Lickin Creek Water District

Cross Connection Control Program
Documentation

Cross Connection Control Policy

Lickin Creek Water District # 04279 CROSS CONNECTION CONTROL POLICY

A policy relating to "cross connection control and backflow-prevention control" at the Lickin Creek Water District.

PART I:

CROSS CONNECTION CONTROL AND BACKFLOW PREVENTION

- (1) It shall be against Lickin Creek Water District policy, at any connection supplied with water from the Lickin Creek Water District distribution system, to do any of the following:
 - (a) To install or use any physical connection or arrangement of piping or fixtures, which may allow any fluid or substances unsuitable for human consumption to enter the potable water distribution system, as required by Section 608.1 through 608.5 of the International Plumbing Code.
 - (b) To install any connection, arrangement, or fixtures without a Backflow Prevention Device or approved Assembly unless arranged otherwise by the Board Member over Water.
 - (c) To incorrectly install any Backflow Prevention Device or Assembly required by Section 608.6 and 608.1 of the International Plumbing Code.
- (2) Any person found in violation of this policy shall be subject to reprimand or other appropriate disciplinary action as determined by the Board Member over Water.
- (3) Administration of this policy shall be referenced by "Cross Connection Control Program of Utah, November 2003". A copy of the manual shall be available at the office of the Lickin Creek Water District
- (4) Backflow prevention assemblies required by this policy will be required to be tested at least annually. The Board Member over Water shall prepare and maintain a Backflow Assembly Information sheet on all such devices and Test results shall be maintained for a period of no less than five (5) years.

Part II:

This policy shall take effect on January 1, 1999. A copy of the policy shall be placed in the office in the Water Board water system binder and will be reviewed for all new construction projects on a case by case basis.

Signed: _	Muhanl H	Yu	
Date:	Dreamber	15, 1998	
Title:	Owner		

Education

EDUCATION

12-2-98 Received training at Heber City for a
cross connection program
Cross Cross Specification
12:- 7-98 : Used material from training class To
provide consumer ausareness. Selected
hard out of definitions for quiting to
houses. Odded contact number for system
copied printed and delivered
3-15-99 Sent information on turning on
out side water and use of hose bibs
for watering
8-01-99 Sent information on turning off
outside water
and the second s
4-1-2000. Information sent forturing
water on and Flyer from AwwA un
Noses
4/15/2001 WATER System meeting. ALL
invited. Has stateguy showing
how back flow happens witha
piping arrangement. Au came

4/3/2002 Sent flyer on cross consections hazards and 50 questions handout

March 12, 2003 Sent ABPA phamphlet for cross connections

July 4 2003 Scheduled Board meeting to discuss water issues and cross connections, 25 in attendance. Discussed water troughs.

April 12 2004 Sent out Plyer for education about thermal expansion

September 18, 2004 Sent out information about turning water o(1 and winterizing

March 2,2008 Sent Glyen out about definitions

February 28 ownert to 54 George For Rural Water Conference and training

3-8-2006 Had Board meeting, discussed cross connections. Suowed sides. Dangers (Cross Connections Handed out new Awred

6-8 2006 Now coroash going in at Maple Street lot. Contacted Mr Burny concerning protection needed.

YOU CAN AFFECT THE QUALITY OF THE WATER YOU DRINK

Many public drinking water systems are contaminated each year by pollutants or contaminants that backflow into the water system through unprotected cross-connections. Identifying and eliminating or protecting cross connections is a matter of public health!

WHAT IS A CROSS-CONNECTION?

A cross-connection is a physical connection (piping configuration) between the public drinking water system and anything else, including another water supply that can allow pollutants or contaminants to backflow into the public drinking water system.

WHAT IS BACKFLOW?

Backflow is the reversal of flow from a residential or commercial water system back into the public drinking water system. backflow incident could carry pollutants or contaminants into our public drinking water supplies making them unsafe to use.

The Plumbing Code and the Utah Public Drinking Water Rules require that all cross connections be eliminated or protected against backflow by installing an approved backflow device or assembly.

