

LEAD SERVICE REPLACEMENT PROGRAM



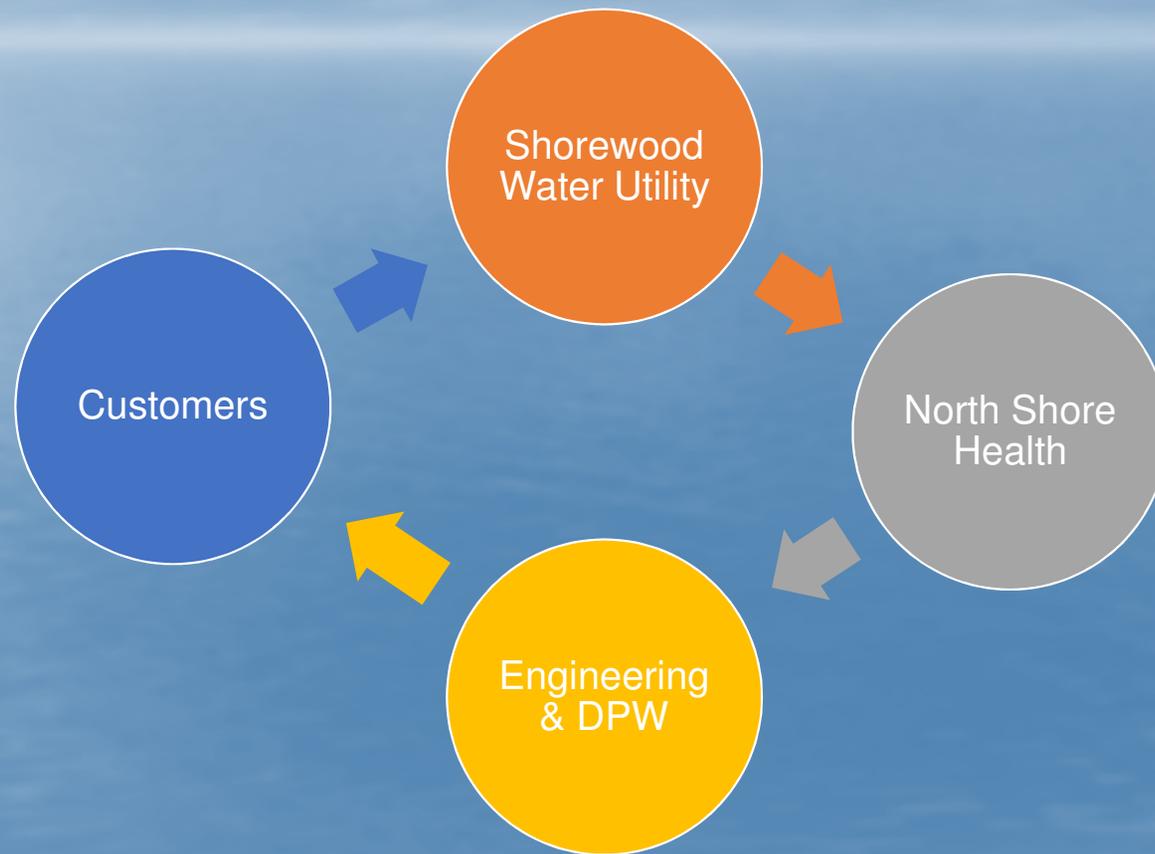
PROJECT SCOPE

- Properties with planned service replacement

<u>Water Service Replacement</u>			
<u>E. Beverly Rd.</u>	<u>N. Harcourt Pl.</u>	<u>E. Kensington Bl.</u>	<u>N. Cramer St.</u>
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	3955	4501	
	3959	<u>N. Murray Ave.</u>	
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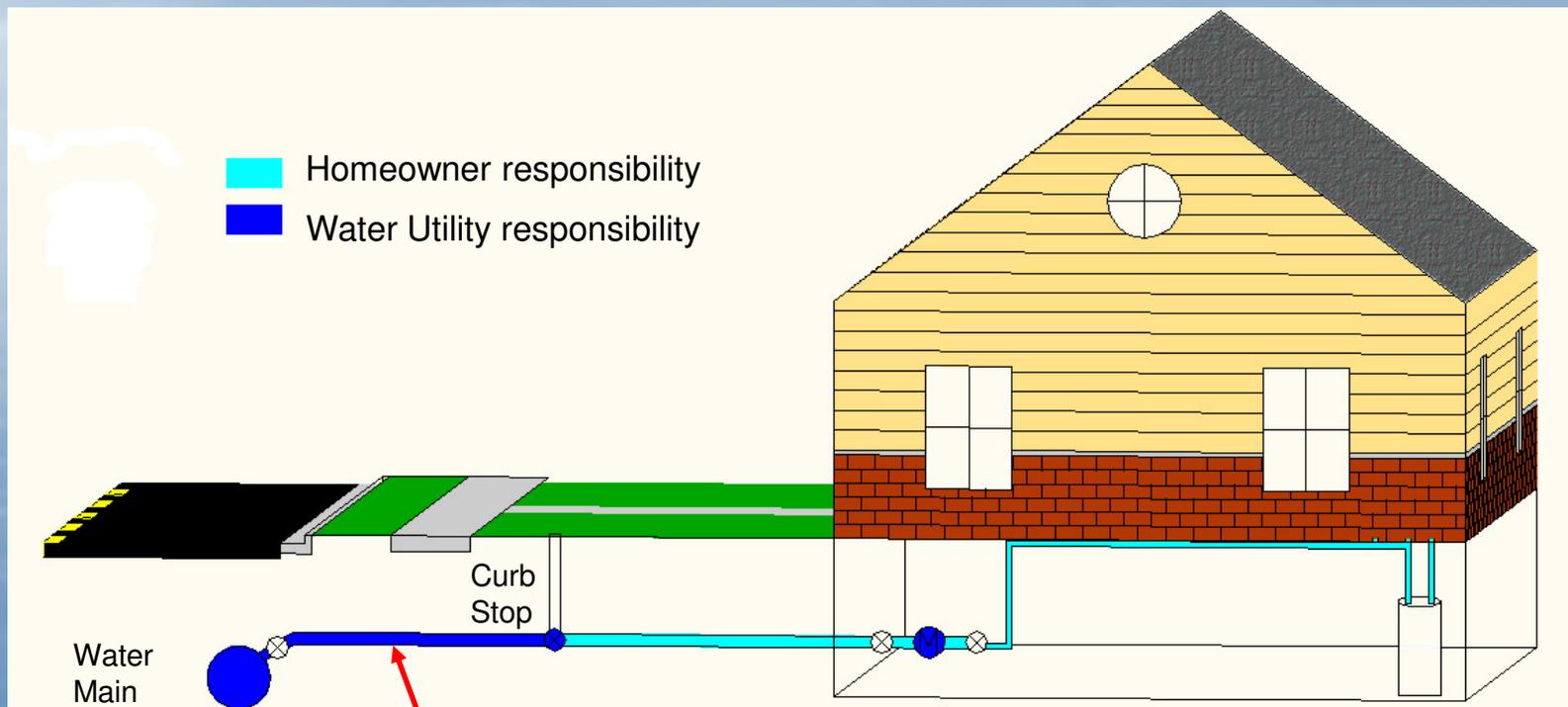
PROJECT COLLABORATION



