

Regulations



- Federal Safe Drinking Water Act, Public Law 93-523
 - Federal Register



- Michigan Safe Drinking Water Act, Act 399 of the Public Acts of 1976, as amended
 - Administrative Rules for Act 399

Administrative Rules



**Safe Drinking
Water Act
(SDWA)**

- Michigan Department of Public Health/Department of Environmental Quality Authorized to Promulgate Under SDWA
- 27 Parts

Administrative Rules



- Monitoring Violations
- Maximum Contaminant Level (MCL) Violations
- Consumer Confidence Reports
- Approx. 85 drinking water MCLs

Public Notices



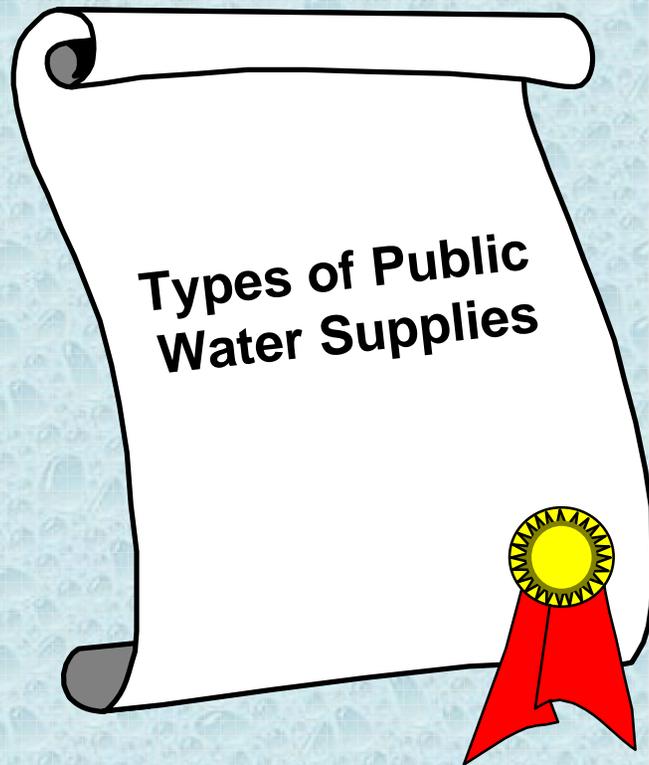
■ Acute

- E. coli or Nitrate MCL Violation
- Direct Delivery (24 Hours Max.)

■ Non-Acute

- Coliform (non E. coli)
- Mailing or Hand Delivery within 30 Days
- Monitoring – Notice within 12 Months

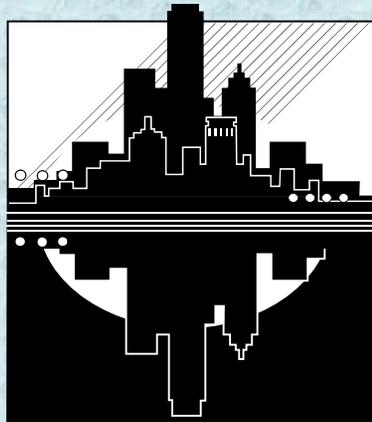
Administrative Rules



- Community Water Supply (CWS) = Type I
- Noncommunity Water Supply (NCWS) = Type II
- Nontransient, Noncommunity Water Supply (NTNCWS) = Type II

Types of Water Supplies

■ CWS - Type I



- Year Around Service to 15 or More Living Units &/or 25 or More Residents per Day
- City, Village, Subdivision, Apartments, Condominiums, or Residential Living Units at School or Prison

Types of Water Supplies

- NCWS - Type II
- Service to 25 or More Nonresidents on an Average Day for 60 Days or More per Year
- Restaurant, Church, Gas Station, Motel or Retailer



Types of Water Supplies

- NTNCWS - Type II



- Service to 25 or More Nonresidents on an Average Day for At Least 6 Months per Year
- “Same People” Returning
- Schools, Factories, Large Office Complexes

Administrative Rules



- Maximum Contaminant Levels (MCLs)
- Analytical Techniques

MCLs

- Lead & Copper Action Levels
 - Lead @ 15 ug/l
 - Copper @ 1300 ug/l (1.3 mg/l)
- Nitrate MCL
 - 10 mg/l
- Total Trihalomethane (TTHM) MCL
 - 80 ug/l