CAN I PROTECT MY HOME OR BUSINESS FROM THE DANGERS ASSOCIATED WITH CROSS-CONNECTIONS AND BACKFLOW?

Several common cross connections are described in the following paragraphs.

Threaded Hose Connections (Hose Bibs)

A large majority of backflow incidents are created by the common garden hose. Modern Plumbing Codes require that all threaded potable water outlets (hose bibs or sill cocks), except water heater drains and clothes washer connections, be protected by a non-removable hose bib vacuum breaker or an atmospheric vacuum The installation of a hose bib vacuum breaker is an inexpensive way to protect against contamination.

Kitchen and Bathroom Faucets

Kitchen and bathroom facets are generally designed with an adequate air gap between the end of the faucet and the flood rim of the sink. They are manufactured so that a hose can not be attached to the end of the faucet. Slip on hose connections can defeat the protection of the air gap and should not be used!

Hand held shower sprayers and other similar hose attachments also pose a problem. If submerged in the water, back-siphonage can occur. This problem can be corrected by installing a special hose vacuum breaker.

Laundry Rooms

Your washing machine has air gaps built in at the factory. Utility sink faucets must be equipped with a hose bib vacuum breaker or atmospheric vacuum breaker.

Special Conditions

Drain lines from water softeners and water conditioners are typically connected to the sewer line. An air gap must be provided between the end of the drain line and the sewer line to eliminate the possibility of raw sewage being back-siphoned into the drinking water system.

Sinks used for special purposes such as home photography darkrooms, arts and crafts, etc. must be protected by vacuum breakers to ensure that chemicals or other pollutants will not enter the water supply.

Ballcock Assemblies in Toilets

Many toilets are equipped with ballcock assemblies that do not meet code. These assemblies can allow water from the toilet tank to be siphoned back into the drinking water supply. Anti-siphon ballcock assemblies must be used to protect against back-siphonage.

Landscape Sprinkling System

The Plumbing Code requires that all landscape sprinkling systems connected to the public drinking water system be equipped with an approved backflow prevention device or assembly.

Any sprinkling system that can utilize both public drinking water supplies and secondary water supplies must follow specific plumbing regulations to prevent raw water from entering the drinking water system!

WHERE CAN I GET INFORMATION OF HAVE MY QUESTIONS ABOUT CROSS CONNECTIONS ANSWERED?

Call your local public drinking water agency or plumbing inspector regarding cross connection control and backflow prevention requirements in your area.

For further information call

Utah Chapter - American Backflow Prevention Association

801-949-5512

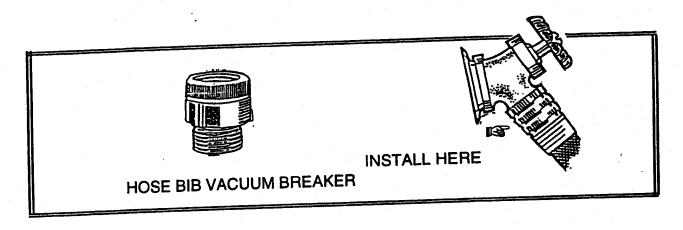
Utah State Division of Drinking Water 801-536-4200