SERVICE REPLACEMENT PROGRAM

- Adopted by Village Board March 21, 2016
- Four components
 - Public education and information
 - Removal of lead (Pb) services from public distribution system
 - Protecting our customers
 - Long-term actions

WATER SERVICE LINE ILLUSTRATION



PUBLIC EDUCATION AND INFORMATION

- Safety of our drinking water
 - Lead NOT found in our source water, Lake Michigan
 - Corrosion control
- Shorewood program modeled on that of Greater Cincinnati Water Works

HEALTH IMPACTS OF LEAD

- Lead has been used for hundreds of years in a wide variety of products.
- Lead can enter the body through breathing or consuming it.
- Young children are most vulnerable – developing body, brain and metabolism.
 - An elevated blood lead level is currently $\geq 5\mu\text{g}/\text{dL}$
 - In 2014, 4.5% of Wisconsin children tested had BLL of $\geq 5\mu\text{g}/\text{dL}$.
 - 2.2% of children in North Shore cities had BLL of $\geq 5\mu\text{g}/\text{dL}$
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HEALTH IMPACTS OF LEAD IN DRINKING WATER

- Tap water contributes 10-20% of total lead exposure in the United States.
- Studies show temporary lead increases in water following partial lead service line replacement.
- EPA and CDC recommend full lead service line replacement as best option to reduce exposure to lead.
- When partial replacement does occur:
 - Flush tap water immediately (30 min) and daily (10 min)
 - Use home water filters until lead levels return to baseline

2016 REMOVAL OF LEAD SERVICES FROM DISTRIBUTION SYSTEM

- Replacement of all services (63) in water main relay areas
- Municipal service section at 100% utility cost
- Private service replacement is NOT REQUIRED
 - If elected, at property owner cost
 - OPTION 1 Village contractor provides exterior service installation; interior connections by homeowner's choice of plumber
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 - Costs will vary by property

PROTECTING OUR CUSTOMERS

- Baseline lead level test
 - **REQUEST** to establish baseline lead level by taking **pre-construction** sample from each connected home in water main relay areas.
- Homes with partial lead lateral will be provided a water filter and three month supply of replacement cartridges.
- Flushing protocol strongly encouraged.
 - Date of new connection 30 minute whole house flush
 - Daily 10 minute flush for 30-60 days
 - Utility bill credit
- **REQUEST post-construction** lead level tests at intervals of one week, one month and weekly until levels return to baseline.
- Test results shared with homeowner.
 - 15 day turnaround on lab results

LONG-TERM ACTIONS

- Build upon program developed for 2016 with continued review of industry practices and standards.
- Evaluate long-term replacement policy and schedule.

