



# FINANCE COMMITTEE AGENDA

November 7, 2022 – 4:00 pm | Council Chambers, City Hall

1. **Call meeting to order.**
2. **Approval of Minutes.**
  - a. Regular Meeting: September 6, 2022 & October 3, 2022
3. **Public Comment** - Limit to three minutes per person.
4. **New Business.**
  - a. Passenger Refueling Area Pay Estimate #5 – Trent
  - b. Landfill Drying Bed Pay Estimate #3 – Trent
  - c. 2022 Street Maintenance Project Pay Estimate #1 – Trent
  - d. 120 Water Proposal for the New Lead and Copper Rule Revisions
  - e. Review and Sign October Claims – Stan/Jordan
5. **Continued Business**
  - a. None
6. **Committee Comments or Concerns:**
7. **Announcement of next meeting.**
  - a. Regular Meeting: December 5, 2022
8. **Adjournment.**

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## Finance Committee

### Members

Dick Bauman (Chair) | Rob Kersch | Joseph Callahan | Gordon Pierson

# CITY OF DEER LODGE

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## FINANCE COMMITTEE MEETING MINUTES

September 6, 2022 – 4:00pm | Council Chambers, City Hall

**Members Present:** Dick Bauman, Gordon Pierson, Joseph Callahan  
**Members Absent:** Rob Kersch  
**Mayor:** Absent  
**CAO:** Jordan Green  
**Staff:** Trent Freeman, Stan Glovan, Cyndi Thompson  
**Guests:** See Sign in Sheet

**1. Call Meeting to Order:**

a. Chairperson Bauman called the meeting to order at 4:00PM.

**2. Approval of Minutes:**

a. Regular Meeting: August 8, 2022

Member Callahan motioned to approve minutes as presented. Chairperson Bauman seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

**3. Public Comment:**

a. None

**4. New Business:**

a. City Judge Meeting-Council President Bauman

Powell County Clerk summarized citations and collection process using Northwest Collectors. Powell County Clerk will send quarterly reports to City Treasure. No motion required.

b. ARPA Local Grants Committee Recommendations – Jordan

Jordan presented a current spreadsheet from the ARPA Committee showing recommendations in distribution of funds. Out of the 24 applicants 3 applicants did not present the proper paperwork for the application process and therefore was rejected. 22 applicants approved with different funding amounts from \$1,000 to \$5,000 with a total of \$50,000 to be distributed amongst the 22 applicants.

c. E-Ticketing Quote – Chief Smith

Member Pierson motioned to table till next month's meeting. Member Callahan seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

d. Ron Slauson Pay – Chief Smith  
Member Pierson motioned to table till next month's meeting. Member Callahan seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

e. Clerical CBA Addendum – Jordan  
Request an addendum to the CBA Clerk contract increasing pay before the CBA Clerk contract is up for renewal in 2024.

Member Callahan motioned to approve a CBA Clerk Addendum for a pay increase to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

f. Business District Striping Task Order – Trent  
Parking layout plan Task Order from Stahly Engineer in the amount of \$3,200.00. Once layout is set, Public Works crew will be able to maintain the strips as set.

Member Callahan motioned to approve Business District Striping Task Order with recommendations to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

g. Water Modeling Task Order – Trent  
Stahly Engineering Task Order in the amount of \$58,000.00. This will include Water CAD water modeling software intersection elevations for all streets within the city, preparing the water mains and hydrants within the City, and utilizing the software to analyze the City's water system.

Member Callahan motioned to approve Stahly Engineering Task Order in the amount of \$58,000.00 with recommendations to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

h. Water SCADA System Upgrade – Trent  
InControl Water SCADA System Upgrade in the amount of \$79,829.00. The water control system was found to be operational, but in need of upgrades due to much of the equipment being obsolete and difficult to find replacements for. InControl recommends beginning the overall system improvements by replacing the existing SCADA computer, City Hall Control Panel, and control software at all remote sites. All control panel software and SCADA programming will mirror the look and feel of the WWTP SCADA control system.

Member Callahan motioned to approve InControl Water SCADA System Upgrade in the amount of \$79,829.00 with recommendations to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

i. Water & Wastewater Annual Cybersecurity Proposal – Trent  
InControl Water & Wastewater Annual Cybersecurity Proposal for the amount of \$6,532.00 with an annual cost of \$5,087.00. INControl has developed an Automation & Cybersecurity Service Plan collaborating with Watchguard, a leader in network security. The service plan provides regular inspections, testing, and maintenance of your control system and its cybersecurity defenses.

Member Callahan motioned to approve InControl Water & Wastewater Annual Cybersecurity Proposal for the amount of \$6,532.00 with an annual cost of \$5,087.00 with recommendations to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

j. Drying Beds Pay Estimate #2 – Trent

Payment Request No. 2 from MJD Contracting through Morrison Maierle for the landfill drying bed project in the amount of \$49,376.25. The estimate is for concrete placement for the drying bed walls.

Member Callahan motioned to approve Payment Request No. 2 from MJD Contracting through Morrison Maierle for the landfill drying bed project in the amount of \$49,376.25 with recommendations to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

k. Drying Bed Change Order #1 – Trent

This change order consists of add 10" wall with two mats of rebar on the north side of drying pad. Wall height and reinforcement to match existing designed walls. Use vertical adhesive dowels with 5" embed into slab on grade. Change order #1 original contract price of \$209,650.00, Increase amount of \$13,500.00 for total contract price of \$223,150.00.

Member Callahan motioned to approve Drying Bed Change Order #1 original contract price of \$209,650.00, Increase amount of \$13,500.00 for total contract price of \$223,150.00 with recommendations to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

l. Review and Sign August Claims – Stan/Jordan

Claims reviewed and signed by committee with recommendation to Council.

**5. Continued Business:**

a. Budget Review – Jordan

Final budget presented to Finance requesting a recommendation to City Council.

Member Callahan motioned to approve as presented with recommendation to City Council. Member Pierson seconded the motion. 3 Ayes, 0 Nos, 1 Absent. Motion passed.

**6. Committee Comments or Concerns:**

a. None

**7. Announcement of Next Meeting:**

a. Regular Meeting: October 3, 2022, at 4pm

**8. Adjournment:**

The meeting was adjourned at 5:30pm.

Prepared by: Cyndi Thompson, City Clerk

\_\_\_\_\_  
Dick Bauman, Chairperson

\_\_\_\_\_  
Date

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## **Finance Committee Members**

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Dick Bauman (Chair) | Rob Kersch | Joseph Callahan | Gordon Pierson

# CITY OF DEER LODGE

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## FINANCE COMMITTEE MEETING MINUTES

October 3, 2022 – 4:00pm | Council Chambers, City Hall

<b>Members Present:</b>	Dick Bauman, Joseph Callahan, Rob Kersch
<b>Members Absent:</b>	Gordon Pierson
<b>Mayor:</b>	Jim Jess
<b>CAO:</b>	Jordan Green
<b>Staff:</b>	Police Chief Smith
<b>Guests:</b>	See Sign in Sheet

**1. Call Meeting to Order:**

- a. Chairperson Bauman called the meeting to order at 4:00PM.

**2. Approval of Minutes:**

- a. Regular Meeting: Deferred till next meeting

**3. Public Comment:**

- a. None

**4. New Business:**

- a. Skatepark Camera Quotes – Jordan

2 Quotes presented from K12 Montana Inc for \$2,769.63 for one camera cloud based system at the skatepark and another to mount off the scoreboard at the ball field for \$3,476.62.

Member Kersch motioned to approve the one camera quote from K12 for \$2,769.63 and it be paid out of facilities funds. Member Callahan seconded the motion. 3 Ayes, 0 No, 1 Absent. Motion passed.

- b. Short Term Investment Pool Discussion – Jordan

Presented a draft Resolution for committee review. STIP program is an investment program administered under the direction of the Montana Board of Investments as authorized by the Unified Investment program.

Jordan will bring back to Finance Committee once resolving the Authorized Representative login for the City. Unanimous agreement from committee to readdress at next meeting.

- c. Slauson Pay Increase – Jordan/Police Chief Smith  
Requesting moving Ron to the pay level of a Certified Officer.

