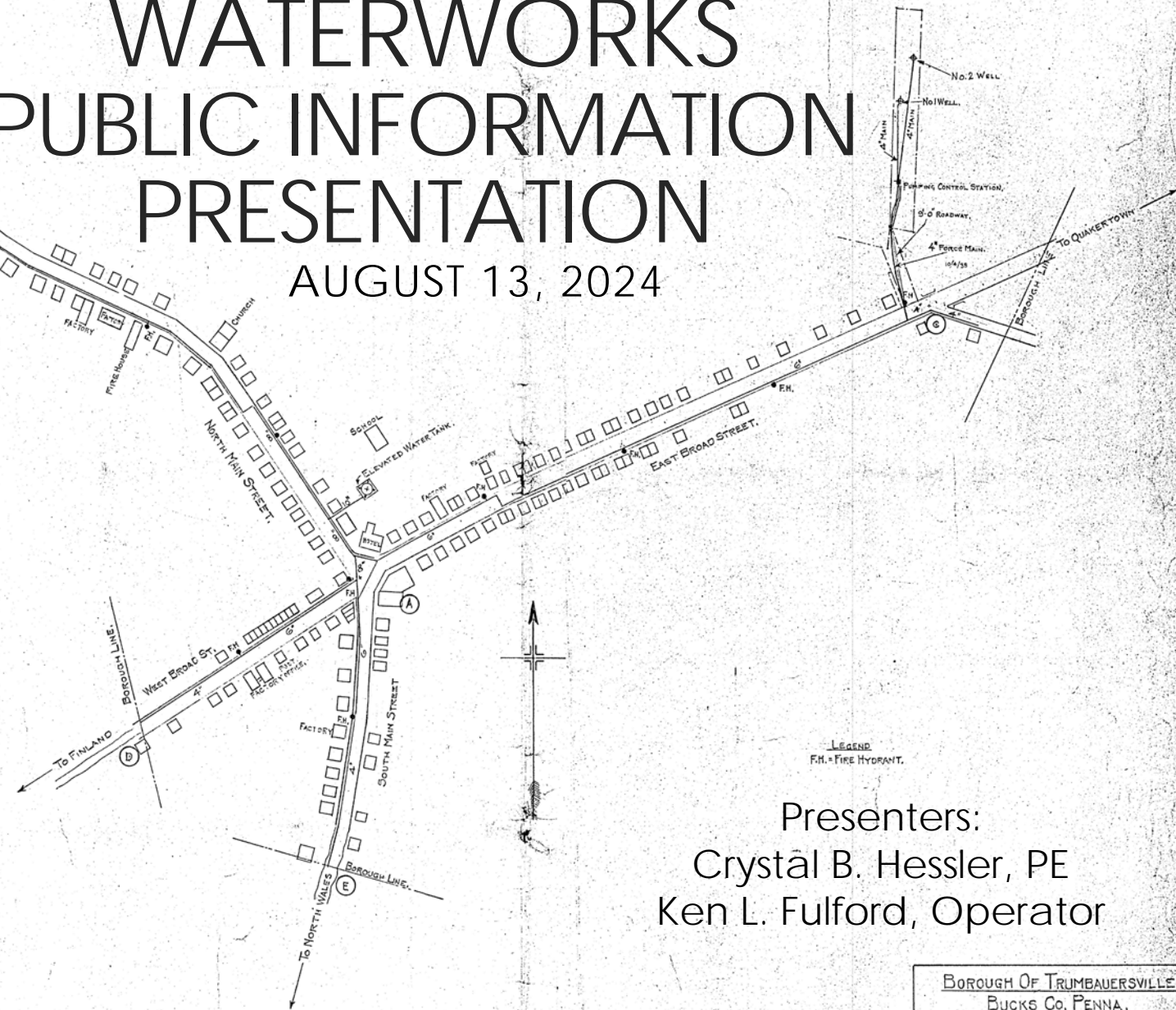


TRUMBAUERSVILLE WATERWORKS PUBLIC INFORMATION PRESENTATION

AUGUST 13, 2024



TRUMBAUERSVILLE
BOROUGH



Cowan Associates, Inc.