ADDITIONAL QUESTIONS

Shorewood Public Works/Water Utility **414.847.2650**

Leeann Butschlick, Director of Public Works

Joel Kolste, Assistant Director of Public Works

Scott Bohm, Water/Sewer Utility Foreman

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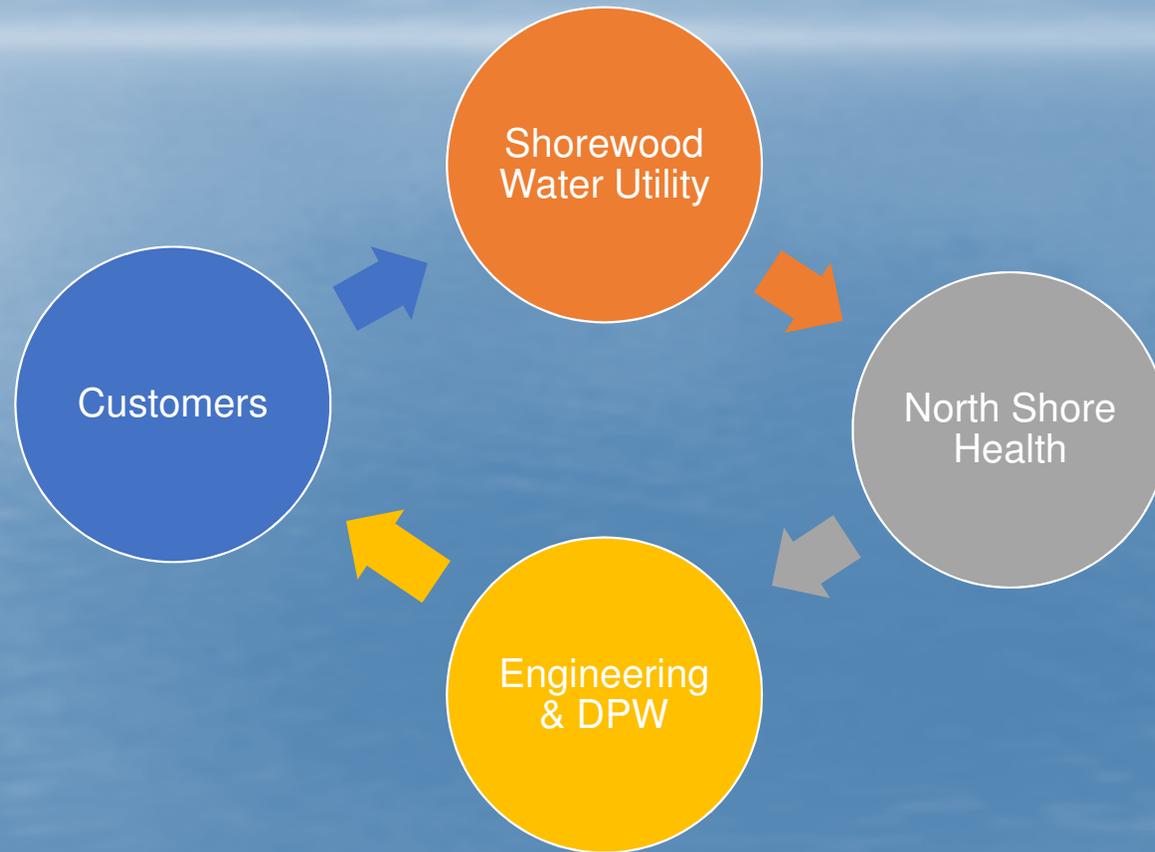
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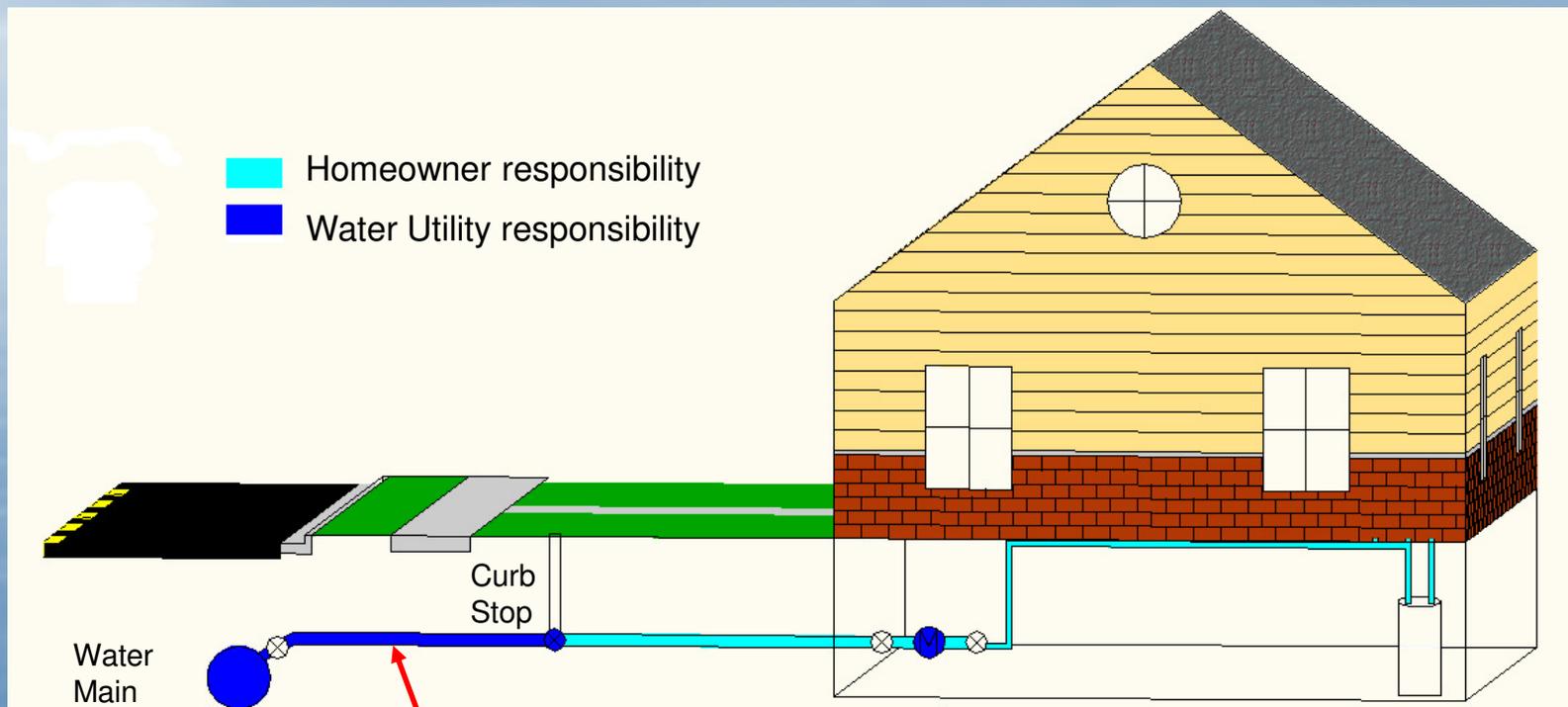