Member Kersch motioned to approve Ron to the pay level of a Certified Officer with back pay from August 2022 and a recommendation to Council. Member Callahan seconded the motion. 3 Ayes, 0 No, 1 Absent. Motion passed.

- d. Police Car – Jordan/Police Chief Smith  
Presented a quote from Asia Motors for a 2017 Dodge Durango SSV AWD Siren, Lights, Prison Partition, Bluetooth, Back-up camera with 34k miles for \$31,795.00. Would like to upgrade our police vehicle and retire the 2008 Crown Vic, the miles are unsure as the speedometer no longer works and is the shop more than needed. Committee would like the department to stay with Ford vehicles. Discussion of funds were made amongst the committee.

Member Callahan motioned to approve with a recommendation to Council a cap of \$35,000 for a vehicle and its set-up with \$20,000 from ARPA funds and \$15,000 from capital outlet funds. Member Kersch seconded the motion. 3 Ayes, 0 No, 1 Absent. Motion passed.

- e. Review and Sign September Claims – Jordan  
Claims reviewed and signed by committee with recommendation to Council.

**5. Continued Business:**

- a. None

**6. Committee Comments or Concerns:**

- a. None

**7. Announcement of Next Meeting:**

- a. Regular Meeting: November 7, 2022, at 4pm

**8. Adjournment:**

The meeting was adjourned at 4:40pm.

Prepared by: Cyndi Thompson, City Clerk

\_\_\_\_\_  
Dick Bauman, Chairperson

\_\_\_\_\_  
Date

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**Finance Committee Members**

Dick Bauman (Chair) | Rob Kersch | Joseph Callahan | Gordon Pierson



# Contractor's Application for Payment No. 5

<b>Application Period:</b> 07/15/22 to 10/14/22 <b>From (Contractor):</b> H and H Contracting, Inc. <b>Contract:</b> MILWAUKEE ROUNDHOUSE CIRCRA FACILITY PASSENGER REFUELING AREA (PRA) 2021 SOIL REMOVAL ACTION <b>Contractor's Project No.:</b>	<b>Application Date:</b> 10/17/2022 <b>Via (Engineer):</b> Hydrometrics, Inc. <b>Engineer's Project No.:</b> 20009
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### Application For Payment Change Order Summary

Approved Change Orders	Number	Additions	Deductions
	1	\$5,787.00	
	2	\$1,967.58	
	3	\$3,726.50	
	4	\$1,267.01	
<b>TOTALS</b>		\$12,748.09	
<b>NET CHANGE BY CHANGE ORDERS</b>		\$12,748.09	

1. ORIGINAL CONTRACT PRICE..... \$ 662,137.00
2. Net change by Change Orders..... \$ 12,748.09
3. Current Contract Price (Line 1 + 2)..... \$ 674,885.09
4. TOTAL COMPLETED AND STORED TO DATE (Column F total on Progress Estimates)..... \$ 674,885.09
5. RETAINAGE:
  - a. 10% X  Work Completed..... \$
  - b. X  Stored Material..... \$
  - c. Total Retainage (Line 5.a + Line 5.b)..... \$
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)..... \$ 674,885.09
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)..... \$ 571,585.09
8. AMOUNT DUE THIS APPLICATION..... \$ 103,300.00
9. BALANCE TO FINISH, PLUS RETAINAGE (Column G total on Progress Estimates + Line 5.c above)..... \$

**Contractor's Certification**  
 The undersigned Contractor certifies, to the best of its knowledge, the following:  
 (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;  
 (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and  
 (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature: Chris Hansen Date: 10/17/22  
 By: Chris Hansen

Payment of: \$ Three thousand three hundred dollars and no/100 (Line 8 or other - attach explanation of the other amount)

is recommended by: Mark Boehle (Engineer) 10/19/2022 (Date)

Payment of: \$ \_\_\_\_\_ (Line 8 or other - attach explanation of the other amount)

is approved by: \_\_\_\_\_ (Owner) \_\_\_\_\_ (Date)

Approved by: \_\_\_\_\_ (Funding or Financing Entity (if applicable)) \_\_\_\_\_ (Date)





**Progress Estimate - Unit Price Work**

**Contractor's Application**

For (Contract): MILWAUKEE ROUNDHOUSE CECRA FACILITY PASSENGER REFUELING AREA (PRA) 2021 SOIL REMOVAL ACTION  
 Application Number: 5  
 Application Period: 07/15/22 to 10/14/22  
 Application Date: 10/17/2022

Bid Item No.	Item Description	Contract Information				C	D	E	F		
		Item Quantity	Units	Unit Price	Total Value of Item (\$)				Total Completed and Stored to Date (D + E)	% (F/D)	Balance to Finish (B - F)
1	Mobilization, Bonding & General Requirements	1	LS	\$5,000.00	\$5,000.00	1	\$5,000.00		\$5,000.00	100.0%	
2	Erosion & Sediment Control	1	LS	\$5,400.00	\$5,400.00	1	\$5,400.00		\$5,400.00	100.0%	
3	Construction Facilities & Temporary Controls	1	LS	\$3,200.00	\$3,200.00	1	\$3,200.00		\$3,200.00	100.0%	
4	Clear & Grub Vegetation & Debris Removal	1	LS	\$2,800.00	\$2,800.00	1	\$2,800.00		\$2,800.00	100.0%	
5	Temporary Signage & Traffic Control	1	LS	\$2,500.00	\$2,500.00	1	\$2,500.00		\$2,500.00	100.0%	
6	Strip & Stockpile Topsoil & Overburden	19	CY	\$30.00	\$570.00	19	\$570.00		\$570.00	100.0%	
7	Excavate, Handle & Disposal of Contaminated Soil	783	CY	\$31.00	\$24,273.00	783	\$24,273.00		\$24,273.00	100.0%	
8	Backfill Contaminated Soil Excavation Areas	846.27	CY	\$17.00	\$14,386.59	846.27	\$14,386.59		\$14,386.59	100.0%	
9	Site Restoration	1.1	AC	\$3,300.00	\$3,300.00	1.1	\$3,300.00		\$3,300.00	100.0%	
10	Reconstruct Gravel Roads	146	CY	\$27.00	\$3,942.00	146	\$3,942.00		\$3,942.00	100.0%	
A	Excavate, Handle & Disposal of EXCESS Contaminated Soil	190.27	CY	\$50.00	\$9,513.50	190.27	\$9,513.50		\$9,513.50	100.0%	
<b>Totals</b>							\$74,885.09		\$74,885.09	100.0%	

October 18, 2022

VIA EMAIL

Mayor James Jess  
City of Deer Lodge  
300 Main Street  
Deer Lodge, MT 59722

RE: Landfill Drying Bed Project – Application for Payment #3

Dear James:

Enclosed for your action is Payment Request No. 3 from MJD Contracting for the Landfill Drying Bed project. The Pay Request covers the construction items on the Project from August 19, 2022, through October 7, 2022. This Pay Request shows project completion at 95% to date. In addition to the items covered in the first two pay requests, it covers the remaining concrete installation including the wall added by change order, final grading, gravel placement and compaction, and installation of bollards.

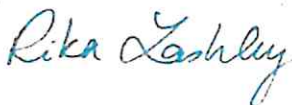
A Substantial Completion walkthrough was completed on October 7 and a Substantial Completion Certificate and punch list were prepared. The remaining items to be completed include minor items as listed on the attached punch list. The retainage in the amount of \$11,157.50 will be more than sufficient to cover the punch list items.

Everything appears in order to recommend approval of Pay Request No. 3 for processing. Payment of \$87,513.52 will need to be made to MJD Contracting, and \$883.98 to the State of Montana for the gross receipts tax. As stated above, a total of \$11,157.50 retainage is being withheld from the payments to date.

Please contact me if you have any questions or need more information.

Sincerely,  
MORRISON-MAIERLE, INC.

