Partnership for Safe Water
Annual Data Reporting

Barb Martin & Tom Schippert
AWWA Partnership for Safe Water Staff
Presenters

• Barb Martin
  – Sr. Manager – Partnership Programs

• Tom Schippert
  – Sr. Coordinator – Partnership Programs
Overview

1. PSW and Annual Reporting Logistics
2. Report requirements - Treatment
   – Phase II
   – Phase III
   – Presidents
   – Phase IV
3. Report requirements - Distribution
4. What’s new?
Partnership Phases

- Phase I
  - Prior to baseline data submission
- Phase II
  - Baseline data submitted
- Phase III
  - Directors Award recipient
- Presidents Award (in between Phases III & IV)
- Phase IV
  - Excellence Award recipient
The Partnership Year

• Data reporting year:
  – June 1 – May 31
  – Annual report due by June 30

• Why?
  – Consistency and comparability in annual reporting and awards
Why is Data Required?

• Accountability & to maintain plant’s good standing in the Partnership
  – Required for longevity awards (10-Year Directors Award)
• Partnership for Safe Water annual data report – quantifies program impact
  – Data reported in aggregate
Annual report may be downloaded from the Partnership website: www.awwa.org/partnership

Select the Resources page.

Figure 11 – Frequency Distribution of Monthly 95th Percentile Turbidity Values for Plants Achieving Directors Award Status (6/1/2015 – 5/31/2016)
Data Confidentiality

• PSW Policy #6 adopted in 2011
  – All data held in confidence and cannot be released without written permission.
  – Annual data stored in data base and used only for the annual data report and statistical analysis.
  – Only aggregate data is used - individual plant data is not released.
  – AWWA staff and volunteers must adhere to this policy.
Software Options (Treatment)

• Turbidity data submitted to Partnership using the most current software version:
  – Version 4.3
• Software guides provided
• Software calculates monthly/annual 95\textsuperscript{th} percentile turbidity from the data that is entered

Request the latest software from us at partnership@awwa.org or 303-347-6169
Software Options (Treatment)

• Six entry per day (4 hour data)
  – *Calculates 95\textsuperscript{th} percentile based on all data points entered (180/30 day month)*

• One entry per day (max turbidity data)
  – *Calculates 95\textsuperscript{th} percentile based on the maximum turbidity entered for a 24 hour period (more stringent)*
Software Options (Treatment)

• Partnership encourages the use of six entry per day software for CFE turbidity

• Data from either version is accepted
## Software Outputs (Treatment)

### Statistical Output Page

**SAG CFE**

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<th>Yearly</th>
<th>Jan-12</th>
<th>Feb-12</th>
<th>Mar-12</th>
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**Spike Counter Page**

**Probability Distribution of All Data**

![Probability Distribution Graph](image)

**Spike Counter - All Raw Data**

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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**Start Year:** 2012  
**Total Days:** 366  
**Month:** 1  
**Day:** 1

**Return to Quick Reference Menu**

**Save File for AWWA**

**Exit Data Collection**

**Utility Name:** SAG WTP  
**Plant Name:** SAG WTP  
**Plant Street Address:** 999 Water Way  
**Plant City, State, Zip:** Pleasant Valley, NY 12110  
**Plant Contact Name:** Joe Operator  
**Plant Phone:** 999-9999  
**Plant E-mail Address:** bmarin@awwa.org
Data Submission

• Excel file format required
• Electronic submission
  – Email to partnership@awwa.org
  – Files on CD mailed to Partnership
  – FTP site transfer*
  – File name WTPName _City_ST_filename.xls
Overview

1. PSW and Annual Reporting Logistics
2. Report requirements - Treatment
   - Phase II
   - Phase III
   - Presidents
   - Phase IV
3. Report requirements - Distribution
4. What’s new?
All Plants

• Regardless of phase, all plants must submit the following to remain in good standing:
  – Payment of annual dues
  – Cover letter
  – Statement of regulatory compliance
  – Performance assessment data

