

# Operator Training Committee of Ohio Distribution Workshop Disruption of Service Rule/Operator Certification Update

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# Development of the Rule

- Why?
  - Emergencies
  - Consistency
- Who?
  - Ohio EPA
  - AWWA Technology Committee
- What?
  - Provisions to deal with disruptions in service



# Disruption of Service Rule

- Depressurization is still defined in 3745-83-01
- Several exemptions are provided
- This rule addresses what to do in the case of those alternatives
- In the even of an issue, transients and non transient non community systems
  - Provide bottled water
  - Other Director approved actions.

# Disruption of Service Rule

- Community and non transient non community systems greater than 1000 people must follow provisions in rule.
- Definitions
  - “affected area”
  - “Contamination intrusion”
  - “positive pressure”
  - “Type 1-4”

# Disruption of Service Rule

- Disruption of service - Inability to maintain a minimum pressure of 20 PSI
  - Transient (TNC) and Non transient non community (NTNC) serving <1000 shall provide bottled water or the equivalent
  - All Communities and NTNC with a population 1000 or more shall follow the rule
- Must monitor pressure upstream and downstream of the water line repair

# Disruption of Service Rule

- Pressure monitored by in-line pressure monitors, hydrant pressure recorders, elevated storage tanks, towers or other Director approved methods

# Disruption of Service Rule

- **TYPE 1** – controlled pipe repair, positive pressure maintained and no sign of contamination intrusion.
- No boil advisory, sampling for total coliform or notification to Ohio EPA are required provide following are met:
  - Excavate below the repair
  - Maintain pit water level below the repair

# Disruption of Service Rule

- **TYPE 1 (Continued)**

- Disinfect in accordance with AWWA C651
- Repair under positive pressure
- After repair verify disinfectant presence
- Document steps taken
- If all steps not followed the event is elevated to Type 2

# Disruption of Service Rule

- **Type 2 – controlled pipe repair, positive pressure maintained until a controlled shutdown of the affected area can be completed and no signs of contamination**
- a boil advisory, sampling for total coliform and notification to the Ohio EPA not required if the following are met:
  - Water line replacement does not exceed on full section of pipe
  - Excavate to below the repair

# Disruption of Service Rule

- **Type 2** (Continued)
  - Maintain pit water level below the repair
  - Affected critical customers notified
  - Perform controlled shut down
  - Disinfect affected area in accordance with C651
  - Repair the water line

# Disruption of Service Rule

- **Type 2** (Continued)
  - Flush lines in accordance with C651
  - Verify disinfectant presence
  - Document activities
  - No notification to Ohio EPA necessary
  - Move to Type 3 if process not followed

# Disruption of Service Rule

- **Type 3 – loss of pressure at the repair site, localized depressurization near repair, an uncontrolled shut down or signs of possible contamination intrusion**
  - Activate the notification procedures in the system contingency plan.
  - If the disruption affects 10 percent of a systems customers or 100 customers whichever is least, notify the appropriate District office or Ohio EPA hotline (after hours)
  - Must speak with a person at Ohio EPA

# Disruption of Service Rule

- **Type 3** (Continued)
  - Document possible contamination
  - Issue precautionary boil advisory
  - Disinfect, repair and flush in accordance with C651
  - Test for Chlorine residual and comply with minimum requirement
  - Move to Type 4 if event becomes a widespread disruption

# Disruption of Service Rule

- **Type 3** (Continued)

- After repairs, repressurization and chlorine verification, collect special purpose total coliform samples
  - If samples negative for E. Coli or fecal coliform the boil advisory may be lifted
  - If samples positive for E. Coli or fecal coliform the advisory stays in effect and need consecutive samples 24 hrs apart to lift advisory
- Document activities in writing. Submit form to Ohio EPA District Office w/in 48 hrs



# Disruption of Service Rule

- **Type 4 – Catastrophic failure, widespread depressurization or actual contamination intrusion**
  - Activate notification process in contingency plan
  - If the disruption affects 10 percent of a systems customers or 100 customers whichever is least, notify the appropriate District office or Ohio EPA hotline (after hours)
  - Must speak with a person