Rika Lashley, PE  
Project Manager



Enclosure

Cc via Email: Alan Erickson, PE, CCM – Morrison-Maierle  
MJD Contracting





# Deer Lodge WWTP – Landfill Drying Beds Punch List

## Site/Access Road/Gravel:

- The two larger culverts are deformed and have a slight belly. Trent Freeman chose to accept them for now and watch through the warranty period. If conditions get worse, they may need to be replaced.
- Kick some riprap in front of the downstream end of the culverts to help prevent washing out the soil just beyond the pipe.
- One more pass for rolling on the south side of the pad (to be complete Friday 10/7/2022).
- Fix small drain/grade issue on NW side of pad to allow surface drainage to flow west for about 20-30 feet (to be complete Friday 10/7/2022).
- Fix small depression just beyond the gravel on the SE edge of the gravel pad to allow for dump truck to pull forward when backing into and out of drying beds (to be complete Friday 10/7/2022).

## Pad/Concrete:

- Remove form tie metal plates and grout over the tie to leave no metal exposed. While there, check for and fill in some of the larger voids (quarter size and up).
- Submit 28-day break results for wall concrete.

## Drains & Septic Tank:

- Grout between drain pipe and pipe sleeve.
- Install drain plug U-bolts and steel plate at east drainpipe location.
- Supply the drain plugs.



Progress Estimate

Contractor's Application

For (contract):		2022 Street Maintenance		Application Number: 1							
Application Period:		August - October 2022		Application Date: 10/21/2022							
A		WORK COMPLETED			G						
Item No.	Description	Item Quantity	Units	Unit Price	B Scheduled Value	C From Previous Application	D This Period	E Materials Presently Stored	F Total Completed and Stored to Date (C+D+E)	% (F/B)	Balance to Finish (B-F)
1	General Requirements	1	LS	33,000.00	33,000.00		1		33,000.00		
2	Traffic Control	1	LS	24,200.00	24,200.00		0.7		16,940.00		
3	2 Inch Cold Mill	6752	SY	3.00	20,256.00		6803		20,409.00		
4	Transition Mill	317	SY	7.00	2,219.00		396		2,772.00		
5	Dig Out and Pave	2134	SY	29.50	62,953.00		2249		66,345.50		
6	Paving	11,535	SY	15.85	182,829.75		11599		183,844.15		
7	Asphalt Tack Coat	1	LS	2,500.00	2,500.00		1		2,500.00		
8	Crack Sealing	7258	LF	2.25	16,330.50		7668		17,253.00		
9	Asphalt Seal Coat	27,465	SY	2.84	78,000.60		0		0.00		
10	Paving Fabric	4783	SY	3.00	14,349.00		4139		12,417.00		
11	Concrete Valley Gutter	20	SY	375.00	7,500.00		20		7,500.00		
SUB-TOTALS					\$444,137.85	\$0.00	\$32,876.70	\$0.00	\$362,980.65		\$0.00

Contractor's Application



# Create and Validate Your Service Line Inventory with 120Water

The Lead Service Line inventory is the first step to Lead and Copper Rule Compliance—and it's no easy task. The process of locating, recording, and validating material types for your service lines is not only mandatory under the revised Lead and Copper Rule, but it lays the groundwork for future replacement plans as the nation works to get the lead out and protect public health.

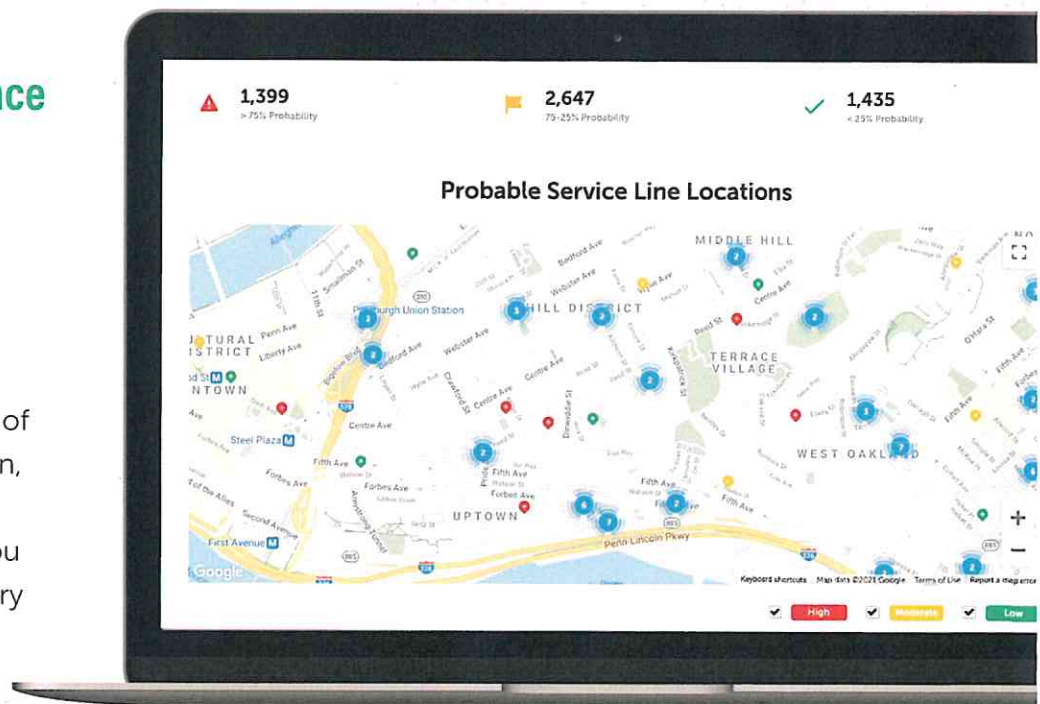
## LCR Revisions

### What You Need To Know

- Utilities **must conduct** a location-based inventory of all service lines, including lead pipes, galvanized pipes previously connected to lead, non-lead pipes, and unknowns, by 2024
- If LSLs are found, utilities **must create** a Lead Service Line Replacement Plan
- The inventory **must be made publicly available**, either upon request (utilities serving less than 50,000 customers) or accessible online (utilities serving more than 50,000 customers)

## Achieve LSL Inventory Compliance with Confidence

120Water's Service Line Inventory Solution is the only way to build and manage a location-based inventory from start to finish. Our combination of kits, software, and consultative services will help you understand the current landscape of your lines, validate that information, and communicate effectively. The comprehensive solution guides you through each stage of the inventory process, ensuring efficiency and compliance at every turn.



120Water™

Trusted by



To learn more, visit [120water.com](https://www.120water.com)



## Develop A Preliminary Inventory

Regardless of your starting point, the 120Water services team will provide curated recommendations for your LSL project, walking your team through the processes of identifying current data, performing a quality analysis, and digitizing information to load into the 120Water platform.



## Predict LSL Locations Using Machine Learning

120Water's Probability Finder uses machine learning to accurately predict the presence of lead in any unknown service line locations within your data set. Uncover clear next steps for prioritization and verification. The highly credible model will continuously provide scientifically validated outputs, with our service team proposing verification plans based on that data. Achieve a level of confidence that allows you to submit a compliant, verified inventory.



## Validate Your Inventory

Easily segment your data in order to assign the appropriate validation techniques. Once data is added to verification projects, clear workflows break the validation process into manageable segments. 120Water's ability to ship

Programs Locations Samples **Inventory** Communications LSL Probability Finder

### Assets

Showing 10 of 154 Service Lines

External ID	Address	Tier	Programs	Events	Probability	Date Evaluated	Public	Private
-	8275 Main St Pawnee, RI 02877	1	Lead Service Line Replacement, LSL Verification	2018 Lead Service Line Replacements, Private Side Verification	100%	02/10/2021	Unknown	Unknown
-	6402 Warwick Blvd, Pawnee, RI 02877	1	Consumer Request Program, LSL Verification	2018 Consumer Requests, Sample Site Verification, Private Side Verification	-	-	Co - Unknown Solder	Unknown
253	5295 Lincoln Dr Pawnee, RI 02877	-	Consumer Request Program, LSL Verification	2018 Consumer Requests	-	-	PVC	PVC
8239	2085 Columbus St, Pawnee, RI 02877	1	Consumer Request Program, LSL Verification	2018 Consumer Requests, Private Side Verification	Lead	-	Lead	Unknown
2858	7225 Scum St, Pawnee, RI 02877	-	Consumer Request Program, LSL Verification	2018 Consumer Requests	-	-	Co - Unknown Solder	Lead
8602	6582 Grant Dr, Pawnee, RI 02877	1	Consumer Request Program, LSL Verification	2018 Consumer Requests, Private Side Verification	80%	02/10/2021	Unknown	Unknown
3466	1228 Michigan Ave, Pawnee, RI 02877	1	Consumer Request Program, LSL Verification	2018 Consumer Requests, Private Side Verification	80%	02/10/2021	Unknown	Unknown
1111	9425 Skowett St, Pawnee, RI 02877	1	Consumer Request Program, LSL Verification	2018 Consumer Requests, Private Side Verification	80%	02/10/2021	Unknown	Unknown
7735	2789 Park Dr, Pawnee, RI 02877	1	Consumer Request Program, LSL Verification	2018 Consumer Requests, Private Side Verification	99%	02/10/2021	Co, No Lead	Unknown
7986	6918 Resley Ave, Pawnee, RI 02877	-	Consumer Request Program, LSL Verification	2018 Consumer Requests	90%	02/10/2021	PVC	PVC

