



We work with others to protect the health of the people of Washington State by ensuring safe and reliable drinking water.



CROSS-CONNECTION CONTROL 2024 ANNUAL SUMMARY REPORT

Washington State Department of Health
Office of Drinking Water

Agenda

● 9:00-10:15

- Rules, Reasons, General Overview, and the Blue Form

● 10:30-11:45

- The Cream Form and the Green Form
- Grey Form and Submitting All Forms

● 12:00-12:30

- Review, Compliance, and Questions

Rules, Reasons, General Overview, and the Blue Form

- The Why behind the WAC
- ASR Reporting Platform
- Required Fields
- Common Errors
- Resources
- Data Validation

Public Water System (PWS) CCC Reporting

- WAC 246-290-490(8)
- All PWS must complete CCC summary reports annually
- PWS must submit reports to DOH upon request
- We require systems with 1,000 or more connections to use our on-line platform

Cross-Connection Control Specialist (CCS)

- Duties of the CCS
- WAC 246-292-033(2)
- CCS must develop and maintain purveyor's CCC records
- CCS must complete, sign, and make CCC reports available to DOH including ASRs

What year was the first ASR collected online?

DOH CCC Data Collection

- First collected data in 2002 (for 2001)
- DOH's continuing to target the largest *community* systems in Washington
- These public water systems
 - Serve the majority of our state's population
 - Are most likely to serve severe and high-hazard premises (Table 13)

Annual Summary Report Data Uses

- Basis for CCC compliance
- Identify CCC Program deficiencies
- Identify guidance and training needs
- Show CCC/public health improvement trends
- Establish CCC Program direction
- Respond to questions from purveyors, legislators, customers and others

General ASR Process

- Identify ASR systems for reporting year
 - Community systems with > 1,000 total connections
 - Past ASR systems that now serve < 1,000 connections
 - 247 systems meet criteria
- Website automatically creates a new year on January 1st.
- Email “official” notices to ASR and WFI contacts
- Provide technical assistance and training
- CCC compliance

What is the deadline for ASR reporting this year?

ASR Schedule

Date	Task
January 13	Email "official" ASR notification letter
February/March/April	Reminder emails to system that haven't submitted completed ASR
May 5	ASR forms due (~90 days after launch)
June	Begin ASR-related compliance activities (reporting violations)

ASR Submittal Requirements

- **All** PWS over 1,000 connections must submit
 - Annual Activities form (blue) and
 - Program Summary form (cream)
- **In addition, systems**
 - Serving Severe Health Hazard Facilities must submit gray form
 - Granting, renewing, or cancelling Exceptions must submit green forms

Blank ASR Forms Online

- For ease of data entry, many PWSs print and fill out blank forms before logging into website
- Blank ASR forms posted to:
 - Office of Drinking Water CCC webpage
 - Help link in ASR website
- ASR forms available in both Word (fillable forms) and pdf format
- Some also print previous year blue form and mark changes



Can you access the ASR reporting platform by “googling” it?

Website Access Limited for Security

- Access website by either
 - Using link in communication email (directive letter)
 - Typing address into Internet browser address field
- Unique combination of PWS ID and DOH-assigned PIN for login
- Recommend add ASR website to Internet browser "Favorites"

ASR Security Confirmation Emails

- Added "Feedback Report" to email
- Don't need to reply, but let us know if it doesn't show
 - Check junk/spam email folder

PWS Action	Trigger Email to
Submit Contact Information	Designated CCS/CCC Program Manager only
ASR Forms Package Certified/Submitted	Both the Designated CCS/CCC Program Manager and ASR PWS Manager
ASR Forms Package Unsubmitted	Both the Designated CCS/CCC Program Manager and ASR PWS Manager

ASR Security Session Timer

- Data entry sessions timeout after 30 minutes
 - Minutes remaining show at top of each page
- If session times out, you'll lose unsaved data
- Timer resets when
 - Change pages
 - Click Save
 - Ready to Submit
 - Any navigation buttons

ODW CCC Page

- <https://doh.wa.gov/community-and-environment/drinking-water/water-system-design-and-planning/cross-connection-control-backflow-prevention>
- Blank ASR forms
- Common ASR Errors
- Medical Category Information
- FAQs
- PowerPoint presentation
- ASR Help Guide

Grayed Out Fields

Reminder—you can't enter data into grayed out fields!

● Examples

- Totals the website calculates for you
- Other fields the website fills in for you
- Fields that block entry of illogical data based on your data in a related field

ASR Form Comments Important

- Office of Drinking Water staff have access to all your system's ASR forms (current and past)
- We strongly encourage you to provide comments on each ASR form
 - Explanations for data on forms
 - Changes in CCC Program status
 - Accomplishments for current reporting year
 - Goals/priorities for the next reporting year



Why are the ASR forms different colors?

****BONUS****

What are the four colors?

Access ASR Website and Login

- Access ASR website Login screen at:
<https://test-fortress.wa.gov/doh/cccqqa/CCC/Login.aspx>
- Enter 6-digit PWS ID and 5-digit DOH-assigned PIN and click LOGIN button

Cross-Connection Control (CCC) Login Screen Annual Summary Report (ASR) for 2023

Cross-Connection Control Database Login Screen

Welcome to the CCC ASR Application
The Annual Summary Reports for 2023 are due May 01, 2024.

To log in, enter your 6-digit PWS ID and PIN (supplied by DOH) and click the **LOGIN** button.

PWS ID:

Unique PIN:

LOGIN

Our [Quick Reference Guide](#) provides step-by-step information on how to use the new website to certify and submit your 2023 ASR forms to DOH.

Notice

DOH considers your system's completed CCC ASR forms official public water system records. DOH:

- Uses the information you report as the basis for enforcement action; and
- Makes ASRs available to the public upon request according to public disclosure laws.

Recommended screen resolution is 1024 X 768. To adjust, click on Start, Settings, Control Panel, Display, Settings.

To adjust text size, hold down the CTRL key and depending on your browser either:

- Press "+" or "-" keys.
- Move the mouse wheel.



Choose Reporting Year Screen Annual Summary Report (ASR) for 2023

PWS ID: 111111 PWS Name: **Test System 1** County: **Thurston**

For security reasons, your session will expire in about **29** minutes.

[Help](#)

[Logout](#)

Choose Reporting Year Screen

You may access your water system's **current** and **past** ASR forms from this screen.

From the dropdown box below:

1. Click **GO!** to access ASR forms for 2023 (current year).

or

2. Choose a prior year, and select **GO!** to view and print (not edit) ASR forms for a **past** reporting year.

Current Year (2023) ▼ **GO!**

● Choose your reporting year

● Also view past ASR forms

Navigation Screen - Step 1


- Click Step 1: PWS Contact Info button to get to the Contact Information Screen

Navigation Screen

CURRENT YEAR: 2023 View/Print Forms from Past Years

PWS Contact Information		Contact Info Last Saved: 4/23/2024 1:18 PM
	Designated CCS/ CCC Program Manager	PWS Manager
Name	Jared G Goff	Rhonda J Leatherwood
Email	rjl0303@doh.wa.gov	rjl0303@doh.wa.gov
Phone Number	360-236-4570	360-628-1937

Update Contact Info

Instructions 

Submit All ASR Forms



What is the issue with using the same contact information for CCC Manager and PWS Manager positions?

Contact Information Screen

- Must complete Navigation Screen Step 1: CCC Contact Information before other “Step” buttons become enabled
- Must pass data error checks to
 - Successfully Submit Contact Info
 - Gain access to new ASR forms (Step 2)
- DOH needs your contact info
 - To pre-populate specific fields on all ASR forms
 - For confirmation and other CCC-related emails
 - Use two different email addresses

Complete PWS Contact Information



Public Water System Contact Information Annual Summary Report (ASR) for 2023

PWS ID: 111111 PWS Name: **Test System 1** County: **Thurston**

For security reasons, your session will expire in about **29** minutes.

[Logout](#)

[Help](#)

PWS Contact Info

CURRENT YEAR: **2023**

[View/Print Forms from Past Years](#)

Please enter your CCC contact information below:

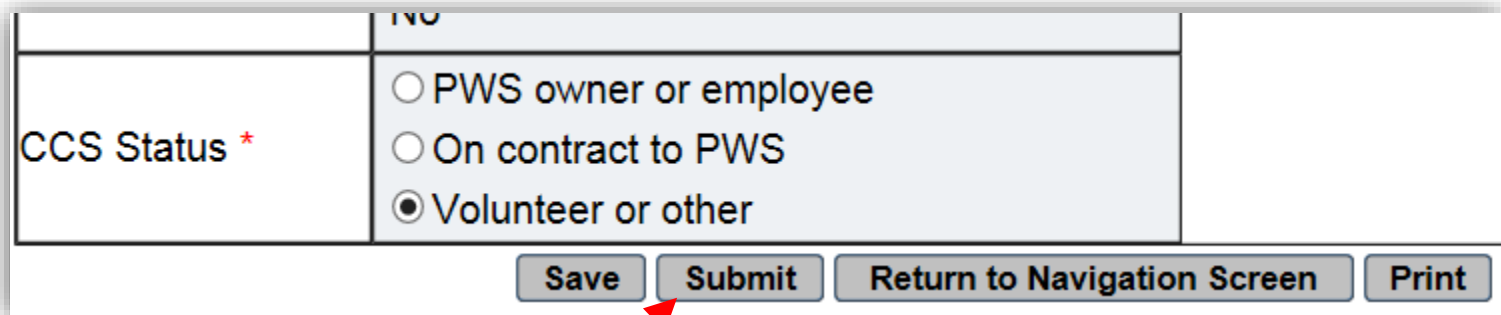
We use this information to populate the contact information on all ASR forms. You must complete all fields marked with an "*" .

1. Click the **Submit** button to:
 - a. Trigger access (on the Navigation Screen) to **new** ASR forms for this reporting year.
 - b. Display your contact information on **new** ASR forms for this reporting year.
 - c. Update/change your contact information on **saved** ASR forms for this reporting year.
2. Click the **Save** button to:
 - a. Save your contact information as a **"work in progress"** for this reporting year.
 - b. Update your contact information **on this screen only**. This action will **not** update your contact information on new or saved ASR forms for this reporting year.

	Designated CCS/ CCC Program Manager	PWS Manager
Position Description	The CCC Program Manager is the person: <ul style="list-style-type: none"> • Designated by the purveyor to be in responsible charge of the CCC program, as required in WAC 246-290-490(3)(e) and WAC 246-292-050(4). • Who manages the CCC program for the PWS and is responsible for the day-to-day implementation of the CCC program. 	The PWS Manager is either the: <ul style="list-style-type: none"> • Person that directly supervises the Designated CCS/CCC Program Manager; or • Other manager having direct oversight of the CCC Program. In large systems, this person doesn't need to be in charge of the entire PWS.
First Name *	Jared	Rhonda
Middle Name	G	J
Last Name *	Goff	Leatherwood

Contact Info Screen Notes—1

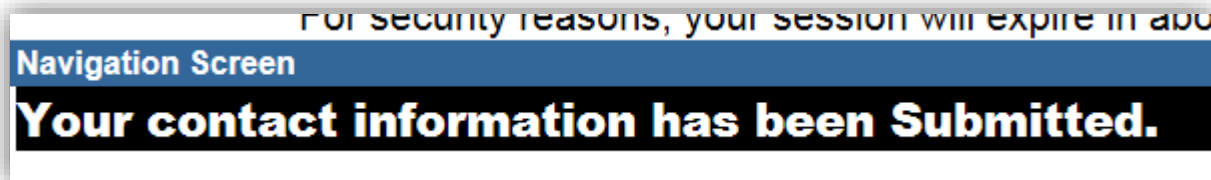
- Use Save to save your info as a draft (or to update the info on this screen only)
- Use Submit when you've completed all required fields on Contact Info Screen
- Note—Submit triggers the data errors check



The screenshot shows a portion of a web form. On the left, the label "CCS Status *" is visible. To its right, there are three radio button options: "PWS owner or employee", "On contract to PWS", and "Volunteer or other". The "Volunteer or other" option is selected. Below the form fields, there are four buttons: "Save", "Submit", "Return to Navigation Screen", and "Print". A red arrow points to the "Submit" button.

Contact Screen Notes—2

- To successfully Submit contact info, you must:
 - Complete all required fields
 - Provide phone numbers in valid format
 - Provide matching emails in valid format
- If you pass the data error checks on Submit, the Navigation Screen will display and you'll get a confirmation message

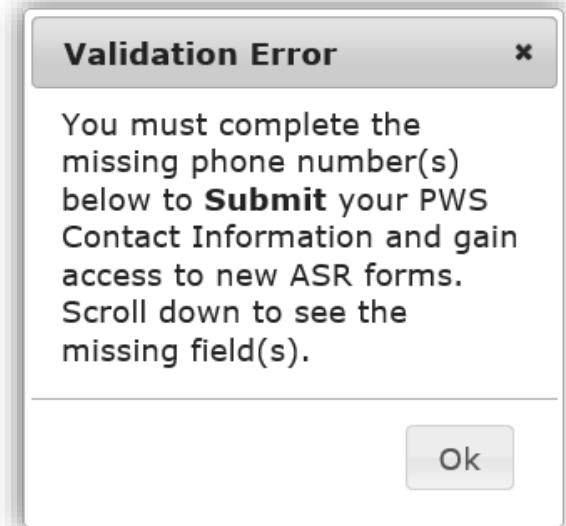


Contact Screen Notes—3

- If you fail the data error checks, you'll remain on the Contact Information Screen. You may see:

First Name *	Henry
Middle Name	
Last Name *	 Required.
Job Title	CCC Program Manager
Phone * (xxx-xxx-xxxx)	360-23-3133 Format is XXX-XXX-XXXX
Phone Ext.	52
Email Address*	nathan.ikehara@doh.wa.gov Emails must match to Save or Submit your contact information.
Confirm Email *	Henry.Darcy@doh.ny.gov

OR



- Scroll down and correct the problem fields and repeat Submit process until successful



How do you access ASR forms
from previous years?

