

Regionalization Challenges with Ohio EPA Lead Regulations

Jeffrey Kauffman
September 13th, 2019
jkauffman@delcowater.com



Opening Remarks

- **Del-Co Water Historic Events**
- **Regionalization & Del-Co's Experience**
- **Lead Review & Ohio EPA Regulations**
- **Centerburg Acquisition, Meter Replacement Project, & Lead Concerns**

Why Regionalize?

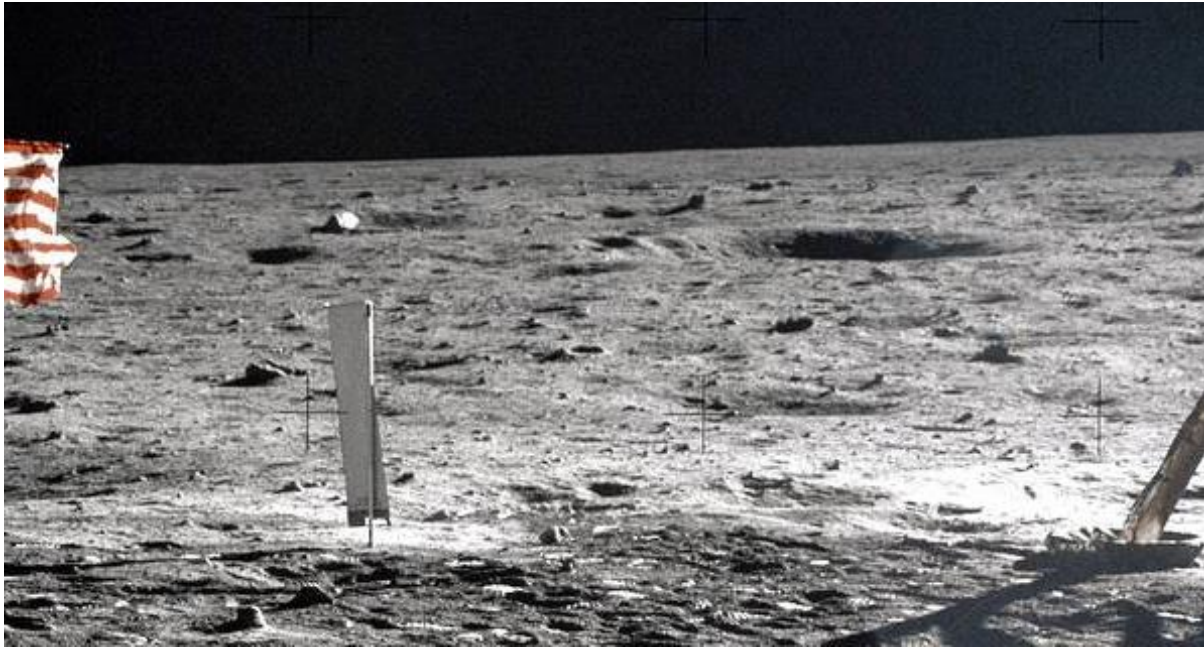
- **Managerial, Technical, Financial Capabilities**
- **Economies of Scale**
- **Regulatory Compliance (MCL, AL, EC)**
- **Cost Effective & Sustainable**
- **Better Option for Communities**

Regionalization Challenges

- **Political Opinions**
- **Financial Agreement**
- **Infrastructure & Assets**
- **Condition Assessment**

Del-Co Historic Events

1969

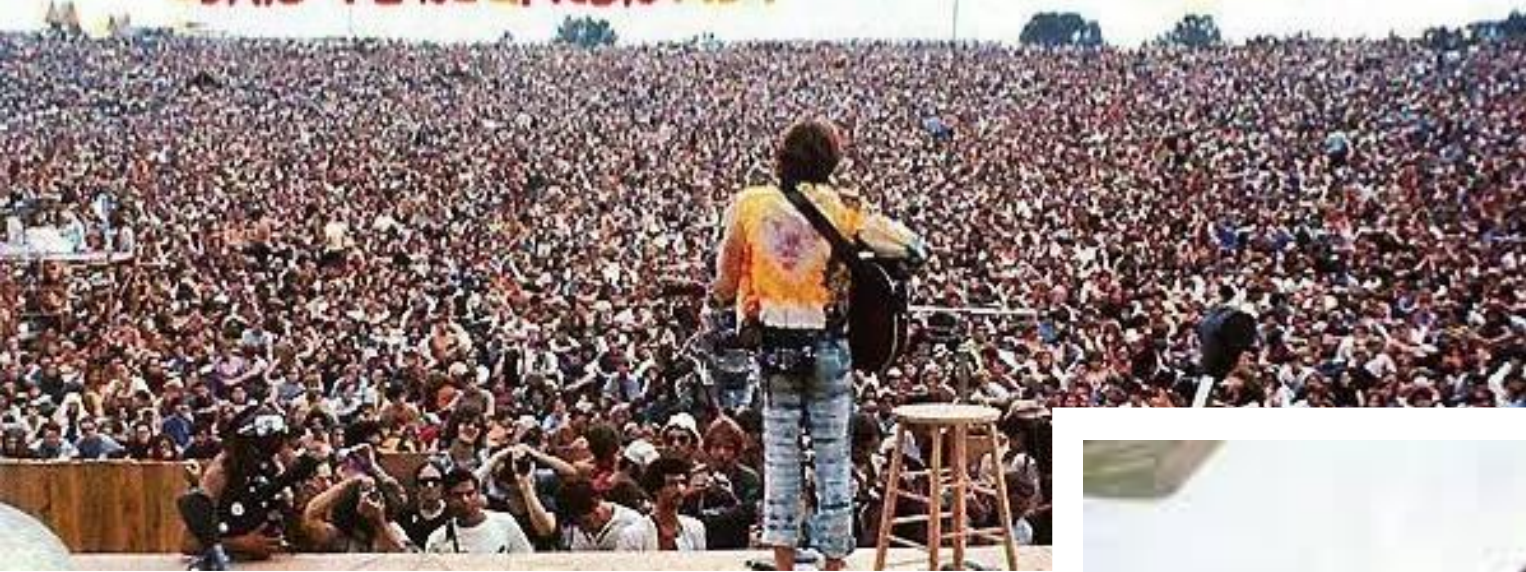
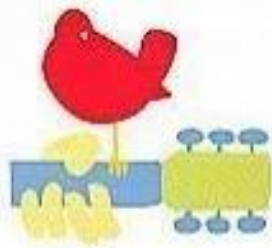


**MEN WALK
ON THE MOON**
*'One Small Step for Man,
One Giant Leap for Mankind'*



WOODSTOCK

3 DAYS OF PEACE & MUSIC 1969



Published by
The Plain Dealer
Company

CLEVELAND PLAIN DEALER

Published by
The Plain Dealer
Company

EVERY MORNING BY DELIVERY TO THE HOME

CLEVELAND, OHIO, MONDAY, DECEMBER 4, 1911. THE PLAIN DEALER—SECTION A. PRICE—TWENTY CENTS.

OIL SLICK FIRE RUINS FLATS SHIPYARD

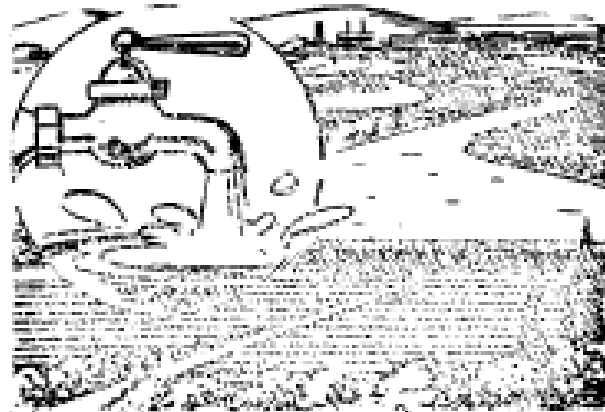




Cuyahoga River named America's 'river of the year'

'The Cuyahoga is a national success story.'

DEL CO WATER COMPANY INC



INVITES YOU TO

WHAT: Public Meeting Monday Evening - MAY 19, 1969 - 8:00 P.M.

WHERE: Olentangy High School

SUBJECT: Rural Water Supply and Distribution for Delaware County.

You will be given the opportunity to become a member of the non-profit corporation. Ask Questions about the proposed project and about the costs to a consumer.

" YOU ARE URGED TO ATTEND "

You will not be obligated in any way by attending.

1974



"All the News
That's Fit to Print"

The New York Times

LATE CITY EDITION

Weather: Partly cloudy today; cool tonight. Fair, pleasant tomorrow. Temp. range: today 65-79; Thursday 64-81. Highest Temp.-Hum. Index yesterday: 73. Details on Page 95.

VOL. CXXIII..No. 42,566

© 1974 The New York Times Company

NEW YORK, FRIDAY, AUGUST 9, 1974

The largest circulation of any newspaper in the world

15 CENTS

NIXON RESIGNS HE URGES A TIME OF 'HEALING'; FORD WILL TAKE OFFICE TODAY

'Sacrifice' Is Praised; Kissinger to Remain

By ANTHONY RIPLEY

WASHINGTON, Aug. 8—Vice President Ford pledged to you tomorrow and in the future, my best of President Nixon tonight. He looks in cooperation, leadership "one of the greatest personal and dedications to what's good sacrifices for the country and for America and good for the world," he said.

Mr. Ford, who will take office as the 38th President tomorrow, vowed to continue Mr. Nixon's foreign policy and announced that Secretary of State Kissinger had agreed to stay on in the new Administration.

"I pledge to you tonight, as

Speculation rife on vice president

All day today the signs of the historic change were in the air.



Vice President Ford meeting with newsmen last night



President Nixon on TV as he announced his resignation

The 37th President Is First to Quit Post

By JOHN HERBERS

WASHINGTON, Aug. 8—Richard Milhous Nixon, the 37th President of the United States, announced tonight that he had given up his long and arduous fight to remain in office and would resign, effective at noon tomorrow.

At that hour, Gerald Rudolph Ford, whom Mr. Nixon nominated for Vice President last Oct. 12, will be sworn in as the 38th President, to serve out the 895 days remaining in Mr. Nixon's second term.

Less than two years after his landslide re-election victory, Mr. Nixon, in a conciliatory address on national

Text of the address will be found on Page 2.

television, said that he was leaving not with a sense of bitterness but with a hope that his departure would start a "process of healing that is so desperately needed in America."

He spoke of regret for any "injuries" done "in the course of the events that led to this decision." He acknowledged that some of his judgments had been wrong.

The 61-year-old Mr. Nixon, appearing calm and resigned



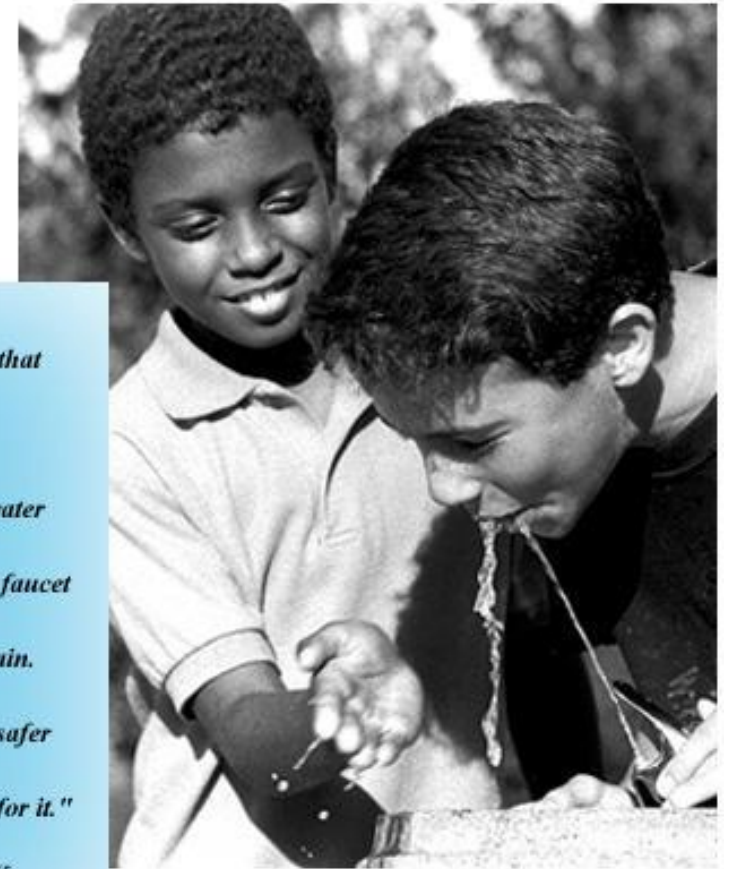
Safe Drinking Water Act (SDWA) of 1974

- Across the country, drinking water quality was uneven;
- Standards varied widely from state to state, and sometimes even in different areas of the same state.
- The SDWA established the first comprehensive program to eliminate these inconsistencies and set nationwide standards for drinking water quality

The Safe Drinking Water Act

- ONE YEAR LATER -

Success in Advancing Public Health Protection



"Today we helped to ensure that every family in America will have safe, clean drinking water to drink every time they turn on a faucet or stop at a public water fountain. From now on our water will be safer and our country will be healthier for it."

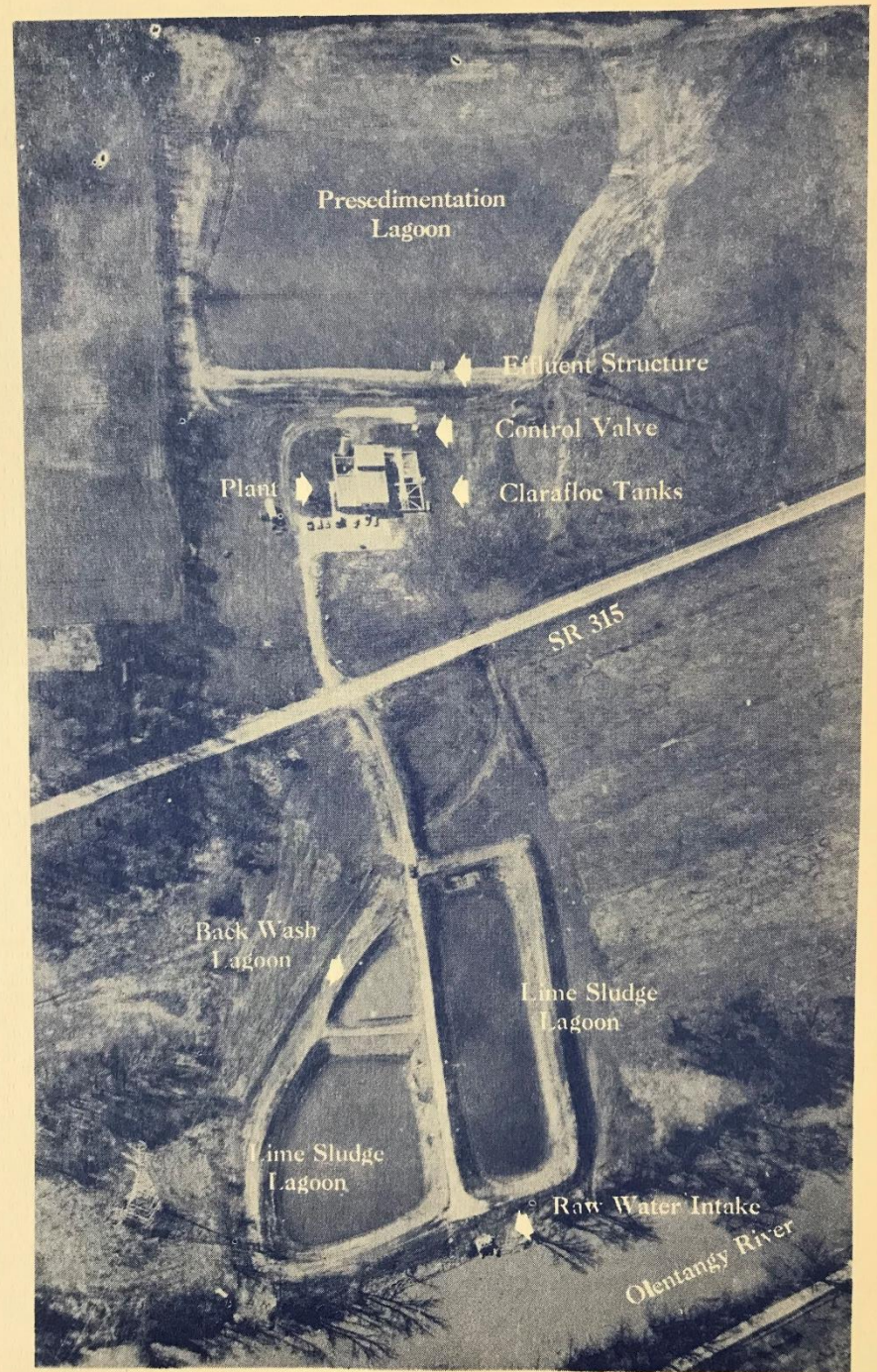
President Bill Clinton's remarks
at the signing of the
Safe Drinking Water Act Amendment of 1996.