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Display: 10 rows

The 120Water services team will provide curated recommendations for your LSL project.

and track Lead-Check swabs makes for user-friendly private-side validation, while mobile collection forms can be used by field teams for public side lines. Results flow directly into the platform for simple, centralized data coordination.



## Ensure total Compatibility with GIS

120Water is able to push and pull data to and from your GIS, mapping LSL data to make sure that your utility's data is centralized and continuously up-to-date. Act with confidence knowing that no information has slipped through the cracks, with no manual data transfer necessary.



## Meet Communication Compliance Requirements

Create the LCRR-mandated public transparency dashboard to show service line materials for all residents within your community. In addition, 120Water's Communications Module manages the creation and delivery of consumer notifications, keeping your system within the mandated 24-hour notification requirements when necessary.

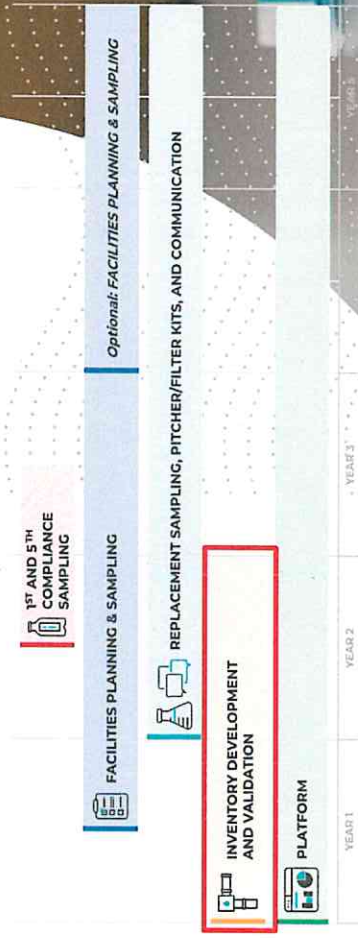


120Water™

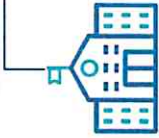
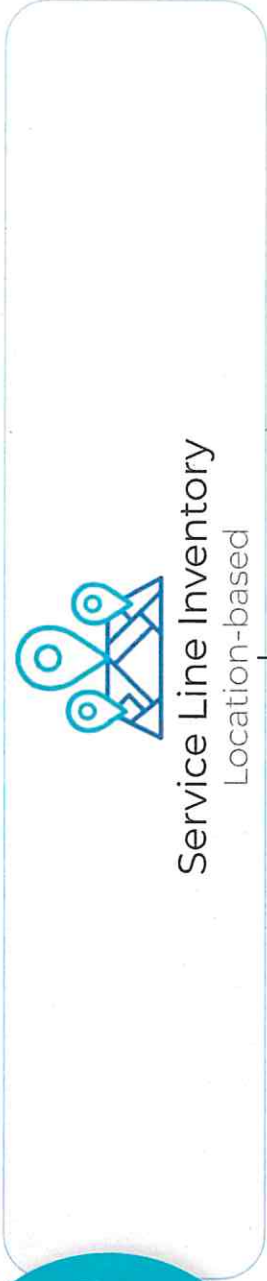


120Water™

# Inventory



**Foundation**  
for achieving  
LCRR  
compliance



School & Childcare  
Facility Sampling



24-Hour Notice  
Triggered Communication



Replacement  
Sampling & Filters



“Find & Fix” Provision  
Retest & Remediate



Action & Trigger Level  
15 ppb vs 10 ppb

**Key Dates**

**December 16, 2021**  
LCRR Effective Date

**October 16, 2024**  
LCRR Compliance Date

**Prior to October 16, 2024**  
EPA Finalizing Lead and  
Copper Rule Improvements  
(LCRI)

## Why Now?

Overview

# EPA Revisions: Lead Service Line Inventory

Public Water Systems must develop a preliminary inventory of both **public** and **private** side service lines within 3 years of final rule publication, and use this preliminary inventory to create a replacement plan for known or possible lead service lines.

# Get Started

LCRR playbook for distribution systems that likely **have lead**

## Develop

1. **Develop Preliminary Inventory**
  - a. **Gather, digitize, and clean existing SL data**
  - b. **Include inventory of schools & daycares**
2. Create Customer Engagement Strategy
3. *Run Predictive Model*

## Verify

4. Verify Preliminary Inventory
  - a. Verification planning/prioritization
  - b. *Execute private-side field projects*
  - c. *Execute public-side field projects*
  - d. *Re-run Predictive Model*
  - e. Create Replacement Plan
5. Provide Public Transparency Dashboard

## Replace, Sample, Report

6. Pitcher/Filter Program
7. Sampling
  - a. Replacement monitoring
  - b. 1st and 5th Liter Compliance Monitoring
8. Manage Schools & Daycares Sampling
9. Report (as necessary) to Primacy Agency



Who?

## What do I care about? Three buckets (generally):

### Current perception:

1. I know have no lead.
2. I don't have adequate records.
3. I know I have lead.

### Perceived Need:

1. What is the minimum I need to do to be compliant?
2. I either just need to get compliant (reactive) or I am actively trying to pull lead out (proactive).
3. I either just need to get compliant (reactive) or I am actively trying to pull lead out (proactive).



# Talking Points

Who?



## Proactive:

- Submitting the LSL Inventory is just the first step.
- Having an integrated solution that can help you manage **every aspect** of your LCR programs will save you money and countless hours of manual work.

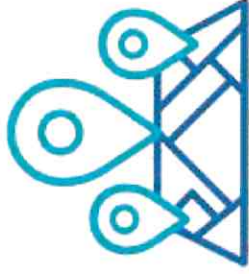
## Reactive:

- There is no point in digging holes if you know you have no lead, use 120's data and predictive modeling to **verify and expedite** your processes.
- We are an end-to-end solution so you don't have to think about managing multiple projects just to get compliant, allowing you to spend time on more important issues

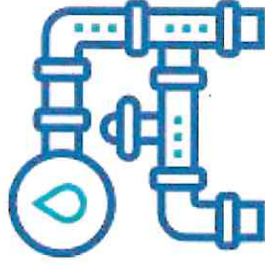


## The Problem

### Starting points



**No Current LSL  
Program**



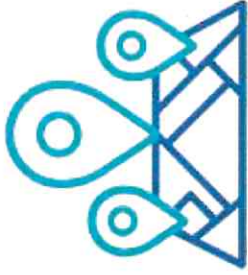
**"Find and Fix"  
Program**



**Active LSL  
Program**

## The Problem

# What are they currently doing?



## No Current LSL Program

### Current situation

- Limited to no LSL inventory
- In compliance for LCR
- Not actively replacing LSL's

### How we can help

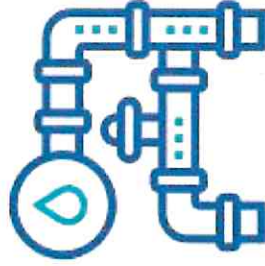
- Develop your inventory
- Find and manage all data
- Create an LSLR plan
- Ensure compliance