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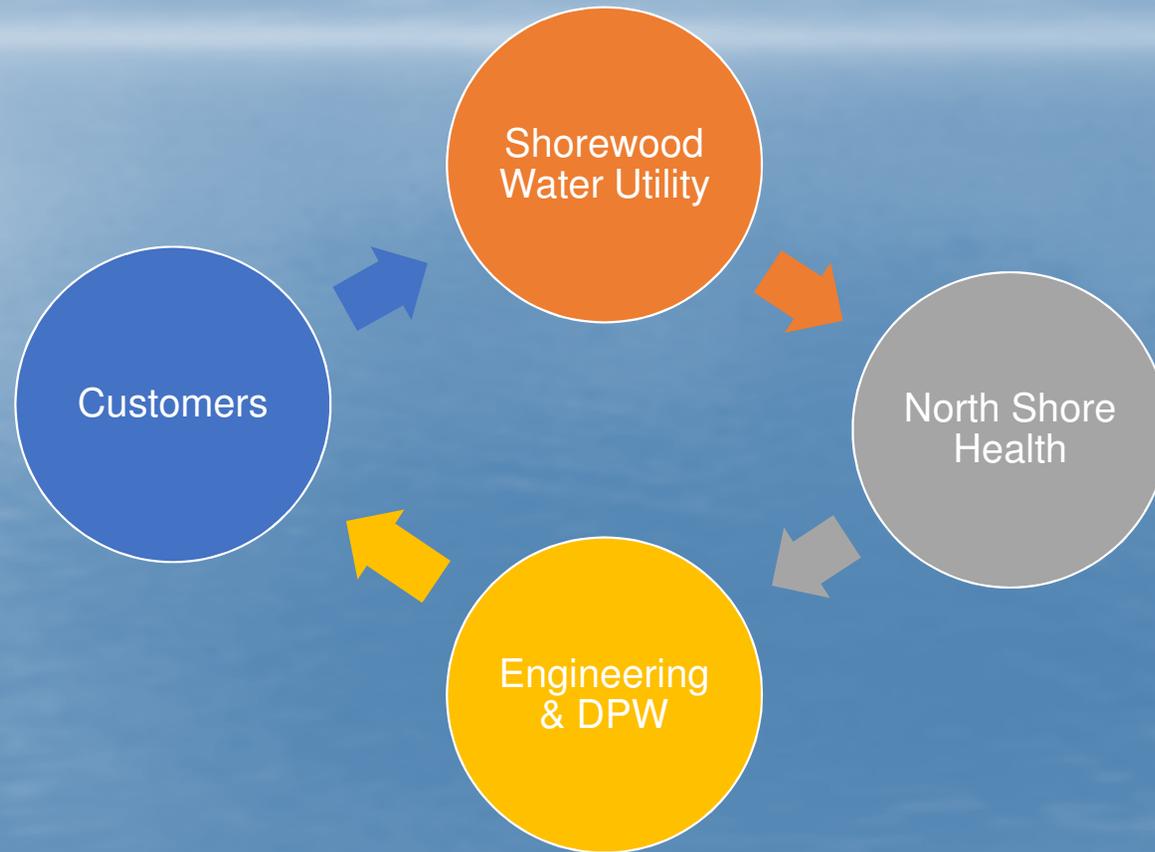
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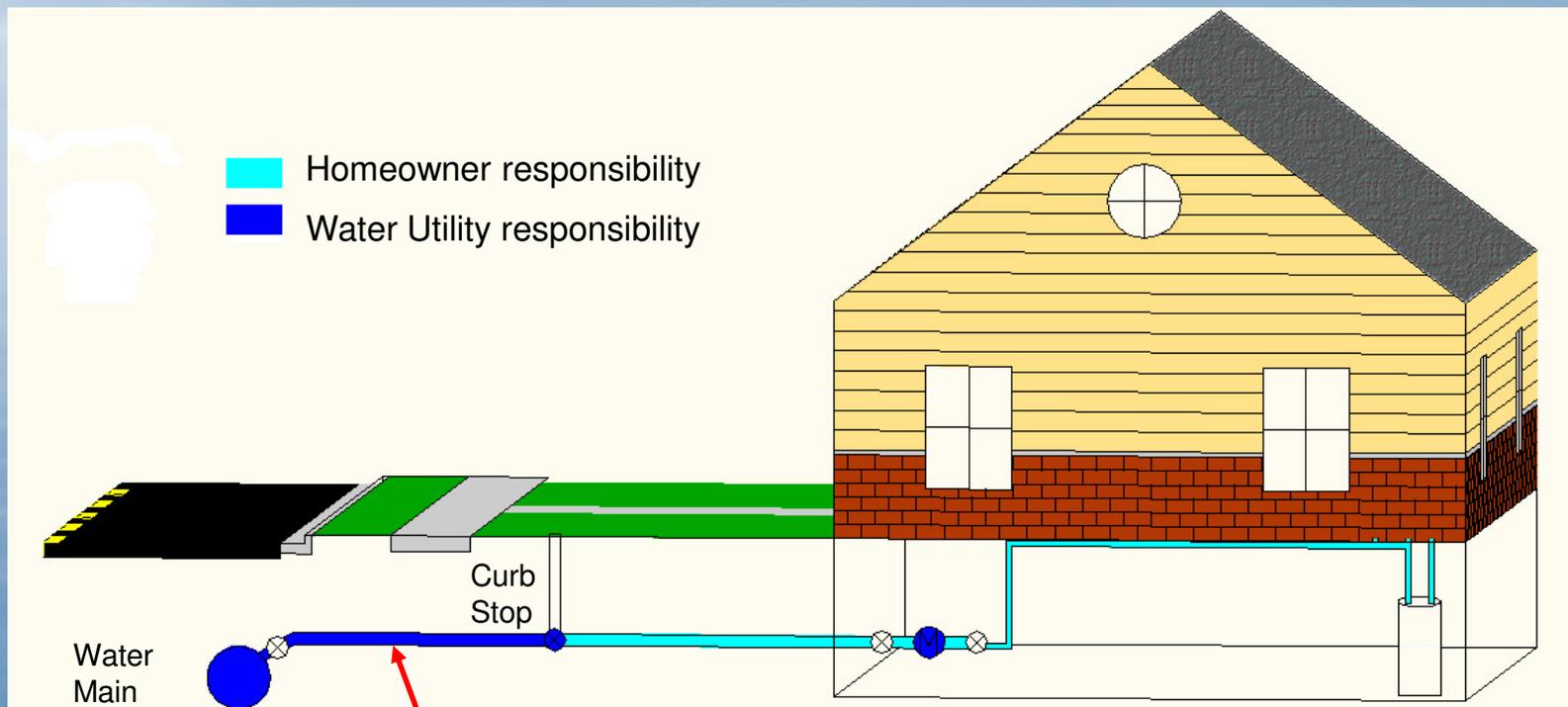