Navigation Screen—Notes

- Access new ASR forms
- Edit and print saved ASR forms
- Check on the status of any ASR form
 - Not started
 - Saved
 - Ready to Submit
 - Certified/Submitted
 - Unsubmitted

Navigation Screen
Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston
For security reasons, your session will expire in about 29 minutes. [Logout](#)

[Help](#)

Navigation Screen

CURRENT YEAR: 2017 [View/Print Forms from Past Years](#)

PWS Contact Information Contact Info Last Saved: 4/10/2018 4:00 PM

	Designated CCS/ CCC Program Manager	PWS Manager
Name	Henry Darcy	Julius Weisbach
Email	nathan.ikehara@doh.wa.gov	nathan.ikehara@doh.wa.gov
Phone Number	360-238-3133	360-238-3133

[Update Contact Info](#)

Instructions

Submit All ASR Forms

- When you're done filling out all your forms, select the **Ready to Submit All ASR Forms** button. The website will check your data within and between forms.

[Ready to Submit All ASR Forms](#)

ASR Feedback Report

[Print Feedback](#)

Annual Summary Reports

Cross-Connection Control Activities (Blue)

Instructions

[NEW](#) [EDIT](#) [PRINT](#) Status: Saved Last Saved: 4/10/2018 2:39 PM

Cross-Connection Control Program Summary (Cream)

Instructions

[NEW](#) [EDIT](#) [PRINT](#) Status: Saved Last Saved: 2/5/2018 3:32 AM

Backflow Prevention for Severe Health Hazard Facilities (Gray)

Instructions

	WWTP	Nuclear-Related	Other
Facilities	1	0	0
Connections	3	0	0

Status: Saved Last Saved: 2/5/2018 3:32 AM

[NEW](#) [EDIT](#) [PRINT](#)

Exceptions to High-Hazard Premises Isolation Requirements (Green)

Instructions

NEW	EXCEPTIONS LIST	Total New (or previously undocumented)	Total Cancelled	Total Renewed	Total Previously Granted Not Expired	Total Previously Granted Expired
		0	0	0	0	2

Navigation Screen—Notes

- If applicable, view summary info for
 - Gray form data
 - Green form data
- If applicable, access the Exceptions List
- Start the ASR forms submission process
- Also initiate the “Unsubmit” process

Navigation Screen
Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston
For security reasons, your session will expire in about 29 minutes. [Logout](#)

[Help](#)

Navigation Screen

CURRENT YEAR: 2017 [View/Print Forms from Past Years](#)

PWS Contact Information Contact Info Last Saved: 4/10/2018 4:00 PM

	Designated CCS/ CCC Program Manager	PWS Manager
Name	Henry Darcy	Julius Weisbach
Email	nathan.ikehara@doh.wa.gov	nathan.ikehara@doh.wa.gov
Phone Number	360-238-3133	360-238-3133

[Update Contact Info](#)

Instructions

Submit All ASR Forms

- When you're done filling out all your forms, select the **Ready to Submit All ASR Forms** button. The website will check your data within and between forms.

[Ready to Submit All ASR Forms](#)

ASR Feedback Report

[Print Feedback](#)

Annual Summary Reports

Cross-Connection Control Activities (Blue)

Instructions

[NEW](#) [EDIT](#) [PRINT](#) Status: Saved Last Saved: 4/10/2018 2:39 PM

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Instructions

	WWTP	Nuclear-Related	Other
Facilities	1	0	0
Connections	3	0	0

Status: Saved Last Saved: 2/5/2018 3:32 AM

[NEW](#) [EDIT](#) [PRINT](#)

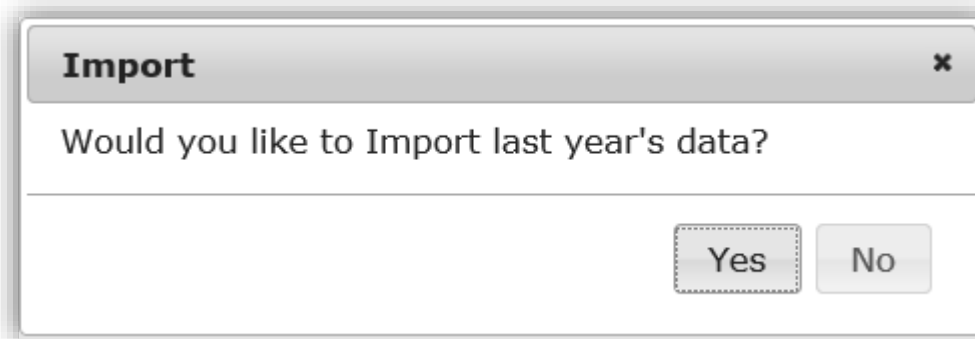
Exceptions to High-Hazard Premises Isolation Requirements (Green)

Instructions

NEW	EXCEPTIONS LIST	Total New (or previously undocumented)	Total Cancelled	Total Renewed	Total Previously Granted Not Expired	Total Previously Granted Expired
		0	0	0	0	2

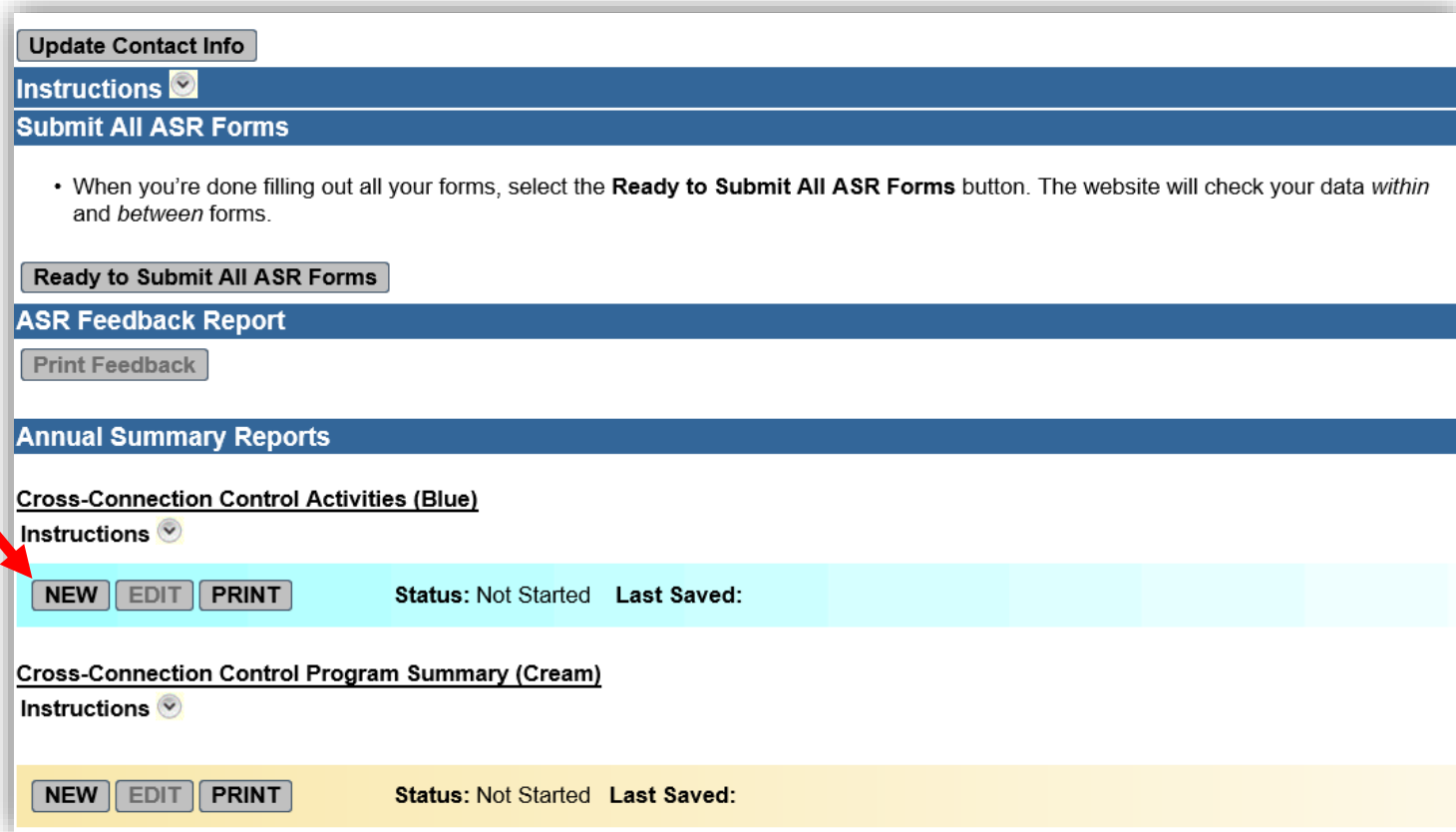
Import Feature Pop-Up

- One-time option to import last year's data onto this year's forms
- Import pop-up displays when click New button on blue, cream, or gray forms on Navigation Screen



Navigation Screen—Step 2

- Step 2: Start a New Form after you successfully Submit your Contact Info (complete Step 1)



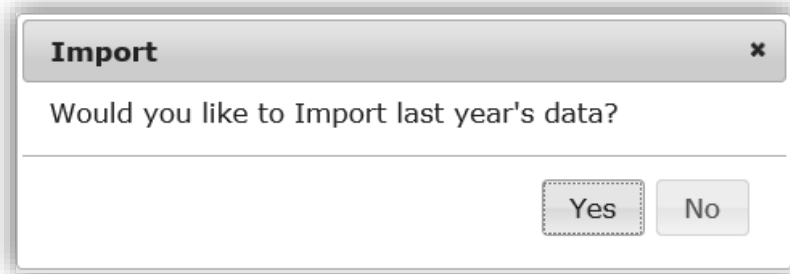
The screenshot shows a web application interface with several sections. At the top, there is a button labeled "Update Contact Info". Below it is a blue header bar with "Instructions" and a dropdown arrow. The next section is "Submit All ASR Forms", which contains a bullet point: "When you're done filling out all your forms, select the **Ready to Submit All ASR Forms** button. The website will check your data *within* and *between* forms." Below this is a button labeled "Ready to Submit All ASR Forms". The next section is "ASR Feedback Report" with a button labeled "Print Feedback". The "Annual Summary Reports" section contains two items: "Cross-Connection Control Activities (Blue)" and "Cross-Connection Control Program Summary (Cream)". Each item has an "Instructions" dropdown and a row of buttons: "NEW", "EDIT", and "PRINT". The "NEW" button in the "Cross-Connection Control Activities (Blue)" row is highlighted in light blue and pointed to by a red arrow. The status for both items is "Status: Not Started" and "Last Saved:".



Should you import the
previous year data into your
current reporting year forms?

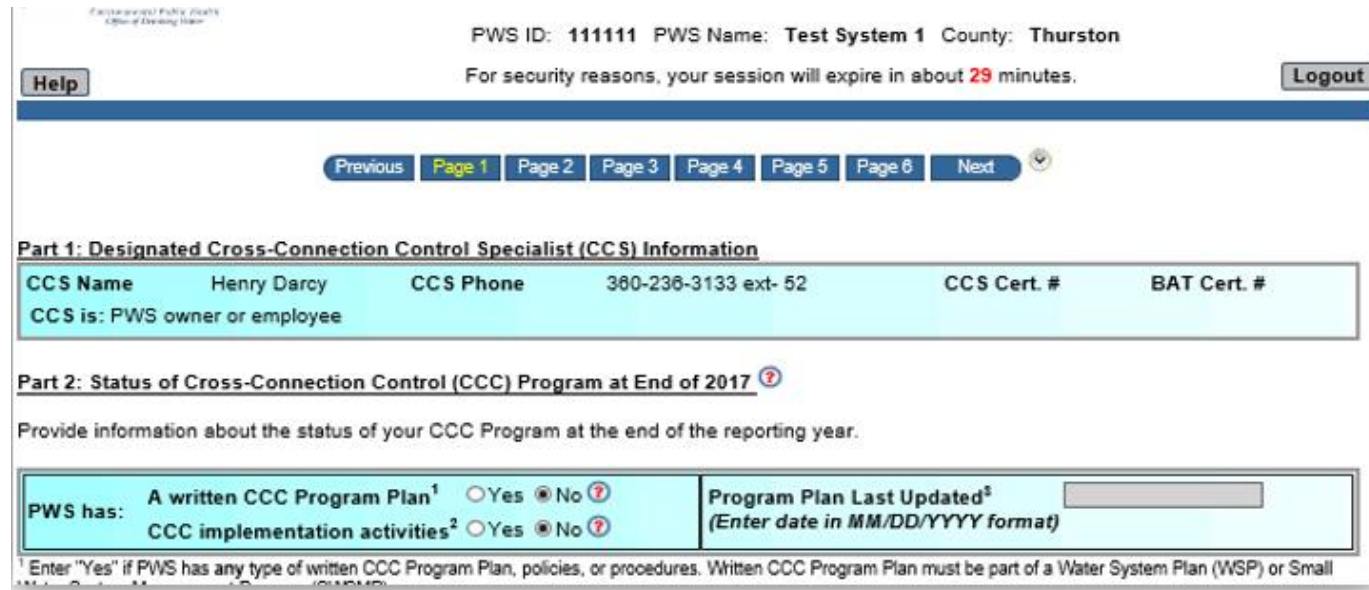
Blue ASR Form

- Click Yes to import last years data onto this years form
- Click Save and start editing new ASR form



Import [X]

Would you like to Import last year's data?



Washington Public Utility
Office of Drinking Water

PWS ID: 111111 PWS Name: Test System 1 County: Thurston

For security reasons, your session will expire in about 29 minutes. [Logout](#)

[Help](#)

Previous Page 1 Page 2 Page 3 Page 4 Page 5 Page 6 Next

Part 1: Designated Cross-Connection Control Specialist (CCS) Information

CCS Name	Henry Darcy	CCS Phone	380-236-3133 ext- 52	CCS Cert. #	BAT Cert. #
CCS is: PWS owner or employee					

Part 2: Status of Cross-Connection Control (CCC) Program at End of 2017 ?