# What are they currently doing?

## The Problem



120Water™



## “Find and Fix” Program

### Current situation

- At least a limited LSL inventory
  - Likely still largely unknown materials
- In compliance for LCR
- Not proactively replacing LSL's
- If LSL's are found during Main replacement or repairs, LSL's are traditionally replaced on public side; private side replaced at low interest loan

### How we can help

- Develop/finish your inventory
- Manage all data (including partial data from Find and Fix)
- Create an LSLR plan
- Ensure compliance



120Water™

# What are they currently doing?

## The Problem



## Active LSL Program

### Current situation

- Limited to Advanced LSL inventory
  - Likely still largely unknown materials
- Actively replacing Public and/or Private LSL's
  - May provide financial relief to customers
- May or may not be in Compliance for LCR

### How we can help

- Develop and/or validate your inventory
- Manage all data
- Help develop the most efficient replacement plan
- Ensure compliance
- For replacement: we communicate to customers, provide POUs, and provide sampling pre/post replacement



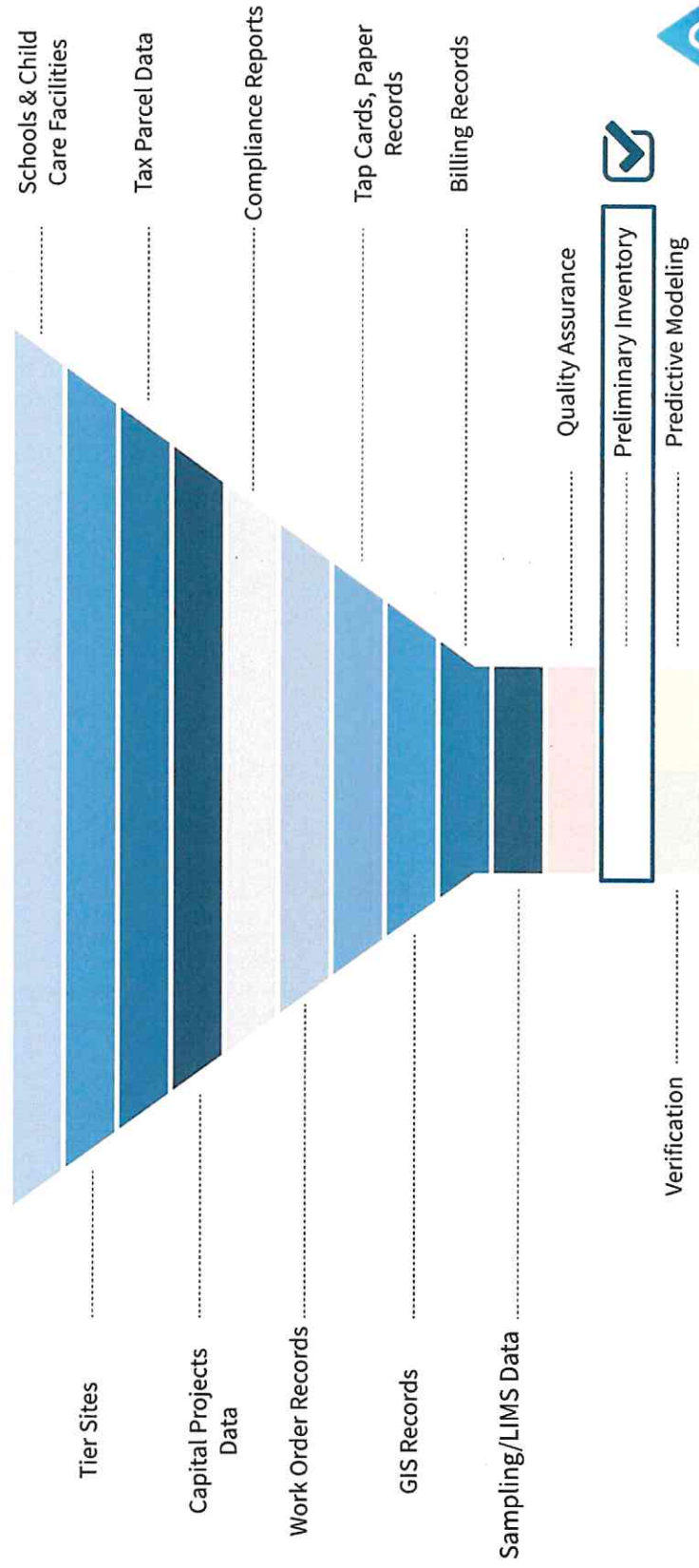
# Top Data Sources to Build Your Inventory

- Top Data Sources:
  - GIS, work order + billing systems
  - Contractors
  - Historical Records
  - Tax parcel data
  - Customers
  - Capital improvement projects
  - Other Documentation
- Tips for finding and digitizing these records?
  - Check policy and plumbing codes when LSL restricted relative to federal ban in 1986
  - Examine your existing data
  - Layer in city records (such as tax parcel data) to understand home age and relevant data points
  - Communicate and collaborate with personnel throughout the utility

# Preliminary Inventory Development

Develop

Create your inventory, regardless of starting place



120Water™

# Methods for Verification

(What are the most common methods for inventory verification?)

## Digital

Valuable if PWS has access to robust datasets, both digital and physical.

- Data mining of existing databases
  - E.g., GIS
- Predictive modeling/ machine learning
- Physical asset digitization and transcription
  - E.g., Tap Cards

## Interior

Valuable if resident population can be engaged to assist in mostly-private side data collection.

- Door-to-door inspections
- Resident survey & photos
- Inspections during compliance sampling
- Contractor inspections
- Scratch and magnet tests
- Water quality sampling

## Exterior

Valuable if PWS has large capital budget and wants to optimize planned investments.

- Field Validation
  - E.g., potholing
- Planned capital programs
  - E.g., water main rehabilitations

# Customer Engagement Strategy

Develop

Planned, Proactive, Positive

## Automated and triggered communications

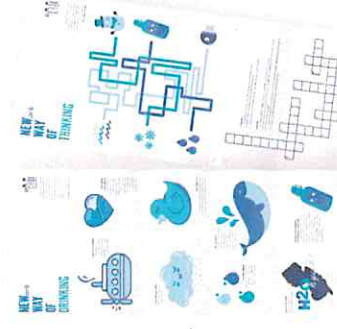
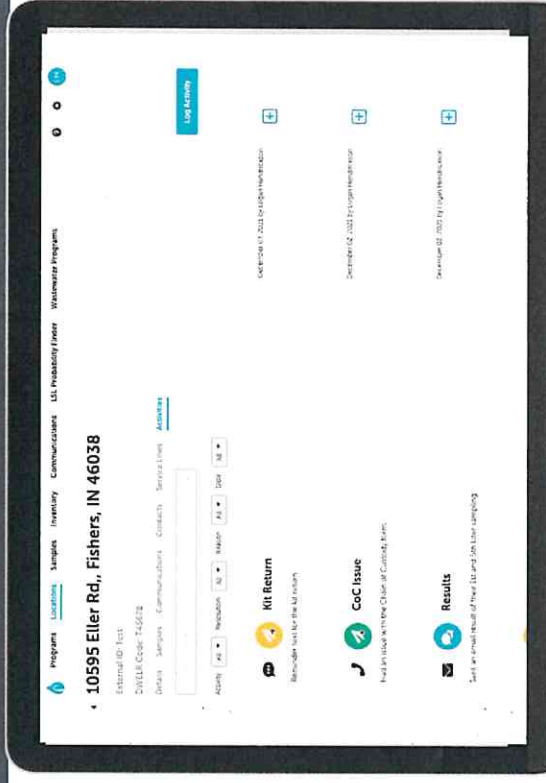
- Automatically generate and send templated notices anytime and anywhere they are needed.
- Engage with one location or the entire distribution system with a few clicks.

## End-to-end activity tracking

- See history of all communications and activities with customers by location.

## Custom postcards and surveys

- Provide an engaging and positive brand experience.





## The 120Water LSLI Solution

The 120Water platform + services helps our clients develop a preliminary inventory, chart a path for accurate long-term data, deliver a compliant LSLI by 2024, and plan for replacement programs.

