









Components of Newark's Successful Lead Service Line Replacement Program

There are several vital components leading to the success of Newark's Lead Service Line (LSL) Replacement Program. The following components are highlighted on the next few pages. Click on the links below:

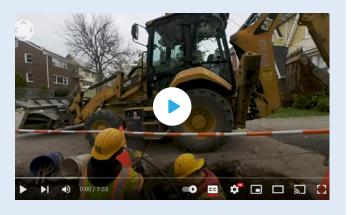








The City of Newark is committed to provide clean, safe and reliable drinking water to all Newark residents. To support this mission, the city has developed the Lead Reduction Program. The program includes a series of actions that Newark is undertaking to reduce or eliminate lead in drinking water at the customers' tap. The program also aims to educate the public on actions they can take to reduce their exposure to lead in drinking water.













Q Background





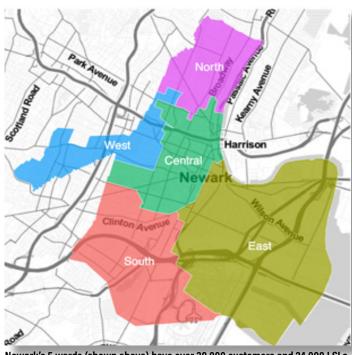
Background

- 300,000 customers in five geopolitical wards within Newark and portions of neighboring cities.
- Estimated 24,000 lead service lines (LSLs).
- Compliance Requirements:
 - Newark exceeded the EPA's lead action level in 2017 and 2018 prompting a review of corrosion control treatment (CCT) and initiating a LSL Replacement Program

LSL Replacement Goals



- Initial 8-year timeline at cost of up to \$1,000 per line to customer.
- Ramped up to a 3-year timeline to remove all LSLs at no cost to customers ensuring an equitable program for all residents.
- Newark's Lead Reduction Program included:
 - Filter distribution
 - Ordinances that required mandatory LSL replacement and allowed tenants to provide access for replacements
 - Customer outreach
 - Test pits to confirm service line material
 - LSL replacements
 - Program management and data tracking
 - Post-replacement water sampling
 - Paving program



Newark's 5 wards (shown above) have over 30,000 customers and 24,000 LSLs















Education







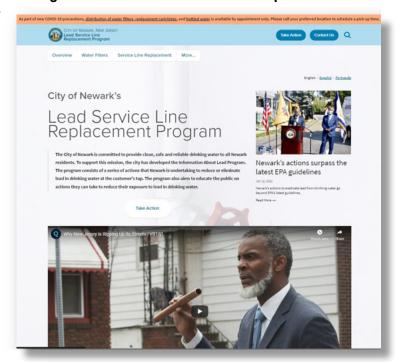
Newark developed a communication campaign using many different forms of media to get the word out about the risks of lead in drinking water and about their Lead Service Line Replacement Program. The website includes a significant amount of information to provide

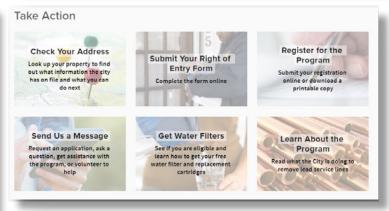
transparency

on the project's status as well as an address lookup tool which allows residents to sign up for the program and check their replacement schedule.









NEXT PAGE













Education







Equity Communications

The program website and education materials were distributed in English, Spanish and Portuguese to improve communication.

Newark also partnered with local community

and environmental groups including Clean

Water Action to go door-to-door with flyers, doorhangers to promote the program, signup residents and instruct residents on the proper use of the point of use filters. Lawn signs, bus and billboard ads and message boards where also strategically placed throughout the City.





















Transparency







Newark uses their website as a repository of information for customers to obtain information about the Lead Service Line Replacement Program including registration paperwork and

contract assignments, most recent lead

tap sample results, and water filter distribution and replacement. The website is supplemented with neighborhood meetings, virtual town halls, flyers and door-to-door outreach. Newark partnered with Clean Water Action, The United Way, and local established community groups to help gain the community's trust, increase communication, and get the residents engaged and signed up for the program to have their LSL replaced.