# Disruption of Service Rule

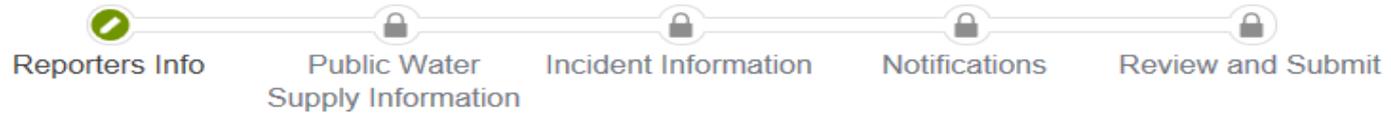
- **Type 4** (Continued)
  - Document contamination
  - Consult with Ohio EPA
  - Issue boil advisory or “Do Not Drink” advisory
  - Disinfect, repair and flush in accordance with C651
  - Test for chlorine residual and comply with minimum requirement

# Disruption of Service Rule

- **Type 4** (Continued)
  - After repairs, repressurization and chlorine verification, collect special purpose total coliform samples
    - If samples negative for E. Coli or fecal coliform the boil advisory may be lifted
    - If samples positive for E. Coli or fecal coliform the advisory stays in effect and need consecutive samples 24 hrs apart to lift advisory
  - Document activities in writing. Submit form to Ohio EPA District Office w/in 48 hrs

# Reporting

- Contact your District Office during normal business hours
- After hours contact Ohio EPA's 24 hour emergency hotline. 1-800-282-9378. Indicate this is a water plant emergency
- Future online reporting tool



## Contact Information

Screen 1 ▼

Name: 

Water system or company name: \* Water System, Fire department...etc

Phone number: \*

Email address:

Are you the primary contact for this incident? \*

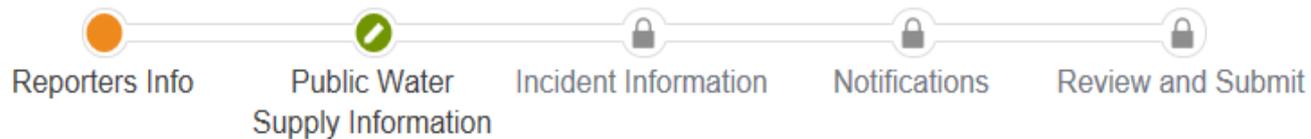
Yes  No

Next

Restart

Exit

## PWS Service Disruption Report



### PWS Information

Screen 1 ▼

Select the primary county for the PWS and the PWS Type then click next for the PWS List

What county is the PWS in? ⚠

Select the PWS type? \*

- Community  
 Non-Community

**Community systems** are cities, villages, mobile home parks and nursing homes...etc.

**Non-Community systems** are schools, hospitals, hotels, factories, campgrounds, restaurants, and gas stations...etc.

Back

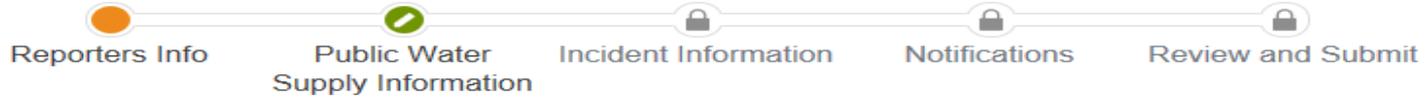
Next

Restart

Exit



# PWS Service Disruption Report



## Public Water System

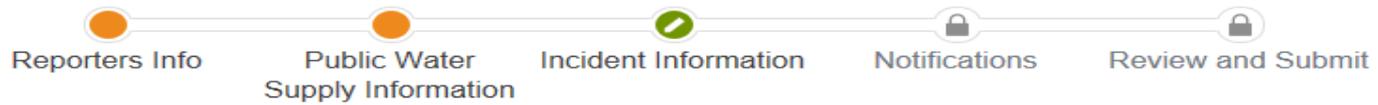
Screen 2

Select Only One

- ARCHBOLD VILLAGE
- DELTA VILLAGE
- FAYETTE VILLAGE
- LYONS VILLAGE
- NORTHEAST WATER SYSTEM
- SWANCREEK WATER DISTRICT 1
- SWANCREEK WATER DISTRICT 2
- SWANTON MEADOWS
- SWANTON VILLAGE
- WAUSEON CITY

[Back](#) [Next](#)





## Incident Description

Screen 1 

Select the incident type? 