Provide information about the status of your CCC Program at the end of the reporting year.

PWS has:	A written CCC Program Plan ¹	<input type="radio"/> Yes <input checked="" type="radio"/> No ?	Program Plan Last Updated ³ (Enter date in MM/DD/YYYY format)
	CCC implementation activities ²	<input type="radio"/> Yes <input checked="" type="radio"/> No ?	

¹ Enter "Yes" if PWS has any type of written CCC Program Plan, policies, or procedures. Written CCC Program Plan must be part of a Water System Plan (WSP) or Small...

Helpful Hints

Provide information about the PWS's specific CCC Program Elements. **Select one response for each column for each row.**

Program Element Number	Description of Element [See WAC 246-290-490(3)]	This Program Element is:	
		Included in Written Program Plan 	Being Implemented or Is
1 *	Legal Authority Established	<input type="radio"/> Yes <input type="radio"/> No	
2 *	Hazard Evaluation Procedures and Schedules	<input type="radio"/> Yes <input type="radio"/> No	
3 *	Procedures/Schedules for Ensuring Installation of Backflow Preventers	<input type="radio"/> Yes <input type="radio"/> No	
4 *	Certified CCS Provided	<input type="radio"/> Yes <input type="radio"/> No	
5 *	Backflow Preventer Inspection and Testing	<input type="radio"/> Yes <input type="radio"/> No	
6 *	Assembly Testing Quality Assurance/Quality Control (QA/QC) Program	<input type="radio"/> Yes <input type="radio"/> No	
7 *	Backflow Incident Response Procedures	<input type="radio"/> Yes <input type="radio"/> No	
8 *	Public Education Program	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
9 *	CCC Records	<input type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input type="radio"/> No
10 *	Reclaimed Water Permit	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A

Helpful Hint:

Be sure to answer BOTH sets of Y/N questions for EACH row.

Select one of the following links for further help:

[Help](#)

[Contact](#)

Annual Activities Report (Blue)

- Focus: CCC program development and implementation
- Written CCC Program status
- Backflow prevention for Table 13 hazards
- Backflow preventer inventory
- Other implementation activities

Which is the best choice for reporting the number of connections for a water system?

- A. "DOH Calculated" on the WFI
- B. "DOH Approved" on the WFI
- C. Actual Connections Counted by PWS

Part 3

Enter the number of connections (new and existing) served by the PWS by type.

Type of Service Connection	Number
Residential (As defined by PWS)	181842
All Other (include dedicated fire lines, dedicated irrigation lines, and PWS-owned facilities such as water and wastewater treatment plants and pumping stations, parks, piers, and docks)	28992
Total Number of Connections	210834

Page 1

Answer the following questions carefully. These answers control your access to pages 2 and 3 for data entry.

1. Does your PWS serve any severe or high-hazard premises or any high-hazard dedicated fire or irrigation lines? Yes No

2. Does PWS serve any high-hazard medical premises? Yes No

- If you answer Yes to both questions, you must enter data in at least one row on page 2 and one row on page 3.
- If you answer Yes to Question 1 and No to Question 2, you must enter data on page 2 only.
- If you answer No to both questions, pages 2 and 3 will be grayed out to prevent data entry.

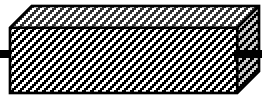
- Count only premises PWS serves water to.
- Report data as accurately as possible. **DOH currently bases CCC compliance actions on this information.**

Premises Isolation Backflow Preventers

- Install preventer at either:
 - Meter or property line
 - An alternate location acceptable to the purveyor usually where service line enters customer's building
- If installed in alternate location, must still function as a premises isolation preventer
- Mandatory for all severe and high-hazard premises per WAC 246-290-490

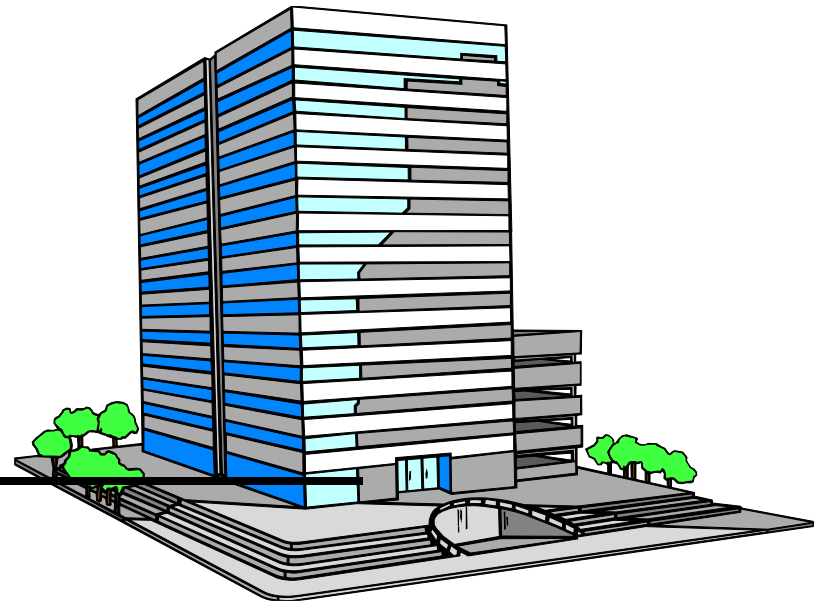
Premises Isolation Requirements

Property Line



**Backflow Assembly
Premises Isolation**

for



**Fixture Protection per
UPC Within Premises**

In-Premises Backflow Preventers

- PWS may rely on only when premises isolation is not required
- Not applicable to severe or high-hazard premises!
- Required by Uniform Plumbing Code (UPC) amended for Washington (WAC 51-56)
- Enforced by Authority Having Jurisdiction (AHJ), usually the local city or county building official

Which is not a High Health Hazard (Table 13) facility?

- A. Hospital
- B. Car Wash
- C. Nuclear Site
- D. Brewery
- E. Wastewater Lift Station

Blue Form Column B (pages 2 and 3)

- In Column B, don't include connections:
 - With DCVAs for premises isolation
 - Where PWS relies solely on fixture prevention or area isolation (no premises isolation)

Type of Severe or High-Hazard Premises or Dedicated Lines [WAC 246-290-490(4)(b)]	Number of Connections at end of 2017			
	A. Being Served Water by PWS ¹ ?	B. With Premises Isolation by AG/RP ² ?	C. With Column B AG Inspected or RP Tested ³ ?	D. Granted Exception from Premises Isolation ?
Agricultural (farms and dairies)	6	2	2	2
Beverage bottling plants (including breweries)				
Car washes				
Chemical plants				
Commercial laundries and dry cleaners				

Blue Form Medical Table (page 3)

- Common question: how should PWS report connections that serve more than one type of medical facility
- Count connection under medical category that poses the highest hazard to water system
- Don't count same connection more than once on Medical Category Table!

Backflow Prevention for Table 13 Premises

Part 3B (Page 2)

Type of Severe or High-Hazard Premises or Dedicated Lines [WAC 246-290-490(4)(b)]	Number of Connections at end of 2017			
	A. Being Served Water by PWS ¹ ?	B. With Premises Isolation by AG/RP ² ?	C. With Column B AG Inspected or RP Tested ³ ?	D. Granted Exception from Premises Isolation ?

Part 3C (Page 3)—Medical High Hazard

Type of High-Hazard Medical Premises [WAC 246-290-490(4)(b)]	Number of Connections at end of 2017			
	A. Being Served Water by PWS ¹ ?	B. With Premises Isolation by AG/RP ² ?	C. With Column B AG Inspected or RP Tested ³ ?	D. Granted Exception from Premises Isolation ?
Hospitals				

Grayed Out Fields

Reduce Blue Form Data Logic Errors

1. Does your PWS serve any severe or high-hazard premises or any high-hazard dedicated fire or irrigation lines? Yes No
2. Does PWS serve any high-hazard medical premises? Yes No

Selecting "No" triggers the website to gray out Medical Premises Table (page 3) to prevent entry of illogical data.

Type of High-Hazard Medical Premises [WAC 246-290-490(4)(b)]	Number of Connections at end of 2017			
	A. Being Served Water by PWS ¹	B. With Premises Isolation by AG/RP ²	C. With Column B AG Inspected or RP Tested ³	D. Granted Exception from Premises Isolation
Hospitals				
Hospitals (include psychiatric hospitals and alcohol and drug treatment centers)				
Facilities for Treatment and Care of Patients Not Located in Hospitals Counted Above				
Same day surgery centers				
Out-patient clinics and offices				
Alternative health out-patient clinics and offices				
Psychiatric out-patient clinics and offices				
Chiropractors with water-connected X-ray equipment				
Hospice care centers				



On Parts 3B and 3C, how do you report premises you consider “high health” hazards in categories not listed on the ASR?

Blue Form Pages 2 and 3 Notes

- Critical to accurately report status of backflow prevention for Table-13 type premises
- DOH uses this data as basis of CCC compliance
- Page 2 Table 13 "Hospital/Medical Facilities" row

Hospitals, medical centers, medical, dental and veterinary clinics, mortuaries, nursing homes, etc., reported on Part 3C page 3 (totals imported from page 3)	0	0	0	0
---	---	---	---	---

- Website imports totals from page 3 for this row
- You can't edit page 2 hospital (grayed out) row
- Edit page 3 values to change display on page 2

Blue Form Pages 2 and 3 Notes (2)

- Remember—Table 13 is not all inclusive!
- Add “Other” rows for high-hazard premises not on Table 13 (like marijuana grow operations)
- **Don’t enter None, N/A, or “0” in “Other” rows if not applicable! Leave blank!**

Blue Form (Pages 2 and 3)

A	B
"Being Served Water by PWS ¹ "	"With Premises Isolation by AG/RP ² "
Count <i>all</i> connections to severe and high-hazard premises served	Count only those Column A connections with premises isolation RPs or air gaps

¹Count multiple connections or parallel installations to the same premises as separate connections.

²Count only connections with premises isolation AGs or RPs. Don't include connections with in-premises preventers only or connections with DCVAs or DCDAs installed for premises isolation. The number in Column B can't be larger than the number in Column A in the same row.

Blue Form Inventory

Part 4A (Page 4)

Backflow Preventer Category and Inspection/Testing Information		Air Gap	RPBA	RPDA	DCVA	DCDA	PVBA	SVBA	AVB
Table 1: Premises Isolation Preventers (include preventers isolating PWS-owned facilities)									
Existing Premises Isolation Backflow Preventers									
1	In service at beginning of 2017 [?]	20	0	0	0	0			
2	Inspected and/or tested in 2017 ¹ [?]	0	0	0	0	0			
3	Failed inspection or test in 2017 [?]	0	0	0	0	0			
New Premises Isolation Backflow Preventers									
4	Installed in 2017 ² [?]	0	0	0	0	0			
5	Inspected and/or tested in 2017 ¹ [?]	0	0	0	0	0			
6	Failed inspection or test in 2017 [?]	0	0	0	0	0			
Premises Isolation Backflow Preventers (existing or new)									
7	Removed from service in 2017 ³ [?]	0	0	0	0	0			
Total Premises Isolation Preventers at End of 2017		20	0	0	0	0	0	0	0

What is the difference between the two backflow assembly testing data tables on page 4?

****BONUS****

Why are the PVBA, SVBA, and AVB greyed out on Table 1?

Blue Form Inventory—Failures

- Failure is any time
 - Assembly doesn't pass at least one field test in reporting year
 - Air gap doesn't pass at least one inspection in reporting year
- Count multiple failures of same assembly as one failure for the reporting year
- Report the failure, even if assembly passes test after cleaning or repairs

Blue Form Inventory—Detectors

- Count each detector assembly only once (don't count bypass separately)
- Count as one test the tests of mainline assembly and bypass assembly
- Count as one failure the failure of:
 - Either the mainline or bypass assembly; or
 - Both the mainline and bypass assemblies
- If you take the entire assembly out of service, count removal once

Blue Form Inventory Notes (Page 4)

- Critical to report testing *failures*, i.e. any time assembly doesn't pass one field test in the reporting year
- Remember—ASRs are public records
- Legislators may use assembly failure rate data to justify dropping annual testing

Which State just passed
legislation to only test backflow
assemblies once every 5-years?

Blue Form Notes (Page 5)

- Part 4B: Other Implementation Activities
 - On-site hazard survey questions—read carefully!

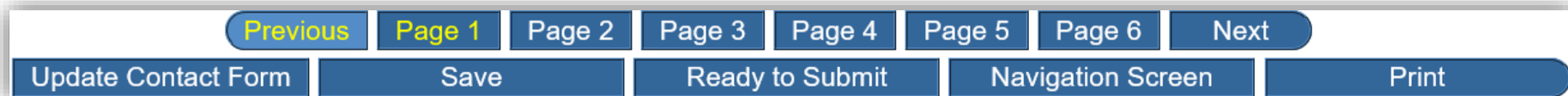
On-site Hazard Surveys			
Did your CCS conduct any on-site hazard surveys during 2017?	<input type="radio"/> Yes <input checked="" type="radio"/> No		
	Service Connection Type		
	New	Existing	Total
* 1. Number of connections surveyed for cross-connection hazards to PWS.	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>
* 2. Number of connections requiring backflow prevention to protect PWS. ^{1,2}	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>

- Part 5: Backflow Incidents, Risk Factors and Indicators
 - WAC requires PWSs to report backflow incidents and complete Backflow Incident Report form
 - Water outage events should include both **planned** and **unplanned** events
 - Expect systems to track information requested

ASR Forms

Save vs. Ready to Submit Buttons

- Click the Save button to save your ASR form as a draft (work in progress)
- Once you've entered all data on an ASR form, click the Ready to Submit button (triggers data checks within the form)



Blue Form

Within Form Data Errors Check

- Click Ready to Submit. If Data Errors Screen appears, click page links to jump to errors

Washington State Department of Health
Environmental Public Health
Office of Drinking Water

Data Errors Screen
Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: **Test System 1** County: **Thurston**

For security reasons, your session will expire in about **29** minutes.

