



Florissant Water and Sanitation District

P.O. 565

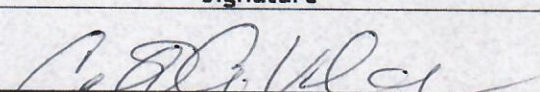
Florissant, CO 80816

APPENDIX A: Florissant WSD Backflow Prevention and Cross-connection Control BPCCC Program

Purpose

This Backflow Prevention and Cross-connection Control Program outlines how the Florissant WSD will implement its written BPCCC program and achieve compliance with Regulation 11 and Appendix G of the Florissant WSD Rules & Regulations.

Other potentially applicable backflow prevention and cross-connection control requirements are specified in Article 1-114 and Article 1-114.1 of Title 25 of the Colorado Revised Statutes and in the Colorado Plumbing Code. The department has developed [Safe Drinking Water Program Policy 7](#) to assist public water systems achieve compliance with Regulation 11.

Public Water System Name & PWSID:	Florissant WSD CO0160175	
Public Water System Owner:	Florissant WSD	
BPCCC Administrative Contact:	Catherine Valdez	
Address:	P.O. Box 565	
	Florissant, CO 80816	
Email:	Catherine Valdez <cannvaldez35@outlook.com>	
Phone:	(719) 660-1599	
Signatures of Owner or Administrative Contact:		
Effective Date	Name	Signature
09/14/2021	Catherine Valdez	

This BPCCC program will include and specify information regarding how the Florissant WSD identifies cross connections, performs surveys, and controls identified cross connections. This BPCCC program also address how the Florissant WSD will require that backflow prevention assemblies and methods be tested and inspected annually, how this supplier will track the installation, maintenance, and testing of assemblies and methods and how the Florissant WSD will ensure that assemblies are tested by a *Certified Cross-Connection control Technician (Regulation 11.37(1)(b))*.

****This program must be kept on file for review by the department. It can be revised by the department as necessary.



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Backflow Prevention and Cross-connection Control Program
CDPHE Notification

If the Florissant WSD becomes aware of a suspected or confirmed backflow contamination event, the Florissant WSD must notify and consult with the department on any appropriate corrective measures no later than 24 hours after learning of the backflow contamination event. The notification should be made to the 24-hour Environmental Release and Incident Report Hotline at 1-877-518-5608.

When reporting the event, please have available the as much of the following information as possible:

- Date and time of event.
- Location of event.
- Type of threat or event.
- Public Water System Name and Identification Number.
- Water suppliers contact name and phone number.
- Method of discovery (consumer complaint, witness, perpetrator, employee report);
- Response actions taken (water quality parameter testing, isolation of affected water);
- Recovery actions taken.
- Notifications made (customers, law enforcement, news media, etc.).
- Assessment of threat, if possible.

Regulation 11.39(7) requires that the Florissant WSD notify the department within 48 hours in any instance the Florissant WSD becomes aware of any backflow prevention and cross-connection control violation and any backflow prevention and cross-connection control treatment technique violation specified in Regulation 11.39(6).

Such notifications to the department can be written, verbal, or made by other means. The department can be notified via telephone at 303.692.2000 and contacting the department's Water Quality Control Division's backflow prevention and cross connection control specialist. The department can also be notified via the Drinking Water Portal sent to the attention of the backflow prevention and cross-connection control specialist. The Drinking Water Portal can be found online at:

<https://wqcdcompliance.com/login>

(i) Florissant WSD Process for conducting surveys.

The Florissant WSD ORC is tasked with identifying all non-single-family connections to the Florissant WSD water distribution system.

Once identified as a non-single-family service connection the ORC will inspect such non-single family service connection for any possible cross connection that may risk backflow into the Florissant WSD water distribution system. The Florissant WSD ORC will use the attached cross connection survey form to determine if a cross connection is present and what type of cross connection control device will be required to control the cross connection. (See Attachment 1)

The Florissant WSD ORC will inspect the water and wastewater treatment facilities at least once annually for any possible uncontrolled cross connections.

(ii) Florissant WSD Legal authority to perform a survey of a customer's property to determine whether a cross connection is present unless the supplier controls all non-single-family residential connections to the public water system with the most protective backflow prevention assembly or backflow prevention method.

Ordinance (attach copy) User Agreements (attach copy) Other - explain below

The Florissant WSD is a title 32 Special District under Colorado Statute Title 32. Title 32 Special Districts use Rules and Regulations for managing their water and wastewater enterprises. (See Florissant WSD Rules & Regulations Appendix G)

(iii) Florissant WSD Process to select a backflow prevention assembly or backflow prevention method to control a cross connection.