### Platform

**The only place to track, manage, and analyze all the data needed for LCRR compliance**

- Develop and manage an inventory
- Manage inventory validation (on public and private lines)
- Make data publicly available
- Communicate with customers
- Integrate with existing tools like GIS

### Services

**Our expert consultative services can walk you through every step from inventory to compliance**

- Develop preliminary inventory
- Compliance documentation
- Inventory development campaigns
- Lead Check Swabs
- Customer Survey Postcards
- Replacement Planning

### Differentiators

**Address-centric records is a differentiator. For any customer address, the client will know:**

- The SL material (or probability of lead) and verification method
- The status and/or results of any compliance or replacement sampling
- The status of receiving pitcher/filter kits
- A history of all received and scheduled communications



## Services

Our LSLI services (in general) include:

### Year 1

- Developing a preliminary inventory
- LSLI methods documentation for compliance purposes
- Year 1 Program Status Report

### Years 2 + 3

- Continue building the inventory with campaigns (either directly engaging customers or leveraging existing utility projects) devised and executed by the Program Consultant in collaboration with the client.
- Replacement planning
- Program Status Report: Review and report of LSLI progress, risk areas, and recommendations for future years

### Lead Check Swabs + Lead Survey Postcards

- Recommend strategy for where and how to deploy them
- Development of surveys to gather data
- Review and quality control of the information coming in for the campaign
- Insuring all data collecting during the campaign is in the platform and/or presented in a manner most useful to the client

# 1. Preliminary Inventory Development

✓ Create your inventory, regardless of starting point

- A service offering.
- We determine, collect, digitize, and import client's existing inventory - including physical tap cards, GIS data, and more.
- Visually display known inventory and sort by known/unknown and material type for both public/private lines.
- We perform QA to ensure data integrity.
- We import all additional addresses with unknown inventory.
- A key piece of PID will be the identification and flagging of all **schools and daycares** that will need to be a part of the later sampling process.

External ID: 2858

Service Line: 2858 Active

Pittsburgh

40.466062, -79.92663

Public Line	Material	Verification	Lead Fittings	Fittings
	Cu + Unknown Solder	Installed	No	Verification

Consumer Request Program	Event	Verification Date	Removal Date	Diameter (in)	Depth (in)
LSL Verification	2018 Consumer Requests	01/24/2021	--	1"	36"

## Solution

Inventory

### \*Note on Inventory Development

An inventory consists of known and unknown materials, so every utility *technically* has an inventory today -- it's just a matter of understanding how much of that is known vs. unknown.

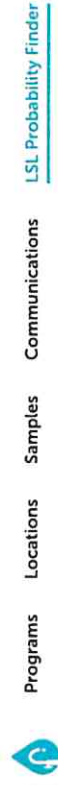
Unconfirmed service connections will be **assumed to contain lead\*** and will impact a utility's numbers when it comes to the 3% they will need to replace annually.

\*this can majorly impact a utilities cost of replacement

## 2. Lead Service Line Probability Finder

✓ Continue to build and validate your inventory with speed, accuracy, and efficiency

- Machine learning algorithm to predict which unknown service lines are made of lead in the distribution network
- Must have some verified LSL's in inventory to run the model
- Model will return a % chance that there is lead in the service line (either public or private) for an individual address
- We will analyze the results and propose a verification plan to the client
- As the client performs verifications and the materials are updated, the model is re-run and continues to increase in accuracy and confidence resulting in a "verified inventory"



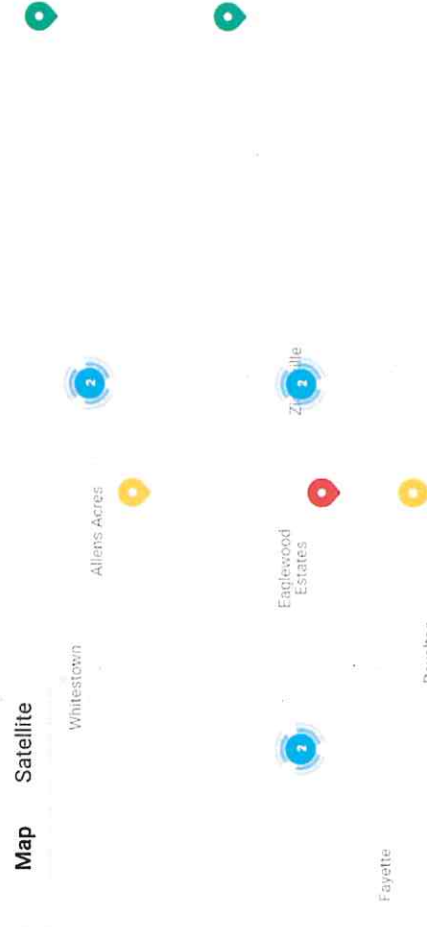
### LSL Probability Finder

8 > 75% Probability

10 75-25% Probability

10 < 25% Probability

### Probable Lead Service Line Locations



## Solution

Inventory

### \*Note on LSLPF

#1

#### Build or Enhance Preliminary Inventory

Customer isn't sure if they have any lead lines or may have missing data, i.e. private or tax parcel data.



Services Needed before Using LSLPF

#2

#### Expand Preliminary Inventory

Customer has service lines with known materials for 250 locations. 50+ locations are known lead lines. Plus known tax parcel data for all service lines.



Ready to use LSLPF

### 3. Verification

Verify your inventory efficiently

120Water **Products** that Support verification

Consumables

- Customer Survey Postcards
- Lead Check Swab Kit

Platform

- Schedule, monitor, and report on Field Tech Events

120Water **Services** for LSLI Validation Efforts

- Prioritization & planning workshops
- Deploy field teams for visual inspection or sample collection
- Customer engagement campaigns for private side data

The screenshot displays the 'LSL Verification' dashboard for the period 'April 01, 2021 - September 30, 2022'. The navigation bar includes 'Overview', 'Locations', 'Samples', 'Results', 'Kits', and 'Lines'. The summary statistics are as follows:

Total LSLs	3	LSLs In Progress	0	LSLs Replaced	0
------------	---	------------------	---	---------------	---

Below the statistics, there are three main sections: 'Program Progress', 'Active Replacement Events', and 'Unknown Service Line Verification'. The 'Unknown Service Line Verification' section is expanded, showing a map of 'Service Line Locations' for the period 'Jun 04, 2021 - Jun 04, 2022'. The map highlights several locations: Avalon, Bellevue, Etna, Sharsburg, and Blawnox.

# Private-side Verification

Verify your customer owned inventory efficiently

## Lead check swabs | Customer survey postcards

- Easy to use with clear instructions
- Customers digitally submit results in minutes
- Data is automatically imported into the software



## Using Lead Check Swabs

Your local water utility is working hard to identify possible lead sources, and we need your help!

These swabs are a quick and easy way to identify lead in your home's plumbing. As a participant in this assessment you were provided 2 swabs to apply to two locations in your home:

1. The Service Line
2. Interior plumbing with solder

REMEMBER: 1 Swab per location - DO NOT use on more than one (1) location

Watch our video to learn how to find these! Visit [20water.com/lead-check](https://20water.com/lead-check) or scan the QR code.



### FOLLOW THESE THREE SIMPLE STEPS

**STEP 1:** If available, use sandpaper to scrub the lead pipe for 30 seconds. Swabs must be used on lead pipe. Swabs must be used on lead pipe several times (See Figure 2). Then gently rub for 30 seconds. Swabs must be used on lead pipe. Swabs must be used on lead pipe several times (See Figure 2). Then gently rub for 30 seconds.

**STEP 2:** Rub the swabs on the A and B marks on the test confirmation card. (See Figure 3). No Lead: If the test remains YELLOW, you have no lead. Lead: If the test turns PINK or RED, you have lead. Lead Pipe: The test will turn PINK or RED. Lead Solder: If you are testing leaded solder, the test will turn PURPLE. This is caused by the presence of lead in the solder.

**STEP 3:** Grinify squeeze the tube while lightly rubbing for 30 seconds. Swabs must be used on lead pipe. Swabs must be used on lead pipe several times (See Figure 2). Then gently rub for 30 seconds. Swabs must be used on lead pipe. Swabs must be used on lead pipe several times (See Figure 2). Then gently rub for 30 seconds.



**EXAMPLES:** Image 1 depicts a lead free certified lead check swab confirmed expected results. Image 2 depicts a lead solder confirmed expected results.