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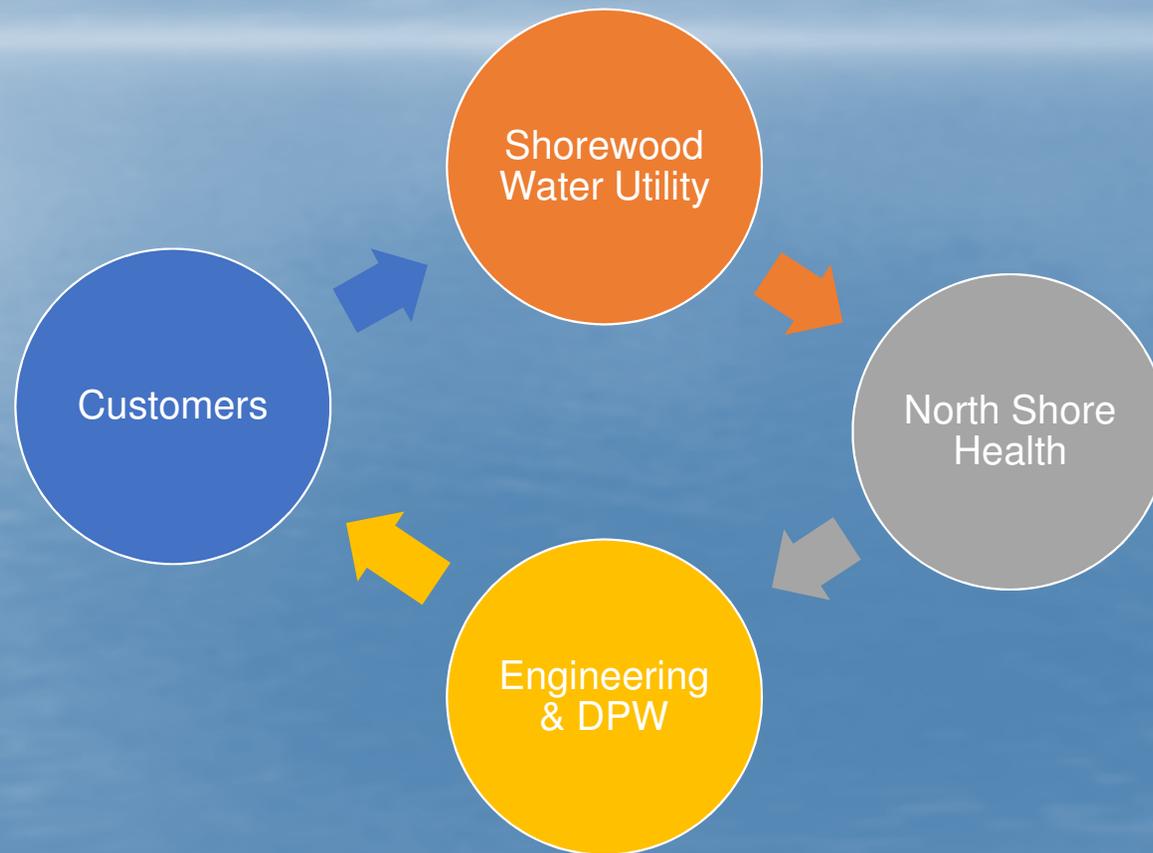
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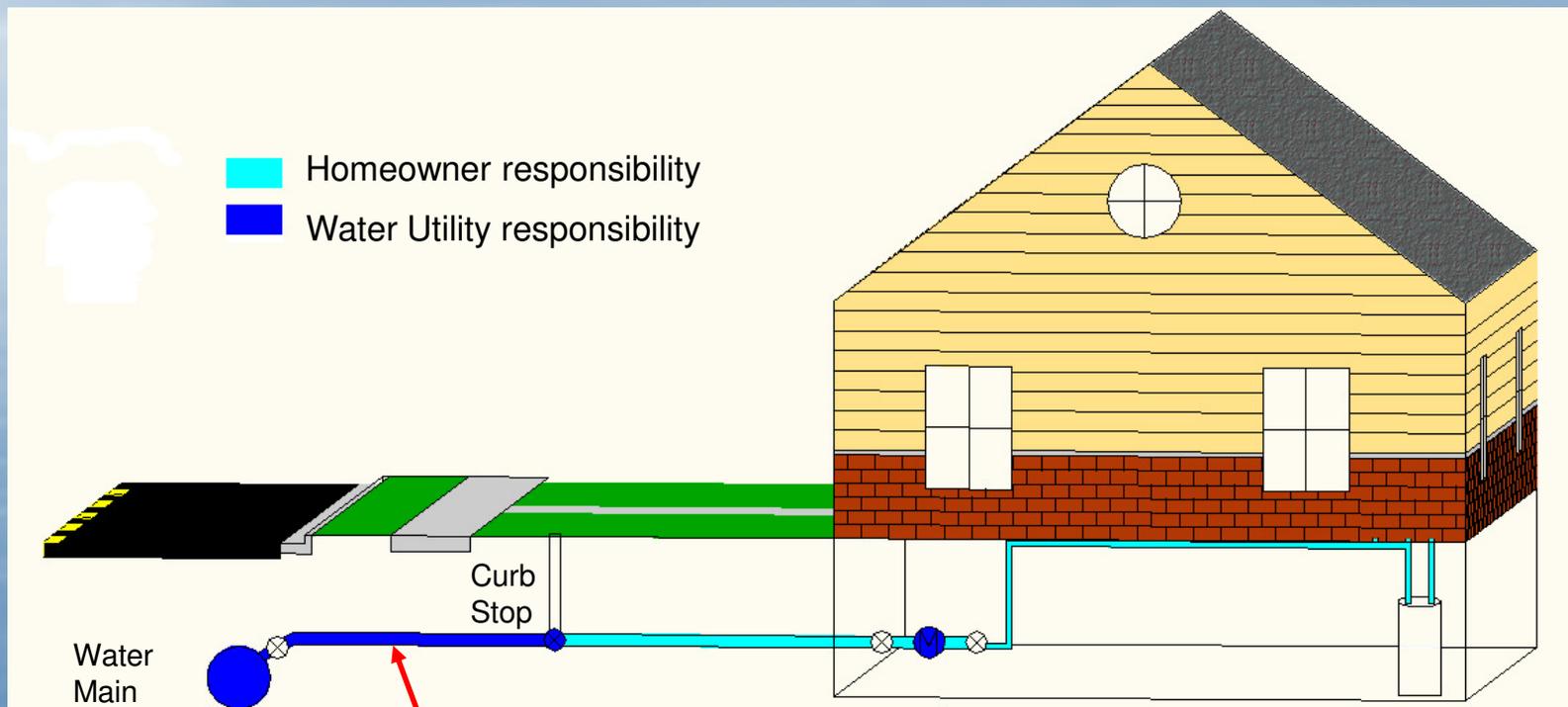