• [www.awwa.org/Partnership](http://www.awwa.org/Partnership) - Requirements & Reports page to access information
Cover Letter

• Identifies utility and plant
• Annual report
• Contact information
• Additional annual highlights
Regulatory Compliance

• Required statement:
  – Treatment plant has not received a violation during the annual reporting period (June 1 – May 31 for most plants)

• If a violation has occurred:
  – Send a copy of the notice of violation and explain the circumstances
  – AWWA & PEAC Chair review
Annual Performance Data

Raw Water

Settled or Clarified Water

Filter Effluent Turbidity (CFE & IFE)

Finished Water (optional)

Daily maximum OR 4 hour data reported from combined basins (Phase IV – individual basins). Optional, but highly encouraged

4 hour CFE data, 15-minute IFE data (Phase IV)

12 Months of Data – June 1, 2016 through May 31, 2017
Annual Performance Data

• Spike counter page
  – Use “Save File for AWWA” button to save the spike counter as a separate file to email to the Partnership
  – If that does not work, feel free to send us the entire file
## Annual Performance Data

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### Spike Counter - All Raw Data

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Utility Name: Water System  
Plant Name: Water Plant  
Plant Street Address: 1 Main Street  
Plant City, State, Zip: Latham NY 12110  
Plant Contact Name: Barb  
Plant Phone: 303.347.6220  
Plant E-mail Address: bmartin@awwa.org
Missing Data?

- Do not enter zeros
- Leave cells blank
  - Spike counter displays “#NUM!” – this is OK
- Provide explanation for extended periods of filter downtime
Phase III Reporting

• Additional requirements for Phase III (Directors Award) plants
  – Narrative report
  – Reviewed by PSW manager
Narrative Report

• Narrative report content (minimum):
  – Review of plant performance
    • Previous year’s performance and comparison to prior years
    • Explain turbidity spikes/deviations
  – Optimization activities completed during the past year
  – Action plan for upcoming year
Narrative Report (minimum)

- Example of minimum required narrative

Example Narrative Report (minimum acceptable)

Narrative Report
Midville Water Department
City Water Treatment Plant

This report is part of the requirements for renewal of Partnership for Safe Water Directors Award. Please note that our plant has not received any Notice of Violation for any drinking water maximum contaminant level (MCL) or treatment technique during the past year.

Activities to Improve Plant Operation June 1, 2009 - May 31, 2010

The following items were addressed during the last year to address the performance limiting factors found in the Partnership for Safe Water self-assessment or are other items that have been identified that could improve plant performance.

✓ Phase II of the flood protection wall was completed. This $3.5 million dollar capital project will protect the plant to the 500-year flood elevation.
✓ Automation of filters 7-18. Filters 7-18 were declining rate filters with manual controls. As a result of this $550 K project the filters are now operated via act spot and PLC control. Also, the backwash of these filters is PLC controlled to achieve uniformity of backwash. These improvements allow the type of constant C Control and monitoring that consistently produces superior quality water. This improvement was needed to address one of the performance limiting factors that was noted in our Phase III completion report.
✓ Enclosure of filters 31-36. Filters 31-36 were previously exposed to the elements as outdoor filters. This situation caused the surface wash to be turned off due to ice accumulation in the winter. This was noted as a performance limiting factor in our Phase III completion report.
✓ As a result of participation in an AWWARF Filter O&M Study, and the Partnership for Safe Water, individual filter performance was evaluated. The backwash rate was found to be deficient. Proper bed expansion is now being achieved and filter performance has improved. Individual filter performance was noted as a performance limiting factor in the Phase III completion report.
✓ Standard operating procedures were developed and implemented. More consistent operation has resulted.