The Florissant WSD uses industry standards outlined in manuals such as the *Colorado Cross-Connection Control Manual*, the *EPA Cross-Connection Control Manual* and the *10th Edition Manual of Cross-Connection*

Control (USC Manual) to evaluate whether the installation of a backflow prevention assembly or backflow prevention method is appropriate. (See Attachment 1)

(iv) Florissant WSD Legal authorities to install, maintain, test, and inspect backflow prevention assemblies and/or backflow prevention methods and/or require customers to install, maintain, test, and inspect backflow prevention assemblies and/or backflow prevention methods.

Ordinance (attach copy) User Agreements (attach copy) Other - explain below

The Florissant WSD is a title 32 Special District under Colorado Statute Title 32

Title 32 Special Districts use Rules and Regulations for managing their water and wastewater enterprises. (See Florissant WSD Rules & Regulations Appendix G)

(v) Florissant WSD Process to track the installation, maintenance, testing, and inspection of all backflow prevention assemblies and backflow prevention methods used to control cross connections.

The Florissant WSD ORC will use the outline in Attachment 2 to annually track the installation, maintenance, testing, and inspection of all backflow prevention assemblies and backflow prevention methods used to control cross connections attached to the Florissant WSD water distribution system.

(vi) The process the Florissant WSD will use to ensure backflow prevention assemblies are tested by a Certified Cross-Connection Control Technician.

- i. To be considered adequate by the Florissant WSD, test reports used to document compliance with Appendix A The Florissant Backflow Prevention and Cross-connection Control BPCCC Program must include all of the following information and be submitted to the district by September 30th of each calendar year:

Assembly or method information:

- a. Assembly or method type.
- b. Assembly or method location.
- c. Assembly make, model and serial number;
- d. Assembly size.
- e. Test date; and,
- f. Test result (pass/fail).

Certified Cross-Connection Control Technician information:

- a. Certified Cross-Connection Control Technician certification agency.
 - b. Certification number.
 - c. Certification expiration date or statement that certification is current.
 - d. As an alternative to a-c, suppliers may provide documentation of an alternative validation process such as electronic login to reporting software where only current, certified cross-connection control technicians (or their companies) are given a login.
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Attachment 1

Florissant WSD Cross Connection Identification Survey Form.

Date:		Time:		Surveyor Name:	
Site Name:			Site Address:		
Account Number:					
Site Contact:		Phone Number:		Alt. Phone:	
Business Type:					
Owner/Manager:			Mailing Address:		
Phone Number:		Alt. Phone:			
E-Mail Address:				Fax Number:	
DOMESTIC Meter Number:		Size:			
Location:					
Make:		Model:		SN:	
Description:					
Comments:					
FIRE SUPPRESSION SYSTEM:		Size:			
Location:					
Make:		Model:		SN:	
Description:					
Comments:					
IRRIGATION SYSTEM:		Size:			
Location:					
Make:		Model:		SN:	
Description:					
Comments:					
PROCESS Description:		Size:			
Location:					
Make:		Model:		SN:	
Description:					
Comments:					
PROCESS Description:		Size:			
Location:					
Make:		Model:		SN:	
Description:					
Comments:					

Appropriate Assembly or Method for an Identified Contaminant

The Florissant WSD uses industry standards outlined in manuals such as the *Colorado Cross-Connection Control Manual*, the *EPA Cross-Connection Control Manual* and the *10th Edition Manual of Cross-Connection Control* (USC Manual) to evaluate whether the installation of a backflow prevention assembly or backflow prevention method is appropriate. Such industry standards include:

Assembly or Method Type	Abbreviation	Typical Appropriate Uses (Note: see also Section 4.5 Site-
Testable Assemblies		
Reduced Pressure Zone Backflow Prevention Assembly	RPZ	Appropriate for any identified contaminant except direct connections to sewer or installations which may impair the integrity of the assembly to function as designed.
Reduced Pressure Zone Fire Protection Backflow Prevention Assembly	RPF	Appropriate for cross connections to fire suppression systems.
Reduced Pressure Zone Detector Fire Protection Backflow Prevention Assembly	RPD	
Double Check Backflow Prevention Assembly	DC	Appropriate for cross connections to fire suppression systems except when upstream of a chemical other than food grade glycerin.
Double Check Fire Protection Backflow Prevention Assembly	DCF	
Double Check Detector Fire Protection Backflow Prevention Assembly	DCD	
Pressure Vacuum Breaker Backflow Prevention Assembly	PVB	Appropriate for any identified contaminant except direct connections to sewer or installations which may impair the integrity of the assembly to function as designed. Not appropriate for connections subject to backpressure.
Spill-Resistant Vacuum Breaker	SVB	
Colorado Plumbing Code	CPC	Appropriate for Backflow Prevention Assemblies or Methods installed in accordance with the most recent version of the CPC.
Methods		
Air Gap	AG	Appropriate for any identified contaminant. All cross connections can be controlled using an air gap installed in accordance with standard ASME A112.1.2.
Block and Bleed Valve or Double Block and Bleed Valve	BB	Appropriate for membrane chemical-clean-in-place and filter-to-waste at supplier's facilities.
Check Valve	CV	The Florissant WSD will determine if these methods are appropriate.
Hydraulic Conditions	HC	