Contact John Jamison 123 Easy Street Lickin Creek Water System (435) 123-4567

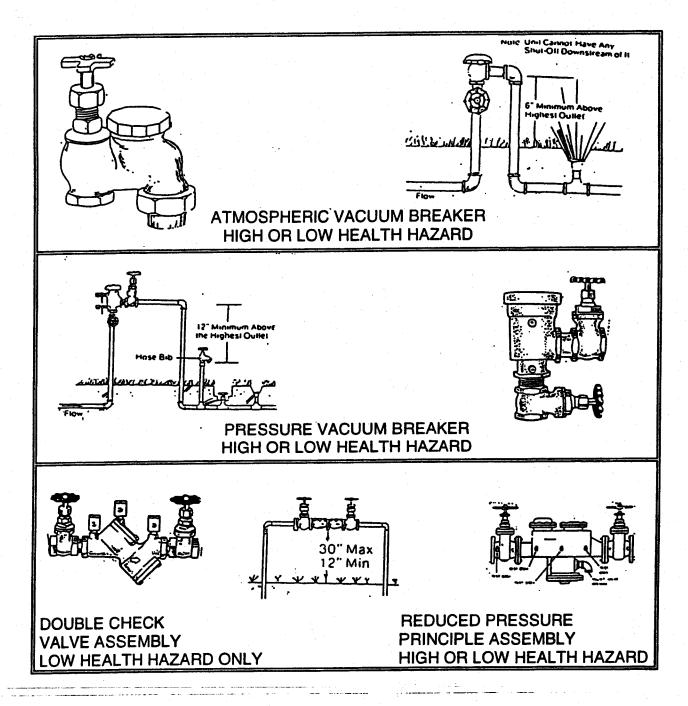
ARE YOU CONTAMINATING YOUR WATER SUPPLY?

Backflow prevention assemblies provide protection against contamination or pollution of the public drinking water systems. A backflow incident can seriously affect the quality and safety of our drinking water supplies. Backflow is the reverse flow of contaminated water or other substances from a user's water system back into the public drinking water system. Backflow can occur if your plumbing system is physically connected (a cross connection) Backflow can occur if your plumbing system is physically connected (a cross connection) to any source of contamination or pollution. Examples of possible cross connections include landscape sprinkling systems, hose attachments for utility sinks, and garden hoses.

Most backflow incidents occur as a result of using a hose without proper backflow protection. A hose bib vacuum breaker provides adequate backflow protection for garden hoses. The Plumbing code requires that all new potable water outlets with hose attachments (threaded hose bib faucets) be equipped with hose bib vacuum breakers or atmospheric vacuum breakers. The use of a hose bib vacuum breaker on all threaded hose bib faucets is strongly recommended. Hose bib vacuum breakers are available at most plumbing supply outlets.



The Plumbing Code requires that lawn sprinkling systems be equipped with an approved backflow assembly (antisiphon valve). Atmospheric Vacuum Breakers (AVB) or Pressure Vacuum Breakers (PVB) can be used in many situations as long as specific installation requirements are met. These assemblies must be installed above the highest discharge point on the sprinkling system. The AVB cannot be used if shutoff valves are located down stream of the device. A Double Check Valve (DCA) assembly or Reduced Pressure principle (RP) assembly must be used any tie the sprinkling system piping is higher than the backflow assembly. A (RP) assembly is required on systems that utilize any type of chemical injection process. All PVB, DCA, and RP assemblies must be tested by a certified backflow technician within ten days of initial use and annually thereafter. These installations must be reported to your local water supply agency. They are required by law to keep an inventory of all testable assemblies installed in their service area.



Dual source sprinkling systems (suing both raw water pressure irrigation and drinking water supplies) are considered <u>HIGH HEALTH HAZARDS</u> and must follow special precautions to protect the public health and drinking water supplies. Codes and laws do not allow direct connections between dual water sources. <u>Contact your local water purveyor for assistance in determining adequate protection methods!</u>

Contact your local water purveyor or plumbing inspector for more information concerning cross connection control or the installation of backflow prevention assemblies.

A man sprays commercial veed killer containing an irsenic compound on his lawn using a hose attachment. After we finishes, he disconnects the applicator. It is a hot day so he akes a refreshing drink of water rom the hose. A short time ater he dies from arsenic voisoning.

What happened?

At some time while the man was spraying weed killer, water pressure dropped, which resulted in the poison being sucked back into the hose. Later, when he drank from the hose, the poison inside was released with the water. He unknowingly poisoned himself.

Caution! Your Hose May Be Hazardous To Your Health!



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When water flows backward through the water supply system, it is called backsiphonage or backflow. When that water is accidently mixed with hazardous themicals or bacteria, it is called dangerous!

The danger comes when the hose — any nose — is connected to a harmful substance. If the pressure in a water main drops while your hose is submerged in polluted or contaminated water, then the water (and whatever is in it) could be sucked back into your pipes and your drinking water supply. Water pressure drops are not uncommon. They can happen when firefighters battle a nearby blaze or before a city crew repairs a broken water main.