DEL-CO WATER TREATMENT FACILITIES
Delaware County, Ohio

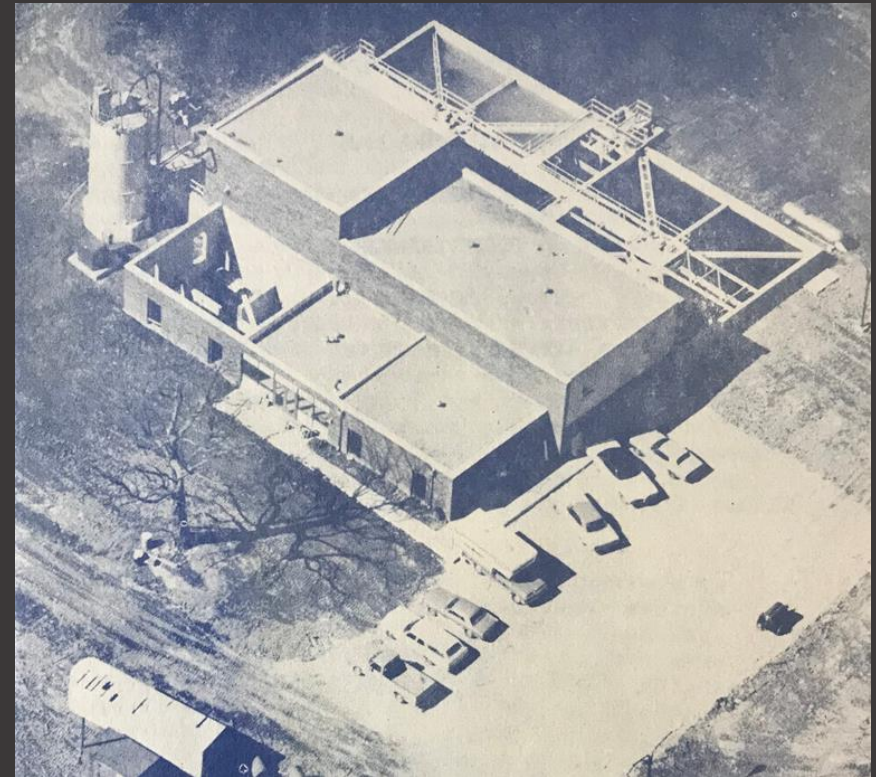
DEDICATION
Sunday, August 18, 1974



Where Del-Co Began

Del-Co General Information

- **Member-owned Cooperative**
- **501 (c) Not-for-Profit Corporation**
- **Established in 1969**
- **Served 1st customer in 1974**
- **Initial Employees = 4**
- **Initial Customers = 2000**



*Delco West Water Company
Initial sign up ends
February 28, 1973 at 7 p.m.*

Join now and save \$100.00

**Fees up to and including February 28, 1973 are:
Membership \$10.00, Residential 5/8" Tap \$65.00**

**Fees after February 28, 1973
Membership \$10.00, Residential 5/8" Tap \$165.00**

Office Hours: 8:30 a.m. to 7 p.m. (until 2/28/73)

**Delco West Water Company
5810 Columbus Pike (US 23)
Delaware, Ohio 43015
Phone 240-548-7746**



Lester Stone of FHA, Dean Miller - County Commissioner, Ralph Scott - President of Del-Co, and Ted Woldorf of the Ohio Department of Natural Resources examine approval papers of the \$4 million dollar loan August 17, 1970.

Del-Co Water Plans to Begin Construction in 1971

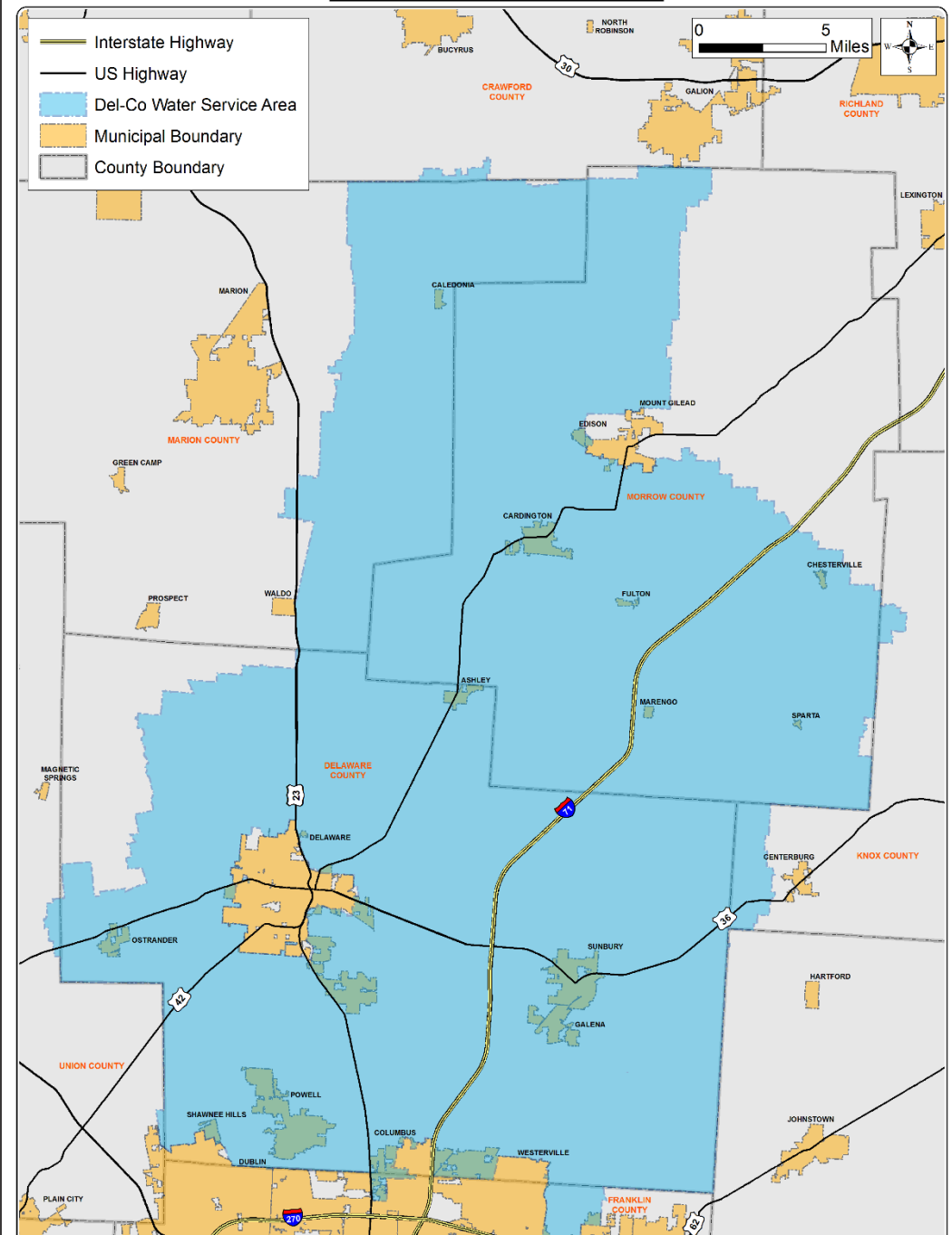
**RECEIVES LOAN FROM FARMERS ADMINISTRATION;
PLANS PUBLIC MEETINGS FOR TAP FEES, EASEMENTS**

Farmers Home Administration approved a \$4,000,000 loan to Del-Co Water Company, Inc., last week for construction of a rural water system in southern Delaware county. According to Del-Co President Ralph E. Scott, the construction is expected to begin in the spring of 1971 and will be completed in 12 to 15 months.

vine, Lester M. Stone, state director of the Farmers Home Administration, Dean Miller, chairman of the county commissioners, Alfred F. Myers, president of the Delaware Chamber of Commerce, Warren Bale, district supervisor of FHA and Arthur F. Woldorf, representative of the Ohio Department of Natural Resources. All except Devine were present at Monday's press