[Help](#) [Logout](#)

Form Validation

Blue Form

- [Page 1](#) • Required fields must be entered. Fill out all fields marked **Required**.
- [Page 2](#) • Required fields must be entered. Fill out all fields marked **Required**.
- [Page 4](#) • Required fields must be entered. Fill out all fields marked **Required**.
- [Page 5](#) • Required fields must be entered. Fill out all fields marked **Required**.

Example Required Fields

Data Error Messages Page 5

Backflow Incidents, Risk Factors, and Indicators during 2017		Number
Backflow Incidents during 2017		
1	Backflow incidents that contaminated the PWS. ⁵	<input type="checkbox"/> Required.
2	Backflow incidents that contaminated the customer's drinking water system only. ⁵	<input type="checkbox"/> ? Required.
Risk Factors for Backflow during 2017		
3	Distribution main breaks per 100 miles of pipe.	<input type="checkbox"/> Required.
4	Low pressure events (<20 psi in PWS distribution system).	<input type="checkbox"/> Required.
5	Water outage events.	<input type="checkbox"/> Required.
Indicators of Possible Backflow during 2017		
6	Total health-related complaints received by PWS. ⁶	<input type="checkbox"/> Required.
7	Received during BWA or PN events. ⁷	<input type="checkbox"/> Required.
8	Received during low pressure or water outage events.	<input type="checkbox"/> Required.
9	Total aesthetic complaints (color, taste, odor, air in lines, etc.).	<input type="checkbox"/> Required.
10	Received during BWA or PN events. ⁷	<input type="checkbox"/> Required.
11	Received during low pressure or water outage events.	<input type="checkbox"/> Required.

How many minimum elements are there in a CCC program plan?

Example Blue Form Data Logic Error Message Page 2

- Website checks for data logic (validation) errors in addition to required fields

Washington State Department of Health
Environmental Public Health
Office of Drinking Water

Data Errors Screen
Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston

For security reasons, your session will expire in about 29 minutes.

Help Logout

Form Validation

Blue Form

- Page 2 • Please fix validation errors in **bulleted list**.
- Page 3 • Required fields must be entered. Fill out all fields marked **Required**.
- Page 4 • Please fix validation errors in **bulleted list**.
- Page 5 • Please fix validation errors in **bulleted list**.

Example Data Logic

Error Messages Pages 4 and 5

• The Air Gap column contains illogical data. Please correct using the messages that pop-up when you tab away from the problem fields.

Backflow Preventer Category and Inspection/Testing Information		Air Gap	RPBA	RPDA	DCVA	DCDA	PVBA
Table 1: Premises Isolation Preventers (include preventers isolating PWS-owned facilities)							
Existing Premises Isolation Backflow Preventers							
1	In service at beginning of 2017 ?	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text"/>
2	Inspected and/or tested in 2017 ¹ ?	<input type="text" value="50"/>	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text" value="10"/>	<input type="text"/>
3	Failed inspection or test in 2017 ?	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text"/>

Message ✕

The number inspected/tested must be less than or equal to the number installed. Please change the value.

Part 4B: Other Implementation Activities in 2017

Complete all cells. Enter zero if not applicable.

• Water use questionnaires must be greater than zero.

Water Use Questionnaires

Did your PWS send any water use questionnaires to customers during 2017? Yes No * Number

Resolve All Within-Form Data Errors

- Complete all **required** fields
- "**Required**" will disappear when you tab away from completed field
- Correct all **illogical** data
- Click **Ready to Submit** again

Repeat Ready to Submit Process until Form Status Changes

Repeat process until form status changes

Washington State Department of Health
Environmental Public Health
Office of Drinking Water

Navigation Screen
Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston

For security reasons, your session will expire in about 27 minutes. [Logout](#)

[Help](#)

Navigation Screen
Blue Form is ready to submit.

CURRENT YEAR: 2017 [View/Print Forms from Past Years](#)

PWS Contact Information Contact Info Last Saved: 4/10/2018 4:00 PM

	Designated CCS/ CCC Program Manager	PWS Manager
Name	Henry Darcy	Julius Weisbach
Email	nathan.ikehara@doh.wa.gov	nathan.ikehara@doh.wa.gov
Phone Number	360-236-3133	360-236-3133

[Update Contact Info](#)

Instructions

Submit All ASR Forms

- When you're done filling out all your forms, select the **Ready to Submit All ASR Forms** button. The website will check your data *within* and *between* forms.

[Ready to Submit All ASR Forms](#)

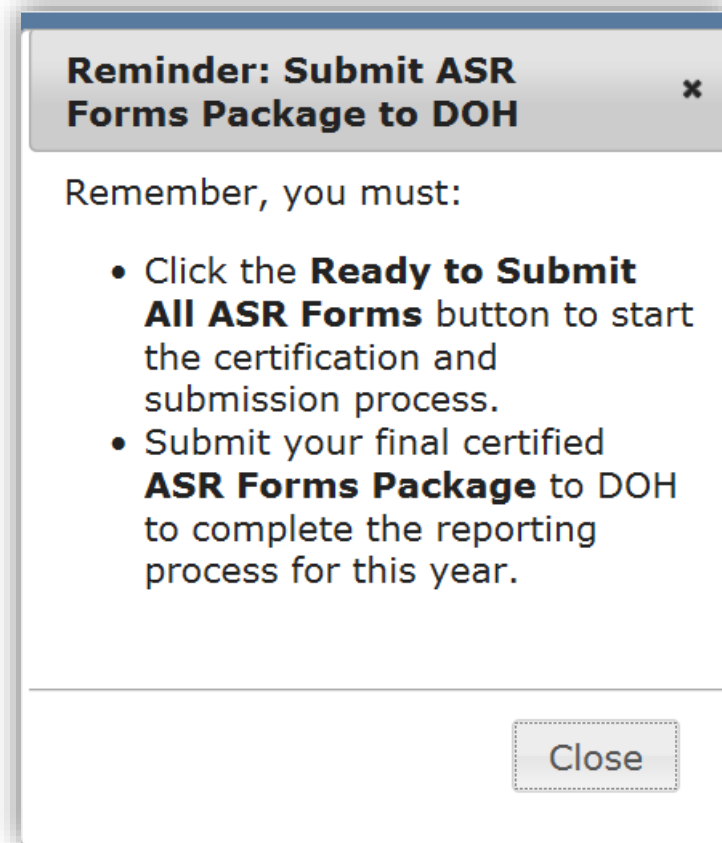
ASR Feedback Report [Print Feedback](#)

Annual Summary Reports

Cross-Connection Control Activities (Blue)
Instructions

[NEW](#) [EDIT](#) [PRINT](#) **Status: Form Ready to Submit** Last Saved: 4/11/2018 11:28 AM

Reminder to Submit ASR Forms “Package” to DOH





Does every PWS need to submit Green and Grey forms?



Break


The Cream Form and the Green Form

- Required Fields
- CCC Written Program Plans
- Exception Examples (good and bad)
- Common Errors
- Resources
- Data Validation

Start a New Cream Form

- On Navigation Screen, click New to start a cream form

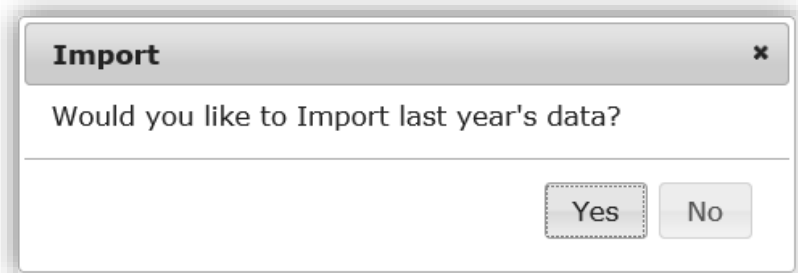
Cross-Connection Control Program Summary (Cream)

Instructions 

NEW **EDIT** **PRINT**

Status: Saved Last Saved: 2/25/2025 11:30 AM

- Click Yes at import prompt and start editing data



The image shows a dialog box titled "Import" with a close button (x) in the top right corner. The main text inside the dialog asks, "Would you like to Import last year's data?". At the bottom right of the dialog, there are two buttons: "Yes" and "No". The "Yes" button is highlighted with a dashed border, indicating it is the recommended or selected option.

CCC Program Summary (Cream)

- Focus: written CCC Program Plan, policy, and procedures
- Program type, compliance options
- CCC responsibilities
- Policies—auxiliary supplies, irrigation, exceptions, etc.
- <https://doh.wa.gov/community-and-environment/drinking-water/water-system-design-and-planning/cross-connection-control-backflow-prevention/cross-connection-control-small-water-systems>

Type of Program

- (f) The purveyor shall ensure that cross-connections between the distribution system and a consumer's water system are eliminated or controlled by the installation of an approved backflow preventer commensurate with the degree of hazard. This can be accomplished by implementation of a cross-connection program that relies on:
 - (i) Premises isolation as defined in WAC [246-290-010](#); or
 - (ii) Premises isolation and in-premises protection as defined in WAC [246-290-010](#).

A. Type of Program Implemented

Type of Program	Check One <input type="radio"/>
Premises isolation only.	<input type="radio"/>
Combination program: reliance on both premises isolation and in-premises prevention.	<input type="radio"/>
In transition from a combination program to a premises isolation only program.	<input type="radio"/>

Why doesn't the Program Type list include a category where the PWS relies solely on an In-Premises Prevention (fixture) type of a CCC Program?

AHJ Coordination

(d) The purveyor shall coordinate with the authority having jurisdiction in all matters concerning cross-connection control. The purveyor shall document and describe the coordination, including delineation of responsibilities, in the written cross-connection control program required in (e) of this subsection.

B. Coordination with Authority Having Jurisdiction (AHJ) on CCC Issues

Indicate the status of coordination with AHJs in your service area. The AHJ is the entity that enforces the Uniform Plumbing Code at the local level. The AHJ is usually your county or city building department. Don't list DOH as an AHJ.

AHJ #	Name of AHJ (City or County Building Department) ¹	PWS		AHJ Declined to Coordinate
		Coordinates with AHJ	Has Written Agreement with AHJ	
1	<input type="text"/> ? <input type="button" value="Add"/> <input type="button" value="Delete"/>	Yes <input type="radio"/> No <input type="radio"/>	Yes <input type="radio"/> No <input type="radio"/>	Yes <input type="radio"/> No <input type="radio"/>

¹ Do not enter an individual's name.


Corrective Action

(h) The purveyor shall take appropriate corrective action as authorized by the legal instrument required by subsection (3)(b) of this section, when:

(i) A cross-connection exists that is not controlled commensurate to the degree of hazard assessed by the purveyor; or

(ii) A consumer fails to comply with the purveyor's requirements regarding the installation, inspection, testing, maintenance or repair of approved backflow preventers required by this chapter.


C. Corrective/Enforcement Actions Available to the Purveyor

Type of Corrective Action/Enforcement Action	Indicate Whether Available	Most Often Used (Check One) 
Purveyor denies or discontinues water service.	Yes <input type="radio"/> No <input type="radio"/>	<input type="radio"/>
Purveyor installs backflow assembly and bills customer.	Yes <input type="radio"/> No <input type="radio"/>	<input type="radio"/>
Purveyor assesses fines (in addition to eliminating or controlling cross connection).	Yes <input type="radio"/> No <input type="radio"/>	<input type="radio"/>
Purveyor tests backflow assembly and bills customer.	Yes <input type="radio"/> No <input type="radio"/>	<input type="radio"/>
Other corrective actions (describe) ¹ : <input type="text"/> <input type="button" value="Add"/>		<input type="radio"/>
<input type="button" value="Delete"/>		

Program Decisions



D. CCC Program Responsibilities

Do *not* include enforcement action related procedures or circumstances.

CCC Program Activity	Responsible Party (Check one per row) 	
	Customer	Purveyor
Hazard Evaluation by DOH-certified CCS	<input type="radio"/>	<input type="radio"/>
Backflow preventer (BP) ownership	<input type="radio"/>	<input type="radio"/>
BP installation	<input type="radio"/>	<input type="radio"/>
BP <i>initial</i> inspection (for proper installation - all BPs)	<input type="radio"/>	<input type="radio"/>
BP <i>initial</i> test (for testable assemblies)	<input type="radio"/>	<input type="radio"/>
BP <i>annual</i> inspection (Air Gaps and AVBs)	<input type="radio"/>	<input type="radio"/>
BP <i>annual</i> test (for testable assemblies)	<input type="radio"/>	<input type="radio"/>
BP maintenance and repair	<input type="radio"/>	<input type="radio"/>

E. Backflow Prevention for Fire Protection Systems

Please remember to enter number of days allowed if you require retrofitting.

PWS coordinates with <i>AHJ</i> on CCC issues for fire sprinkler systems (FSSs)	Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/>
PWS coordinates with <i>local Fire Marshal</i> on CCC issues for FSSs	Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/>
PWS ensures backflow prevention is installed before serving <i>new</i> connections with FSSs	Yes <input type="radio"/> No <input type="radio"/>
PWS requires retrofits to <i>high</i> -hazard FSSs	Yes <input type="radio"/> No. of days allowed: <input type="text"/>  No <input type="radio"/> N/A <input type="radio"/>
PWS requires retrofits to <i>low</i> -hazard FSSs	Yes <input type="radio"/> No. of days allowed: <input type="text"/>  No <input type="radio"/> N/A <input type="radio"/>

Specific Areas

F. Backflow Prevention for Irrigation Systems

Minimum level of backflow prevention required on irrigation systems <i>without</i> chemical addition.	Not Addressed <input type="radio"/> AVB <input type="radio"/> PV/SVBA <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
PWS currently inspects AVBs upon <i>initial</i> installation.	Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/> <input type="radio"/> ?
PWS currently inspects AVBs upon repair, reinstallation or relocation.	Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/> <input type="radio"/> ?