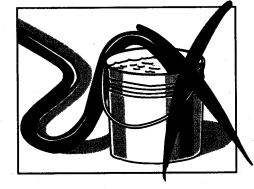
Some harmful substances you should be wary of are the chemicals used to fertilize your grass or the weed killer used on your lawn. The cleanser used on your kitchen sink could be hazardous if swallowed, as could the bacteria in the water from your wading pool or waterbed.

Fortunately, keeping your water safe from these contaminants is easy. Take the following precautions to protect your drinking water:

□ Never

....

submerge hoses in buckets, pools, tubs, or sinks.



□ Always

keep the end of the hose clear of possible contaminants.

Do not

use spray attachments without a backflow prevention device. The chemicals used on your lawn are toxic and can be fatal if indested



Do

buy and install inexpensive backflow prevention devices for all threaded faucets around your home. They are available at hardware stores and home-improvement centers.

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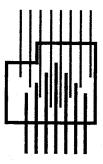
(801) 536-4196

John Oakeson, Director-at-Large (801) 536-0057

American Backflow Prevention Association (ABPA) Utah Chapter www.utabpa.org

American Backflow Prevention Association (ABPA) Utah Chapter <u>www.utabpa.org</u>

PROTECTING YOUR HOME and DRINKING WATER



American Backflow Prevention Association (ABPA) Utah Chapter

Every hon as potential hazards that threaten to contaminate the water system. These hazards are introduced to the water system through unprotected cross connections. Cross connections are connections between the public drinking water system and anything else such as: chemicals, gases, other liquids, and other drinking water supplies.

These undesirable substances are brought into the drinking water system by **backflow**.. Backflow is the undesirable reversal of the flow of water. This can occur when the city water system pressure drops below that of the customers home and can siphon contaminants and pollutants back into the water system, like a soda straw effect. This can be caused by water line breaks, fire fighting activities and simply turning on a water tap located elsewhere in the home.

Common water usages where contamination can easily occur are: landscaping sprinkling systems, threaded hose connections and garden hoses.

Threaded Hose C nections

Garden hoses have accounted for almost 80% of the documented backflow incidents in the nation. Garden hoses have many uses such as chemical and fertilizer dispensers, cleaning out sewer systems, filling pools, ponds and animal troughs which can cause problems. Threaded hose connections are easy and inexpensive measures to avoid cross connection. By equipping each threaded hose connection with a hose bib vacuum breaker which can be found at most home and garden stores.

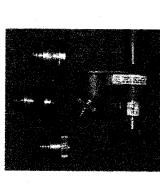




Unprotected hose connection

Protected hose connection

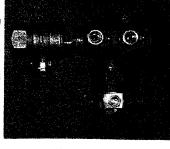




Landscape Sprinkling Systems

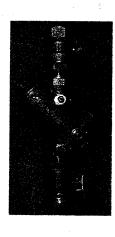
Landscape sprinkling systems also pose another potential problem for water system contamination back flowing into the drinking water system because they are used for fertilizers, weed killers and animal waste. ALL landscaping sprinkling systems, new or existing, MUST BE equipped with backflow protection that is approved to protect the health of your family and neighbors. There are various types of backflow prevention devices and assemblies that are approved depending on the style of your landscape sprinkling system. (Shown Below)





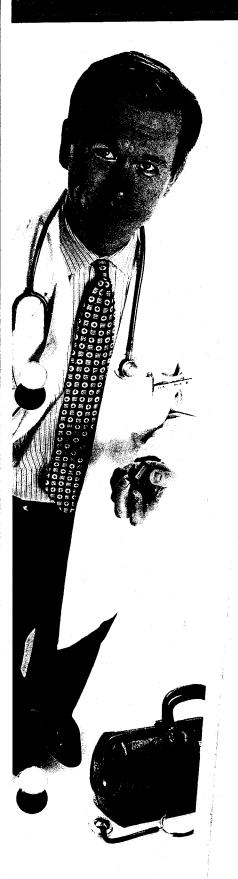
Antisiphon Valves

Pressure Vacuum
Breaker



Double Check Valve

Are Your Clients' Plumbing Systems Sick From Thermal Expansion?