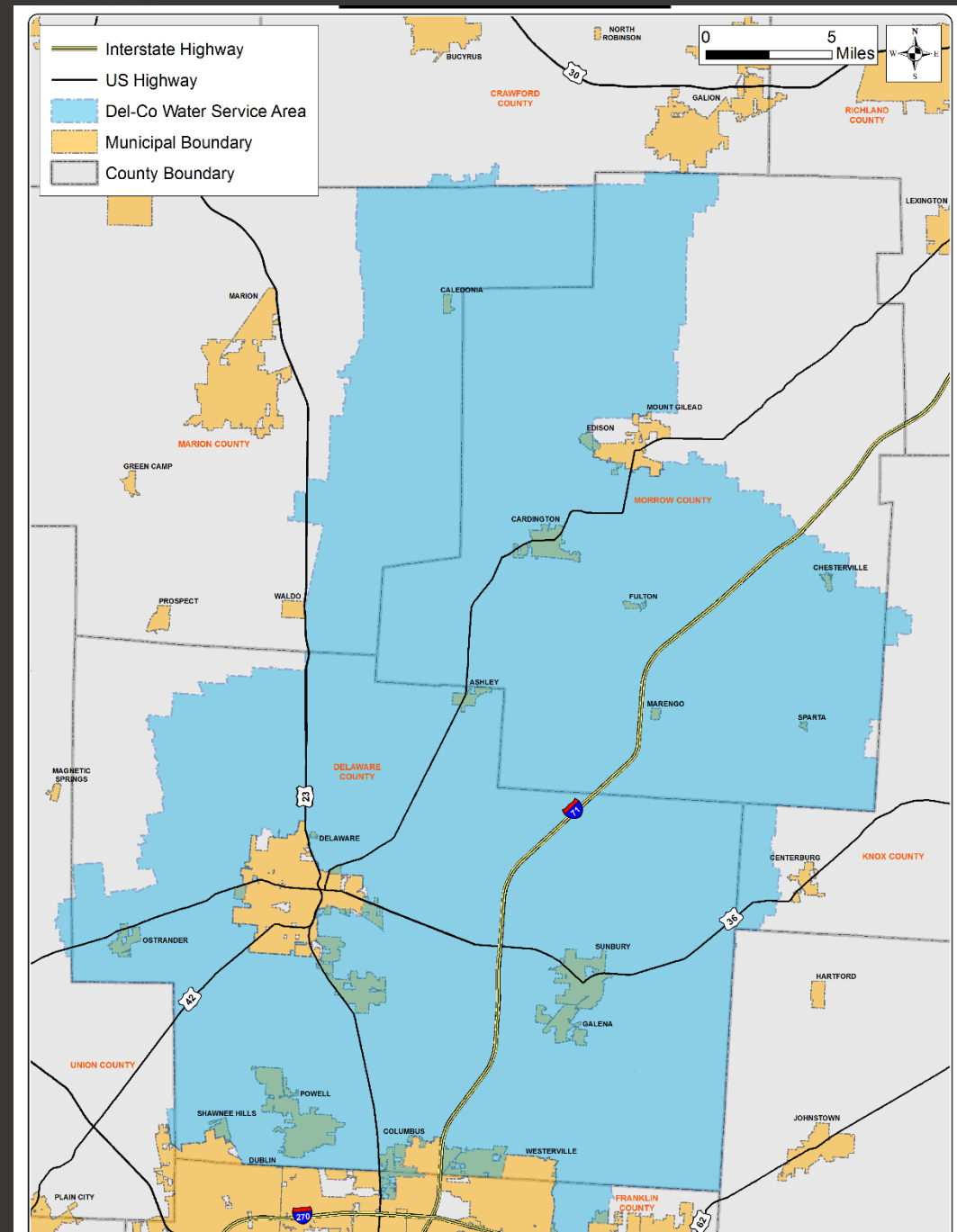
Del-Co Water Service Area

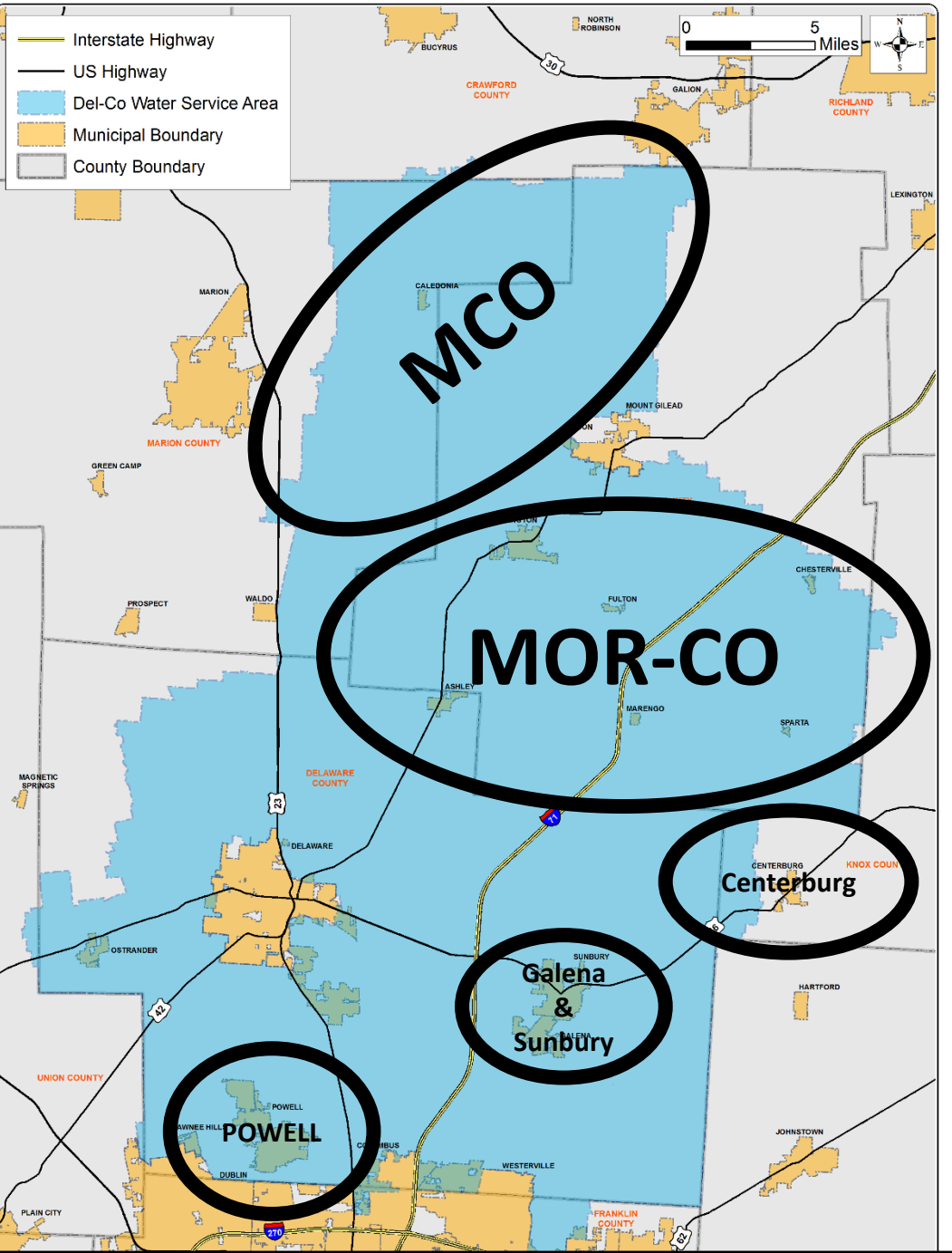
Significant Additions

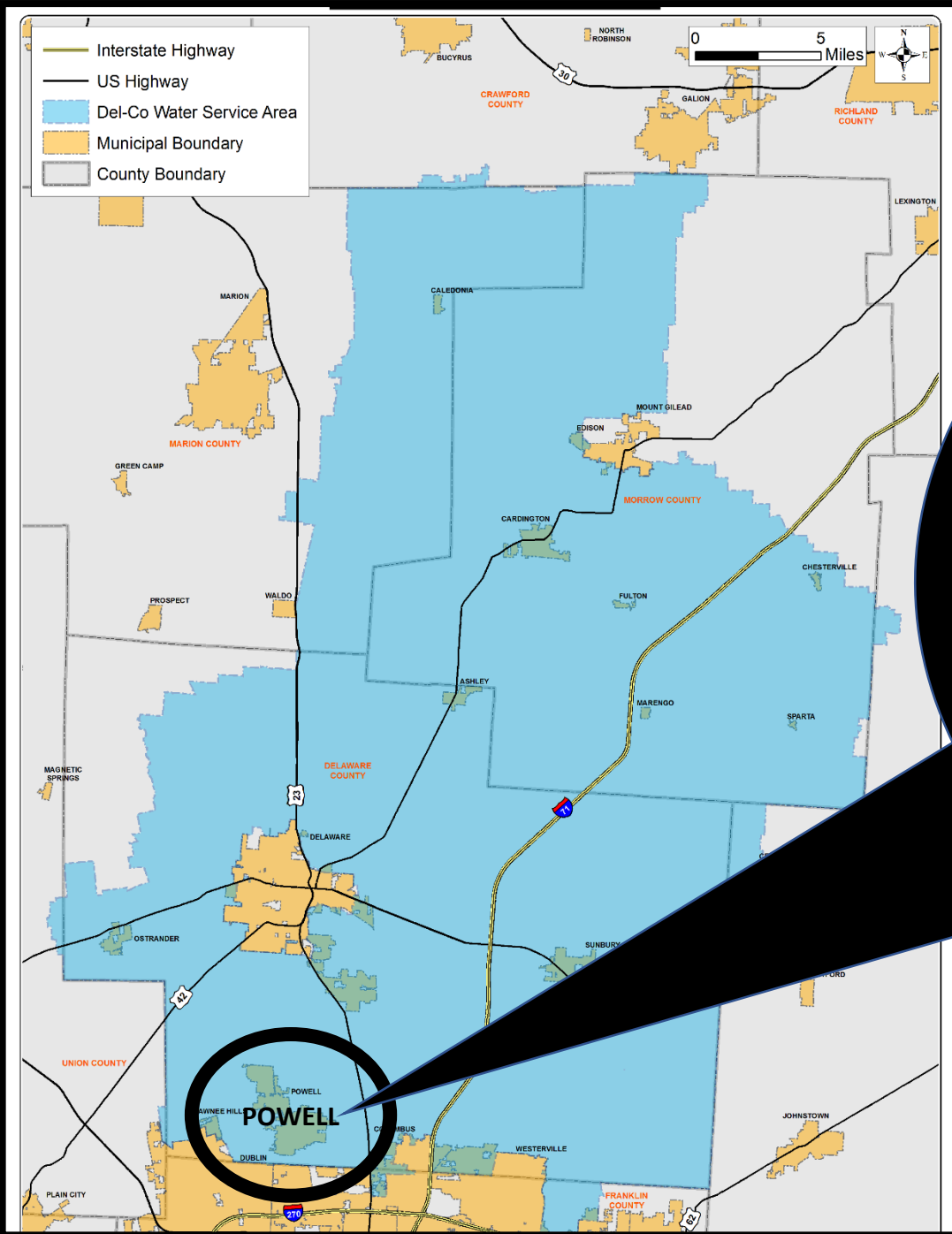


Significant Additions

Powell
Sunbury
Galena
Centerburg
Morrow County
Marion County

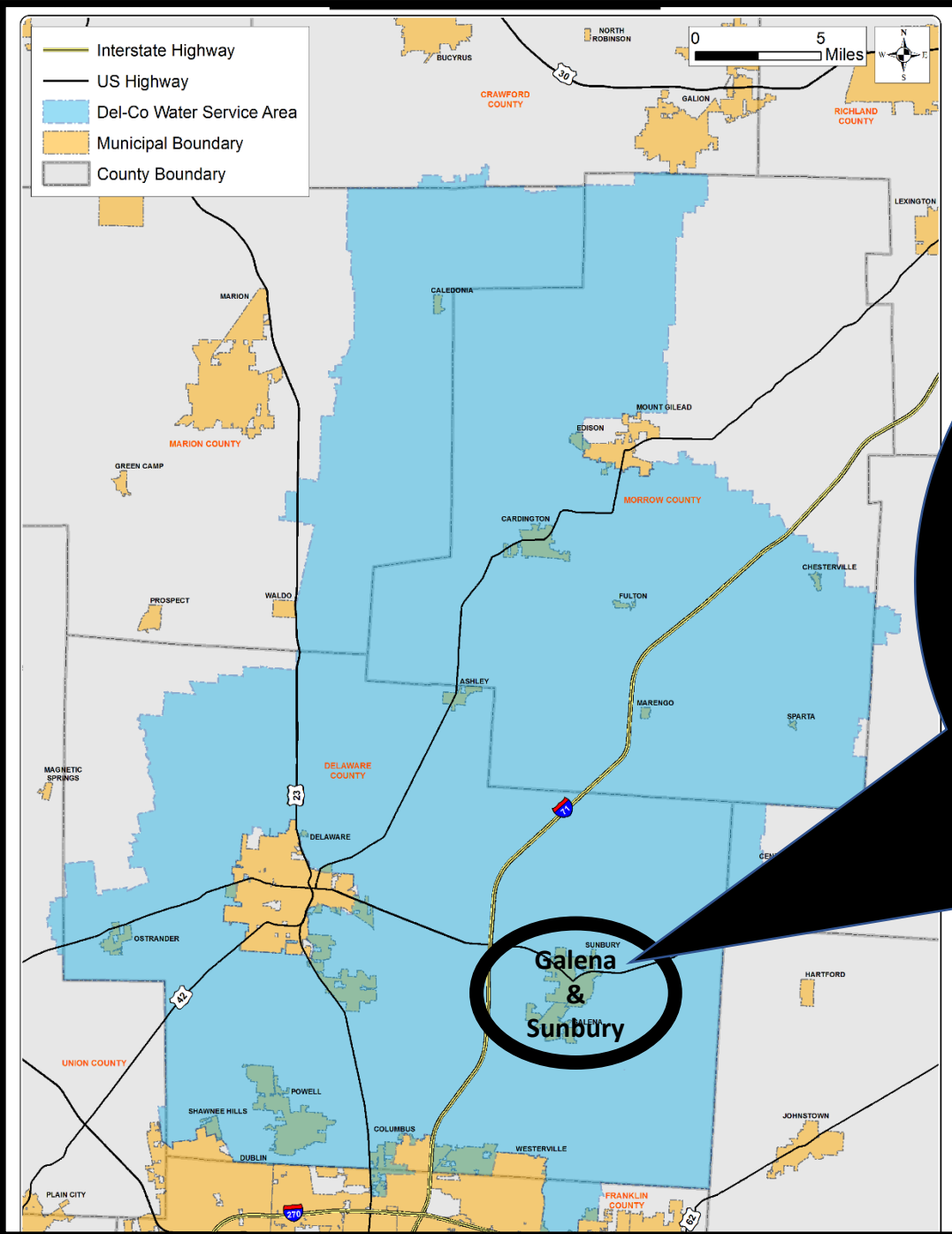






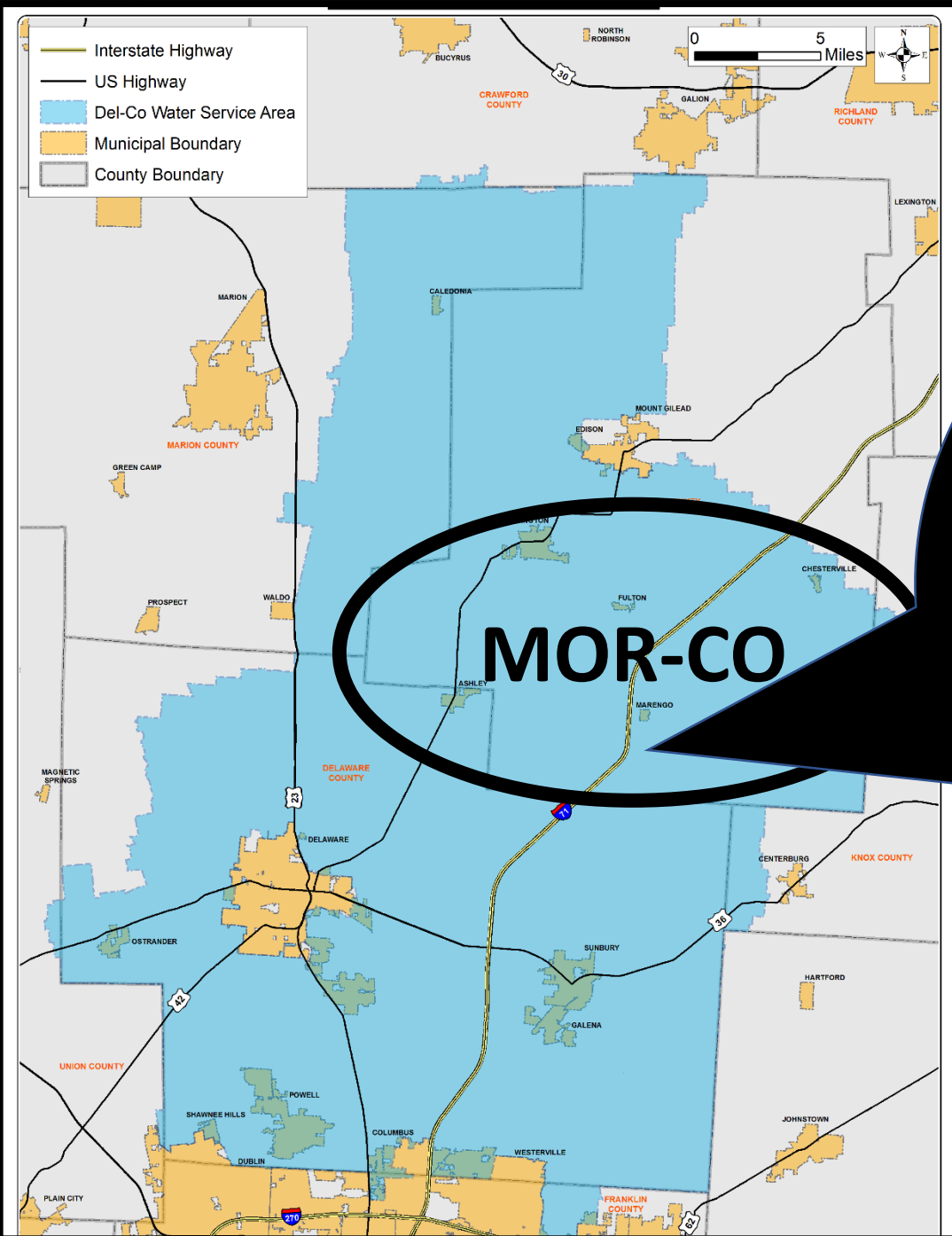
Powell

- Early 1980s
- 4,069 Services
- PWS & Dist. System



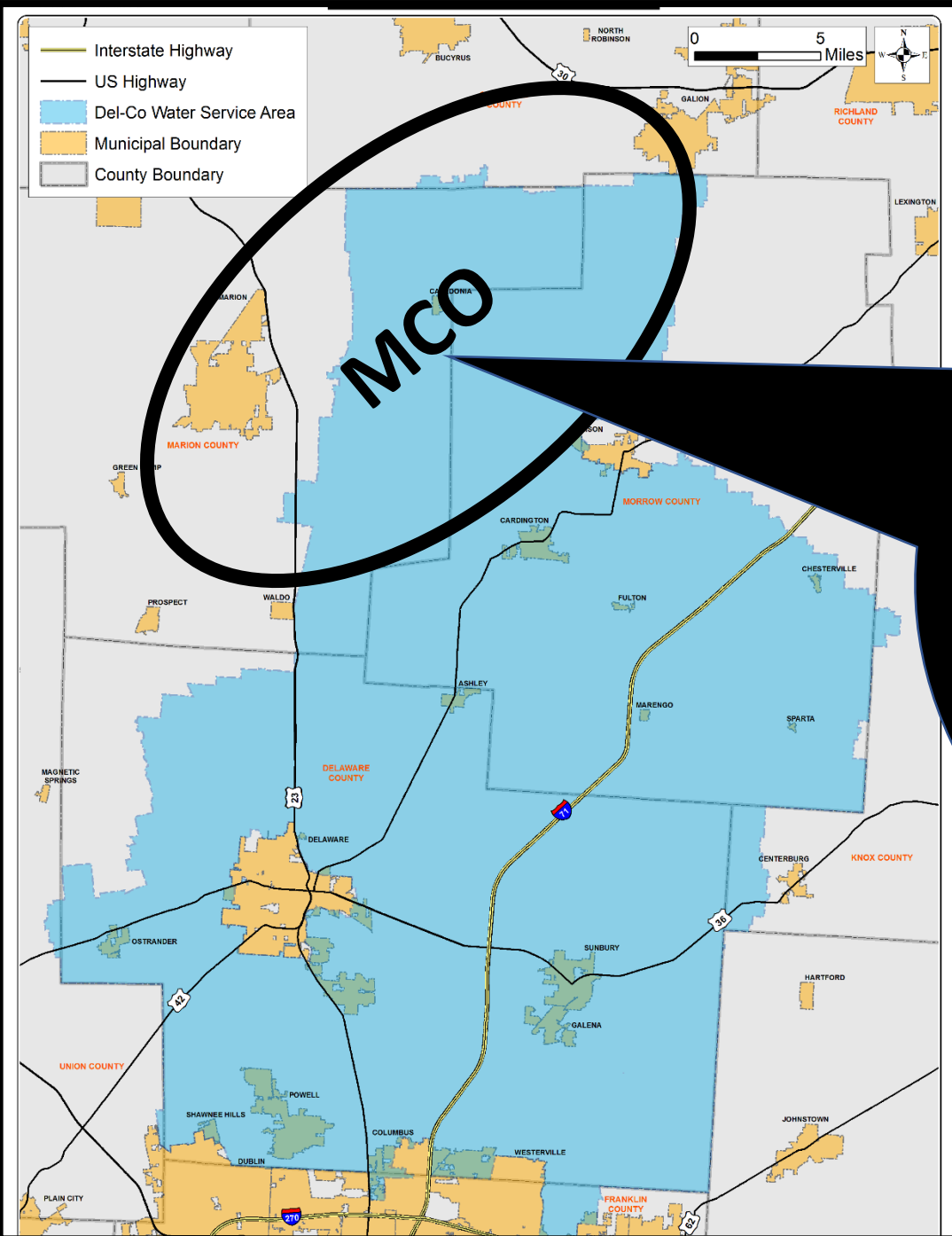
Galena

- Early 1990s
- 297 Services
- PWS & Dist. System



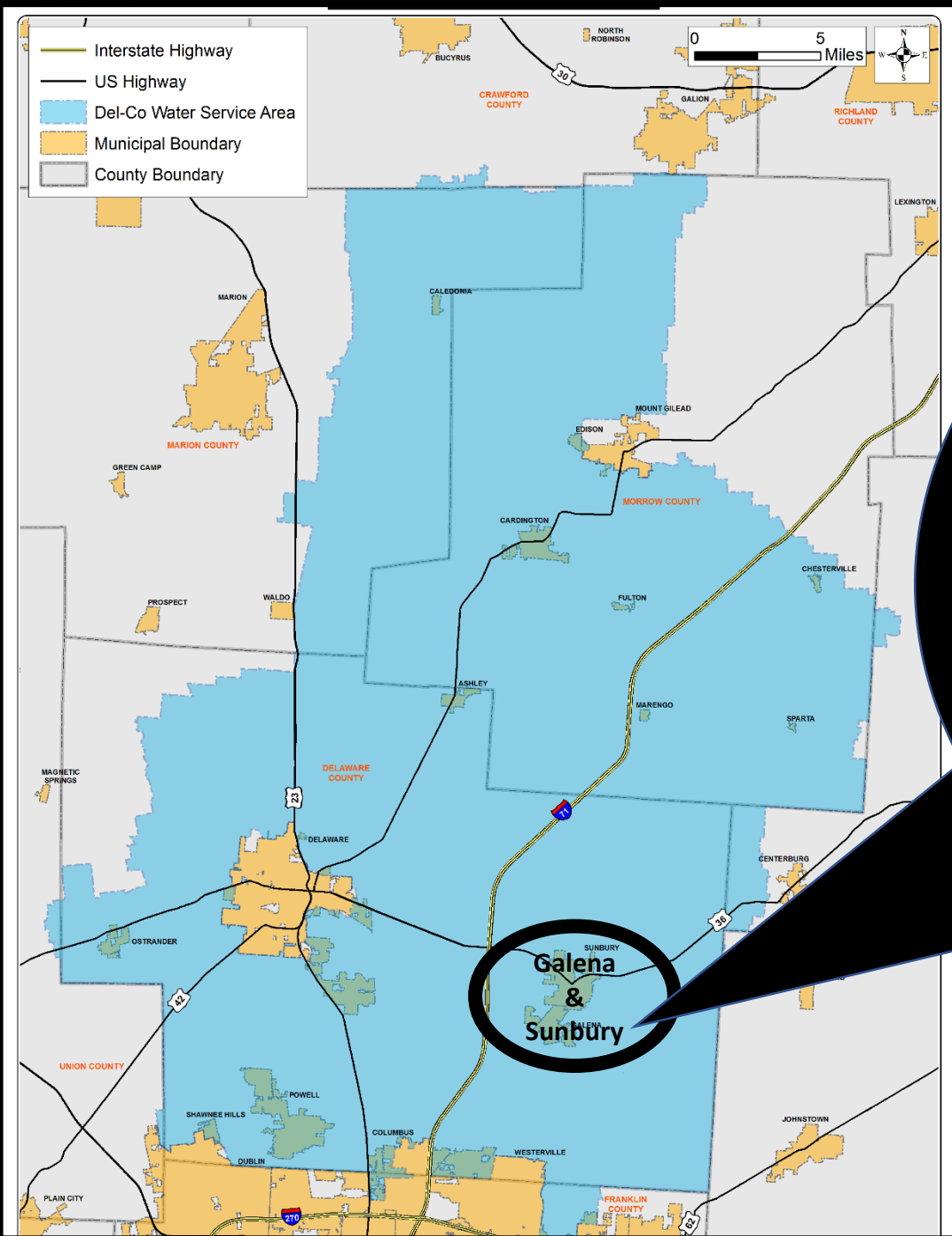
MOR-CO

- Early 1990s
- Dist. System Only
- Secured USDA Funding



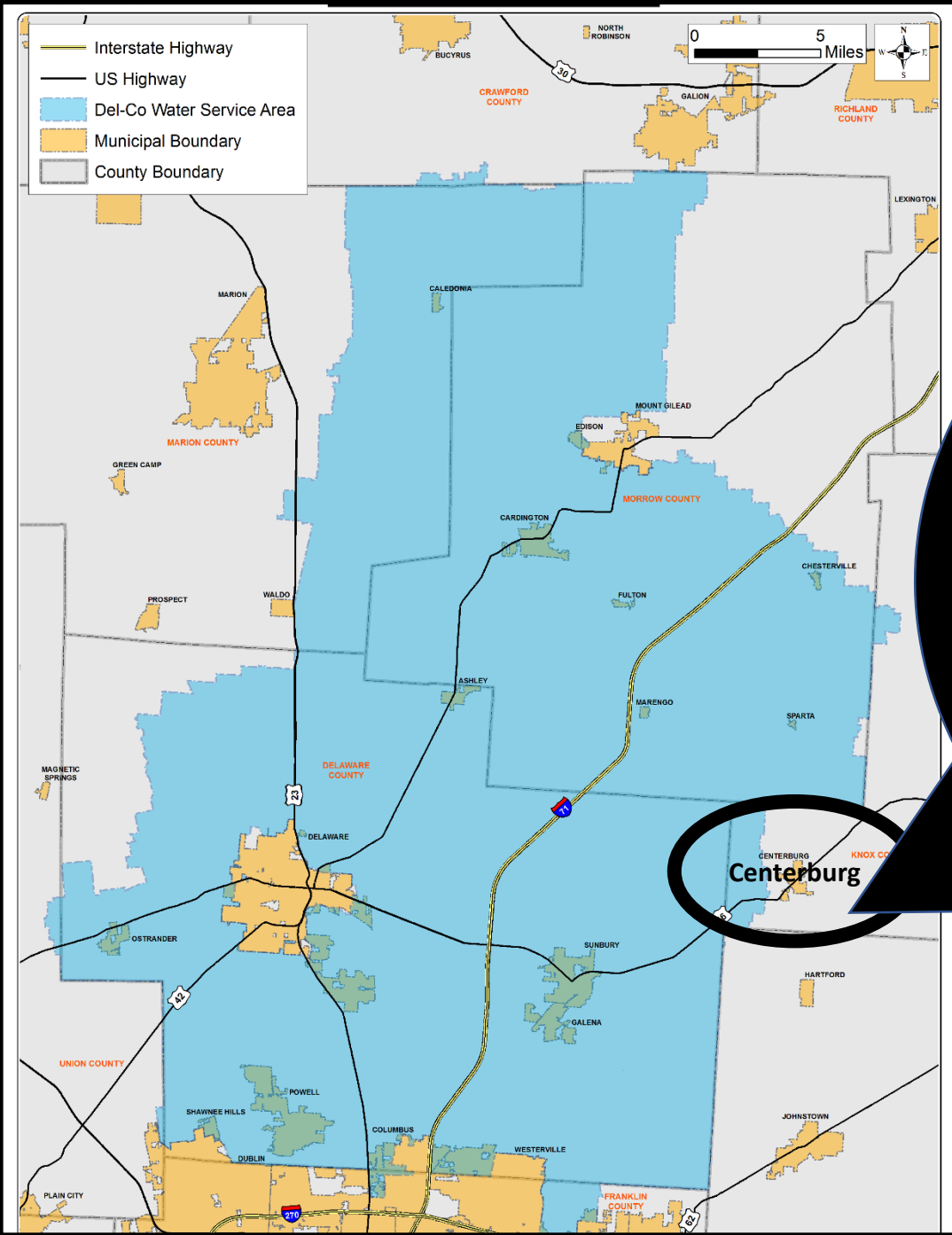
MCO

- Early 2000s
- Dist. System Only
- Secured USDA Funding



Sunbury

- 2005
- 1,992 Services
- PWS & Dist. System



Centerburg

- 2018
- 650 Services
- PWS & Dist. System

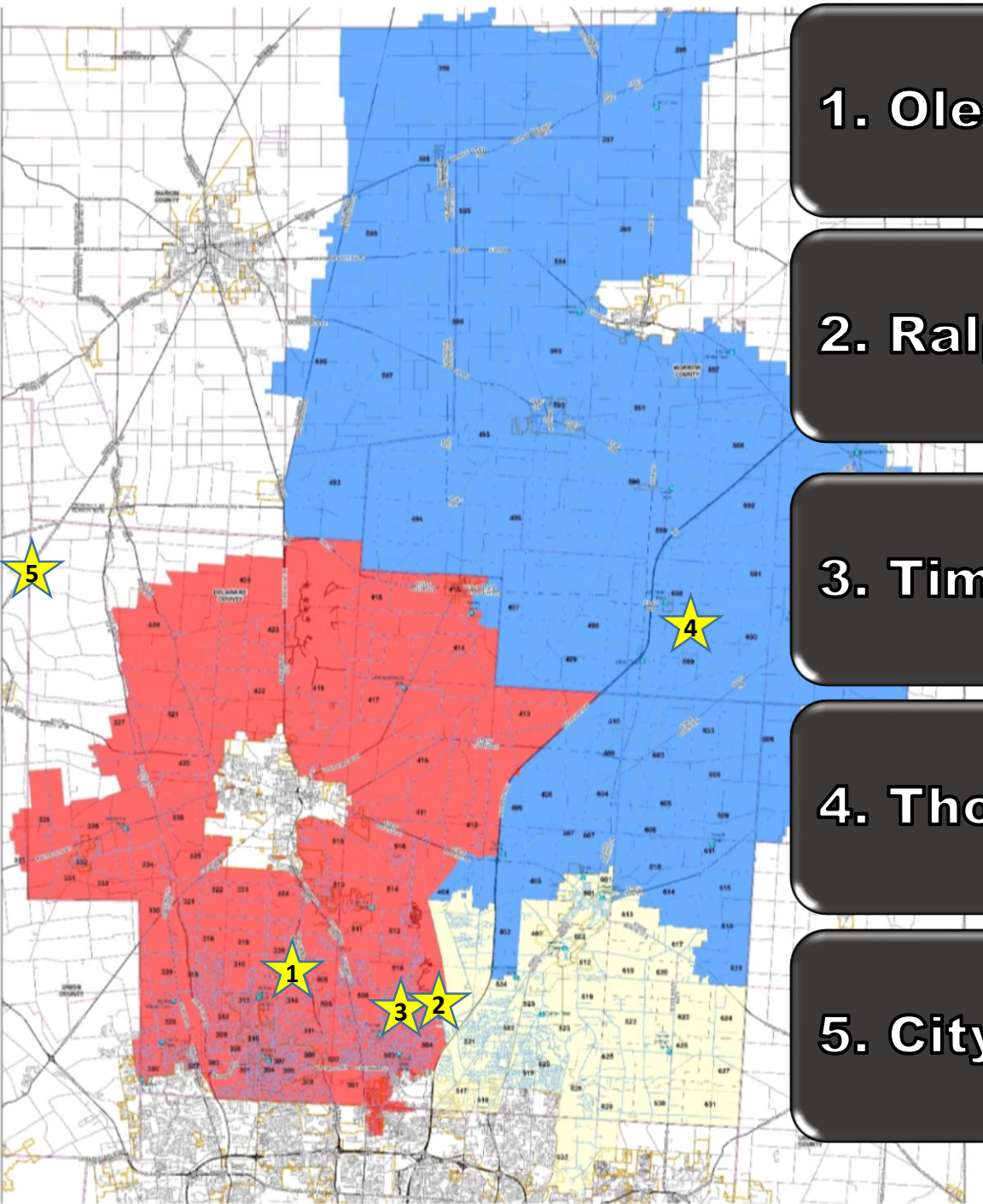
Del-Co Today

Del-Co General Information

- **7th largest PWS in Ohio**
- **Largest 'Rural' Ohio system**
- **One of largest regional systems in Ohio**
- **Employees = 100**