Attachment 2

Regulation 11.39 Backflow Prevention and Cross Connection Control Rule
ANNUAL REPORT for January 1 - December 31, <<YEAR>>

Name of Water Supplier:
 PW-SID:
 Completed by:

Date (Due May 1, following year):
 Yellow Background = PWS Input Value Blue Background = Calculated Value



Type	Line	Value	Parameter	Reg Reference (11.39.4)
Survey	1		Number of service connections (NDM single family - NOT including connections discovered after Oct. 31)	i
	2		Number of connections within Supplier's Waterworks (w/ treatment plants, pump stations, well houses, etc.)	i
	3		Total number of connections that must be surveyed (Sum Line 1 and Line 2)	
	4		Total number of connections that have been surveyed (all years surveys through date above, include connections controlled with RPZ)	ii
	5	#DIV/0!	Survey Compliance Ratio (Line 4/Line 3). Ranges from 0 to 1.0	iii
Cross Connections	Any number less than the ratio specified in Table 39-1 (Regulation 11) is an automatic violation unless supplier received a department approved alternative survey ratio			
	6		Total number of identified cross connections in the distribution system and within the supplier's waterworks.	iv
	7		Number of uncontrolled cross connections identified during the calendar year.	v
	8		Number of identified uncontrolled cross connections that were controlled within 120 days of discovery.	vi, A
	9		Number of connections where service was suspended as specified in 11.39(3) during the calendar year.	vii
			Number of identified uncontrolled cross connections that were not controlled within 120 days of discovery.	vi, B
	Any number greater than one in Line 9 is an automatic violation unless supplier received a department approved alternative compliance schedule.			
	10		Number of backflow prevention assemblies that were used during the calendar year (installed at cross connections, corresponding to line 6).	vi
	11		Number of backflow prevention assemblies used to control cross connections that were tested by a Certified Cross Connection Control Technician during the calendar year.	ix
Assemblies	12	#DIV/0!	Backflow prevention assembly annual testing compliance ratio.	x
	Line 12 must be greater than backflow prevention assembly annual testing compliance ratios as specified in Table 11.39-11. If achieved value is lower supplier must report to the Department.			
	13		Beginning January 1, 2017, the number and location of backflow prevention assemblies not tested during the calendar year covered by the report.	xi
Methods	14		Number of backflow prevention methods that were used during the calendar year (installed at cross connections, corresponding to line 6).	vii
	15		Number of backflow prevention methods used to control cross connections that were inspected during the calendar year.	xii
	16	#DIV/0!	Backflow prevention method annual inspection compliance ratio.	xiii
	Line 16 must be greater than 0.90. If achieved value is lower supplier must report to the Department.			
Beginning January 1, 2017, the number and location of backflow prevention methods not inspected during the calendar year covered by the report.				
Submittal Requirements The BRCCC annual report is due May 1 each year, however, it is not required to be submitted to the department unless a violation is identified. The department will review the BRCCC annual report during sanitary surveys but reserves the ability to request it at any time. If a BRCCC violation occurs, Regulation 11.39(7) requires that the violation(s) must be reported to the department no later than 48 hours after the violation(s) occurs. In accordance with Regulation 11.36(2)(b) the department will request that the supplier submit a copy of the BRCCC annual report documenting the identified violation. Please submit a copy of the BRCCC annual report via the department's Drinking Water Portal which can be found at https://wgcd.compliance.com/login and send to the attention of the department's Backflow Prevention and Cross-Connection Control Specialist. This report can be submitted to the department for notification of violations via the department's Drinking Water Portal. Please identify any violations demonstrated above. Please include the Regulation citation number and causes for violations as well as any action taken or anticipated action to resolve the violation(s). Please include date(s):				

Customer Address	Facility Contact	Phone Number	Email	Survey Performed	Cross Connection Identified	Cross Connection Type Identified	Backflow Prevention Assembly or Method Installed	BPCCC Appropriate?	Site Specific Deviation Criteria Issued. Only mark if Yes	Assembly or Method used to protect water system during the last calendar year	Active Date	Tested or Inspected Prior to 12/31?	Test Date	Passed? (Yes or No)
1 Main St														
2 Main St														
4 Main St														
10 Main St														
20 Main St														
25 Main St														
30 Main St														
40 Main St														
27 Main St														
48 Main St														
				0	0			0	0	0		0		0
				0	0			0	0	0		0		0
				TOTAL CITIES TOTAL										
				INVENTORY										