SYMPTOMS:

- Dripping T&P Relief Valve
- Pressure Surges
- Leaking Ballcock
- Dripping Faucets

DIAGNOSIS:

Chronic Thermal Expansion

When water is heated it expands. The extra volume created by this expansion has to go somewhere. During no-flow periods, pressure reducing valves, backflow preventers and other valves may create a closed system, thus limiting room for expansion and dramatically increasing system pressure.

Thermal expansion of water in a closed plumbing system can create a number of annoying and potentially dangerous problems. Symptoms include: the build up of unusually high pressure in the plumbing system, pressure surges, and the chronic or continuous dripping of your water heater's temperature and pressure (T&P) relief valve. In addition, dripping faucets and leaking ballcocks are also symptomatic of thermal expansion.

Plumbing codes require these potential safety problems be addressed and Watts offers a wide variety of cures to thermal expansion for potable water applications, detailed on the other side of this sheet.

Now you can Diagnose Thermal Expansion...

with Watts New Model 276H300 Water Pressure Test Gauge. Simply attach the gauge to any hose bibb, or drain connection and leave it on overnight. The gauge's red indicator hand will hold at the highest pressure reading registered during that period, indicating if your system is, experiencing excessive thermal expansion.





Watts has a Variety of Cures for Thermal Expansion Distress

Any product will solve your thermal expansion problems.

Water Containment Solutions

These products allow for thermal expansion while containing thermally expanded water in the plumbing system. These products require no installation of discharge lines or drains.

Series DET-M1/PLT

Expansion Tanks for Water Heaters and Hot Water Supply Systems

Watts Series DET/PLT expansion tanks are designed to absorb the increased volume of water created by thermal expansion. They are pre-pressurized steel tanks with an expansion membrane that prevents contact of the water with the air in the tank. This prevents loss of air to the water and insures long and trouble-free life for the system. These tanks may be used with all types of direct fired water heaters (gas, oil or electric) and hot water storage tanks.

Series DETA

ASME Pressurized Expansion Tanks for Potable Hot Water



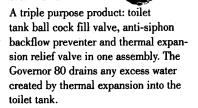
Watts Model DETA tanks are ASME fixed bladder type pre-charged expansion tanks for commercial are industrial potable hot water applications. They are designed to accept the expanded volume of hot water, keeping the system pressure below the relief valve setting. The water is isolated from the air charged by a butyl bladder.

Water Relief Solutions

These products discharge thermally expanded water at a pressure setting that is below the setting of the water heater's temperature and pressure relief valve. They must be piped to a suitable drain or discharge location.

Watts Governor 80™

Ball cock with thermal expansion relief valve.



Model BRV

Combination ball
valve and relief valve.
Provides both a means to
shut off the water supply to
the water heater and provides
protection against excess
water pressure caused by thermal

protection against excess water pressure caused by thermal expansion. Sizes 3/4" and 1"

Model 530C

Calibrated pressure relief valve.
Calibrated adjustment feature for setting valve to relief pressure.
Adjustable range 50-175 psi.

Model H32

Hose connection pressure relief valve.

The H32 Pressure Relief Valve, set at 80 psi or 100 psi, has a ¾" hose connection inlet for ease of installation. Size ¾"



www.wattsreg.com

USA: 815 Chestnut St., No. Andover, MA 01845-6098; www.wattsreg.com Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca



Areas where cross-connections are a concern:

Hydraulically Operated Equipment Heating & Cooling Systems Commercial & Industrial Paint & Ink Mills **Printing Plants** Plating Works **Bottling Plants** Fire Systems Mixing Tanks Mortuaries Vet Clinics

Parks & Playgrounds County Fairgrounds Swimming Pools Leisure Areas: Golf Courses Campgrounds Fountains