120 Penn Am Drive
Quakertown, PA 18951

K.L. FULFORD ASSOCIATES, INC.
412 Fairview Street
Emmaus, PA 18049

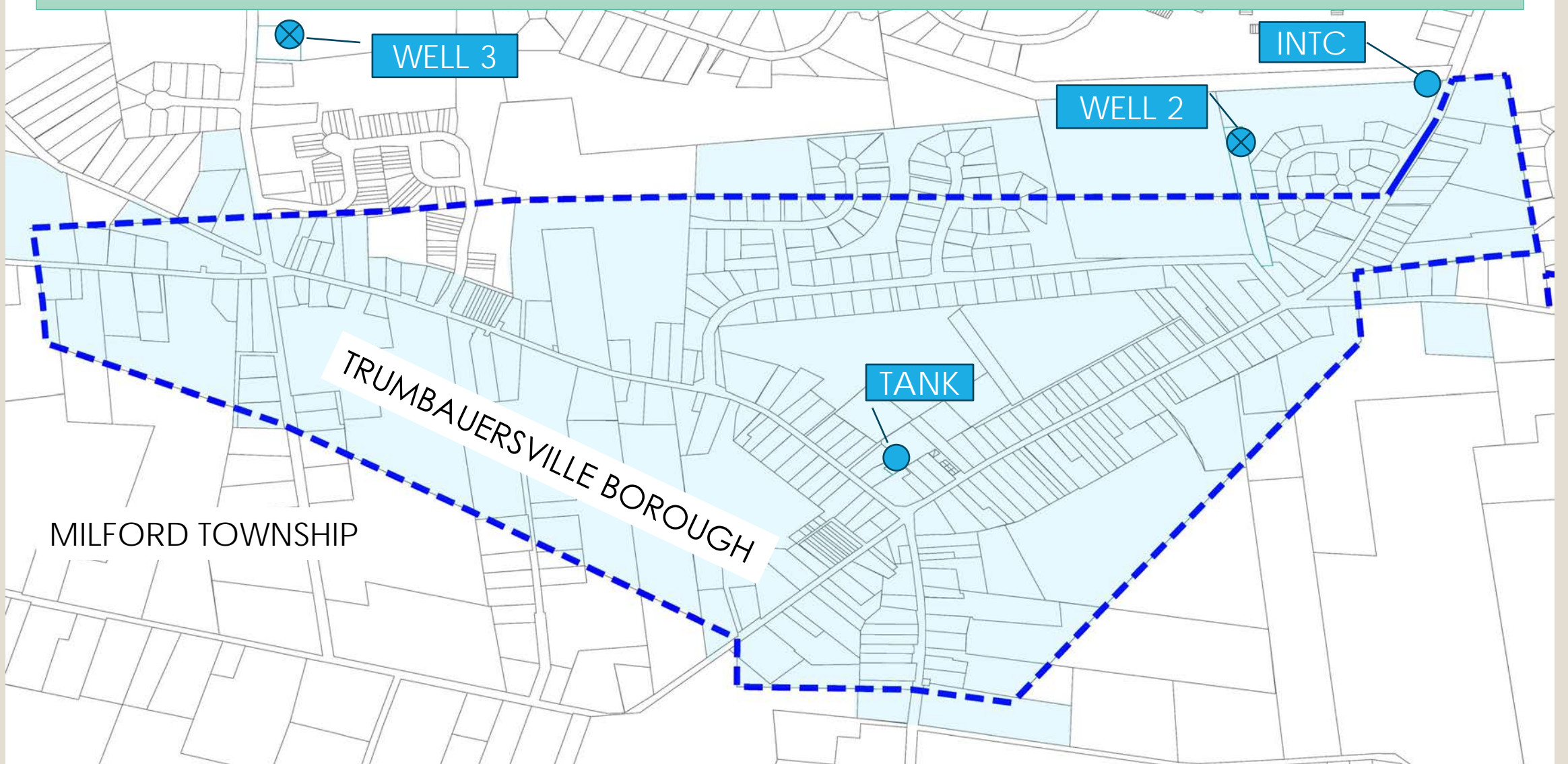


LEGEND
F.H. = FIRE HYDRANT.