Activity



Tele - Town Hall Meeting tonight at 7pm (Wednesday 10/17/18)

Nextdoor Advocate Zakia Bilal from Office of The Mayor - 17 Oct 18

9 18

Mayor Baraka will conduct a live Tele-Town Hall meeting over the phone at 7 p.m. to discuss the distribution of water filters to residents with lead service lines and plumbing containing lead. This tele-town hall will be held from 7 p.m. to 8:30 p.m. tonight.

To participate, you may call 855-756-7520, Extension 43424# or simply pick up your phone when we call around 7 p.m. The meeting will be aired on Facebook Live and Newark TV Channels 28 & 78 respectively.



FOR MORE INFORMATION PLEASE SEE ATTACHED FLYER

17 Oct 18 · Subscribers of Office of The Mayor in Safety

THANK 2

REPLY 1

NEXT PAGE













Transparency







Transparency and accountability are imperative in the pursuit of diversity, equity and inclusion. In executing the LSL Replacement Program, the City identified affirmative action goals to establish fair access to employment opportunities and create a program to reflect the demographics of the City. In doing so, the program not only was

an economic benefit to the City of Newark, but also the State of New Jersey.

Affirmative Action Goals

- Opportunity for all to participate in the economic mainstream.
- Fair and equitable treatment for all in award of all contracts and protection from discrimination for all in hiring process.
- Support union membership in craft trades for minorities and women.
- Award 25% or more of total contract value to minority-owned businesses and 7% to women-owned businesses.

Mayor Ras J. Baraka

ATTENTION CERTIFIED !!!
MINORITY (MBE) AND WOMEN (MBE)
CONSTRUCTION CONTRACTORS



LEARN MORE ABOUT LEAD SERVICE
REPLACEMENT LINE CONTRACT AND SUPPLY OPPORTUNITIES
CONTRACT & SUPPLY OPPORTUNITIES AVAILABLE: SUPPLIERS, TRUCKING, PAVING ETC......

THURDAY, OCTOBER 3, 2019 - 6PM - 8PM

MONTANA

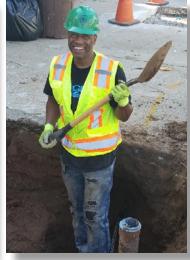
NEWARK CITY HALL PRESS ROOM 920 BROAD STREET NEWARK NJ



Achievements:

- Workforce Development training program with local laborer and operator union for 67 Newark Residents.
- 2. Outreach to certified M/WBE Contractors.
- 3. Over 60% of awarded contracts provided to certified M/WBE Contractors.
- Over \$60-mil of work completed by Newark based Contractors with \$5-mil of work performed by Newark based M/WBE Contractors.

















Technology







The Newark program used innovative tools to plan, communicate, track and report replacements. The technology used improved efficiency, accuracy and lowered costs.

Inventory Development:

- 1. Started with billing records, parcel information and digitizing all tap cards using a low cost scanning solution.
- 2. Prediction model applied to materials using age of home, and line size.
- Verified assumptions with test pits and found model to be more accurate finding lead than assuming not lead.

Data Management:

- 1. Centralized cloud-hosted database.
- 2. Purpose-built applications for managing program data.
 - a. public access map
 - b. field app for GPS of newly installed lines
 - c. executive dashboard for real-time progress tracking
 - d. Mobile application for on-site access and data entry
 - e. digital customer access agreements
 - f. prioritization map to review equity distribution to elderly, school-age children, disadvantage communities
 - g. bottled water and filter distribution application
 - h. post replacement sample sent out after 6-months investigation performed on samples > 15 ppb
- 3. Integration with construction management and water sampling tools.









NEXT PAGE













Technology





Mapping

Online Registration:

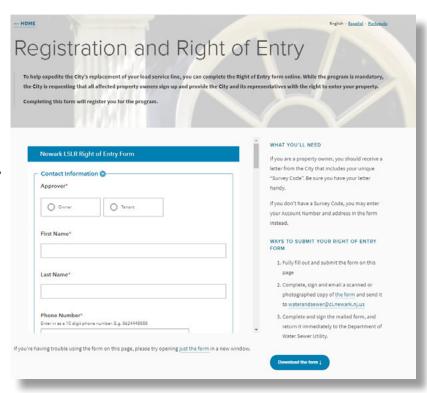
- Residents provided mailer with QR codes.
- Registration by property owner or tenant in multiple languages.
- Information in GIS for distribution to contractor for scheduling inspection and replacement.