Plant Optimization Activities Scheduled for Next Year

- Sewer effluent valve rehabilitation. Electric PLC electric valves will ensure balanced flow distribution. This item was identified in our self-assessment but could not be accomplished until this year.
- Modification of the coagulant piping system. System improvements will provide the ability to add chemicals at many locations with very accurate dosage control. The need for this improvement was part of the self-assessment.
- Send supervisors to technical and regulatory training at local colleges.
- Implement all regulatory requirements of the IESWTR in plant goals.

Plant Performance Review
Narrative Report

• Preferred format report also includes:
  – Status of PLFs identified during Phase III review process
    • List PLF
    • Explain prior status
    • Update on current status
    • Activities performed and benefits gained, individuals involved
    • Future plans
  – Include any new PLFs identified during past year
Beyond Phase III

• Performance and recognition beyond Phase III:
  • *Presidents Award*
    – Meet numerical standards for IFE turbidity
    – 95\textsuperscript{th} percentile <0.10 NTU based on 15 minute data
  • *Phase IV Excellence in Water Treatment Award*
    – Meet all Phase IV optimization goals (guidelines available online)
    – All PLFs moved to areas of strength
      • Annual narrative can help track progress
Presidents Award Reporting Requirements

• All of the previous – plus
  – Signed declarations page
  – IFE turbidity data: 95th percentile and statistics tables based on 15-minute interval data
    • Current year and previous year
    • Your own Excel format may be used for this submission (no PSW software)
Presidents Award Reporting Requirements

• All of the previous – plus
  – Narrative (1-2 pages)
    • Progress made on optimization projects
    • Optimization projects scheduled for coming year
    • Performance evaluation of IFE turbidity results
    • Why the plant should maintain its Presidents Award status
  – Anything else that supports status (filter profiles, settled water data)
Presidents Award Reporting Requirements

Completed Presidents Award annual report fulfills Directors Award requirements (provided it contains all required data/information)
Phase IV – Excellence Award
Reporting Requirements

• Current year’s data for:
  – Raw water turbidity
  – Settled water turbidity (each basin)
  – CFE turbidity
  – IFE turbidity (calculate percentiles, max)
  – Filter profile (including BW) for the highest turbidity filter run each month
    • Explain any unusual turbidity values
Phase IV – Excellence Award Reporting Requirements

• Narrative:
  – Statement of regulatory compliance
  – Performance explanation
  – Explain any deviations >0.3 NTU or above Phase IV performance goals
  – Measures taken to prevent future exceedances
  – Optimization activities
  – Why the plant should maintain Phase IV status
### Phase IV – Excellence Award Reporting Requirements

**Completed Excellence Award annual report fulfills requirements for all levels (provided it contains all required data/information)**

#### Monthly Individual Filter Effluent with First Value after Backwash

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<th>97%</th>
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<th>99%</th>
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<th>No. of 0.151 - 0.20</th>
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Annual Reporting

• Upon receipt and approval of an acceptable annual report, Phase III and Phase IV plants in good standing are informed by receiving a mailed notice and annual date sticker(s) for their plaque

• Notices are delivered in the Spring of following year
Overview

1. PSW and Annual Reporting Logistics
2. Report requirements - Treatment
   – Phase II
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   – Presidents
   – Phase IV
3. Report requirements - Distribution
4. What’s new?
Distribution System
Annual Reporting

• We strongly encourage all distribution program subscribers to submit annual data!

• Why?
  – Develop baseline data for the system and program
  – Help to build Partnership database
  – It is likely data you already have
Distribution System Data

- 2016 Annual Report

Figure 15 – Frequency Distribution of Monthly Entry Point Average Free Chlorine Concentrations (6/1/2015 – 5/31/2016)

Figure 17 – Average Monthly Maximum DBP Concentrations: Free Chlorine vs. Total Chlorine Systems (6/1/2015 – 5/31/2016)
Distribution System Annual Reporting