Administrative Rules



**Surveillance
Inspections &
Monitoring**

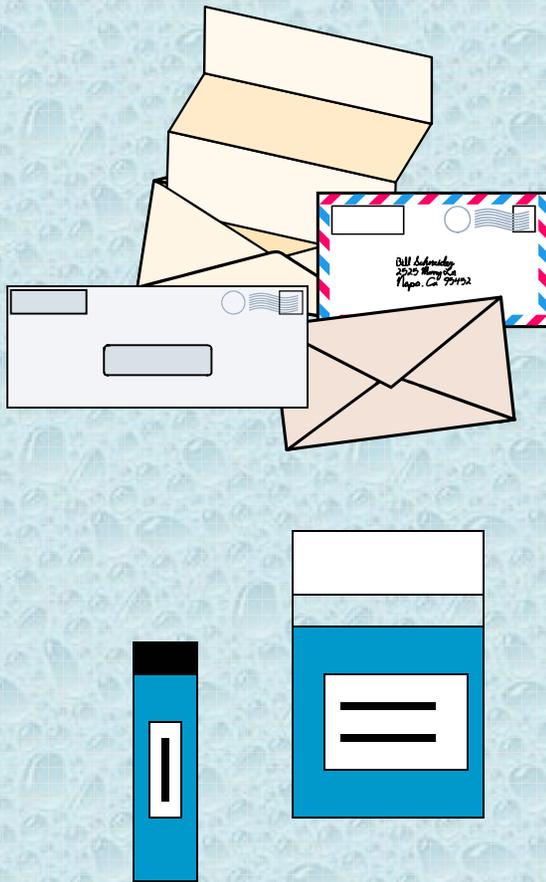
- DEQ Site Inspections
- DEQ Will Evaluate
- Sampling Requirements

Surveillance & Inspection



- Surface Water - 4 X Year
- Groundwater with Treatment
- 2 X Year
- Groundwater without Treatment
- 1 X Year
- All Others - 1 X Year
- Educational Opportunity
 - For Both of Us

Monitoring



- Type of Samples
- Frequency
 - Yearly Monitoring Schedule from DEQ
- Bacti
 - Bacti from Table
 - CHEM
 - Annual or Tri-Annual

Administrative Rules



**Construction
Permits**

- DEQ Construction Permit Required Prior to Start of Construction

Administrative Rules



**Reports &
Record
Keeping**

- DEQ May Require Certain Reports
- Record Retention

Administrative Rules



- Each CWS & NTNCWS Required to Have Certified Operator

Cross Connections

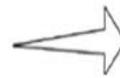
- Arrangement of piping, fixtures, fittings or equipment that could allow dirty water to flow backwards into the potable water system.
- Examples:
 - Direct Cross Connection
 - Submersed Inlet
- See Section 9.4 of Manufacturer's Guidebook