Presenters:
Crystal B. Hessler, PE
Ken L. Fulford, Operator

BOROUGH OF TRUMBAUERSVILLE
BUCKS CO. PENNA.
P.W.A. DOCKET No. PA.2032-F
WATER SUPPLY & FIRE ALARM

TRUMBAUERSVILLE MUNICIPAL WATERWORKS



TRUMBAUERSVILLE ROAD INTERCONNECTION

WHAT?

- Connection to Milford Township Water Authority
- Pressure reduction to prevent damage to Trumbauersville water system

WHY?

- Provide emergency water source
- Maximum use - 14 days per year

WHEN?

- Construction Fall 2024



WELL #3 UPGRADES

WHAT?

- Replace arsenic treatment system
- Replace well pump and controls
- Upgrade outdated electrical system
- Connect to sanitary sewer

WHY?

- Safe drinking water quality compliance
- Arsenic treatment for 100% Well 3 water
- Provide reliable system operations

WHEN?

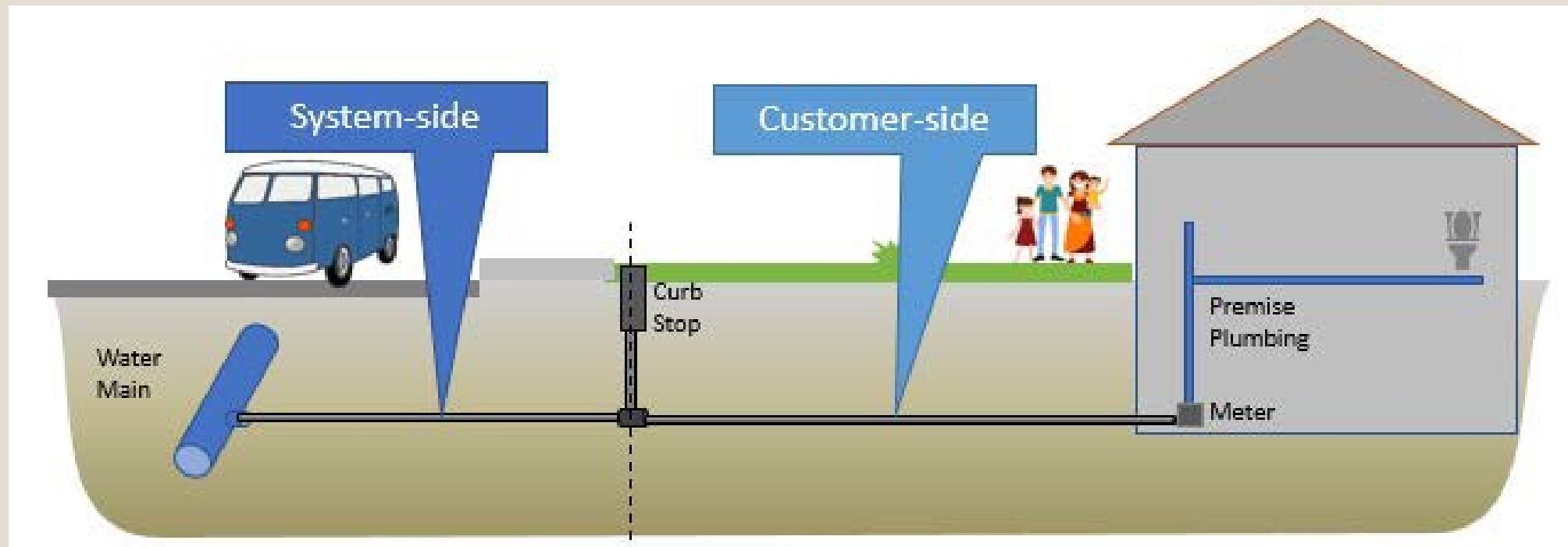
- Construction Completion 2025

ECOWATER
SYSTEMS®



SERVICE LINE INVENTORY

- Required by PaDEP Lead and Copper Rule
- Document construction material of all existing service lines
- Service line from water main to house
- Due to PaDEP October 16, 2024