- **Customers = 50,000**
- **Population = 150,000**

Del-Co System

- **4 Treatment Plants**
- **827 Sq. Mi. Service Area**
- **2000 Miles of Pipeline**
- **30 Elevated Tanks**
- **18 Booster Stations**
- **Serve 7 Counties**
- **7 Off-stream Reservoirs**



1. Olentangy Plant / Reservoirs

2. Ralph E. Scott Plant

3. Timothy F. McNamara Plant / Reservoirs

4. Thomas E. Steward Plant

5. City Columbus/Del-Co Upground Reservoir

A photograph of a modern building with large glass windows, situated on a concrete foundation. The foundation has a large sign that reads "DEL-CO WATER" in blue, 3D-style letters. The building is surrounded by green grass, trees, and a clear blue sky. A yellow text overlay at the bottom of the image reads "Olentangy Campus".

DEL-CO WATER

Olentangy Campus



Ralph Scott Plant



Timothy McNamara Plant



Thomas Steward Plant







TES PLANT 7/15/2013
MAIN PLANT.

Del-Co's Future Growth



MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

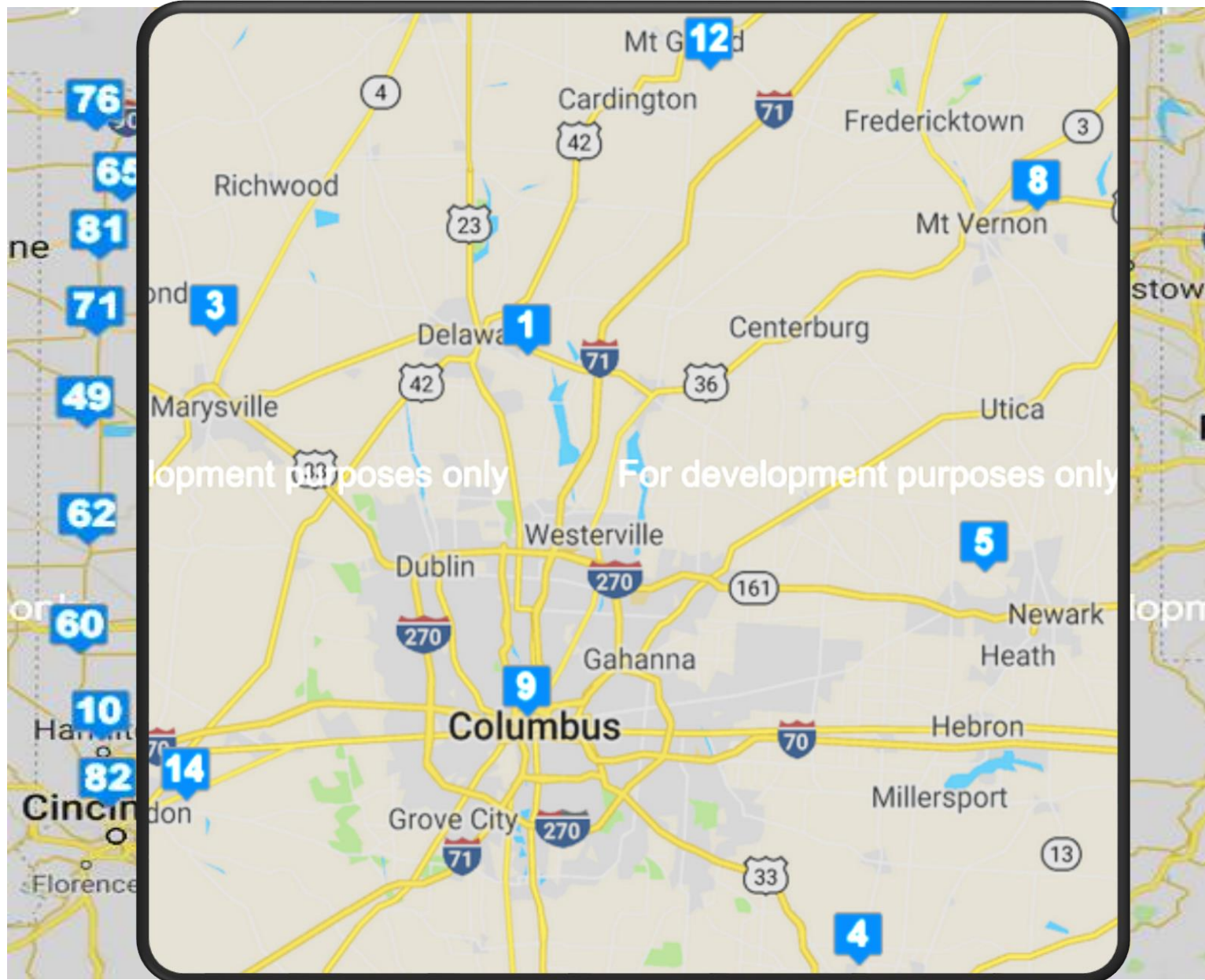
[CONTACT US](#)

