Summary of Safe Drinking Water Act
Community Water System Monitoring Requirements

Sources: Various EPA Publications
Regulatory Distinctions Between Water Systems

A Water System

- Not A Public Water System
  - Community Water System
  - NonTransient NonCommunity Water System

- Public Water System
  - NonCommunity Water System
    - Transient NonCommunity Water System
Definitions of Various Water Systems

- **Public Water System (PWS)** -- a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, if such system has at least fifteen service connections or regularly serves an average of at least twenty-five individuals daily at least 60 days out of the year

  (SDWA Sec. 1401(4), 40 CFR 141.2)
Definitions of Various Water Systems

- **Community Water System (CWS)** -- a public water system that serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents.

- Serves people where they live.

- Exposure to contaminants could be lifetime.

  (SDWA Sec. 1401(15), 40 CFR 141.2)
Definitions of Various Water Systems

- **Non-Community Water System (NCWS)** -- a public water system that does not serve the same people year-round.

- There are two types of non-community systems (based on the length of exposure of the consumers to the water): transient and non-transient.

  (SDWA Sec. 1401(16), 40 CFR 141.2)
Definitions of Various Water Systems

- **Non-transient Non-Community Water System (NTNCWS)** -- a non-community water system that regularly serves at least 25 of the same persons over 6 months of the year but not year-round.

- e.g., schools or businesses with their own water system

- Exposure to contaminants could be similar to that for community water systems.

  (40 CFR 141.2)
Definitions of Various Water Systems

- **Transient Non-Community Water System (TNCWS)** -- a non-community water system that does not regularly serve at least 25 of the same individuals at least 6 months per year.

  - e.g., rest areas, campgrounds, truck stops, visitor centers with their own water system

- Individual exposure to the water is very short-term.

  (40 CFR 141.2)
## SDWA Monitoring Requirement Summary

<table>
<thead>
<tr>
<th>Monitoring Requirement</th>
<th>Location</th>
<th>System Type</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>Total Coliform Rule</td>
<td>Distribution</td>
<td>C</td>
<td>NTNC</td>
</tr>
<tr>
<td>Free Residual Chlorine</td>
<td>Distribution</td>
<td>C</td>
<td>NTNC</td>
</tr>
<tr>
<td>Stage 1 Disinfection By-Products</td>
<td>Distribution</td>
<td>C</td>
<td>NTNC</td>
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<tr>
<td>Lead Copper Rule</td>
<td>Distribution</td>
<td>C</td>
<td>NTNC</td>
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<tr>
<td>Nitrate</td>
<td>Entry Point</td>
<td>C</td>
<td>NTNC</td>
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<tr>
<td>Inorganics</td>
<td>Entry Point</td>
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<tr>
<td>VOCs</td>
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<td>Radionuclides</td>
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<td>NTNC</td>
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<td>Groundwater Rule (GWR)</td>
<td>Source</td>
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<td>NTNC</td>
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## System Classification by Size

<table>
<thead>
<tr>
<th>Size</th>
<th>Population Served</th>
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<tr>
<td>Very Small</td>
<td>( \leq 500 )</td>
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<tr>
<td>Small</td>
<td>501 - 3,300</td>
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<tr>
<td>Medium</td>
<td>3,301 - 10,000</td>
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<tr>
<td>Large</td>
<td>10,001-100,000</td>
</tr>
<tr>
<td>Very Large</td>
<td>( &gt; 100,000 )</td>
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</tbody>
</table>
National Statistics - CWSs by System Size

Number of People Served

- <3,330: 85
- 3,330-10K: 10
- 10K-100K: 9
- >100K: 45

Percent of Systems

- <3,330: 10
- 3,330-10K: 10
- 10K-100K: 6
- >100K: 1
National Statistics - Public Water Systems

Over 161,000 Public Water Systems Nationwide

- CWSs: 53,347
- NTNCWSs: 18,687
- TNCWSs: 89,192
National Statistics - CWSs by Source

Number of Systems in Size Category

- <500
- 500-1,000
- 1,001-3,300
- 3,301-10K
- 10K-50K
- >50K

Number of People Served

- Ground Water
- Surface Water

<table>
<thead>
<tr>
<th>Size Category</th>
<th>&lt;500</th>
<th>500-1,000</th>
<th>1,001-3,300</th>
<th>3,301-10K</th>
<th>10K-50K</th>
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<tr>
<td>Percent</td>
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<td>Surface Water</td>
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