• Phase II – Baseline/Annual data reporting
  – Cover letter
  – Statement of regulatory compliance
    • System has not received a violation during the annual reporting period (June 1 – May 31 for most systems)
    • If a violation occurred, send a copy of the violation notice and describe the circumstances
    • PSW Manager/PEAC Chair review
Distribution System
Annual Reporting

• Phase II – Baseline/Annual data reporting (continued)
  – Disinfectant residual performance assessment spreadsheets (12 month period)
    • Pressure and main break accepted but not required at this phase
  – Entry point average
  – Distribution system routine sample summary
  – DBP data (maximum value on any day that sampling was performed)
  – Self-ranking of sample site optimization status
Distribution System Annual Reporting

• Numerical goals/targets
  – Adopted by Partnership as a high-level standard towards which staff can strive in a process of continuous improvement.

• **It is OK** to be working towards these goals at the time of data submission
Data Collection Software

• Distribution data collection software
  – *Disinfectant residual* – version 1.3.2
  – *Pressure* – version 1.3
  – *Main breaks* – *Post-Beta version 1.00*
  – *Do not need to address questions in software*

• Software guides – pdf provided and embedded in software

• Software, workbook/ manual and user guides provided upon subscribing to program
Disinfectant Software

Disinfectant Residual Performance Assessment

Quick Reference Menu

Select the button below to take you to the corresponding worksheet

Data Entry

1. Demographic Info
2. Entry Points
3. Distribution Data Entry
4. DBP TTHM Entry
5. DBP HAA5 Entry

Charts

1. Disinfection By-product
2. Frequency Distribution
3. Disinfectant Minimum

Summary

1. Summary Table

Exception

1. Exception Grid
2. Exception Report

Run Calculations

Note: Calculations will be run against your data before the Charts, Exception Report and Summary Table are updated. This will take approximately 30 seconds.

Software Guide

Help

Return data to AWWA (See "Help" for instructions)
**Disinfectant Residual Data Summary Table**

Secondary Residual Disinfectant - free chlorine or total chlorine or chlorine dioxide
Applicable Routine Sample Goals - free chlorine \( \geq 0.20 \text{ mg/L} \) and \( \leq 4.0 \text{ mg/L} \), total chlorine \( \geq 0.50 \text{ mg/L} \) and \( \leq 4.0 \text{ mg/L} \), mg/L chlorine dioxide \( \geq 0.20 \text{ mg/L} \) and \( \leq 0.80 \text{ mg/L} \)

<table>
<thead>
<tr>
<th></th>
<th>Annual</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Entry Points Residual</strong></td>
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<tr>
<td>Average (mg/L)</td>
<td>0.45</td>
<td>0.45</td>
<td>0.45</td>
<td>0.45</td>
<td>0.45</td>
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</tr>
<tr>
<td><strong>Number of Routine Samples</strong></td>
<td>730</td>
<td>62</td>
<td>56</td>
<td>62</td>
<td>60</td>
<td>62</td>
<td>60</td>
<td>62</td>
<td>62</td>
<td>62</td>
<td>60</td>
<td>62</td>
<td>62</td>
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<tr>
<td><strong>Number of Routine Test Results Not meeting Goals</strong></td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>% Routine Test Results Not Meeting Goals</strong></td>
<td>0.41</td>
<td>4.84</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Minimum Daily Residual Value (mg/L)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.40</td>
<td>0.40</td>
<td>0.40</td>
<td>0.40</td>
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<td></td>
</tr>
<tr>
<td><strong>Number of repeat non conforming sites</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td><strong>TTHM Maximum (µg/L)</strong></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td><strong>HAAS Maximum (µg/L)</strong></td>
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</tr>
</tbody>
</table>
Disinfectant Residual

- Free and total chlorine performance goals are different.
- Do not mix free and total chlorine data on a single spreadsheet
  - Chloramine systems that perform a free chlorine burn
  - Submit the free chlorine data on a separate spreadsheet
Distribution System Phase III Reporting