[HOME](#) » [NEWS](#) » [CENTRAL OHIO POPULATION TO REACH 3 MILLION BY 2050](#)

Central Ohio Population to Reach 3 Million by 2050

December 19, 2018

Ohio Population Growth Rates (2000 – present)



Growth of the Region



**Significant
planning efforts**



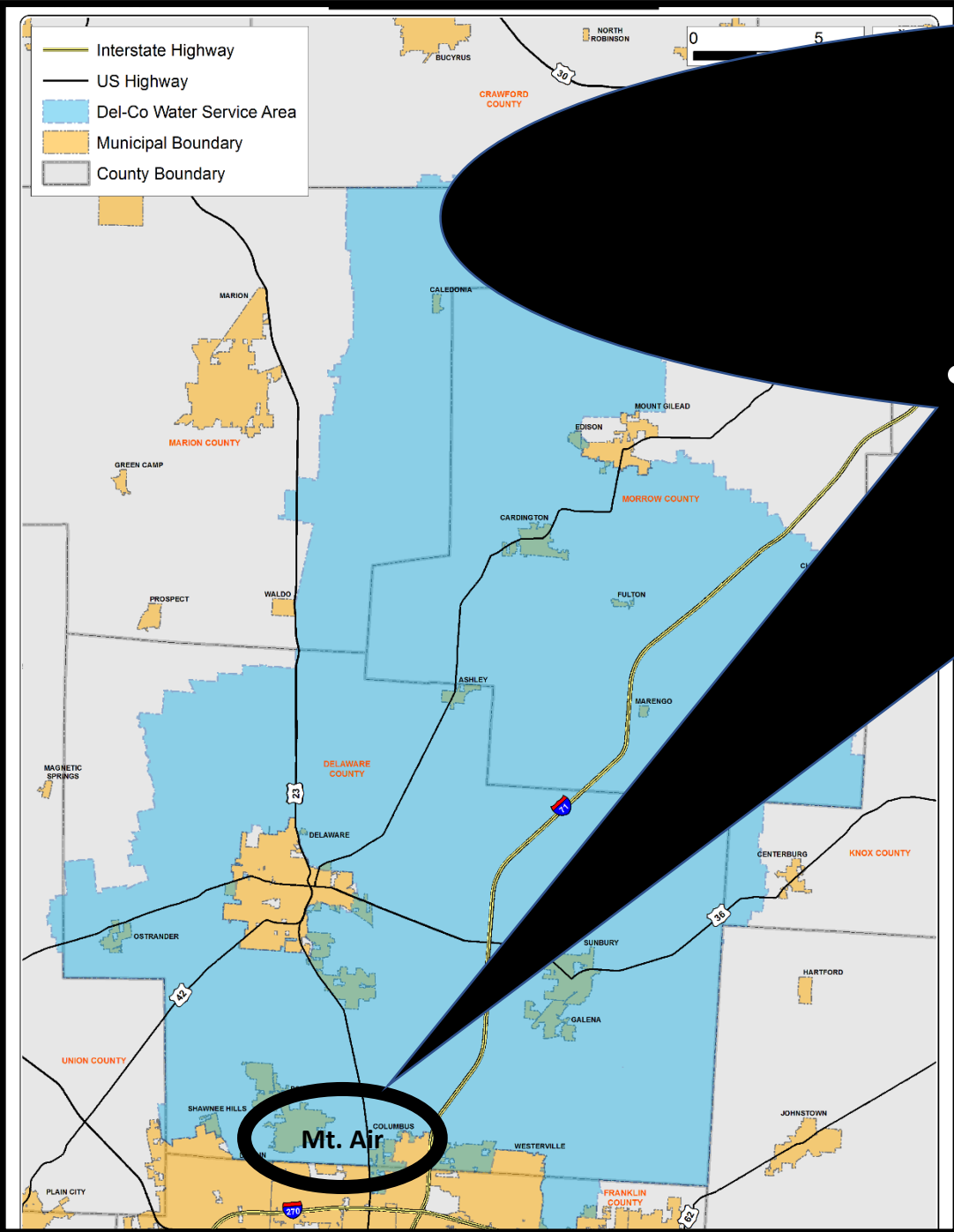
**Adding systems
(when beneficial)**

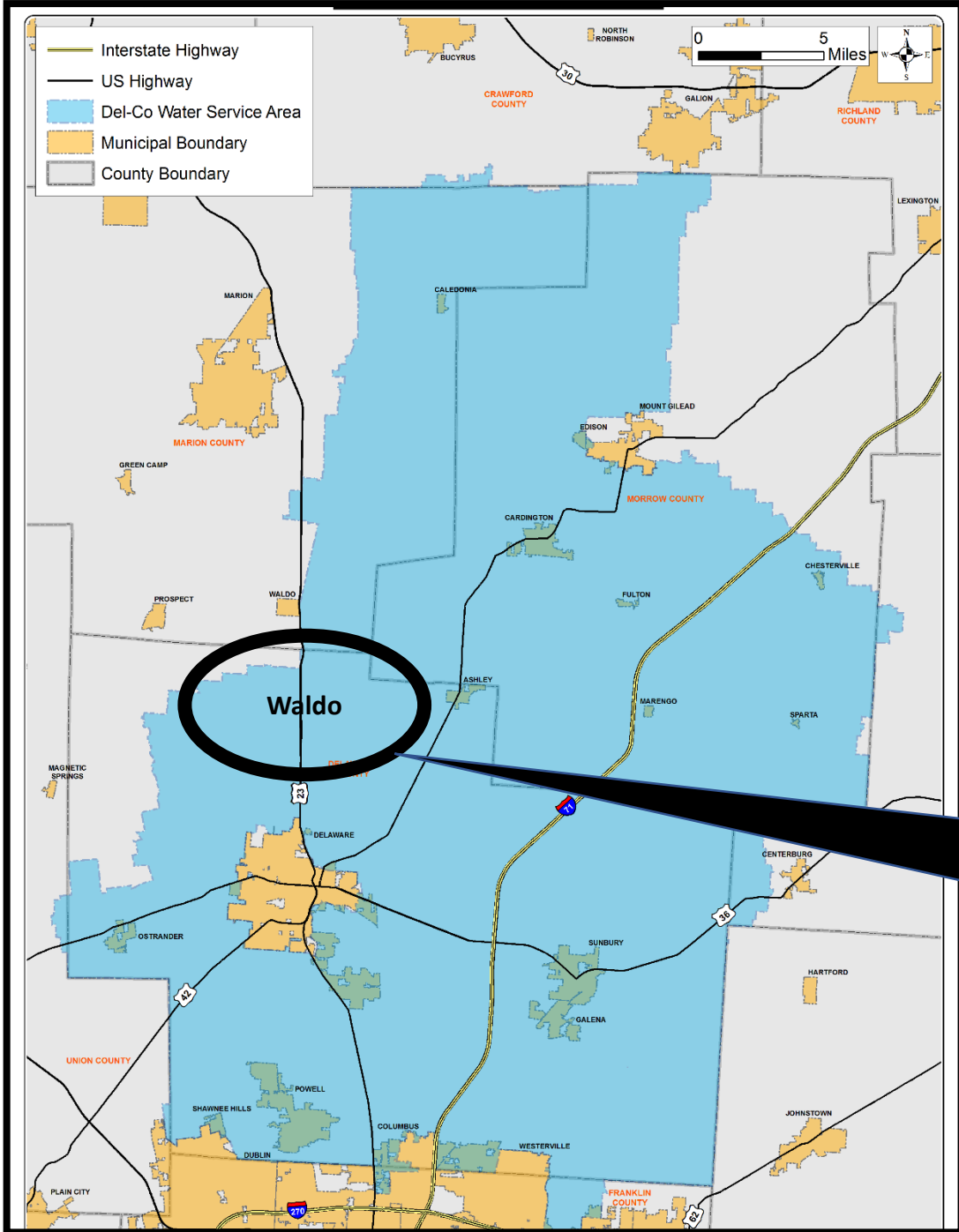


**4th largest PWS in
Ohio ???**

Mount Air

- 2020 ?
- In Negotiations
- Seeking Funding





Waldo
 • 2022 ?

Lead Review

Lead Review

- **Lead is a Public Health Issue**
- **CDC *vs.* EPA Perspective**
- **Challenges with Customer Education**

CDC Perspective

- **No known safe blood lead concentration**
- **Cumulative poison with permanent effects**
- **CDC recommends children and pregnant women use bottled or filtered water if above 15 ppb**
- **Infants, children and pregnant women most susceptible**

EPA Regulations

- **USEPA regulation is an Action Level of 15 ppb**
- **An AL is not an MCL; is not health-based**
- **An AL exceedance is 'not a violation' and a 'Do Not Drink' notification is not required**

Del-Co Lead Review Concerns

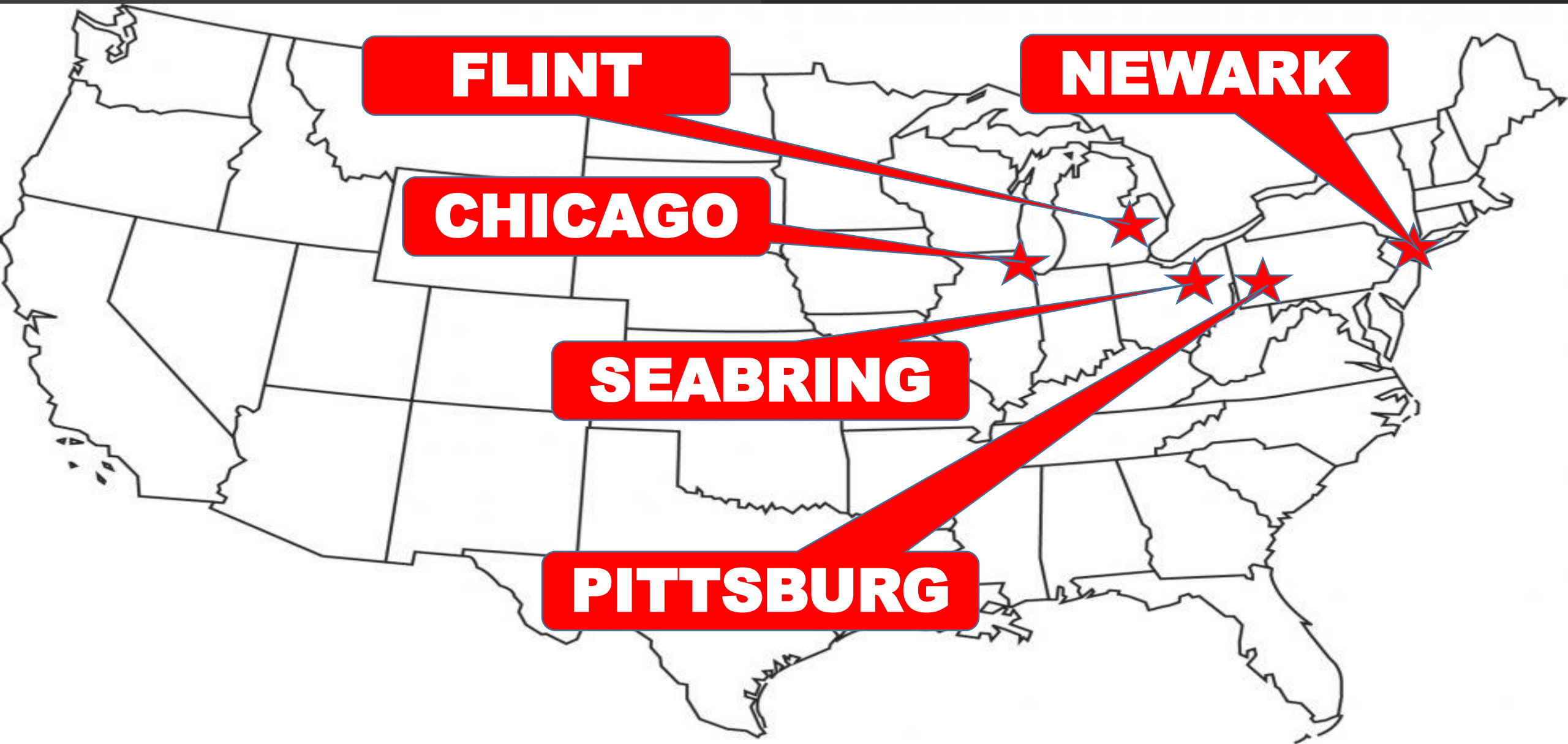
- **Rules have changed since prior additions**
- **Was not a previous concern**
- **Always removed any lead (if found)**
- **100% Replacement**

Lead – Customer Expectations

- **Issues are not going away**
- **Expectations have risen**
- **As have response protocols**

National & Ohio Lead Issues

National & Ohio Lead Issues



FLINT

NEWARK

CHICAGO

SEABRING

PITTSBURG

Flint, MI (2014)

Learning disabilities, developmental delays increase amid Flint Water Crisis

by Rachelle Spence | Thursday, August 29th 2019



The Flint Water Crisis' Latest Victim Died Earlier This Year

by Detroit Today, Alaina Fruge | Aug. 29, 2019



Image credit: CDC

Sebring, OH (2016)

CNN US Crime + Justice Energy + Environment Extreme Weather Space + Science

Sebring lead levels question Ohio EPA

By Sarah Jorgensen and Kristina Sgueglia, CNN
Updated 10:44 AM ET, Fri January 29, 2016



Pittsburg, PA (2019)

AP

Pittsburgh water

By MICHAEL RUBINKAM February 1,

State Attorney General charges PWSA on 161 counts for lead water line violations

Pittsburgh water authority has admitted to failing to notify residents about lead water line replacement and not sampling new lines fast enough.

