan Program (PWSLP)	$0
Congressional Direct Spending Grant	$0
IEPA -Lead Service Line Replacement Fund	$0
Water Infrastructure Improvements for the Nation (WIIN) Grant	$0
CDBG Fund	$0
Other Funding	$0
Total allotted funds	$500,000
Funds required	$1,215,625
Funding Surplus or Shortfall	($715,625)



Estimate of Cost

PLAN FUNDS ALLOTTED	FUNDS USED TO DATE	FUNDS REMAINING
$500,000.00	$0.00	($715,625.00)

Item	Unit	Unit Cost	Quantity	Amount
PRIVATE WATER SERVICE LINE, 1 INCH COPPER	EACH	$10,000.00	51	$510,000.00
PUBLIC WATER SERVICE LINE, 1 1/2 INCH SHORT	EACH	$7,500.00	26	$191,250.00
PUBLIC WATER SERVICE LINE, 1 1/2 INCH LONG	EACH	$10,000.00	26	$255,000.00
PRIVATE WATER SERVICE FOUNDATION CONNECTION	EACH	$500.00	51	$25,500.00
PRIVATE WATER SERVICE METER CONNNECTION	EACH	$500.00	51	$25,500.00
DISCONNECT OLD SERVICE AT WATER MAIN	EACH	$500.00	51	$25,500.00
SITE RESTORATION PER LOCATION	EACH	$500.00	51	$25,500.00
SANITARY SEWER LATERAL REPAIR, 6 INCH WQP	EACH	$500.00	26	$12,750.00
SANITARY SEWER CLEANOUT	EACH	$500.00	26	$12,750.00
SANITARY SEWER SERVICE TELEVISING	EACH	$300.00	13	$3,825.00
LEAD FILTER PITCHER WITH SIX MONTHS OF CARTRIDGES	EACH	$50.00	51	$2,550.00
EXPLORATORY EXCAVATION	EACH	$1,000.00	26	$25,500.00
CONTINGENCY	LUMP SUM	$100,000.00	1	$100,000.00
Total				$1,215,625.00

Appendix F

Lead Service Line Replacement Procedure

A procedure for conducting full lead service line replacement is a set of steps that aim to remove and replace the pipes that carry drinking water from the main to the customer's property. Lead service lines are a major source of lead exposure in drinking water and can pose serious health risks.

The following is a procedure for conducting full lead service line replacement:

- Identify the location and condition of the lead service line (LSL) that connects the water main to the customer's property.
- Notify the customer of the planned LSL replacement and obtain their consent and cooperation.
- Coordinate with the local authorities and utility companies to obtain the necessary permits and approvals.
- Excavate the area around the LSL and expose both ends of the pipe.
- Cut and remove the LSL using appropriate tools and safety precautions.
- Install a new service line made of copper, plastic, or other approved material, following the manufacturer's instructions and local codes.
- Connect the new service line to the water main and to the customer's plumbing system, ensuring a tight seal and proper alignment.
- Restore the water service and flush the new service line to remove any debris or air pockets.
- Test the water quality for lead and other contaminants and inform the customer of the results.
- Repair and restore the ground surface and landscaping to their original condition.
- Document and report the replacement work and results to the relevant agencies and stakeholders.