Address Lookup Tool:

 LSL program status provided by address with contractor information and

scheduling.

 Water filter and bottled water eligibility.







For more guidance, www.twwleadprogram.com/check-your-line/ TWW employees are currently going door-to-door in your neighborhood if you need assistance identifying your material.

twwleadprogram@trentonnj.org











No House Left Behind







In Newark, the property owner owns the service line from the water main to the water meter. After 6-months, the program was ahead of schedule, however the program did not have the backlog of addresses to continue. The City quickly realized the plan to have residents pay up to \$1,000 for the replacement, only attracted residents who owned their own property with the means to pay. To

ensure the program was available and equitable to all impacted residents, the City modified the program to be free and mandatory and through a local ordinance allowed tenants to provide access to the City to perform LSL replacements.

Free and Mandatory:

State legislation was passed allowing public funds to be used for private improvements related to lead.

Two local ordinances were passed making it free, mandatory and allowing anyone with access to the building (including tenants) to sign the right-of-entry agreement.

Prioritization Approach:

- Work was performed simultaneously in all 5 Wards while focusing on the affected water supply area.
- All houses built prior to 1990 with a 2-inch or less service line were test pitted.
- Communities with higher density of housing and high lead levels were targeted first.
- Block by block approach was used to maximize efficiency and decrease disruptions to the community.

Filter Distribution:

- To protect public health in the short-term while long-term solutions were implemented, Newark distributed over 41,000 filters and over 110,000 replacement cartridges to all residents with lead or suspected lead service lines in the affected water supply area.
- Distribution centers, door-to-door distribution for anyone that did not pick up a filter and a web and mobile application to track distribution and need for cartridge replacements.
- An extensive testing program was performed to test the effectiveness of the filters and the full report was posted on the website for transparency here: https://www.newarkleadserviceline.com/updates/20191121-filter-study-announcement
- A public education campaign included distribution of flyers in multiple languages and videos on the website for installing the filter cartridges properly.



















No House Left Behind









Mapping

The City's LSL
Replacement Program
ensured that no lead
service line will be left
behind while creating

a legacy for future generations. LSL replacement is almost complete citywide and includes final restoration and paving of roadways. The complete removal with a follow-up lead water sample 6 months afterwards provides insurance to residents that their water is safe to drink.



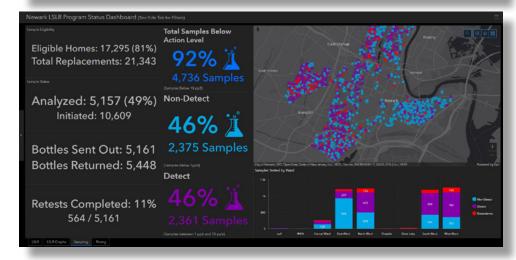
Paving:

- Approximatly 180-miles of streets impacted.
- GIS mapping to coordinate LSL, other utility work and City's ongoing paving.

Post Replacement:

- Residents receive a sampling kit 6-months after replacement.
- GIS mapping to track sampling.
- Find and fix approach for any exceedances.

















Newark's Lead Service Line Replacement Program website

https://www.newarkleadserviceline.com/

CDM Smith News links

https://www.cdmsmith.com/en/News/Newark-Rounds-Corner-to-Complete-LSLR-Program

https://www.cdmsmith.com/en/Client-Solutions/Projects/Getting-the-Lead-Out-in-Newark-NJ

CDM Smith's corporate website

http://www.cdmsmith.com

Getting the Lead Out of Newark webinar

https://www.cdmsmith.com/en/Webinar/Newark-LSLRP

"Why New Jersey is Ripping Up Its Streets" video

https://youtu.be/V8hEYFpYsv4

City of Newark's filter announcement

https://www.newarkleadserviceline.com/updates/20191121-filter-study-announcement

City of Newark's Twitter link

https://twitter.com/CityofNewarkNJ/status/1309587289358688256

"LeadCAST": CDM Smith's new Lead Management and Communication software

https://www.trinnex.io/products/leadcast