By Janine Faust [@JAF18222](#)



lead

Newark, NJ (2019)

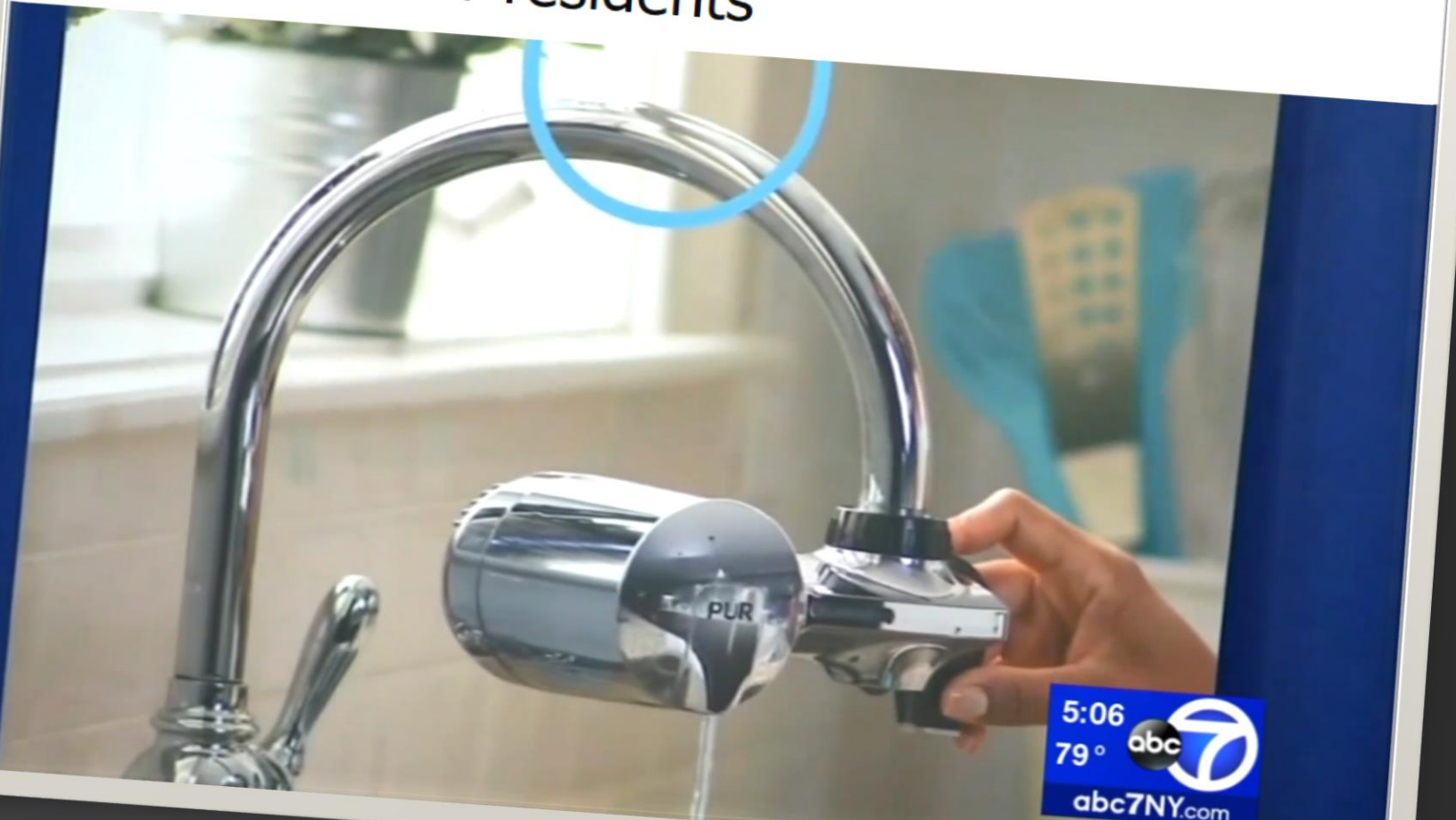


NPR.ORG

Newark's Drinking Water Prob

Officials in the New Jersey city bega

Newark lead water crisis: Group fighting for more bottled water for residents



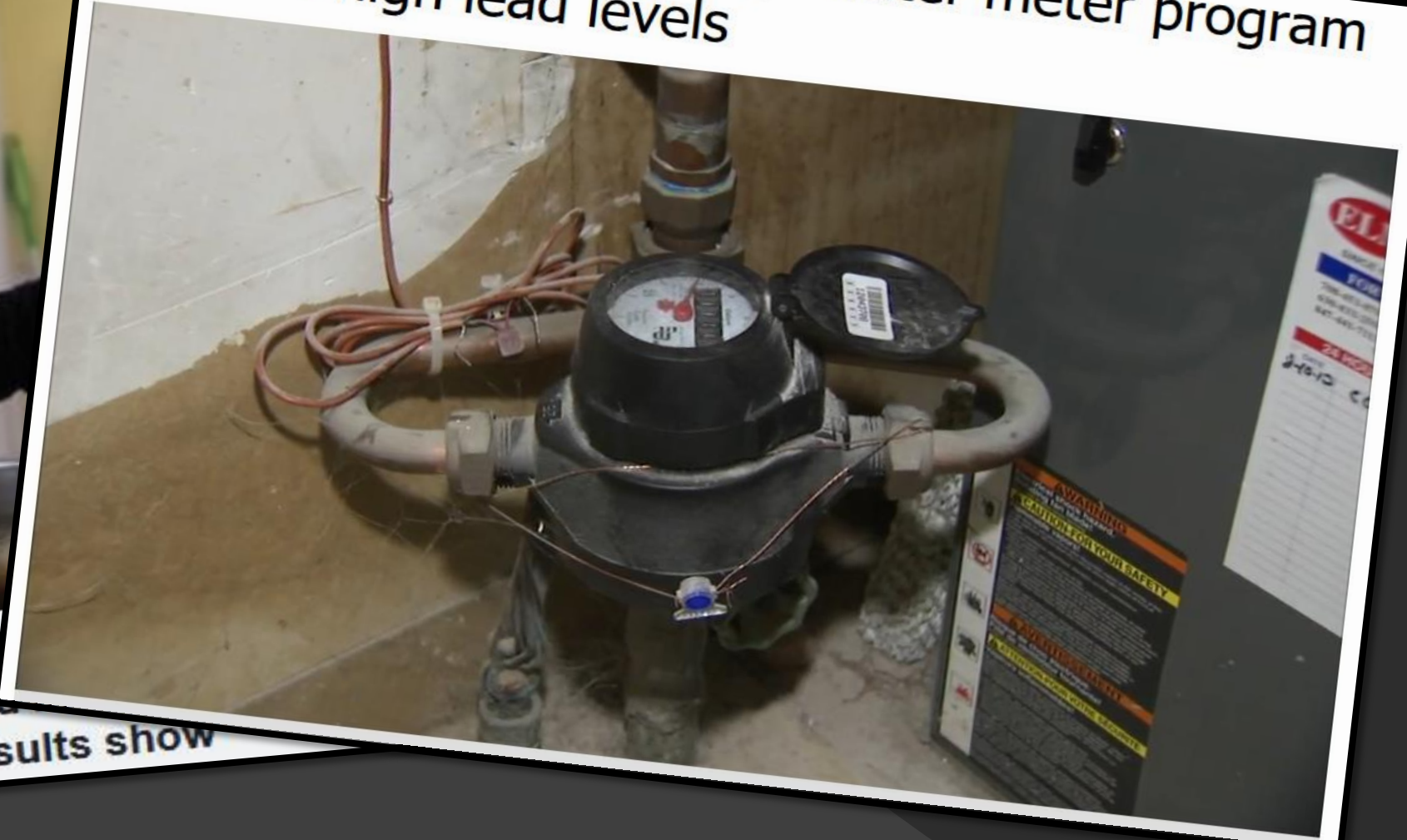
5:06
79° abc
abc7NY.com

Chicago, IL (2019)

Lightfoot suspends Chicago water meter program linked to high lead levels



CHICAGOTRIBUNE.COM
Brain-damaging lead found
tested across Chicago, results show



Ohio EPA Lead Rules Review

Del-Co Current Focus

- **Lead Revisions**
- **Disruption of Service**
- **Guidelines for Repairs & Replacements**



[Home](#) | [About](#)

Lead and Copper

The Ohio Legislature amended Ohio and copper for public water systems, reviewing standards for lead and copper results, and ensuring public water systems address some of the recent changes, additional resources.



[Home](#) | [About](#) | [Divisions and Offices](#) | [Do Business](#) | [Citizens and Educators](#)

Rules, Laws, Policies and Guidance



The Division of Drinking and Ground Waters (DDAGW) rules were promulgated under [U.S. EPA's Safe Drinking Water Act \(SDWA\)](#). Rules for Ohio public drinking water systems are adopted under Ohio Revised Code (ORC) [Section 6109](#), and rules for Underground Injection Control, under [ORC 6111.043](#). Ohio Administrative Code (OAC) rules administered by DDAGW are located on this page. More information about DDAGW's rule-making process is available under the "DDAGW Rules Process" section below.

Electronic versions of [policies and guidance](#) may be viewed by clicking on the appropriate tab. Join a rules [electronic mailing list](#) to stay informed about current

rule-making and opportunities to provide comment during the process.

Control of Lead & Copper (3745-81-80 to -90)

- 3745-81-80 (May 1, 2018) Control of Lead and Copper - General Requirements
- 3745-81-81 (May 1, 2018) Control of Lead and Copper; Applicability of Corrosion Control Treatment Steps to Small, Medium-size and Large Water Systems.
- 3745-81-82 (July 24, 2009) Control of Lead and Copper; Description of Corrosion Control Treatment Requirements

- 3745-81-84 (May 1, 2018) Control of Lead and Copper - Lead Service Line Replacement Requirements
- 3745-81-85 (May 1, 2018) Control of Lead and Copper - Public Education, Supplemental Monitoring Requirements and Consumer Notification of Results

- 3745-81-87 (May 1, 2018) Control of Lead and Copper - Monitoring Requirements for Water Quality Parameters
- 3745-81-88 (July 24, 2009) Control of Lead and Copper - Monitoring Requirements for Lead and Copper in Water Entering the Distribution System
- 3745-81-89 (May 1, 2018) Analytical Methods
- 3745-81-90 (May 1, 2018) Control of Lead and Copper - Reporting and Record-keeping Requirements

Disruption of Service (3745-83-02)

▼ Chapter 3745-83: Operational Requirements

- 3745-83-01 (Mar. 1, 2018) Operational Requirements
- 3745-83-02 (Nov. 1, 2018) Water distribution system disruption of service.

Disruption of Service (3745-83-02)

- (6) In affected areas that are known or likely to contain lead service lines, that experience a disruption of service event, public water systems shall provide public notification as follows:
- (a) In areas where repairs are conducted in Type 2, 3 and 4 events, the public water system shall provide a notice acceptable to the director.
 - (b) In areas where replacement is conducted, the public water system shall comply with provisions contained in rule 3745-81-84 of the Administrative Code.

Policies & Guidance

Announcements and Resources

DDAGW Rules Process

Early Stakeholder Outreach

Management Best Practices

Regulatory Best Practices

Effective Public

Regulation and Guidance

- [PWS-06-001: Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines](#)

Engineering

▶ Ground Water

▶ Laboratory Certification

▶ Operations

▼ Public Water Systems

- [PWS-01-003: Clarification of Public Water Systems Definition and Exemption Criteria](#)
- [PWS-02-003: Alternative to the Installation of an Approved Backflow Preventer on Service Connections Where There is an Auxiliary Water System](#)
- [PWS-04-001: Guidelines for Lead Mapping in Distribution Systems](#)
- [PWS-05-001: Guidelines for Mapping Lead Plumbing and Fixtures for Individual Buildings](#)
- [PWS-06-001: Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines](#)



Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines

PWS-06-001

Division of Drinking and Ground Waters
Issued: November 1, 2018

1.3 Definitions

Below are definitions of terms used throughout this guidance document.

Table 1: Definitions

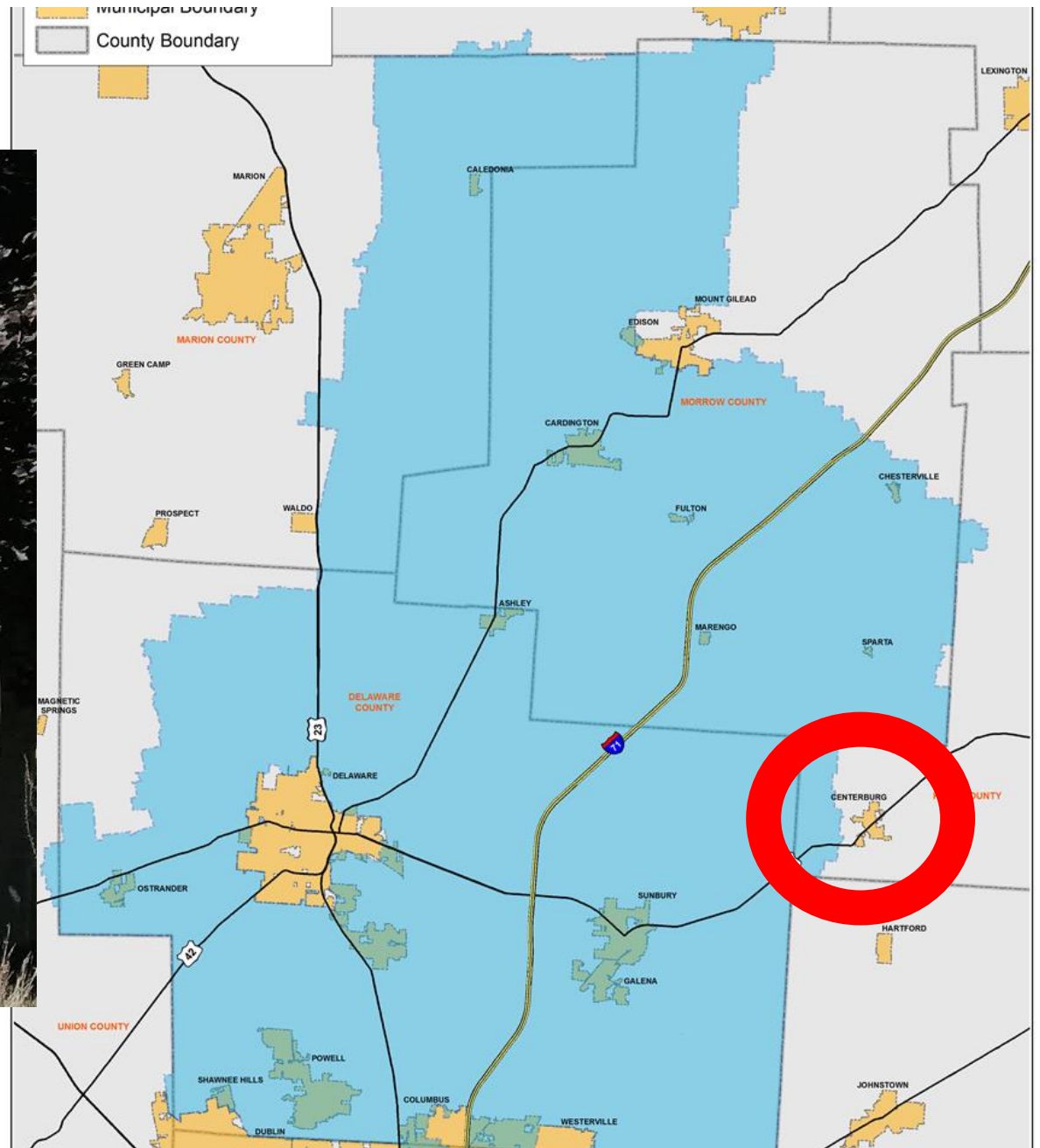
OAC Rule 3745-83-02

Affected Area (Main Repair)	<i>The portion of the distribution system where the pressure of the system has dropped below 20 pounds per square inch gauge (psig) at ground level.</i>
Main Repair	<i>Any incident that requires the installation of pipe which does not exceed one section of pipe or 20 feet when using fusible pipe material.</i>
Main Replacement	<i>Any incident that requires installation of pipe which exceeds one section of pipe or 20 feet when using fusible pipe material. An emergency main replacement is a disruption of service that requires the replacement of more than one section of pipe.</i>

OAC Rule 3745-81-84

Full LSL Replacement	<i>Replacing both the PWS-owned portion of the LSL and the consumer-owned portion of the service line or replacing the entirety of the portion of the service line made of lead where no lead pipe remains in any portion of the service line.</i>
Impacted Area (Main Replacement)	<i>Any service lines that are moved, replaced, or reconnected to the main during the main replacement.</i>
Impacted Area (LSL replacement)	<i>Buildings, residences, or lines served by the service line being replaced (either partially or fully)</i>
Partial LSL Replacement	<i>Replacing only the portion of an LSL necessary to make the repair and/or reconnection to a service line or the replacement of just the portion of an LSL owned by the water system, where lead pipe remains in any portion of the service line between the water main and the structure.</i>
Main Replacement	<i>Any incident that requires installation of pipe which exceeds one section of pipe or 20 feet when using fusible pipe material. An emergency main replacement is a disruption of service that requires the replacement of more than one section of pipe.</i>

Centerburg Acquisition & Lead Concerns



Centerburg Merger

- **Serious discussions began about 10 years ago**
- **Have been ongoing since**
- **There was mutual agreement around 2015 that an acquisition was best**

Centerburg Lead Research

- **Discussions with Superintendent**
- **Review previous LCR analysis**
- **Review Lead Map**

Google Custom Search

OH2903612	CEDARVILLE UNIVERSITY
OH5400011	CELINA CITY
OH4200012	CENTERBURG VILLAGE PWS
OH2831012	CENTERVILLE MILL PK/AURORA CO-OP DAYCARE
OH8533412	CENTRAL CHRISTIAN HIGH SCHOOL

[Public Water System Fact Sheet](#)
[Public Water System Chemical Analyses on Public Drinking Water](#)

Below is an alphabetical list of all public water systems (PWS) that are required to comply with this new requirement. Maps received by Ohio EPA can be accessed by clicking the link on the public water system name in the chart below. If you have questions about the service lines in your home or business's area, please call the contact listed below for your public water system.