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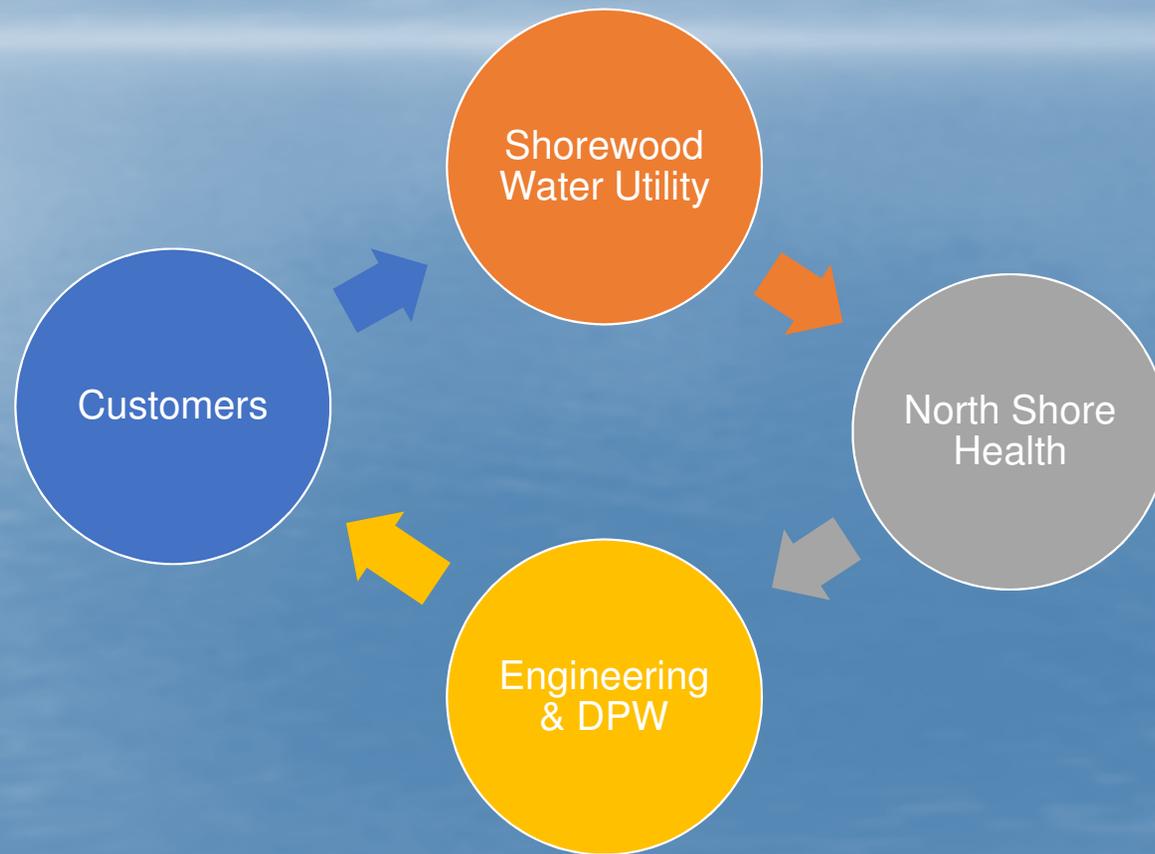
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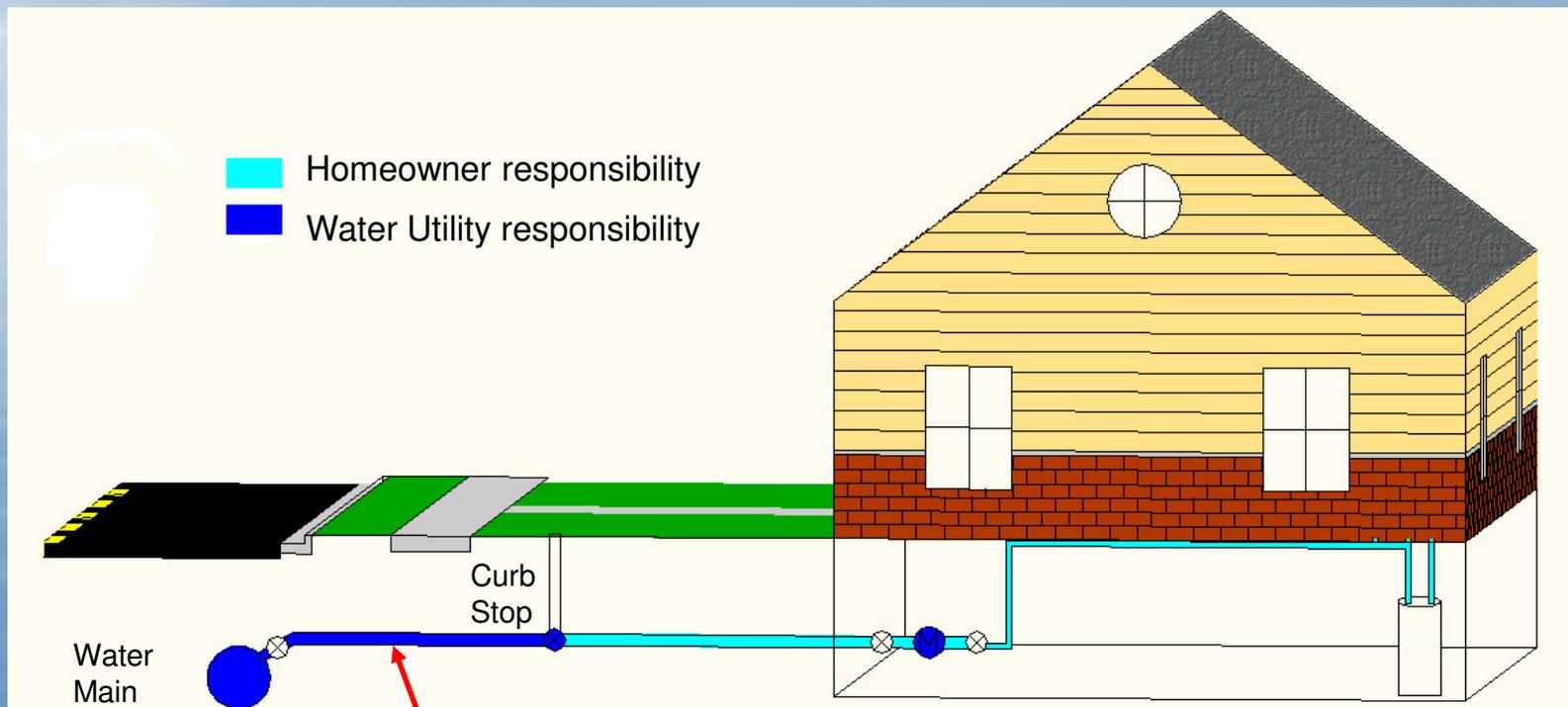
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