G. Used Water

Does PWS prohibit, by ordinance, rules, policy, by-laws or agreement, the intentional return of used water (e.g. for heating or cooling) into the distribution system?	Yes <input type="radio"/> No <input type="radio"/>
If not prohibited at present, date plan to prohibit use. Please use MM/DD/YYYY format	<input type="text"/>
Current number of service connections returning used water to distribution system	<input type="text"/>

H. Backflow Prevention for Unapproved Auxiliary Water Supplies¹ NOT Interconnected with PWS

Show the **minimum** backflow preventer and type of protection required for service connections having unapproved auxiliary water supplies *when they are NOT interconnected to the PWS*.

Existing service connections ?	None <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> AG <input type="radio"/>
Type of protection required ?	N/A <input type="radio"/> In-premises prevention <input type="radio"/> Premises isolation <input type="radio"/>
New service connections ?	None <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> AG <input type="radio"/>
Type of protection required ?	N/A <input type="radio"/> In-premises prevention <input type="radio"/> Premises isolation <input type="radio"/>

¹An auxiliary water supply is any water supply on or available to the customer's premises in addition to the purveyor's potable water supply.

Portable Connections

I. Backflow Prevention for Tanker Trucks and Temporary Water Connections

<p>Minimum level of backflow prevention (installed on or associated with the truck) required for tanker trucks taking water from PWS.</p>	<p>AG <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> Not Specified <input type="radio"/> Tanker trucks not allowed <input type="radio"/></p>
<p>PWS requires tanker trucks to obtain water at designated fill sites each equipped with permanently installed backflow preventer(s).</p>	<p>Yes <input type="radio"/> (Minimum preventer: DCVA <input type="radio"/> RPBA <input type="radio"/>) <input type="radio"/> ? No <input type="radio"/> N/A <input type="radio"/> No sites provided <input type="radio"/></p>
<p>PWS currently accepts tanker trucks approved by other PWSs without further inspection or testing.</p>	<p>Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/></p>
<p>Minimum level of backflow prevention required for temporary water connections (e.g., for construction sites).</p>	<p>AG <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/> Not specified <input type="radio"/> Temp. connections not allowed <input type="radio"/></p>
<p>PWS provides approved backflow preventer for temporary connections.</p>	<p>Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/> (Temp. connections not allowed)</p>
<p>PWS requires testing each time the temporary connection backflow preventer is relocated.</p>	<p>Yes <input type="radio"/> No <input type="radio"/> N/A <input type="radio"/> (Temp. connections not allowed)</p>



J. Backflow Prevention for Non-Residential Connections

For each category shown, indicate whether PWS has non-residential connections of that type and the **minimum** level of *premises isolation* backflow prevention required (whether or not PWS currently has that type of customer).

Type of Connection	PWS has Customers of this Type	Minimum Premises Isolation Backflow Prevention Required
Commercial ?	Yes <input type="radio"/> No <input type="radio"/>	Not Required <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
Industrial ?	Yes <input type="radio"/> No <input type="radio"/>	Not Required <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
Institutional ?	Yes <input type="radio"/> No <input type="radio"/>	Not Required <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
Other connection types ¹ : <input type="text"/> <input type="button" value="Add"/>		Not Required <input type="radio"/> DCVA <input type="radio"/> RPBA <input type="radio"/>
<input type="button" value="Delete"/>		

¹ Enter detailed description of other connection type. Don't enter "None", "Not Applicable", or "Not Available."

- Commercial: Stores, shopping centers, gas stations, restaurants, office buildings.
- Industrial: Plants for manufacturing aircraft, automotive, electronic, or wood products.
- Institutional: Schools, college campuses, and government buildings.

Decision Points

K. Backflow Prevention for Wholesale Customers

Indicate whether the PWS requires backflow prevention at interties with wholesale customers (other PWSs).

Type of Intertie	PWS has Customers of this Type	Minimum Backflow Prevention Required (if prevention is required, indicate minimum level).	
Existing	Yes <input type="radio"/> No <input type="radio"/>	Not specified / Not required <input type="radio"/>	Minimum required (if applicable): DCVA <input type="radio"/> RPBA <input type="radio"/> ? <input type="radio"/>
		Always required <input type="radio"/>	
		Required only if purchaser's CCC program is inadequate <input type="radio"/>	
New	Yes <input type="radio"/> No <input type="radio"/>	Not specified / Not required <input type="radio"/>	Minimum required (if applicable): DCVA <input type="radio"/> RPBA <input type="radio"/> ? <input type="radio"/>
		Always Required <input type="radio"/>	
		Required only if purchaser's CCC program is inadequate <input type="radio"/>	

L. Exceptions to Mandatory Premises Isolation

PWS's written CCC Program Plan <i>allows</i> system to grant exceptions to mandatory premises isolation per WAC 246-290-490(4)(b)(iii)	Yes <input type="radio"/> No <input type="radio"/> Doesn't Address <input type="radio"/>
PWS currently grants new Exceptions.	Yes <input type="radio"/> No <input type="radio"/>
PWS granted Exceptions in past reporting years.	Yes <input checked="" type="radio"/> No <input type="radio"/>

CCC Software

Part 2: CCC Program Record-Keeping Software

Indicate the type or name of computer software the PWS uses to track CCC records.

BPMS <input type="radio"/>	Cross-Track (BMI) <input type="radio"/>	Tokay <input type="radio"/>	XC2 <input type="radio"/>	Custom developed for or by PWS ¹ <input type="radio"/>
Other commercial software (e.g. Excel) <input type="radio"/>		Other commercial CCC software (specify) <input type="radio"/>		None Used <input type="radio"/>

¹ Do not include commercial CCC software customized for PWS. Indicate these under other commercial CCC software.

Part 3: Comments and Clarifications

- Enter comments to:
 - Explain or clarify information in this report.
 - Describe accomplishments made in this reporting year.
 - Identify challenges faced in this reporting year.
 - Share your goals and objectives for the coming reporting year.
- Delete comments that are no longer valid.

Part # <input type="radio"/>	Date Added	Comments
General	02-25-2025	<div style="border: 1px solid gray; height: 80px; width: 100%;"></div> <p>Characters Left 2500</p>

[Add Row](#)

Cream Form Page 3 Part 1L

Exceptions to Premises Isolation

- PWS must complete rows 1 and 2
- Row 3 will be grayed out/disabled since website completes for you
- You can't change data in row 3!

L. Exceptions to Mandatory Premises Isolation	
PWS's written CCC Program Plan <i>allows</i> system to grant exceptions to mandatory premises isolation per WAC 246-290-490(4)(b)(iii)	Yes <input type="radio"/> No <input type="radio"/> Doesn't Address <input type="radio"/>
PWS currently grants new Exceptions.	Yes <input type="radio"/> No <input type="radio"/>
PWS granted Exceptions in past reporting years.	Yes <input checked="" type="radio"/> No <input type="radio"/>



What is an exception to premises
isolation requirements?

What is an Exception?

- An Exception is a waiver from mandatory premises isolation (with an RPBA or AG) granted to the customer by the purveyor.
- The drinking water rules don't require purveyors to grant exceptions. Instead, under WAC 246-290-490(4)(b)(iii), purveyors have the option to grant exceptions. Purveyors may grant exceptions:
 - On a case-by-case basis to premises that would normally require mandatory premises isolation per Table 13 of WAC 246-290-490
 - To specific high-hazard premises, only if the purveyor's CCS determines that no hazard exists

New Green Form Access Unblocked

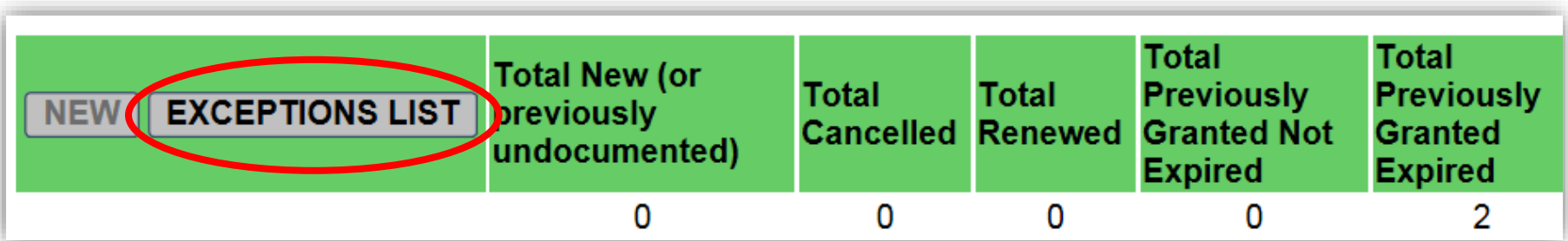
Exceptions to High-Hazard Premises Isolation Requirements (Green)

- This form enables water systems to document [as required in WAC 246-290-490(4)(b)(iii)] an Exception to Mandatory Premises Isolation.
- Only systems granting exceptions must complete this form.
- Complete one new green form for each new Exception your system granted this reporting year.
- Also complete a new green form for any “Active” exceptions your system granted in past reporting year but did not submit to DOH.
- Select the **EXCEPTIONS LIST** button to **Edit, Renew, Cancel, and Print** saved Exception forms.

NEW	EXCEPTIONS LIST	Total New (or previously undocumented)	Total Cancelled	Total Renewed	Total Previously Granted Not Expired	Total Previously Granted Expired
		0	0	0	0	0

Accessing Saved Green Forms

- Access saved green forms from the List of Exceptions
- Click the Exceptions List button on the Navigation Screen to access the List of Exceptions



NEW	EXCEPTIONS LIST	Total New (or previously undocumented)	Total Cancelled	Total Renewed	Total Previously Granted Not Expired	Total Previously Granted Expired
		0	0	0	0	2

Exceptions Report (green)

- Focus: exceptions to mandatory premises isolation
- Must complete **only** if water system grants Exceptions now or granted in past
- Per WAC, PWS must document reason Exception granted
- Case-by-case documentation

Access to New Green Forms

- Access to new green forms on Navigation Screen initially disabled
- New button appears grayed out (disabled)
- Website continues to block access until PWS saves either a:
 - Blue form that reports on page 5 that PWS granted new Exceptions in reporting year; or
 - Cream form that reports on page 3 Part 1L that PWS grants new Exceptions

Your system serves a “mortuary” that only provides funeral services (no embalming or processing of bodies). Do you need to complete a green exception form for this connection?

Edit, Renew, and Cancel Exceptions

- List of Exceptions table displays Exceptions by premises name and shows status
- From this screen, you can:
 - Edit, cancel, and print new Exceptions
 - Can renew, cancel, and print expired Exceptions

Important Reminder! You must **Renew** or **Cancel** all **expired** exceptions to submit your ASR Forms Package.

Available Actions	#	<u>Premises Name</u>	<u>Premises Type</u>	<u>Status</u>	<u>Expiration Date</u>	<u>Last Saved</u>
EDIT CANCEL PRINT	7		Agricultural (farms and dairies)	Renewed		07/27/2016 09:07 AM
RENEW CANCEL PRINT	8		Commercial laundries and dry cleaners	Expired (Assumed)		07/27/2016 09:07 AM
RENEW CANCEL PRINT	9			Expired (Assumed)		07/27/2016 09:07 AM

Address All Expired Exceptions

- Check status on Exceptions List
- “Expired” status means either:
 - Expiration date falls on or before the end of reporting year
 - No date originally entered (field blank)
- Must address expired Exceptions - either:
 - Cancel if no longer valid; or
 - Renew if still valid

Cancelling Exceptions

- To cancel an Exception, click Cancel and complete Exception Cancellation Form
- Complete all fields on form including Cancellation Reason
- On Submit, status on Exceptions List will change to Cancelled and display only in year in which cancelled

Cancellation Form



Exception Cancellation Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston

Help

For security reasons, your session will expire in about 29 minutes.

Logout

Part 1: Instructions

- To cancel an exception, complete and submit this Exception Cancellation form.
- You may **Edit** and **Print** submitted Exception Cancellation forms from the **Exceptions List Screen**.
- If you cancel an exception by mistake, you'll need to complete and submit a **new** Exception form.

Part 2: Premises Information

Name of Premises	ABC Medical
Service Address	12345 Cleanwater Lane
Premises Type or Category – Refer to Table 9 of WAC 246-290-490(4)(b)	Hospitals, medical centers, nursing homes, veterinary, medical and dental clinics, and blood plasma centers

Part 3: Cancellation Reason

Select one. If more than one reason applies, select **Other or More Than One** and describe in Comments.

<input type="radio"/> Out of Business
<input type="radio"/> Change in Use of Premises
<input type="radio"/> No Longer Meets Exception Criteria
<input type="radio"/> Change in PWS Policy
<input type="radio"/> Other or More Than One

Comments	<div style="border: 1px solid black; height: 40px;"></div>
	Characters Left 255
Date Exception Cancelled	11/24/2017 x



Your system serves a chiropractor with digital x-ray equipment. Do you need to complete a green exception form?

Renewing Exceptions

- To renew an Exception, click Renew and complete an Exception Renewal Form
- Make sure you select a Table 13 category from dropdown
- Complete all required fields on form
- Upon Submit, status on Exceptions List will change to Renewed

Renewal Form



Exceptions to High-Hazard Premises Isolation Requirements (Green) Annual Summary Report (ASR) for 2017

PWS ID: **222222** PWS Name: **Test System 2** County: **Thurston**

For security reasons, your session will expire in about **29** minutes.

[Help](#)

[Logout](#)

Saved Renewed Exception.

[Previous](#)

[Page 1](#)

[Page 2](#)

[Next](#)



Part 1: Instructions

- Purveyors who grant exceptions must complete and submit exception forms to the Department of Health (DOH) with the Annual Summary Report per WAC 246-290-490(4)(b)(iii).
- Complete and submit one form for **each** new exception granted in the reporting year.

Exception Status: Renewed from 2014

Part 2: Premises Information

Grey Form and Submitting All Forms

- Required Fields
- Special Rules and Considerations
- Common Errors
- Resources
- Data Validation
- Feedback Report

Severe Health Hazard Form (gray)

- Focus: status of backflow prevention at severe health hazard facilities (SHHFs)
- Must complete, **only** if water system serves one or more:
 - Wastewater treatment plants
 - Nuclear reactor or radioactive material processing plants
- Blue form page 2 data (nuclear, WWTP rows) controls gray form access

Which is the best guidance manual for determining backflow protection requirements at Wastewater Treatment Facilities?