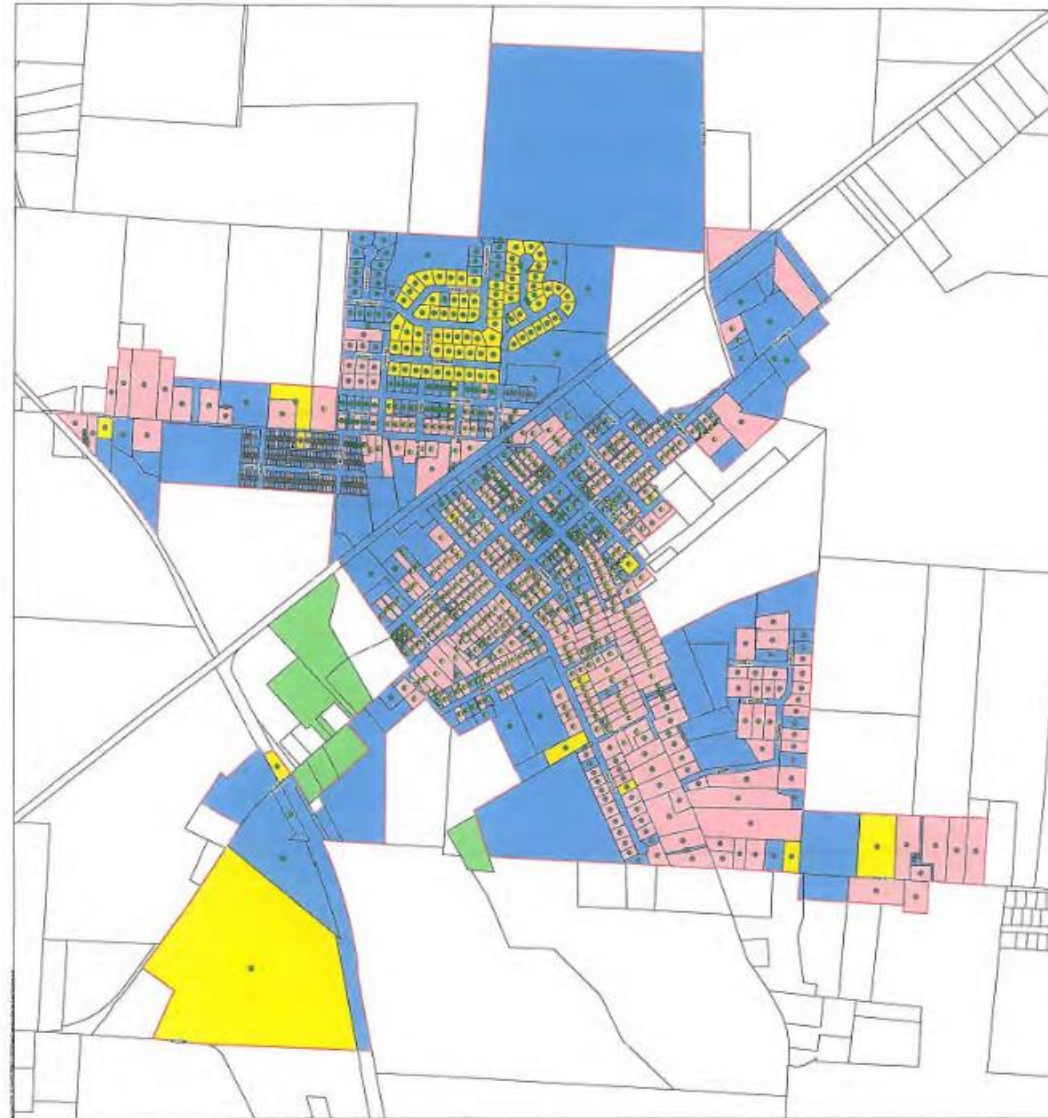
Lead Lines Map

Under a new Ohio law enacted in June 2014, public water suppliers are required to map areas that are known to contain lead service lines or likely to contain lead service lines. This map shows the distribution system that may contain lead solder, lead pipe, lead service lines, or lead service lines.

More Information

- [Lead in Drinking Water fact sheet](#)
- [Learn About Lead webpage](#)
- [Questions and Answers About Lead](#)
- [Laboratories Certified to Perform O](#)

Below is an alphabetical list of all public water suppliers. Clicking the link on the public water supplier's contact listed below for your public water supplier.



Lead	Yellow	Lead Service Lines
Blue	Blue	Lead Pipe
Pink	Pink	Lead Solder
Green	Green	Lead Service Lines



Village of Centerburg, Ohio PWS#	
Lead Mapping	
Scale: 1" = 200'	APR 2015
0800.01 000 000 000 000 000	17 000 1 000









Search

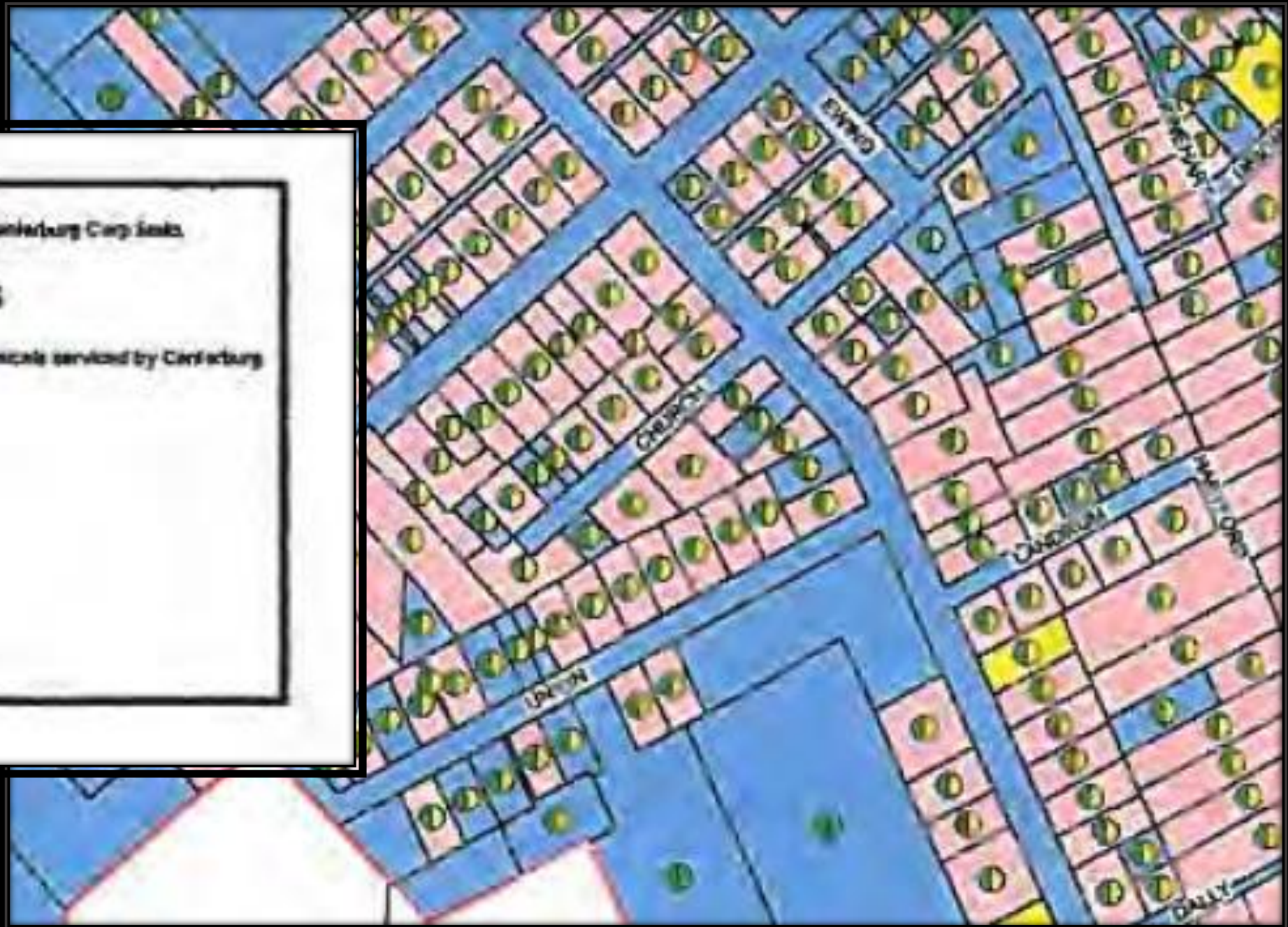


Contact

... areas that are known to contain lead service lines or likely to contain lead service lines. This map shows the distribution system that may contain lead solder, lead pipe, lead service lines, or lead service lines.

... by Ohio EPA can be accessed by clicking the link on the public water supplier's contact listed below for your public water supplier.

Lead	 Carleburg Corp. lots	
 Unknown	Parcels	
 Lead Service		 Parcels serviced by Carleburg
 No Lead		
Year Built		
 Unknown		
 1950-1960		
 1970-2010		



Key Provisions Reviewed

- **Partial Replacements**
- **Customer Notifications**
- **Lead Testing**
- **Providing Filters**

Meter Repair Project

Meter Repair Project

- **Replace all meters (650 services)**
- **Placement outside of the home**
- **Concerned with LSLs – which regs apply**
- **Contacted OEPA for guidance**



Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines

Announcements and Resources DDAGW Rules Process

Interested Party Review Proposed Rules Effective Rules

Policies and Guidance

Currently effective policy and guidance documents related to are listed below by general topic.

Engineering

PWS-06-001: Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines

- [PWS-01-003](#): Clarification of Public Water Systems Design
- [PWS-02-003](#): Alternative to the Installation of an Approved Service Connections Where There is an Auxiliary Water
- [PWS-04-001](#): Guidelines for Lead Mapping in Distribution
- [PWS-05-001](#): Guidelines for Mapping Lead Plumbing in Buildings
- [PWS-06-001](#): Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines



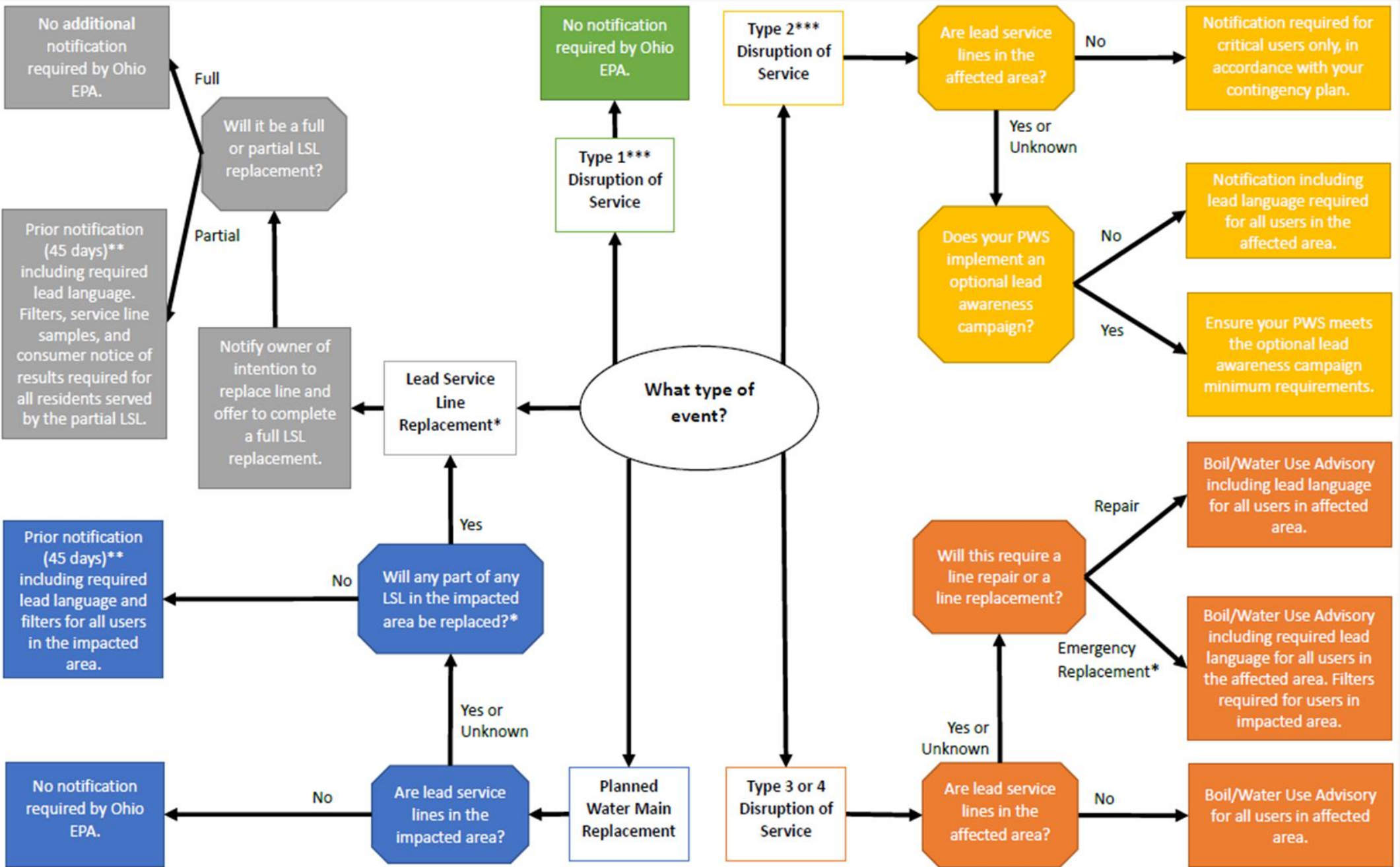
WAIT...

I'M SO CONFUSED...



Guidance Reporting in A Lines

PWS
Division
Issued



A circular meme featuring a man in a military helmet looking confused. The text "WAIT..." is overlaid at the top, and "I'M SO CONFUSED..." is overlaid at the bottom. The image has a distressed, torn-edge border.

WAIT...

I'M SO CONFUSED...

**Private Property
Owner's Responsibility**

**Municipality's
Responsibility**

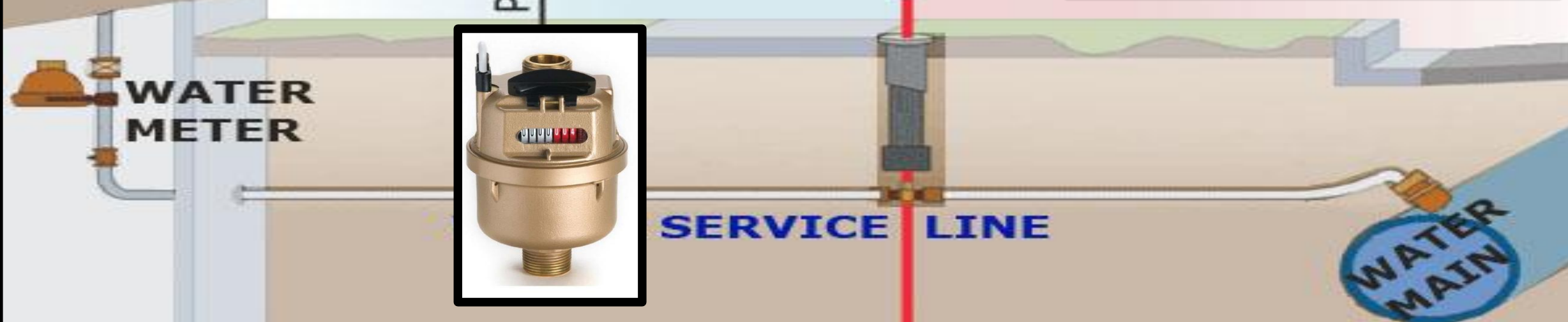
PROPERTY LINE

CURB STOP

SERVICE LINE

WATER
MAIN

WATER
METER







**Regulatory
vs.
Public Health**

Lead Service Line Response Procedures Village of Centerburg

Contractor

If the contractor installing meter pits inside the Village of Centerburg encounters a service line that is suspected to be lead, they are to do the following:

1. Use lead testing swabs to verify if the exposed service line is lead.
2. If the service line is positive for lead, contact Del-Co Water immediately. The first contact is the Project Manager, Natalie Linkous at 614-679-0056; the second contact is Rusty Griffith at 740-272-2220.
3. Move forward with the installation of the proposed meter pit.
4. Notate that the service line is lead on the New Meter Installation Form.