What is the Date and Time the incident occurred? \*

Briefly describe the incident and where it occurred? \*

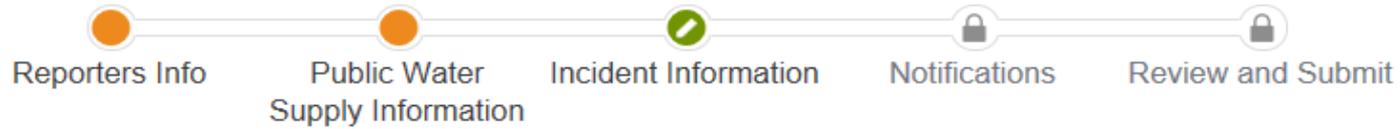
What caused the incident?

Back

Next

Restart

Exit



## Incident Impacts

Screen 2 

Estimated number of customers being impacted? 

Is bottled or alternative water being provided? \*

Yes  No

A Satellite PWS is a consecutive water system receiving water form the primary PWS

Are any satellite water systems effected? \*

Yes  No

Back

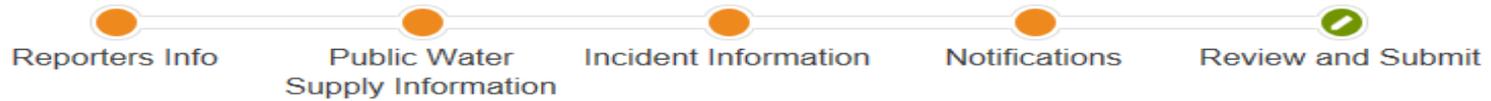
Next

Restart

Exit



# PWS Service Disruption Report



## Interview Complete

Screen 1

**This is a priority PWS incident.**

[SHOW DETAILS](#)

Review the information you are reporting and if correct select the submit button. A PWS disruption incident will be created. A complete copy of this report may be downloaded from the link at the bottom of this page. A copy of this report will be sent to Ohio EPA staff for follow-up.

OH2600111 - WAUSEON CITY  
Incident Type: Line breaks that affect the routine delivery or treatment of water

09/26/2017 04:30  
**Incident Description:** Main and Broad Streets. Water everywhere.  
**Incident Cause:** Construction accident

**You must call and report this incident to Ohio EPA Northwest District Office at 419-352-8461**

**Reported by:** Brian Tarver  
Columbus Water  
(614) 728-1740  
brian.tarver@epa.ohio.gov

**Primary Contact:** Tyler Liston  
Columbus Water  
(614) 644-2752  
tyler.liston@epa.ohio.gov

[Click here to generate a form for your records](#)

[Back](#) [Submit](#)

# Proposed Changes to the Operator Certification Rules

- 2017 Proposals for change to the Current Operator Certification Rules.
  - Throughout the rules we will be referring to operators as “Professionals”
  - 3745-7-01 (Definitions)
    - Changes to the definition of operating experience
      - Moving laboratory, pretreatment and engineering components to experience which only counts for a maximum of 25% of the total operating experience requirement
      - Collection and Distribution experience moved to the same provision when an operator is applying for a Wastewater Treatment or Water Supply Certificate.

# Proposed Changes (Continued. . .)

- Minimum Staffing requirements for distribution systems.
- Requirement for electronic submission of renewal applications beginning with certificates that expire December 31, 2018
- Moving official due date for renewals to November 30 of the expiration year.
- Reducing grace period from 1 year to 6 months.

# Proposed Changes (Continued. . .)

- Certify that Ohio EPA Certification Course has been reviewed.
- 3745-7-21 (Contract Operator Rule)
  - Require registration for all contract operators and contract operation companies
  - Spell out requirements for contract operations companies
  - Provisions for preventing companies or operators from acting as contract operators

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