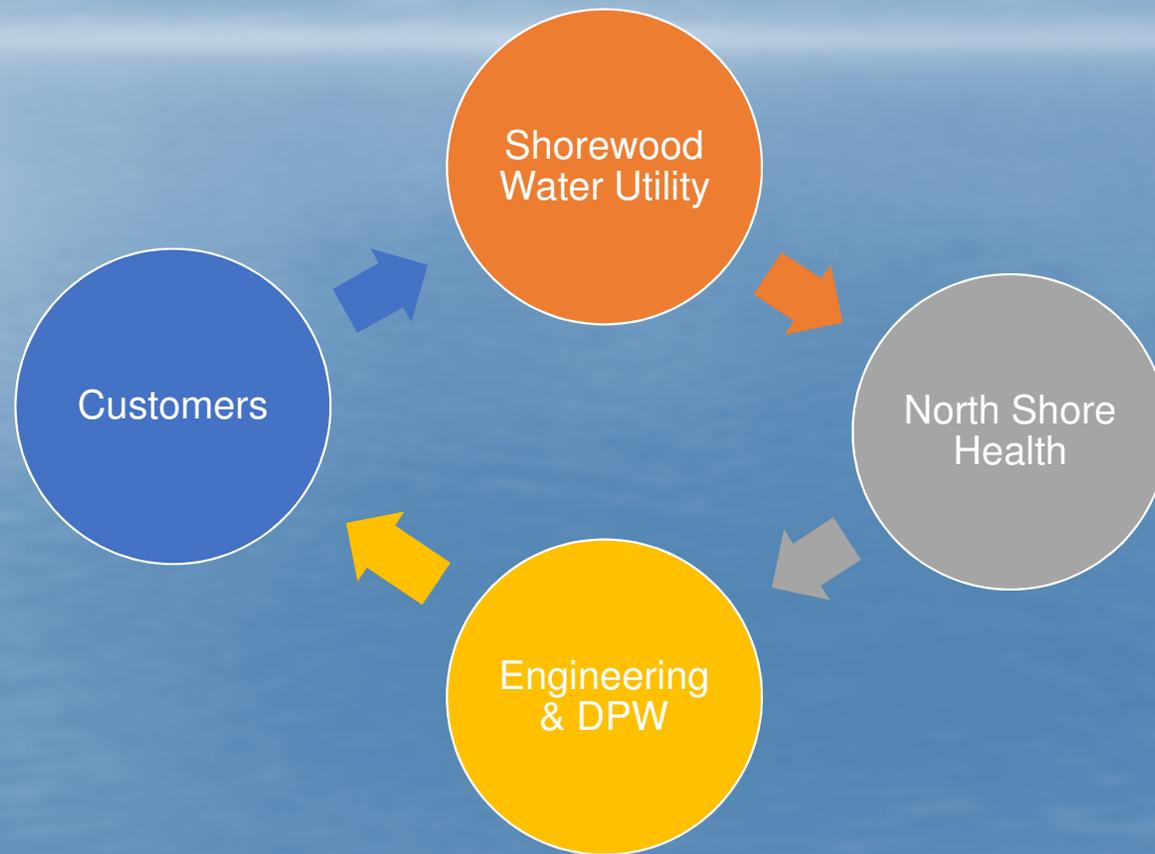
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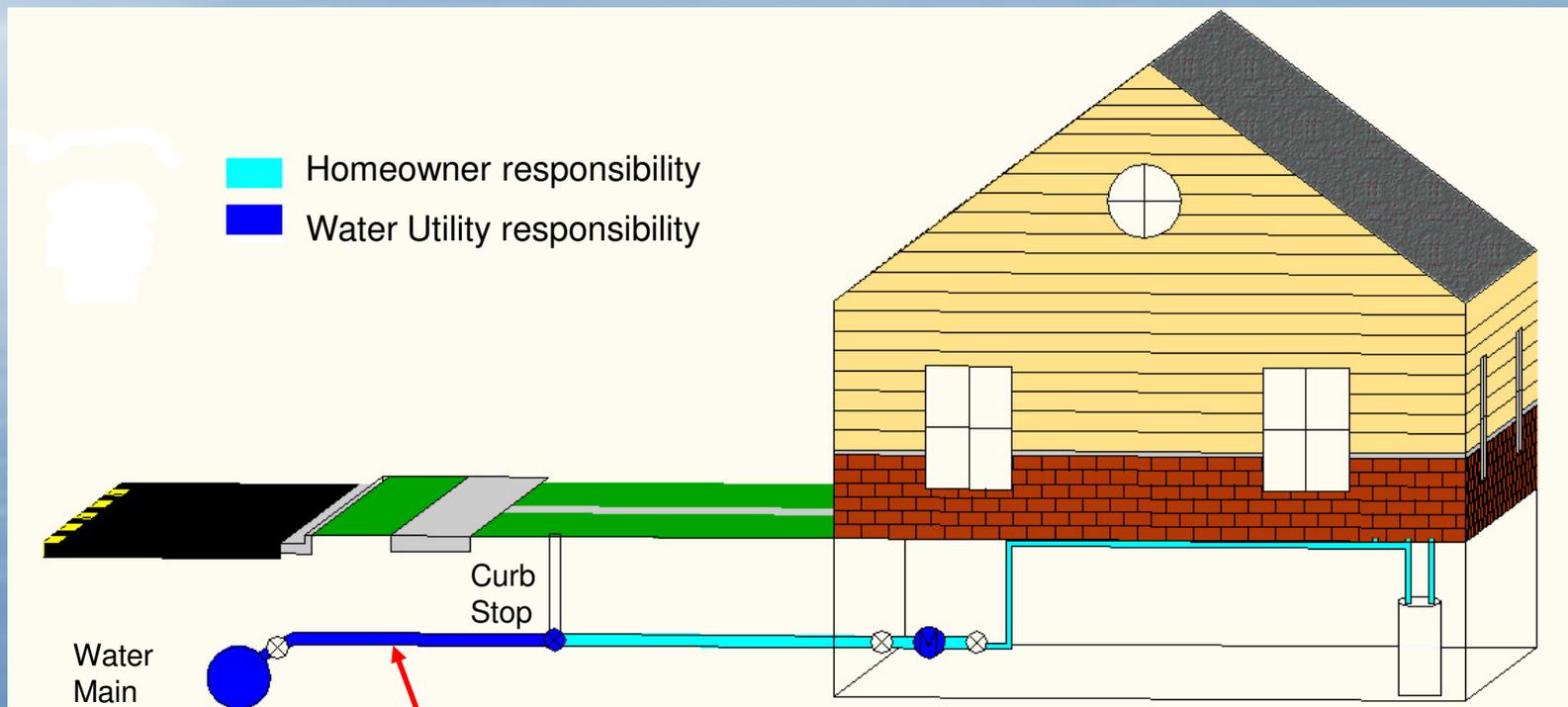
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