Recreation Waterfront Areas Travel Trailer Connections

Chemical/photography lab Basement & Outdoors Sprinkling systems Hose Connections Hot tub or spa Swimming pool Residential facilities

Livestock waterers or tank fillers

Cross-Connection Hazard

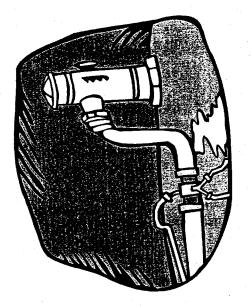
took a drink of water from the hose. A short tie later Bob became very disconnected the attachment and After using a hose attachment to spray his lawn for weeds,

What Happened?

into the hose. When Bob took a drink from the hose, he drank water dropped and the poison he was spraying on the lawn was drawn back At some time while Bob was spraying the week killer, the water pressure mixed with week killer.

breaker on his hose connection, he If Bob had a hose bibb vacuum could have prevented this crossconnection. If you have any questions about Cross-connection Prevention, call

& Backflow Prevention Connection Cross-



Cross-Connection

and a source of contamination or backflow preventers. pollution. All cross-connections need between the drinking water supply Any actual or potential connection

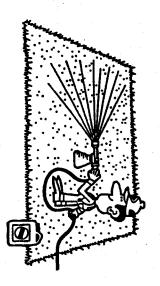
Backflow Preventer

supply. There are non-testable and A device or process that prevents testable backflow preventers being drawn into the drinking water impurities or contaminants from

needed on all hose connections, HVB Hose Bibb Vacuum Breaker (HVB) does not draining hose bibb vacuum breaker.[are fairly inexpensive and easy to equipped with a Hose Bibb Vacuum results get a Ofreeze proof, selfplumbing supplies are sold. For best install. They can be purchased where Breaker on all hose connections.) last three years should already be This type of backflow preventer (Homes built within the need to be tested

Inspector Plumbing Code Requires annual PVB testing by a Certified Backflow water sprinkling systems, the PVB is Pressure Typically backflow preventer Vacuum Breaker (PVB) found **!**test on underground which is ports.

> Potential cross-connections requiring non-testable backflow preventers:



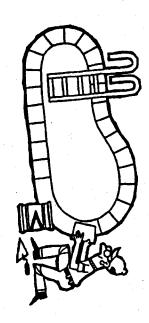
pressure to draw chemicals, like weed A hose sprayer which uses water hose submerged in a bucket, pool or killer, into a stream of water or a



Hose Bibb Vacuum Breaker

supply if a change in water pressure drawn back into the drinking water prevent the contaminant from being Bibb Vacuum Breaker. The HVB will can be prevented by installing a Hose In these examples, cross-connections tub or sink. submerge a hose in a bucket, pool Remember

> testable backflow preventers: Potential cross-connections requiring

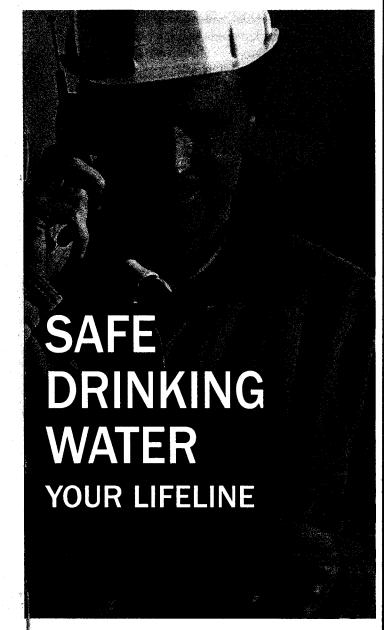


In-ground Swimming Pool Underground Sprinkling System



Pressure Vacuum Breaker

questions or concerns call a PVB be tested annually. If you have connection can be prevented by a ports.[] Plumbing Code Requires that Preventer either built in or added on. Pressure Vacuum Breaker backflow The PVB comes equipped with litest these examples,