WELL #2 ONGOING EVALUATION

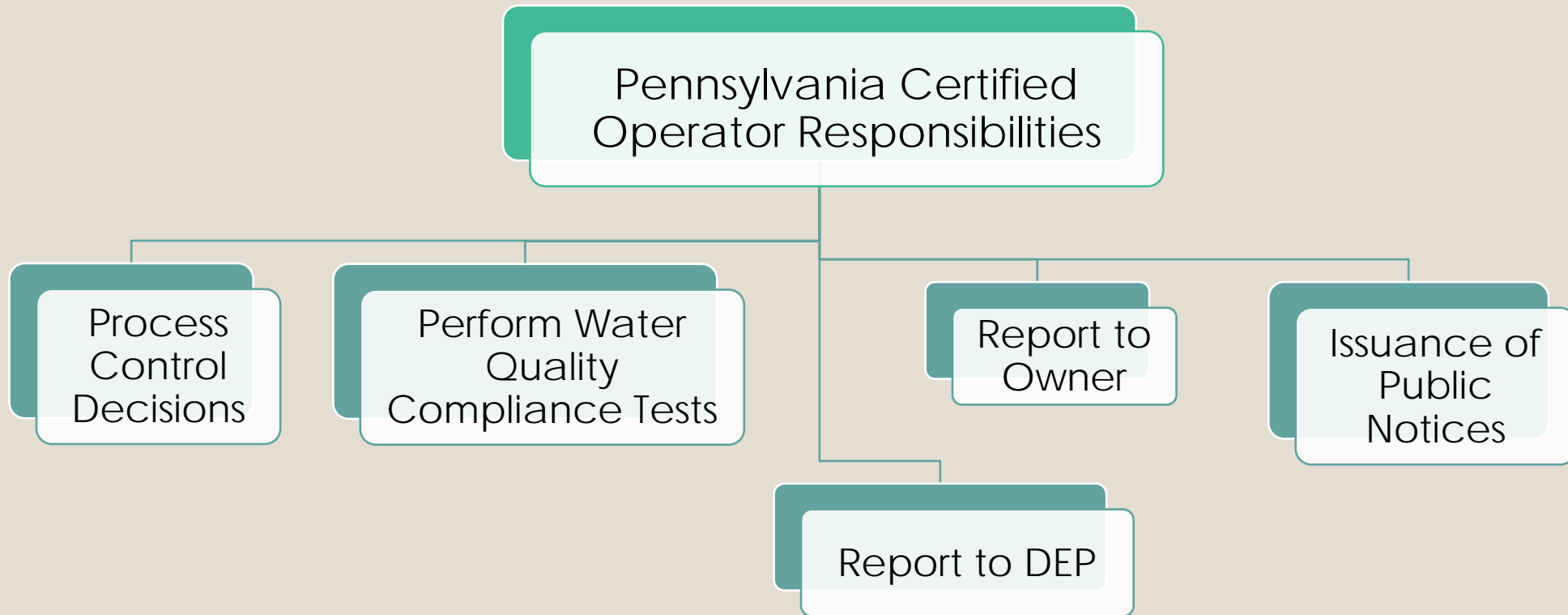
Well Pump Replacement

Improved Arsenic Removal
Capacity

Treatment for volatile organic
chemicals, including TCE

Changes and upgrades require
PaDEP approval

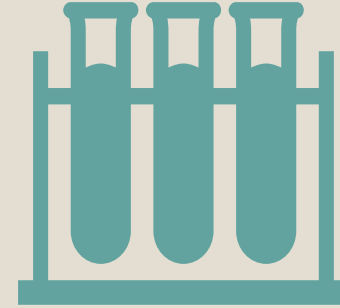
WATER SYSTEM OPERATION



WATER QUALITY MONITORING



EPA and PaDEP establish
Maximum Contaminant Levels



Routine monitoring for Regulated
Contaminants – Public Water Systems

Operator
Collects
Sample



Independent
Laboratory
Performs Tests



Independent
Laboratory
Reports to PaDEP

**TRUMBAUERSVILLE MUN WATERWORKS
1090091**

Monitoring Requirement

Contaminant	Contaminant Code	Contaminant Group	Current/Next Sampling Period	Sample Location	No. of Samples	Monitoring Reporting Frequency
TOTAL CHLORINE	1000	DDBP	EACH MONTH	DISTRIBUTION	1	MONTHLY, IF USED
FREE CHLORINE	1013	DDBP	EACH MONTH	DISTRIBUTION	1	MONTHLY, IF USED
LEAD/COPPER GROUP CONTAMINANT	5000	LCR	06/01/2025 THROUGH 09/30/2025	DISTRIBUTION	10	THREE YEARS
TOTAL COLIFORM PRESENCE	3100	TCR	EACH MONTH	DISTRIBUTION	1	MONTHLY
HALOACETIC ACIDS (HAA5)	2456	DDBP	SEPTEMBER15 IN THE 3RD QUARTER	DISTRIBUTION 702	1	ANNUAL
TRIHALOMETHANES (TTHM)	2950	DDBP	SEPTEMBER15 IN THE 3RD QUARTER	DISTRIBUTION 702	1	ANNUAL
FREE CHLORINE	1013	DDBP	REPORTED MONTHLY	ENTRY POINT 101	.	DAILY GRAB SAMPLE
ARSENIC (IOC)	1005	IOC	EACH CALENDAR QUARTER	ENTRY POINT 101	1	QUARTERLY
BARIUM (IOC)	1010	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
CADMIUM (IOC)	1015	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
CHROMIUM (IOC)	1020	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS

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**TRUMBAUERSVILLE MUN WATERWORKS
1090091**

Monitoring Requirement