• All of the previous, plus:
  – Pressure data summary
  – Main break data summary
  – Narrative report

• Explains optimization activities completed during the reporting period and optimization planned for the following year
# Pressure Monitoring

## Pressure Data Summary Table

<table>
<thead>
<tr>
<th></th>
<th>Annual</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Daily Minimum &lt; 20psi</td>
<td>0.5</td>
<td>6.5</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>% Daily Maximum &gt; goal</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>% Daily Single Site Range &gt; goal</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Average Daily System Min.
21.9 20.8 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0

Average Daily System Max.
45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0

Average Daily System Range (Max)
23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0 23.0

Avg. Number Pressure Sensor Locations in Service
2.0 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0

Number of Pressure sensors below 20
2.0 2.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Number of Pressure Sensor locations Repeatedly below 20 psi
0 0 0 0 0 0 0 0 0 0 0 0 0

Data includes: number of sensors, daily minimum, daily maximum, single site max range.
• Pressure sensors
  – Continuously monitoring pressure sensors required for Phase III
  – Recommended ideal sensor locations at high and low pressure sites in each pressure zone (but use what you have)
Pressure Monitoring

• Multiple pressure zones?
  – May be able to combine on one sheet that covers entire system – but this will not provide you with detailed system information
  – If pressure limits vary significantly, suggest using a separate sheet for each zone
# Main Breaks

## System-wide Analysis Table

<table>
<thead>
<tr>
<th>ID</th>
<th>Year Range</th>
<th>Reported Breaks and Leaks</th>
<th>Miles of Pipe</th>
<th>Reported Events Per 100 Miles of Pipe</th>
<th>Criteria</th>
<th>Linear Trend</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summary Statistics</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Average</td>
<td>1999 to 2012</td>
<td>499</td>
<td>3,429</td>
<td>20</td>
<td>15</td>
<td>20</td>
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</tbody>
</table>

## Summary Data

<table>
<thead>
<tr>
<th>ID</th>
<th>Year</th>
<th>Reported Breaks and Leaks</th>
<th>Miles of Pipe</th>
<th>Reported Events Per 100 Miles of Pipe</th>
<th>Criteria</th>
<th>Linear Trend</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>1999</td>
<td>739</td>
<td>5,500.0</td>
<td>13.4</td>
<td>15</td>
<td>35.47</td>
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<tr>
<td>2</td>
<td>2000</td>
<td>702</td>
<td>1,777.0</td>
<td>39.5</td>
<td>15</td>
<td>33.08</td>
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<td>3</td>
<td>2001</td>
<td>553</td>
<td>1,780.0</td>
<td>31.1</td>
<td>15</td>
<td>30.70</td>
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<tr>
<td>4</td>
<td>2002</td>
<td>522</td>
<td>1,783.0</td>
<td>29.3</td>
<td>15</td>
<td>28.31</td>
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<tr>
<td>5</td>
<td>2003</td>
<td>582</td>
<td>1,785.0</td>
<td>32.6</td>
<td>15</td>
<td>25.92</td>
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<tr>
<td>6</td>
<td>2004</td>
<td>601</td>
<td>1,787.0</td>
<td>33.6</td>
<td>15</td>
<td>23.53</td>
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<td>7</td>
<td>2005</td>
<td>495</td>
<td>1,789.0</td>
<td>27.7</td>
<td>15</td>
<td>21.14</td>
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<tr>
<td>8</td>
<td>2006</td>
<td>454</td>
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<td>25.3</td>
<td>15</td>
<td>18.75</td>
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<td>9</td>
<td>2007</td>
<td>512</td>
<td>5,000.0</td>
<td>10.2</td>
<td>15</td>
<td>16.36</td>
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<tr>
<td>10</td>
<td>2008</td>
<td>542</td>
<td>5,000.0</td>
<td>10.8</td>
<td>15</td>
<td>13.97</td>
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<tr>
<td>11</td>
<td>2009</td>
<td>1,070</td>
<td>5,000.0</td>
<td>21.4</td>
<td>15</td>
<td>11.58</td>
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<tr>
<td>12</td>
<td>2010</td>
<td>200</td>
<td>5,000.0</td>
<td>4.0</td>
<td>15</td>
<td>9.19</td>
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<tr>
<td>13</td>
<td>2011</td>
<td>3</td>
<td>5,005.0</td>
<td>0.1</td>
<td>15</td>
<td>6.80</td>
</tr>
<tr>
<td>14</td>
<td>2012</td>
<td>5</td>
<td>5,005.0</td>
<td>0.1</td>
<td>15</td>
<td>4.41</td>
</tr>
</tbody>
</table>