- A. DOH CCC Guidance for Small Water Systems?
- B. USC FCCCHR Manual of CCC?
- C. PNWS-AWWA CCC Manual?
- D. DOE Criteria for Sewage Works Design?

Access New Gray Form

- Access new gray form from Navigation Screen
- Click Yes at Import prompt and start editing data as needed

Backflow Prevention for Severe Health Hazard Facilities (Gray)

- This form requests information on the status of backflow prevention at Severe Health Hazard Facilities (SHHFs) served by your system.
- SHHFs include, but are not limited to, nuclear facilities and wastewater treatment plants.
- Only systems serving SHHFs must complete this form.
- You must complete and submit this form based on your blue form data.

NEW	EDIT	PRINT	Status: Not Started	Last Saved:		
				WWTP	Nuclear-Related	Other
			Facilities	0	0	0
			Connections	0	0	0

Gray Form Improvements

Multiple Connections/Facility



Backflow Prevention for Severe Health Hazard Facilities (Gray) Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston

Help

For security reasons, your session will expire in about 29 minutes.

Logout

Part 1: Backflow Prevention Status

- Describe the backflow prevention status at the end of the reporting year for each wastewater treatment plant and nuclear facility your system serves.
- If you serve more than one severe health hazard facility, click the "Add Facility" button to display another facility data entry box.
- If you serve more than one connection to the same facility, click the "Add Connection" button to display another connection row for that facility.
- You may add as many facilities and connections as needed.
- To update this form, you may delete facilities and connections which are no longer served.

A screenshot of the web-based form interface. At the top, a tab labeled "Facility 1 of 1" is circled in red. Below it, a form contains several input fields: "Facility Name" (Glow 1), "Physical Address" (Radioactive Lane), "City" (Richland), "Zip" (98765), "NPDES Permit#" (12345678), and "Facility Type" (Wastewater Treatment Plant (WWTP) with a dropdown arrow). A large text area for "Facility Comments" is empty. Below the form, a status bar shows "Characters Left 1024" and an "Add Facility" button. At the bottom of the page, a tab labeled "Facility 1 Connection 1 of 3" is also circled in red.

'Ideal' Situation

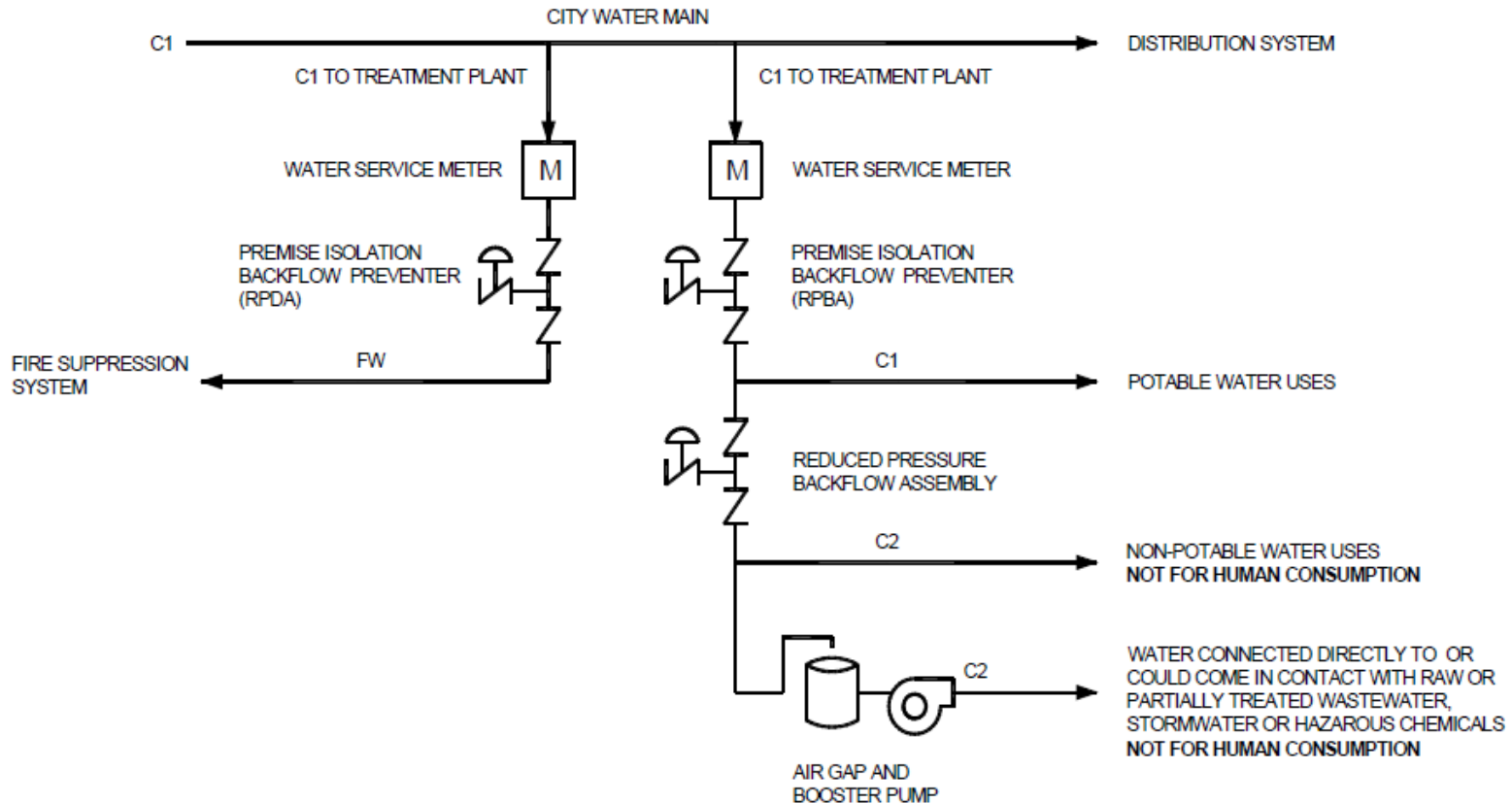


Figure G2- 1 Cross Connection Control Overview

Complicated Situation

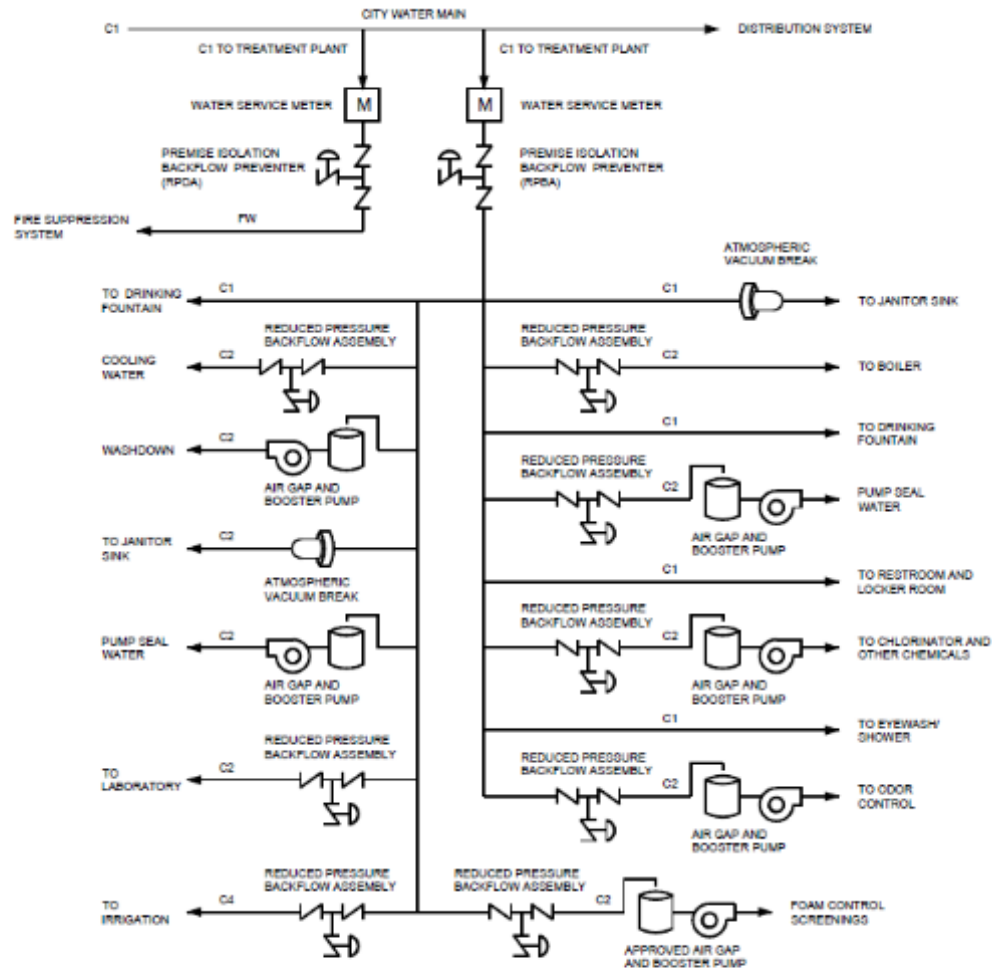


Figure G2- 4 Complex Cross-connection Control Overview

Is a hose bib considered an “in-plant air gap” if it doesn’t have a hose attached to it?

Check ASR Form Status

- When you're done filling out required ASR forms, check Navigation Screen
- When each required ASR form's status = Ready to Submit, start the submit process
- Click Ready to Submit All ASR Forms on the Navigation Screen

Submit All ASR Forms

- When you're done filling out all your forms, select the **Ready to Submit All ASR Forms** button. The website will check your data *within and between* forms.

Ready to Submit All ASR Forms

Resolve Between-Form Data Errors

- If Data Errors Screen displays, resolve between-form data logic issues
- Change data on either or both forms identified on the Data Errors Screen
- Repeat Ready to Submit All ASR Forms process until you resolve all between-form data errors
- See next slides for examples

Data Logic Between Forms (blue/gray example)

- Data entry in either of these rows on page 2 of the blue form triggers a gray form requirement. User must submit a gray form to complete the ASR submission process.
- On gray form, PWS must report 4 connections: 1 in nuclear-related category and 3 in WWTP category

Dedicated irrigation systems using purveyor's water supply and chemical addition ⁴			
Laboratories			
Metal plating industries			
Petroleum processing or storage plants			
Piers and docks			
Radioactive material processing plants or nuclear reactors	1		
Survey access denied or restricted			
Wastewater lift/pump stations (non-residential only)			
Wastewater treatment plants	3		
Unapproved auxiliary water supply interconnected with potable water supply			

Between Form Data Error Example

Cream/Blue

• You have reported granting one or more new Exceptions on page 5 part 4B of the blue form, but have selected "No" on cream form section L for "PWS currently grants new Exceptions". This is a data logic error that must be corrected."

[Blue Form Page 5](#)

[Cream Form Page 3](#)

- Click on form page links to assess problem
- Correct one or both forms to fix the data logic error(s) between forms
- Click Ready to Submit on corrected form(s) and Ready to Submit All ASR Forms again




On a scale of 1-10, how frustrating
are data validation checks?

ASR Forms Package

Certification/Submission Screen

- Designated CCS must certify ASR Forms Package
- Type name in certification statement box and complete both checkboxes (all required fields)
- Click Submit ASR Forms Package button
- Forms Package Submission Confirmation Screen will display with Congratulations message
- Save or print final forms for PWS records

Certification and Submission Screen



Washington State Department of Health
Environmental Public Health
Office of Drinking Water

ASR Forms Package Certification and Submission Screen Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: Test System 1 County: Thurston

For security reasons, your session will expire in about 29 minutes.

[Help](#) [Logout](#)

ASR Forms Package Certification and Submission Screen

CURRENT YEAR: 2017 [View/Print Forms from Past Years](#)

You're ready to certify and submit your ASR Forms Package to the Office of Drinking Water for this reporting year.

Notice!

Per WAC 246-292-033(2)(f), a DOH-certified Cross-Connection Control Specialist (CCS) must complete and sign the purveyor's CCC-related reports including the Annual Summary Reports (ASRs).

To complete the ASR certification and submission process:

1. Type your name in the certification statement box.
2. Affirm the certification statement by clicking **both** checkboxes.
3. Click the **Submit ASR Forms Package** button to submit your certified ASR forms to the Office of Drinking Water.

I, , certify that:

I'm currently a DOH-certified CCS and the water system's designated CCS/CCC Program Manager.

and

The information in these ASR forms is true, complete, and accurate to the best of my knowledge.

[Submit ASR Forms Package](#)

Forms Package Submission Confirmation Screen

The screenshot shows a web interface for the Washington State Department of Health. The header includes the department's logo and name. The main title is "ASR Forms Package Submission Confirmation Screen Annual Summary Report (ASR) for 2017". Below this, it displays "PWS ID: 111111 PWS Name: Test System 1 County: Thurston". A security notice states "For security reasons, your session will expire in about 29 minutes." There are "Help" and "Logout" buttons. A blue navigation bar contains the text "ASR Forms Package Submission Confirmation Screen". Below this, it says "CURRENT YEAR: 2017" and has a "View/Print Forms from Past Years" button. The main content area features a large blue heading: "Congratulations! You've successfully certified and submitted your ASR Forms Package for this reporting year." This is followed by a bulleted list of instructions: "Save (or print) copies of your final certified ASR forms for your water system files using the Print buttons on the Navigation Screen.", "If you need to change one or more of your submitted ASR forms:", "Click the Unsubmit All ASR Forms button on the Navigation Screen.", "Use the Edit buttons to access the form(s) you need to change.", "When you're finished editing each form, click Ready to Submit.", and "When you've finished editing all your form(s), click the Ready to Submit All ASR Forms button to complete the certification and submission process." At the bottom left, there is a "Navigation Screen" button.