### PLEASE KEEP IN MIND:

- Swabs cannot be used to test warm butyl do not have solder to test.
  - Use one swab per surface and do not rub.
- The letter contained in this kit will provide your findings.

Verify

### Survey:

Street Address, Apt # (if applicable), City, State, and Zip Code where sample will be collected:

Customer Name:

Primary Phone:

Email Address:

LCR Participation:

- Yes, I would like to participate in the Lead and Copper Program.
- No, Please take me off the list at this time.

Structure Type (Check one)

- Single Family Home
- Multi Family Home (ex. Duplex, Apartment building)
- Other Buildings. Explain below:

Year of Construction (Check one)

- If exact year is known, enter: \_\_\_\_\_
- After 1985
- July 1986 - December 1988
- January 1983 - June 1986
- Before 1983
- Unknown

In-home Water Treatment Device (Check all that apply)

- Lead pipe
- Copper pipe without Lead Solder
- Copper pipe with Lead Solder
- Galvanized pipe
- Plastic pipe
- Original Plumbing has not been replaced
- Other. Explain below:

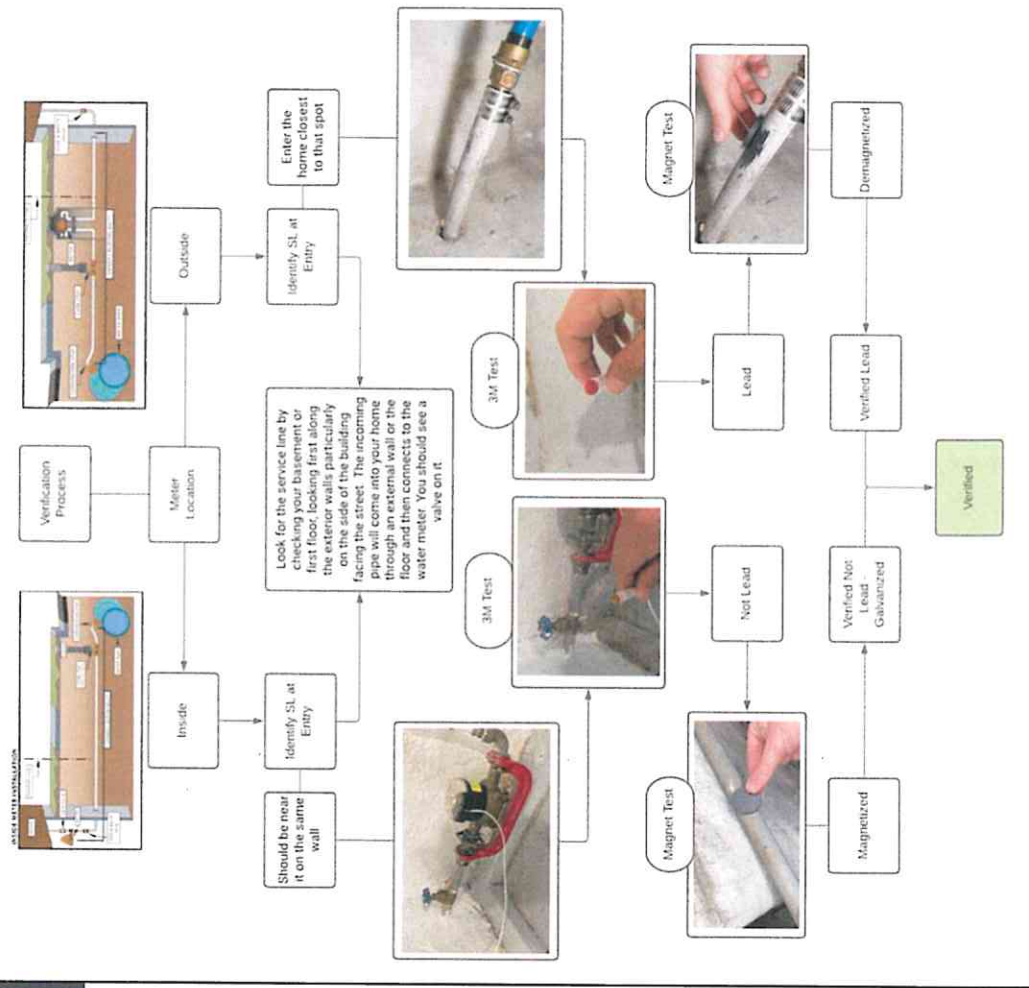
Plumbing (Check all that apply)

- Lead pipe
- Copper pipe without Lead Solder
- Copper pipe with Lead Solder
- Galvanized pipe
- Plastic pipe
- Original Plumbing has not been replaced
- Other. Explain below:



# Verification Process

# Verify



<b>Private Line</b>	Verification	<b>Visual - Swab</b>
Material	Installed Date	Verified By
<b>Lead</b>	--	<b>Tony R.</b>
Removal Date	Verification Date	Removal Date
--	<b>07/07/2021</b>	--
Diameter (in)	--	Depth (in)
--	--	--

# Public-side Verification

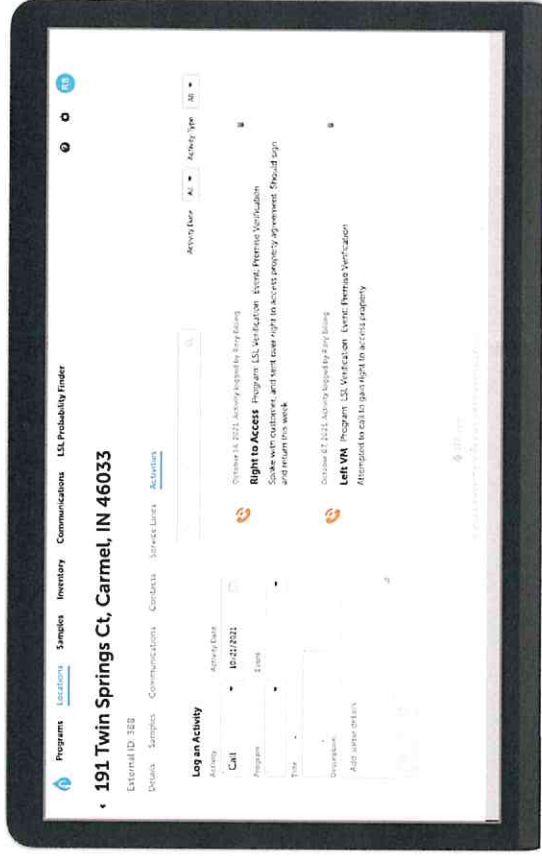
Verify

Verify your utility owned inventory efficiently

- Simple software to use in the field
- Upload photos and notes
- Maintain real-time records and monitor activities for every location



<b>Public Line</b>	Verification
Material	<b>Cu, No Lead</b>
Installed Date	<b>06/23/1988</b>
Verification Date	--
Diameter (in)	--
Depth (in)	--
Verified By	<b>Paul B.</b>
Removal Date	--



## Solution

### \*Lead check Swabs

- Lead check swabs are a service line verification method that can typically only be used for the private side of a service line
- These are delivered to our client's customers by 120Water, including instructions of use.
- This is essentially a marker with a felt tip that turns red if the service line contains lead.
- The shipped materials will include a QR code for the resident to fill out the results as well as a place to upload a picture.
- Submission from the resident automatically updates the data in the 120Water platform
- Best used in municipalities with a large portion of residents who have physical access to their service lines.

## Solution

### \*Field Tech Validation

- The 120Water platform can assign locations for field verification, but the client is responsible for verifying.
- Once sent to 120Water, the verification data will automatically update the service line material and verification method/status in the platform.
- Field Validation is a broad term that refers to visually confirming the material of a service line.
- Field techs will typically travel to sites, dig holes, and record info on materials, diameter, depth, etc.

## 4. Public Transparency (PT) Dashboard + Communications

Provide Public transparency and communicate with customers efficiently.