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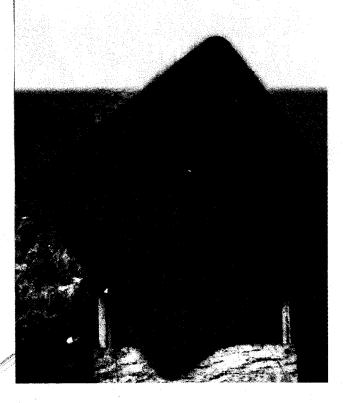
The Authoritative Resource on Safe WaterSM

The value of safe drinking water becomes very clear to us when our supply is somehow disrupted. If you don't have water, you can't cook, brush your teeth, take a bath or flush the toilet. And of course, you can't get a refreshing glass of water from your home faucet.

That's why it's important to take control and be prepared. You can take some simple steps to help ensure that you and your family have an adequate supply of safe drinking water to see you through almost any interruption in service. In addition, understanding how your system works can help you make the right decisions in the event of a water supply emergency.

Your Water Supply System

Fresh drinking water is delivered to you 24 hours a day, 7 days a week. Most of the time, you don't even think about it. But how does it get there and what is being done to make sure it's safe?



Your water system consists of several major components: source, treatment, and distribution. Your water source may be a river, lake, or an underground aquifer. The water is treated to make sure that harmful substances are removed. Finally, it is delivered through pipes to your home.

At each step, water supply professionals make sure that the system is working as it should. Specially trained system operators, scientists, and engineers work behind the scenes to continually monitor the entire process so that you have a reliable supply of safe drinking water.

Causes of a Water Supply Emergency

Water supply emergencies are very rare. They are so rare that when they do occur, they often make the newspaper and television news. Possible causes of an emergency might include

- Natural disasters, such as earthquakes
- Water contamination resulting from stormwater runoff
- System malfunctions
- Power outages
- Vandalism
- Human error
- Major water main breaks
- Sabotage/terrorism
- Waste leakage
- Civil unrest

Your Water System and Emergencies

Water utilities take their mission of delivering safe water very seriously and have had emergency preparedness and response plans in place for many years. They work closely with local, state, and federal officials to identify emergency scenarios and develop strategies for cooperative responses. Many have enlisted the support and resources

Water System Assessment

WATER SYSTEM ASSESSMENT

Loca tion	HAZARD Protection	TEXTER
LBEA (WA	1 AZAZO 1 (BIECCIO)	
123 Engy STREET	Hoses	
	Trough High AIRGAR	
	Corrol	•
(38 Exsy	40363	
	Sprinkler HIGH PVB	2004
		•
269 Exsq	Hoses	
	MilliBARD HIGH RP	2001
	Trough HIGH AIRGAR	
25 N 3 RW	hoses	
1050 N. MAPLE	Carwash High RP	
	\	
		· -

Test Reports

269 Easy Street Test Reports

Backflow Assembly Test Report Water System Name: Lacking Cater with File No.: 2 COO15 Location of Assembly: Z69 FASY STREET - MILK BARN with BAR					
		Check Valve #1	Check Valve #2	Differential Pressure Relief Valve	Pressure Vacuum Breaker
I N	RP	PSI Across 5.3	PSI Across	Opened at Z_# Opened Under 2# or did not open	AIR INLET: Opened at# Opened Under 1# or did not open
T I A L	DC	Closed Tight Leaked	Closed Tight Leaked		CHECK VALVE: Closed Tight [] Leaked []
R E P A I R S		Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Diaphragm Seat(6) O-ring(s) Module Other (describe)	Cleaned Replaced: Air Inlet Disc Air Inlet Spring Check Disc Check Spring Other (describe)
FINAL T		PSI Across Closed Tight	PSI Across Closed Tight	Opened at# Reduced Pressure	Satisfactory []

Initial Test By:	Certification	1 No. <u>34567</u>	Date: <u>2-15-66</u>
Repaired By:			_Date:
Final Test By:	Certificatio	n No	_ Date:
•	NITIAL TEST performance was: FINAL TEST performance was:	Satisfactory Satisfactory	Unsatisfactory Unsatisfactory
I certify the abov	e test has been performed and I ar	n aware of the fina Assem	l performance. ably Owner Representative