Washington State Department of Health
Environmental Public Health
Office of Drinking Water

ASR Forms Package Submission Confirmation Screen
Annual Summary Report (ASR) for 2017

PWS ID: 111111 PWS Name: **Test System 1** County: **Thurston**

For security reasons, your session will expire in about **29** minutes. [Logout](#)

[Help](#)

ASR Forms Package Submission Confirmation Screen

CURRENT YEAR: **2017** [View/Print Forms from Past Years](#)

Congratulations! You've successfully certified and submitted your ASR Forms Package for this reporting year.

- Save (or print) copies of your final certified ASR forms for your water system files using the **Print** buttons on the **Navigation Screen**.
- If you need to change one or more of your submitted ASR forms:
 - Click the **Unsubmit All ASR Forms** button on the **Navigation Screen**.
 - Use the **Edit** buttons to access the form(s) you need to change.
 - When you're finished editing each form, click **Ready to Submit**.
 - When you've finished editing all your form(s), click the **Ready to Submit All ASR Forms** button to complete the certification and submission process.

[Navigation Screen](#)

- Remember to save or print copies of final certified ASR forms for your PWS files



On a scale of 1-10, how happy are you to be done with the ASR?

ASR Feedback Report

- Reports as an attachment to the submission confirmation email and available on ASR Website
- Used by utilities to correct errors in their reports
 - Unsubmit button allows you to go back to fix errors
 - Must go through “ready to submit” process again
- Intended to help utilities and Department of Health staff evaluate the effectiveness of Cross-Connection Control program efforts

ASR Feedback Report *(Continued)*

- Displays historical annual data for:
 - Status of Written CCC Program
 - CCC for Severe Health Hazard Facilities
 - CCC for High-Hazard Premises
 - Backflow Preventer Inspection and Testing Data
 - Hazard Surveys
 - Backflow Incidents, Risk Factors, and Indicators

Status of Written CCC Program

Reporting Year	Year Last Updated	Percentage of Elements in the Written Program	Percentage of Elements Implemented
2023	01/01/2021	100%	100%
2022	01/01/2021	100%	100%
2021	01/01/2021	100%	100%
2020	05/18/2006	100%	100%
2019	05/18/2006	100%	100%

PWS's are expected to have complete written programs and full implementation (WAC 246-290-490(3)). Written CCC Program must be updated at least every 10 years.

CCC for Severe Health Hazard Facilities

Reporting Year	Number Served	Protected	Unprotected	Percent Protected
2023	5	4	1	80%
2022	5	4	1	80%
2021	5	4	1	80%
2020	5	4	1	80%
2019	4	4	0	100%

PWS's are expected to have 100% protection of Severe Health Hazard Premises (WAC 246-290-490(4)).

CCC for High-Hazard Premises

Reporting Year	Number Served	Protected by AG or RP	Exceptions Granted	Unprotected	Percent Protected
2023	1181	956	95	130	88%
2022	1135	933	91	111	89%
2021	1076	887	85	104	89%
2020	1014	778	78	158	83%
2019	798	579	46	173	76%

PWS's are expected to have 100% protection of High Hazard Premises (WAC 246-290-490(4)).

Backflow Preventer Inspection and Testing Data

Reporting Year	Number of Assemblies	Assemblies Tested	New Percentage Tested and Inspected
2023	36133	31148	86%
2022	35365	31029	87%
2021	34610	29705	85%
2020	32848	29034	88%
2019	31537	29148	92%

Inspection and testing of backflow assemblies, air gaps, and AVB's is vital for proper operation and protection (WAC 246-290-490(7)). Public Health performance goal is 100% testing.

Hazard Surveys

Reporting Year	Number of Connections	On-Site Surveys	Questionnaires	Percentage of Connections Evaluated
2023	210834	540	0	1%
2022	212956	540	0	1%
2021	215593	381	0	1%
2020	211988	378	0	1%
2019	210527	860	0	1%

Periodic hazard evaluations are vital to ensure backflow protection is commensurate to the degree of hazard (WAC 246-290-490(3)(c)). Hazard survey frequency is specified in the CCC Program.

Backflow Incidents, Risk Factors, and Indicators

Reporting Year	Backflow Incidents	Main Breaks / 100 Miles	Low-Pressure Events	Water Outages
2023	0	4.50	369	369
2022	0	4.50	369	369
2021	0	6.90	377	377
2020	0	4.81	301	301
2019	1	6.70	270	270

Increased frequency of backflow incidents, risk factors, and indicators may determine changes in maintenance practices or operational strategies.

You received your feedback report and realize you made a reporting error. Can you go back and fix the problem?

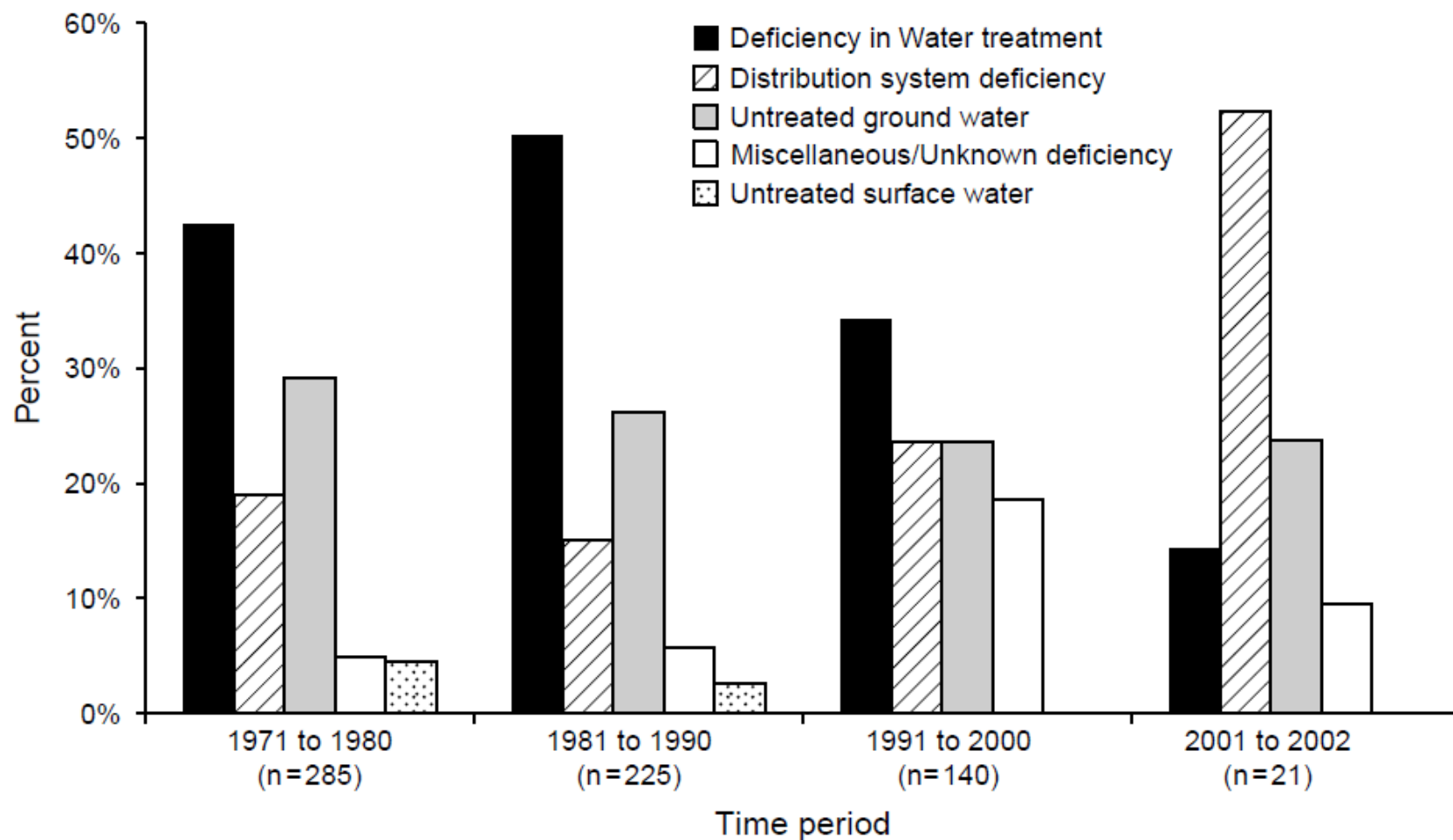
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Break

Review, Compliance, and Questions

- 2023 ASR Data
- Historical Compliance
- Current Compliance Activities
- Expanding Reporting
- Future of CCC
- Questions

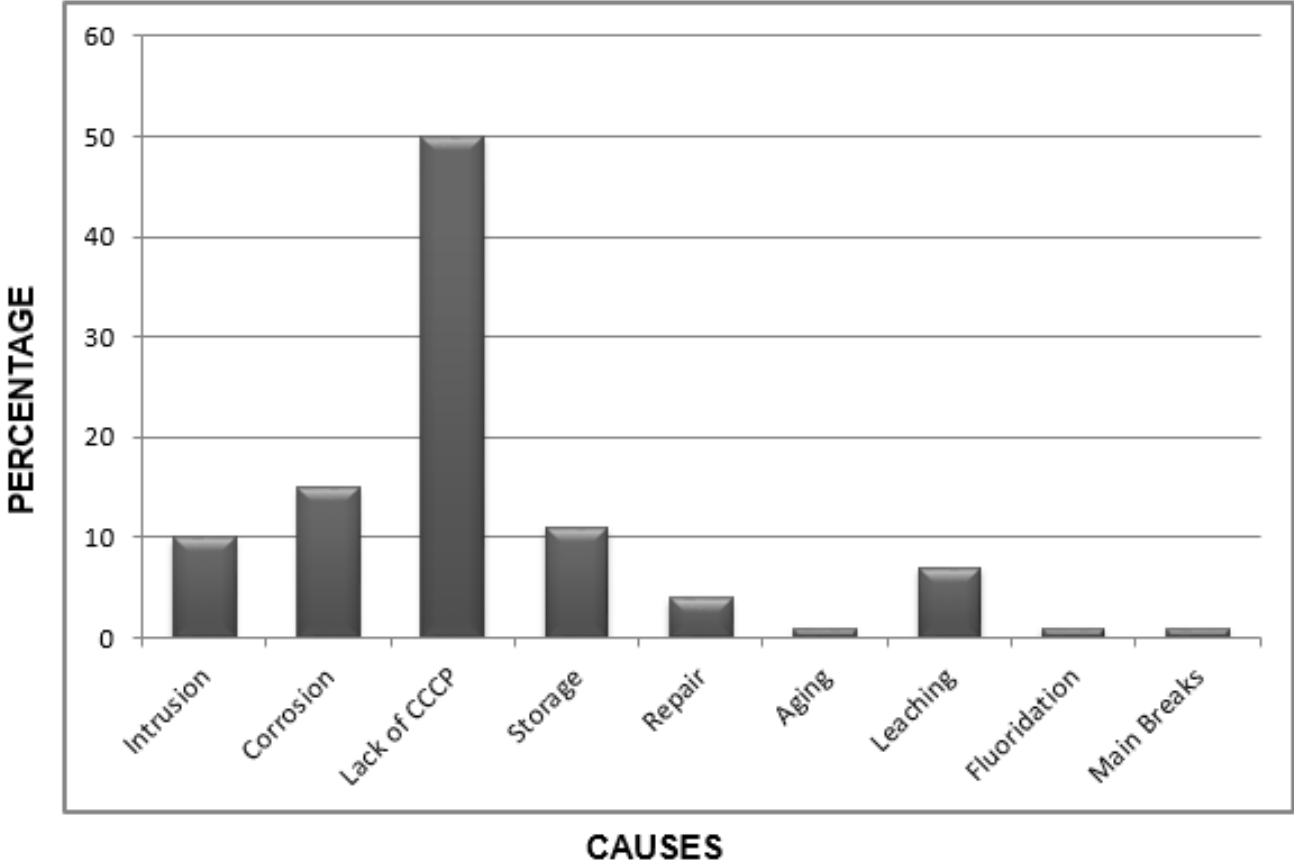
Waterborne Disease



M. F. Craun *et al.* | Waterborne outbreaks reported in the United States

CCC Concerns

CAUSES OF DISTRIBUTION SYSTEM OUTBREAKS
(1981-2002)