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CYANIDE (FREE) (IOC)	1024	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
FLUORIDE (IOC)	1025	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
MERCURY (IOC)	1035	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
NICKEL (IOC)	1036	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
SELENIUM (IOC)	1045	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
ANTIMONY (IOC)	1074	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
BERYLLIUM (IOC)	1075	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS
THALLIUM (IOC)	1085	IOC	01/01/2029 THROUGH 12/31/2031;EXPIRES 2028	ENTRY POINT 101	1	NINE YEARS

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Contaminant	Contaminant Code	Contaminant Group	Current/Next Sampling Period	Sample Location	No. of Samples	Monitoring Reporting Frequency
NITRATE	1040	NTRT	DURING QUARTER WITH HIGHEST HISTORICAL RESULT	ENTRY POINT 101	1	ANNUAL
NITRITE	1041	NTRT	DURING QUARTER WITH HIGHEST HISTORICAL RESULT	ENTRY POINT 101	1	ANNUAL
PERFLUOROOCETANESULFONIC ACID	2805	PFAS	EACH CALENDAR QUARTER	ENTRY POINT 101	1	QUARTERLY, INITIAL
PERFLUOROOCETANOIC ACID	2806	PFAS	EACH CALENDAR QUARTER	ENTRY POINT 101	1	QUARTERLY, INITIAL
GROSS ALPHA PARTICLE ACTIVITY	4002	RAD	01/01/2027 THROUGH 12/31/2027	ENTRY POINT 101	1	NINE YEARS
COMBINED URANIUM	4006	RAD	01/01/2024 THROUGH 12/31/2024	ENTRY POINT 101	1	SIX YEARS
RADIUM-226	4020	RAD	01/01/2027 THROUGH 12/31/2027	ENTRY POINT 101	1	SIX YEARS
RADIUM-228	4030	RAD	01/01/2027 THROUGH 12/31/2027	ENTRY POINT 101	1	SIX YEARS
ENDRIN (SOC)	2005	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
LINDANE (SOC)	2010	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS

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Monitoring Requirement

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METHOXYCHLOR (SOC)	2015	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
TOXAPHENE (SOC)	2020	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
DALAPON (SOC)	2031	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
DIQUAT (SOC)	2032	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
ENDOTHALL (SOC)	2033	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
GLYPHOSATE (SOC)	2034	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
DI(2-ETHYLHEXYL)ADIPATE (SOC)	2035	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
OXAMYL (VYDATE) (SOC)	2036	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS

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Monitoring Requirement

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SIMAZINE (SOC)	2037	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
DI(2-ETHYLHEXYL)PHTHALATE (SOC)	2039	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
PICLORAM (SOC)	2040	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
DINOSEB (SOC)	2041	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
HEXACHLOROCYCLOPENTADIENE(SOC)	2042	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
CARBOFURAN (SOC)	2046	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
ATRAZINE (SOC)	2050	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
ALACHLOR (SOC)	2051	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS

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Monitoring Requirement

Contaminant	Contaminant Code	Contaminant Group	Current/Next Sampling Period	Sample Location	No. of Samples	Monitoring Reporting Frequency
2,3,7,8-TCDD (DIOXIN) (SOC)	2063	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
HEPTACHLOR (SOC)	2065	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
HEPTACHLOR EPOXIDE (SOC)	2067	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
2,4-D (SOC)	2105	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
2,4,5-TP SILVEX (SOC)	2110	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
HEXACHLOROBENZENE (SOC)	2274	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
BENZO(A)PYRENE (SOC)	2306	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
PENTACHLOROPHENOL (SOC)	2326	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS

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PCBS (SOC)	2383	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
1,2-DIBROMO-3-CHLOROPROP(SOC)	2931	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
ETHYLENE DIBROMIDE (EDB) (SOC)	2946	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
CHLORDANE (SOC)	2959	SOC	REQUIRED DURING SECOND QUARTER OF 2026	ENTRY POINT 101	1	THREE YEARS
VINYL CHLORIDE (VOC)	2976	VOC		ENTRY POINT 101	1	REQUIRED IF 2-CARBON COMPOUND DETECTED
20 REGULATED VOCS	VOC1	VOC	EACH CALENDAR QUARTER	ENTRY POINT 101	1	QUARTERLY

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WATER QUALITY NOTICES

- Detected Contaminants are published in the annual Consumer Confidence Report



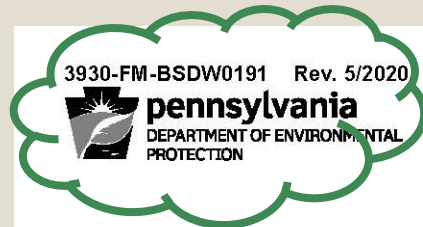
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

2023 ANNUAL DRINKING WATER QUALITY REPORT

Trumbauersville Municipal Waterworks

PWSID #: 1090091

- When Exceedances occur, Customers are notified
- Tier 2 Notices – No Immediate Health Risk



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

Tier 2 Public Notice

CHEMICAL OR RADIOLOGICAL MAXIMUM CONTAMINANT LEVEL (MCL) EXCEEDANCE

Violation of the MCL for a chemical or radiological contaminant requires a Tier 2 notice. Tier 2 notices should answer the most common questions people will have about the violation.

- Notification are reviewed and approved by PaDEP

WATER QUALITY

- Sources of Detected Contaminants vary and can be difficult to confirm
 - Naturally Occurring Deposits
 - Poor Disposal Practices of the Past
 - Unknown, Unreported Sources
- Regardless of Source - Treatment is the Solution

Borough Officials, System Operator, Water Engineers and PaDEP are working together to ensure your water is not contaminated, poisoned or unsafe.