Project Manager

If a service line has been confirmed as lead, perform the following:

1. Contact Del-Co Water management immediately. The first contact is the Compliance Manager, Jeff Kauffman at 614-565-8733 (mobile) or 740-548-7746 Ext. 2258; the second contact is Spencer Sheldon at 740-627-1306 (mobile) or 740-548-7746 Ext. 3301
2. Confirm that the contractor has notated the lead service line (LSL) on the New Meter Installation Form.

Compliance Manager

If the Compliance Manager is notified of a lead service line, and a partial lead service line replacement was completed, perform the following:

1. Coordinate with GIS Department to indicate locations of existing LSLs and monitor for lead if there is a larger area where lead is an issue.
2. If any areas are determined to contain clusters of LSLs, provide recommendations for lead management if areas should be skipped for outside meter installation.
3. Determine necessary response protocols and notifications in accordance with Ohio Administrative Code 3745-83-02, Ohio Administrative Code 3745-81-84, and Ohio EPA Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines.

References

Ohio Administrative Code 3745-83-02. *Water Distribution System Disruption of Service*. https://www.epa.state.oh.us/Portals/28/documents/rules/final/3745-83-02_effective_18.pdf?ver=2018-11-27-115359-193

Ohio Administrative Code 3745-81-84. *Control of Lead and Copper – Lead Service Line Replacement Requirements*. https://www.epa.state.oh.us/Portals/28/documents/rules/final/3745-81-84_Rule_AM_5-1-18.pdf

Ohio EPA. *Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines*. <https://epa.ohio.gov/Portals/28/documents/pws/PWS-06-001.pdf>

References

Ohio Administrative Code 3745-83-02. *Water Distribution System Disruption of Service*. https://www.epa.state.oh.us/Portals/28/documents/rules/final/3745-83-02_effective_11-1-18.pdf?ver=2018-11-27-115359-193

Ohio Administrative Code 3745-81-84. *Control of Lead and Copper – Lead Service Line Replacement Requirements*. https://www.epa.state.oh.us/Portals/28/documents/rules/final/3745-81-84_Rule_AM_5-1-18.pdf

Ohio EPA. *Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines*. <https://epa.ohio.gov/Portals/28/documents/pws/PWS-06-001.pdf>

**SORRY WE
MISSED
YOU**

DELCO
WATER COMPANY

6658 OLENTANGY RIVER ROAD
DELAWARE, OHIO 43015
(740) 548-7746 • (800) 521-6779

OVER FOR DETAILS

Your water service was disrupted today to allow for the installation of a new water meter. We apologize for any inconvenience. During the meter installation, we discovered that you have a lead service line.

This disruption may cause short-term changes in water quality including discolored or cloudy water and/or potentially a temporary increase in lead levels in the drinking water.

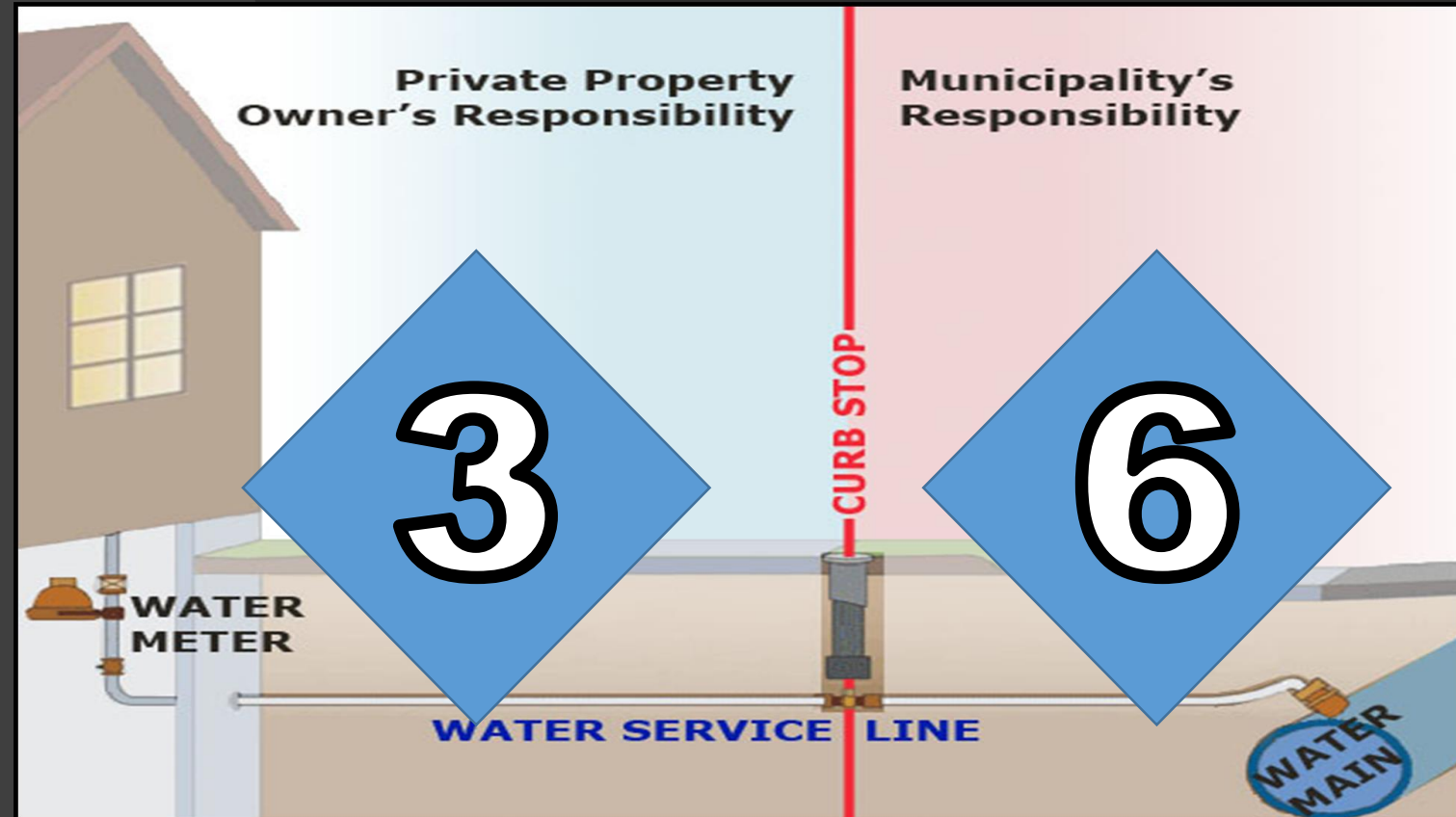
As a standard practice the USEPA recommends the following actions to reduce possible lead exposure in drinking water:

- **If water has not been used for several hours, run the tap until there is a noticeable temperature drop. Then, run water for 30 seconds to 3 minutes before using it for drinking and cooking.** This helps flush water that may have contained lead that may have leached from plumbing.
- **Use cold water for cooking, drinking, and preparing baby formula.** Boiling the water will not reduce lead.
- **Clean your faucet aerator regularly.**

As a precaution, Del-Co Water is offering water filters which are certified to remove lead. We are also offering to test your water for lead. To request a filter and/or testing of your water, or if you have any other questions, please contact Jeff Kauffman or Natalie Linkous at (800) 521-6779. For additional information visit drinktap.org or epa.gov/safewater/lead.

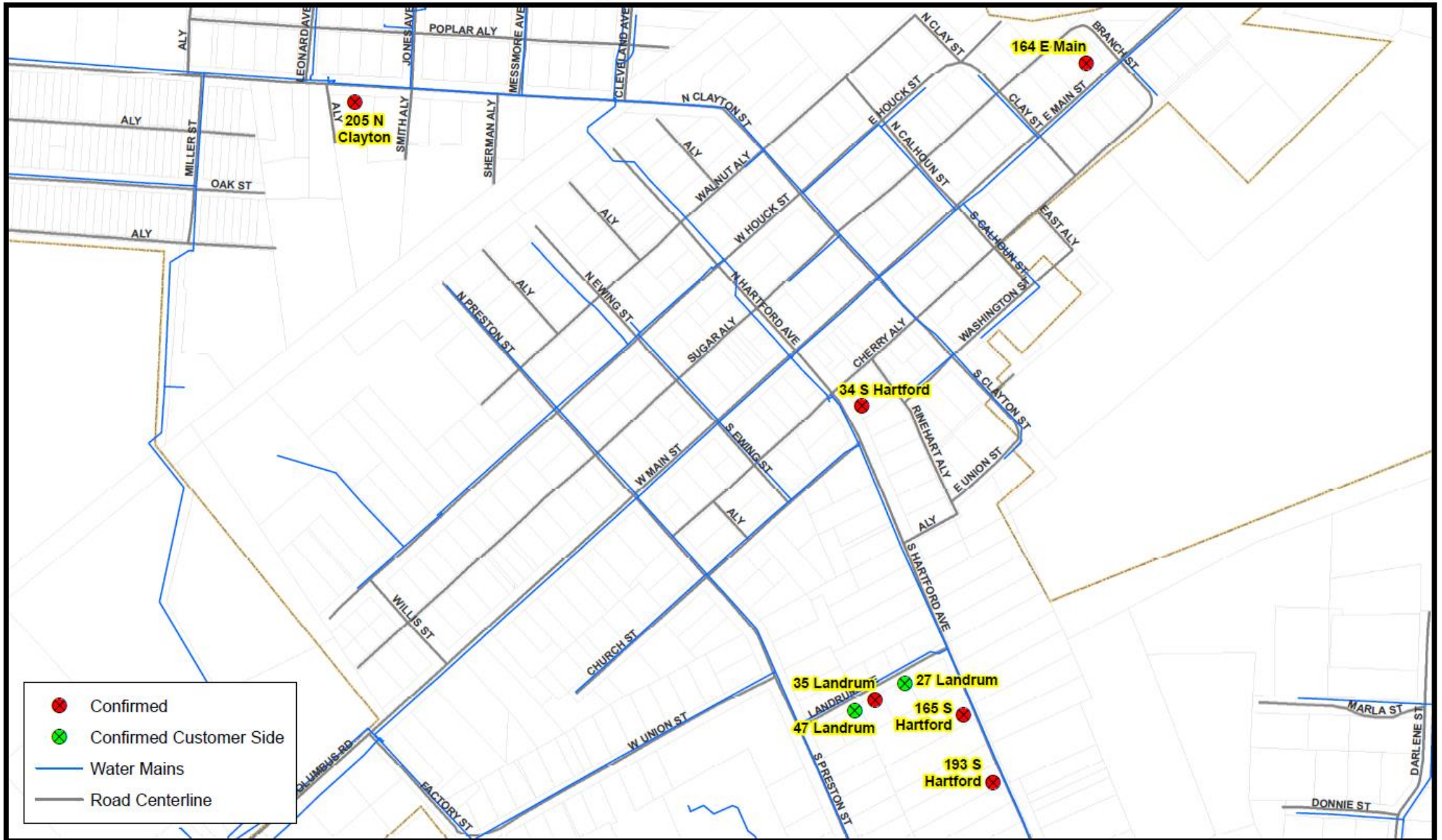
Project Updates

- **85 % complete**
- **9 Lead Services**



Centerburg Confirmed Lead Service Lines

1 inch = 267 feet



Confirmed Lead Service Lines in Centerburg – Utility owned

Updated: 9/11/2019

1)	205 Clayton Street	Brenda Sue Clark	740-485-9785		
2)	34 S. Hartford Avenue	Alice Ross	740-504-6153	740-398-9848 (Bethany)	Home 740-480-8018
3)	165 S. Hartford Avenue	Robert Rogers	740-263-1063		
4)	193 S. Hartford Avenue	Sarah Johnson	740-625-5174		
5)	35 Landrum Avenue	Gladys Green	740-625-6812		
6)	164 E. Main Street	Angie Webb (Webb's Gas Station)	740-625-6598		

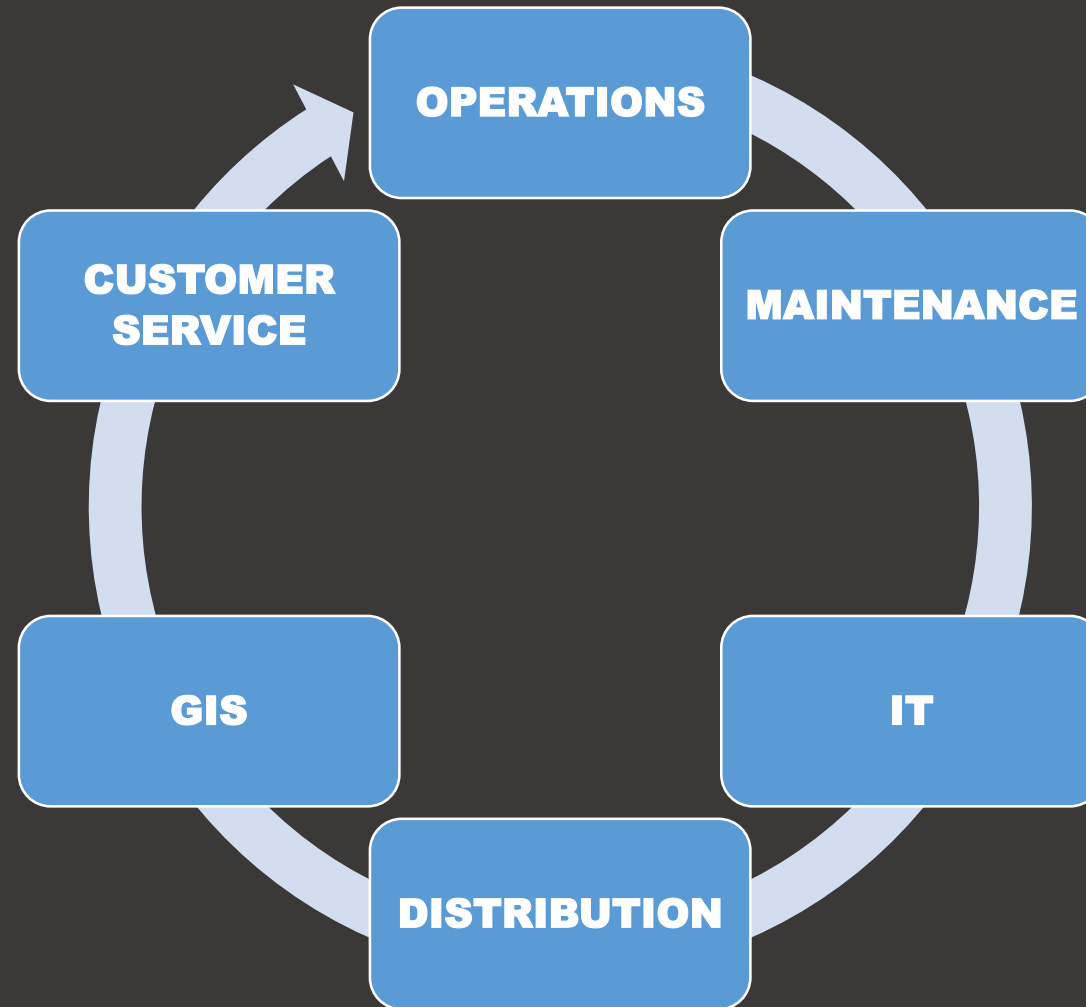
Confirmed Lead Service Lines in Centerburg – Customer owned

1)	27 Landrum Avenue	John & Tara <u>Schoonyan</u>	419-566-4463	740-501-7271
2)	47 Landrum Avenue	Jennifer Kincaid	740-625-7547	
3)	201 W. Main Street	Curtis Jones	740-272-2512	

Next steps

- **Determine replacement options**
- **Establish notification/response protocols**
- **Evaluate LCR sampling requirements**
- **A possible Awareness Campaign**

Acknowledgements



? Questions ?

Jeffrey Kauffman
September 13th, 2019
jkauffman@delcowater.com