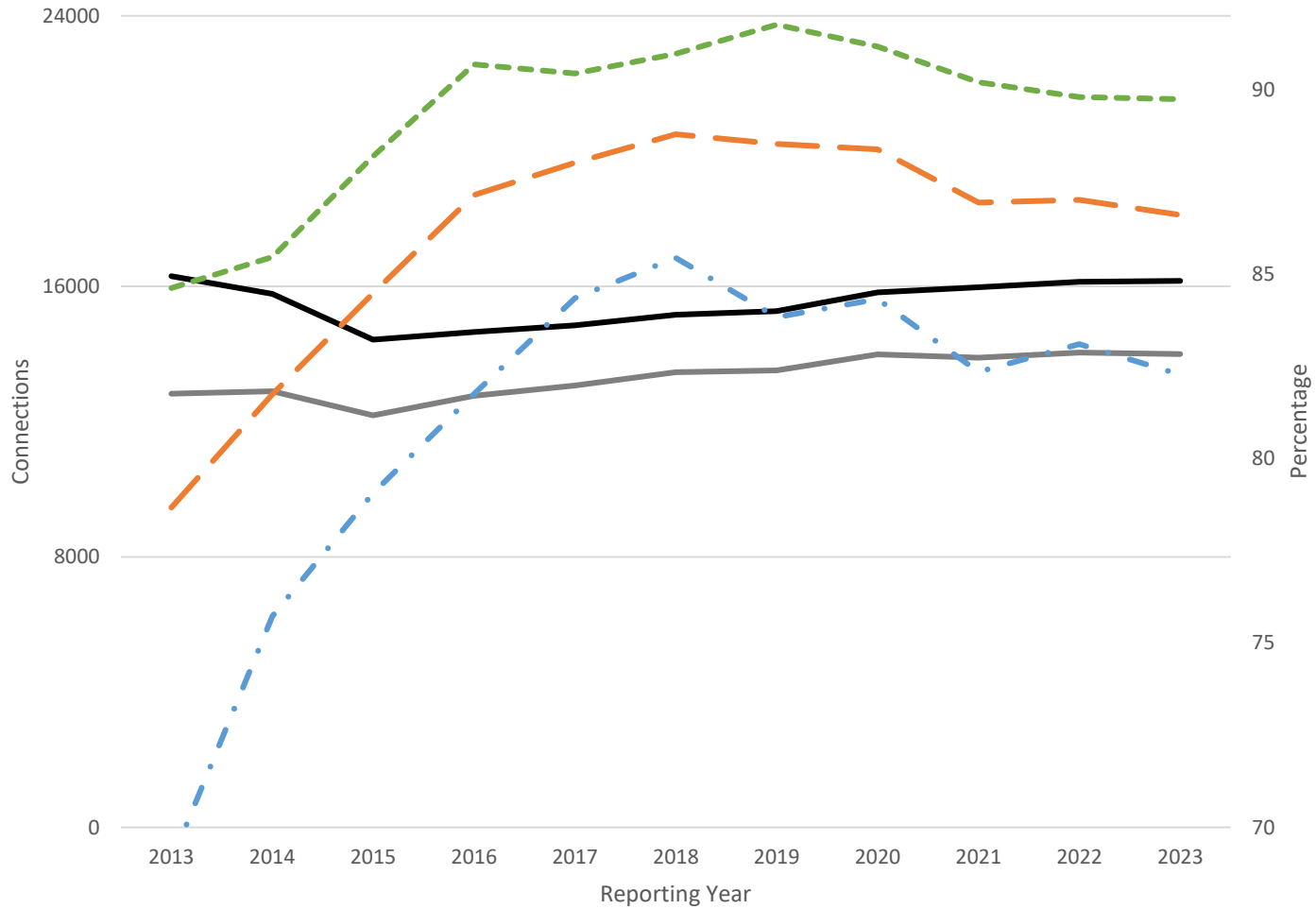
2023 ASR Data

- All 247 systems over 1,000 connections submitted. >5 million people/>75% of population
- 1,839 high cross connection hazard facilities without premise isolation (1,668 in 2019)
- 5 systems reported not having a CCS.
- 23 Systems are Premises Isolation Only (25 in transition)
- 107 Improper Connections to WWTPs.

Fun Facts

- 24 systems reported performing their own backflow assembly testing.
- We expect more systems to trend in this direction as it becomes more challenging to work with customers to implement their CCC programs.
- We're looking to create a simplified ASR for smaller systems and gradually move the reporting number down to 100 or more connections

CCC Historical Trends



— Total High Hazard Connections — Total High Hazard Protected - - - Percent Protected General
- . . Percent Protected Medical - . . Total Percentage Protected

Table 4: Backflow Assembly Testing Data

Device	Total	% Tested	% Failed
Air Gap	751	41.0	4.1
RPBA	88,116	83.7	9.0
RPDA	945	68.4	8.0
DCVA	279,555	82.4	3.7
DCDA	17,262	86.0	4.5
PVBA	5,011	59.0	6.5
SVBA	485	73.4	13.8
AVB	1,192	18.9	0
2023 Total	393,317	82.31%	5.00%
2022 Total	376,417	76.11%	4.18%
2021 Total	382,412	80.10%	4.32%
2020 Total	368,176	81.62%	4.16%
2019 Total	351,849	85.66%	4.40%
2018 Total	332,884	85.31%	5.53%

2025 High Health Hazard Facilities

- Radioactive/nuclear facilities
- Wastewater treatment plants
- Wastewater pump/lift stations
- Premises with both potable and reclaimed water
- Hospitals
- Day surgery facilities
- Childbirth centers
- Kidney dialysis centers
- Blood and plasma centers
- Mortuaries
- Morgues and autopsy
- Unapproved auxiliary water supplies interconnected
- Dedicated irrigation lines with chemical addition

2026

- Outpatient clinics
- Laboratories
- Veterinarian hospitals and clinics
- Fire protection using chemicals or unapproved auxiliary supplies
- Chemical plants

2027

- Dental clinics
- Food processing facilities
- Beverage bottling plants
- Survey restricted or denied
- Metal plating industries

2028

- Chiropractors
- Alternate Health clinics
- Other medical facilities
- Residential treatment facilities
- Petroleum processing and storage

2029

- Piers and docks
- Commercial laundries/dry cleaners
- Car washes
- Hospice care facilities
- Other

2030

- Agriculture and farms
- Boarding homes
- Nursing homes
- Psychiatric clinics
- Film processing facilities

Bringing in Smaller Systems

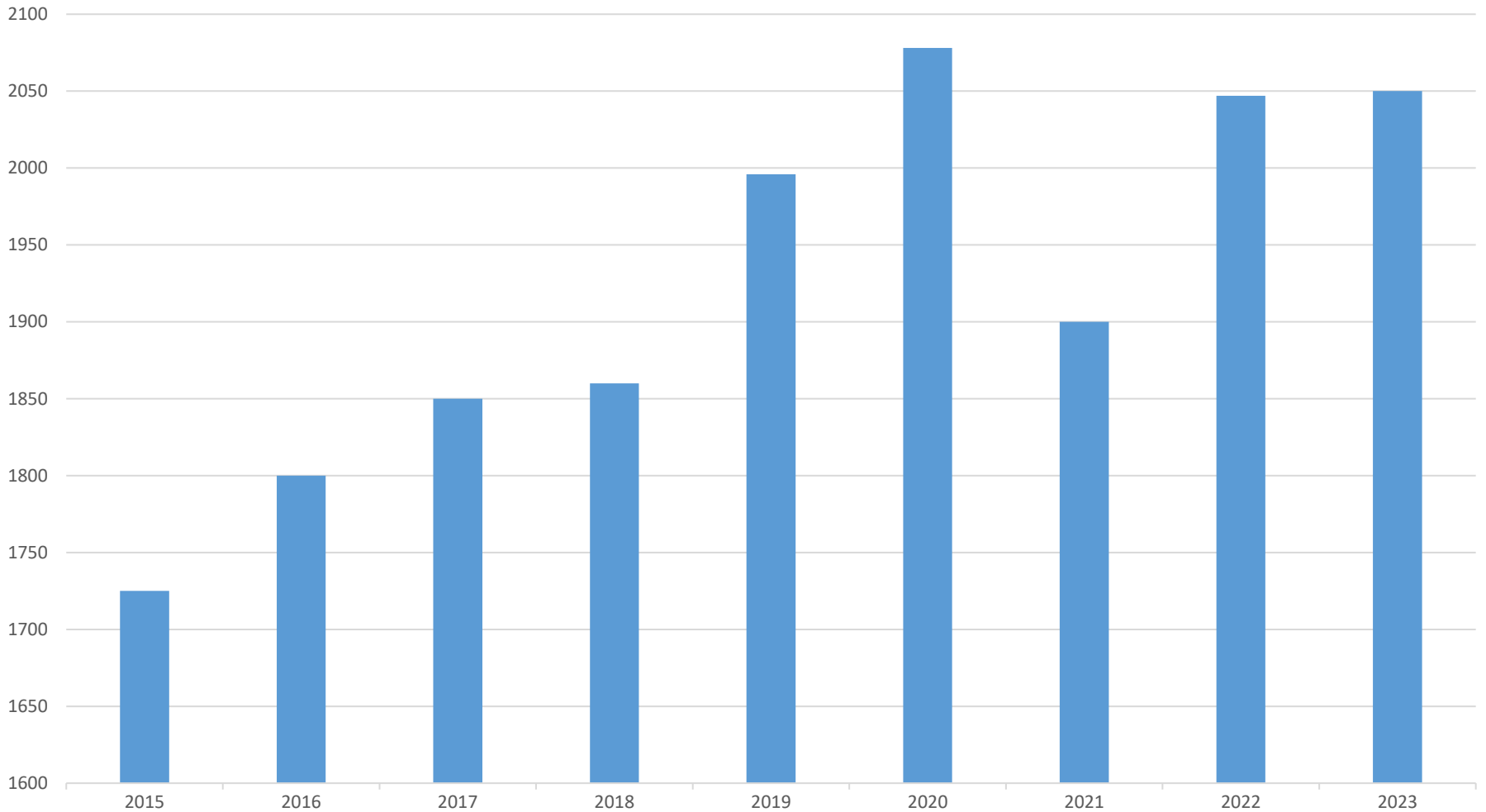
Notification, Submittal and Compliance Schedule for New ASR Systems

System Size (connections)	# of PWSs	1-Yr Advance Notice of	Submit ASR	Informal Warning	Table 9 Compliance
750-999	45	2018	2019	2020	2021
500-749	75	2019	2020	2021	2022
250-499	155	2020	2021	2022	2023
100-249	360	2021	2022	2023	2024
Total	635				

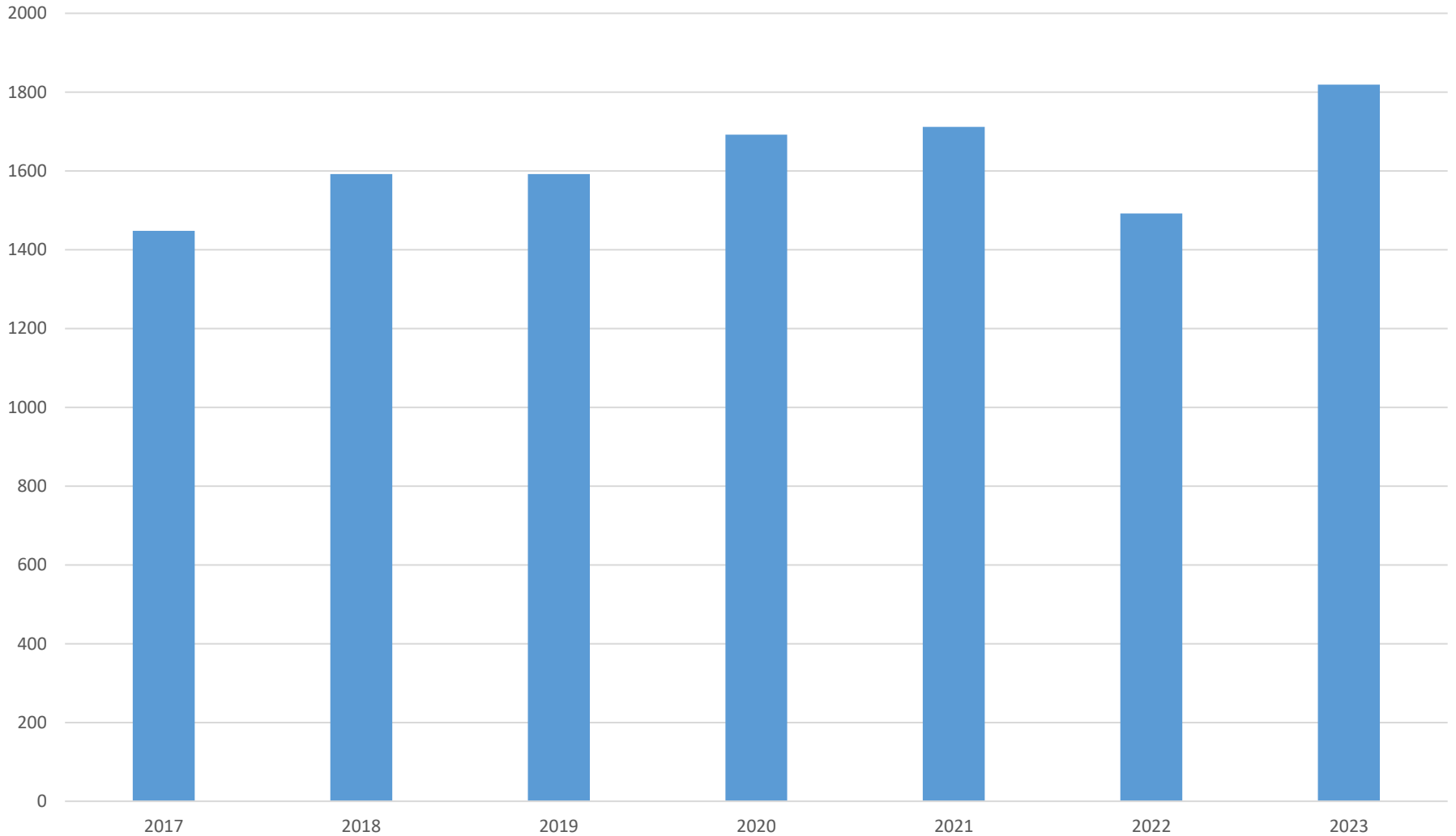
The Future

- Reclaimed Water
- We currently have ~3,900 certified operators and ~2,000 backflow assembly testers
- ~300 new certified operators in 2024
- We expect to lose ~700 operators next week
 - 210 certified operators failed to renew for 2024
 - 228 certified operators failed to renew for 2023
 - 572 certified operators failed to renew for 2022
- >50% certified operator turnover in the last 4 years.

Cross-connection Control Specialist



Backflow Assembly Testers



The “New” Expectations

- More regulations (PFAS, Pb/Cu, Manganese, cyanotoxins, Microplastics, Pharmaceuticals)
- Changing populations (more people, more problems)
- Social Media
- Litigation society
- Doing more with less
- Data Management

The “New” Decision Makers

- Don't understand licensing and certification challenges and struggle with long-term planning
- Slow to respond to salary needs; industry is unwilling or unable to prioritize salary demands
- May not have the baseline knowledge or background for the position
- Good documentation is required if you're being told “we don't do that”

“New” CCC Plans and Policies

- Should be updated every 5-years
- Rules can't address everything
 - Unapproved Auxiliary Water Supplies, Premises Isolation Only, AVB's for Irrigation, Assembly Installation Requirements, Corrective Actions for Non-Compliance, Periodic Hazard Re-Surveys, Mobile Backflow Assemblies
- AHJ Agreements
- Backflow Incident Response Plan

QUESTIONS?

Contact Information



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doh.wa.gov/DrinkingWater



handle: WADeptHealth