### PT Dashboard

- Shows the public and private side service line materials for all residents within a PWS service area
- Significantly easier to set-up and use than other PT options (like GIS)

### The 120Water Communications Module

- Manages the creation and delivery of communications from the utility to its residents, like 24hr detection notices.
- Used when the utility needs to inform residents about the process and/or receive permission for field verifications.
- We can generate web-forms to capture any necessary information (e.g. home info, consent to perform a field verification, etc.)

### Communications

Dashboard Letters Audit Log

#### Letter

Create a New Letter from a Template

Company Letterhead

Create Letter

Non-Detect Results Letter

Create Letter

Detect Results Letter

Create Letter

Exceedanc Lett

Create

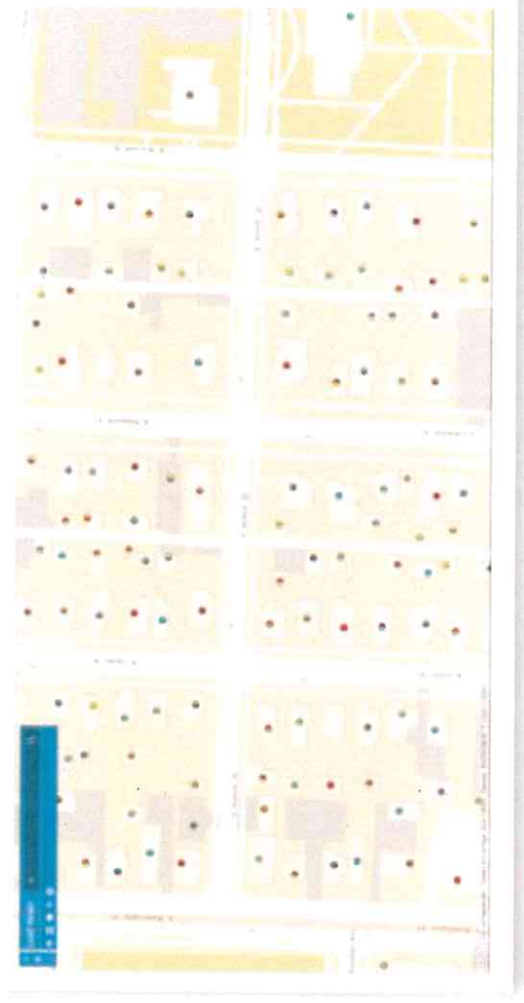
#### Showing 9 of 9 Letters

Communication Name	Type	Event	Template	#
Customer Survey	Letter		Company Letterhead	5
Lead Swab Mailer	Letter		Company Letterhead	0
Pothole Notification Letter	Letter	Unknown Service Line Verification	Company Letterhead	0

## 5. GIS Compatibility

Integrate with your current system of record

- GIS systems (e.g. ESRI) are where service line segments, and their characteristics (e.g. material type) will likely live long-term for a utility.
- 120Water can serve as the database if they do not have a GIS in place.
- We can use GIS data as part of our preliminary inventory development as well as send data back to GIS after process is complete.
- 120Water should be seen as a robust project management solution - not a GIS replacement.



# How do I get started?

LCRR playbook for distribution systems that likely **have lead**

## Develop

1. Develop Preliminary Inventory
  - a. Gather, digitize, and clean existing SL data
  - b. Include inventory of schools & daycares
2. Create Customer Engagement Strategy
3. *Run Predictive Model*

## Verify

4. Verify Preliminary Inventory
  - a. Verification planning/prioritization
  - b. *Execute private-side* field projects
  - c. *Execute public-side* field projects
  - d. *Re-run Predictive Model*
  - e. Create Replacement Plan
5. **Provide Public Transparency Dashboard**

## Replace, Sample, Report

6. Pitcher/Filter Program
7. Sampling
  - a. Replacement monitoring
  - b. 1st and 5th Liter Compliance Monitoring
8. Manage Schools & Daycares Sampling
9. Report (as necessary) to Primacy Agency



## What is it called? What does it do?

The Service Line Inventory Solution is an end-to-end **solution** (combination of products + services) that helps a PWS manage the development and/or verification of their service line inventory from start to finish.

We are the leading expert in LCRR and provide our clients with all they need to establish the foundational steps of LCRR with confidence.



## Value Props

1. **Trusted (Expertise)** - Uncomplicate the LCRR with everything you need to be compliant and/or create your LSLR plan -- regardless of starting point.
2. **Comprehensive** - We've got your back. Save hundreds of hours by managing the entire LCRR program in a single tool (with help from the experts).
3. **Efficient** - Get a known inventory with as little work as possible. And don't waste time and money on things like digging holes where there is no lead - use data to work smarter.

## Elevator Pitch

120Water's Inventory Solution is the only way to build and manage a detailed "location-based" LSL inventory from start to finish, while helping you **understand** and **navigate** the challenges of the Lead and Copper Rule Revisions.

Through simple software, kits, and industry-expert services, we help our clients navigate the LCRR Inventory requirements with confidence.

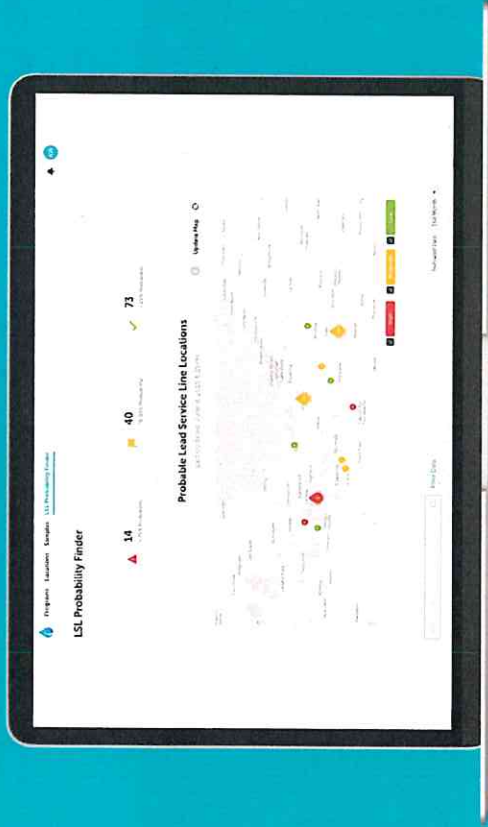
## Why Us?

Positioning

# Our uniquely qualified position to win

- Undisputed experts in LCRR
  - Proven and trusted in the midst of unknown
  - Unmatched LCRR policy experience and understanding
- More than just an inventory solution
  - We manage the entire LCRR compliance process end-to-end [**Data, Sampling, Communications**]
- We're the only solution who can help create an inventory **and** execute a sampling program using the data
  - LCRR is a long-term compliance issue and we are the only long-term partner to manage every aspect
- Predictive Modeling
  - We can predict which unknown service lines are made of lead in the customer's distribution network

# Create & Validate Preliminary Inventory

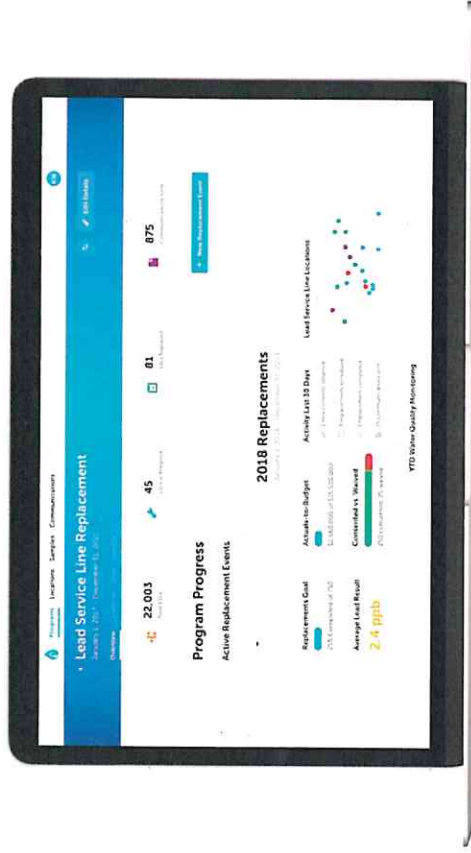


Year 1-5

Gather existing data

Conduct Inventory

# Manage Full LSL Lifecycle



Year 5-20

Prioritize Areas

Replace/Update Lines