Notes: (1) N/D = Not Data; "--" = Zero
(2) Minimum and maximum cells show the value and year of occurrence in parenthesis.
(3) Criteria refers to occurrences per 100 miles of pipe.
Main Breaks

Reported Breaks and Leaks Per 100 Miles

Year


Occurrences/100 Miles/yr

0.0 5.0 10.0 15.0 20.0 25.0 30.0 35.0 40.0 45.0

Criteria

Linear Trend
Main Breaks

• Review self-assessment guidance for recording breaks and leaks:
  – Reported breaks/leaks
    • Not those identified through leak detection program
  – Utility controlled distribution/transmission piping and appurtenances
    • Does not include service lines beyond connection point on the main
Distribution System Self-Assessments

- 22 utilities have completed distribution system self-assessments
  - Serving a population of more than 24 million
- Represents a total distribution system length of more than 27,000 miles

That stretches across the US 10 times – and completely around the globe!
Distribution System Self-Assessments

• Excellent feedback and actions taken
• Example actions:
  – Install chlorine analyzers
  – Institute annual water audit
  – More quantifiable flushing protocols
  – Improve SOPs
  – More frequent storage tank monitoring
  – Work with treatment plant to adjust chlorine/ammonia ratios
• Many tools and resources available – contact us with questions if you are interested in getting started!
Overview

1. PSW and Annual Reporting Logistics
2. Report requirements - Treatment
   – Phase II
   – Phase III
   – Presidents Award
   – Phase IV
3. Report requirements - Distribution
4. What’s new?
New Self-Assessment Guidance

- Self-assessment guidance was released June 2015
- All plants in program have received a copy.
- To replace the 1997 version guidance for completing self-assessments
- Thank you to the many volunteers involved in this effort!
New Self-Assessment Guidance

• Volunteer team has been updating distribution system self-assessment guidance.
• To be released early 2018 and provided to all program subscribers as a subscriber benefit.
• Thank you to all volunteers involved in the project!
Partnership for Clean Water

• Optimization and recognition program for wastewater treatment facilities
  – Focus on effluent quality, energy management, and operational efficiency

• Launched in 2016
Groundwater

- Treatment plant optimization program has expanded to include groundwater facilities!
- Facilities must incorporate filtration and continuous disinfection to be eligible for participation.
- Current subscribers can add new plants for no additional fee.
ACE17 – Philadelphia

• We look forward to seeing you in Philadelphia, where the Partnership will be holding:
  – Committee meetings
  – Subscriber appreciation reception
  – Recognition at OGS, Luncheon, and Exhibit Hall
  – Featured in 3 Professional Sessions
  – Visit with staff in the AWWA Pavilion
Volunteer Opportunities

Volunteers Assist the Partnership with:

• PEAC review committees
  – Treatment & Distribution, training provided
• Content development for newsletters and articles
• Conference participation and presentations
• Pilot trials and special projects
Partnership Website

- Visit the Partnership website to stay informed about the latest program news and updates
  - www.awwa.org/partnership
  - www.awwa.org/partnershipforcleanwater
Support

Partnership staff is always happy to answer your software questions and/or walk you through the process.

Contact us anytime!
Thank You!!

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