Cross Connections

Submersed Inlet



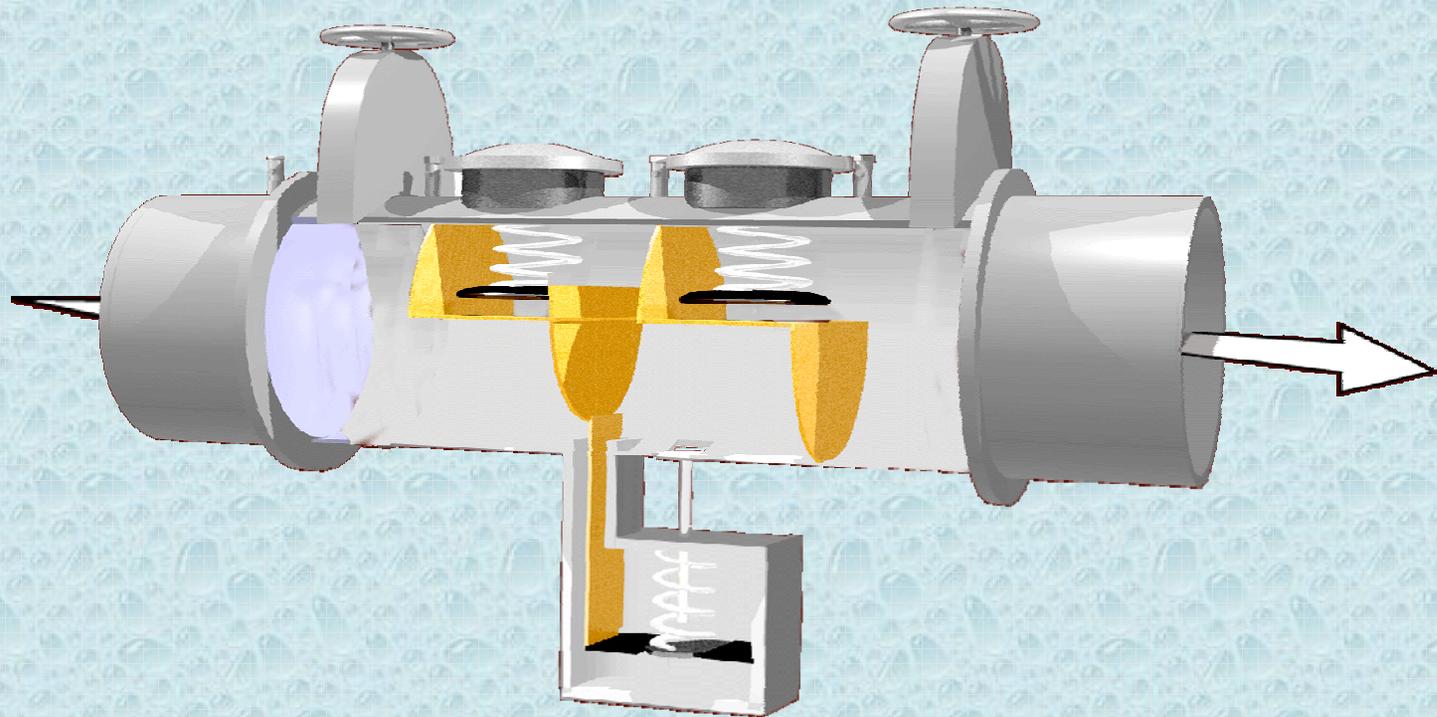
**Water
Make-up
Line**



Direct Connection

Cross Connections

Reduced Pressure Principle Assembly

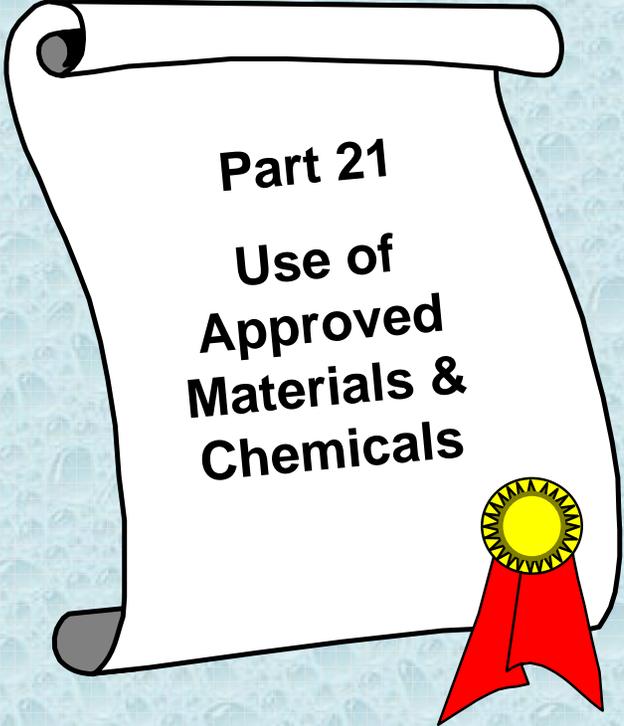


Operator Certification



- F -- Complete Treatment
- D -- Limited Treatment
 - Based on Population Served, Treatment Design capacity or Set by DEQ
- S -- Distribution System
- Level (1-4) -- Based on Population Served, Treatment Design Capacity or Set by DEQ
- Level 5 -- Most small system and NC systems.

Administrative Rules



Part 21
Use of
Approved
Materials &
Chemicals

- Use of Approved Chemicals & Materials

Use of Approved Materials



- Meet ANSI/NSF Standard 60 or 61
 - Listed by NSF or UL
- All Chemicals Used for water Treatment
 - Sodium Hypochlorite, Phosphate
- All Materials In Contract with Drinking Water
 - Water Mains, Paint for Inside Tanks

Chapter 9, Drinking Water

Drinking Water Requirements can be found in Chapter 9 of the Michigan Manufacturer's Guide to Environmental, Health and Safety Regulations