Backflow Assembly Test Report

Water System Name: Liekin	Cecer wo	File No.: \
Location of Assembly: 269 Ex	57 ST - MILLEBA	42-
Owner of Assembly: Tom I a	s~€S	
Address: 269 EASY STREET	City: Licero Cer	State: UE Zip 12345
Size of Assembly: t*	Model No.: カマラウ	Serial No.: 24688642
Name of Assembly Manufacturer:_	FERCO	

	Check Valve #1	Check Valve #2	Differential Pressure Relief Valve	Pressure Vacuum Breaker
I N	PSI Across 5-3	PSI Across	Opened at Company Copened Under 2# or did not open	AIR INLET: Opened at# Opened Under 1# or did not open
T I DC A L	Closed Tight Leaked	Closed Tight [] Leaked []		CHECK VALVE: Closed Tight [] Leaked []
R E P A I R S	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Diaphragm Seat(s) O-ring(s) Module Other (describe)	Cleaned Replaced: Air Inlet Disc Air Inlet Spring Check Disc Check Spring Other (describe)
FINAL TEST	PSI Across Closed Tight	PSI Across Closed Tight	Opened at# Reduced Pressure	Satisfactory

Initial Test By:	- Jeruse Certification	n No. <u>34561</u>	Date:
Repaired By:			Date:
Final Test By:	Certification	on No	_ Date:
This assembly's IN. This assembly's FI	ITIAL TEST performance was: NAL TEST performance was:	Satisfactory F	Unsatisfactory Unsatisfactory
I certify the above to BY:	test has been performed and I ar	m aware of the fina	al performance. nbly Owner Representative

Backflow Assembly Test Report									
W	Water System Name: LICKIN CREEK WO File No.: LC 0004								
Lo	cation	of Assembly:	269	E454 ST -	MILK	BARN			
Ov	vner of	Assembly:	ōm-	JONES					
Ad	ldress:_	Z69 EASY S	TREE	City: L	-ICKING C	State: <u>LT</u> Serial N	Zi _Z	12345	
					.: B25	Serial N	o.:_Z	4688642	
Na	me of	Assembly Manu	facture	r: <u>FEBCO</u>					
			· · · · · · · · · · · · · · · · · · ·		.				
		Check Valve #1		Check Valv	re #2	Differential Press Relief Valve		Pressure Vacuu Breaker	um
	RP	PSI Across 5.3		PSI Across		Opened at Z. 6#		AIR INLET: Opened at#	
I N		PSI Across				Opened Under 2# or did not open	0	Opened Under 1# or did not open	0
T I A L	DC	Closed Tight Leaked	0	Closed Tight Leaked	0			CHECK VALVE: Closed Tight Leaked	0
L							·	Leaker	-
R E		Cleaned Replaced:		Cleaned Replaced:	0	Cleaned Replaced:	0	Cleaned Replaced:	
P	* -	Disc	<u> </u>	Disc	0	Disc		Air Inlet Disc	0
A		Spring	[] n	Spring	0	Spring	0	Air Inlet Spring	
I R		Guide Pin Feather		Guide Pin Feather		Diaphragm Seat(s)		Check Disc Check Spring	0
S		Hingepin	Ū	Hingepin		O-ring(s)	0	Other (describe)	0
		Seat		Seat		Module	0		
		Diaphragm Other (describe)	ŭ	Diaphragm Other (describe)	Ö	Other (describe)	U		
FINAL'	TEST	PSI Across Closed Tight		PSI Across Closed Tight	0	Opened at# Reduced Pressure		Satisfactory	0
		t By: C) GR	بالمنا	Certification	on No. 🗾		(.	6(2004	
_		By:		Cartificati					
rina	al Test	ъу		Certification	איז ווט.	Date:			
Thi	s assen	nbly's INITIAL	TEST n	erformance was	: Satisfac	ctory Unsatis	sfactor	v 🛮	
		nbly's FINAL TI	-			ctory [] Unsati		•	
	-	e above/test has		erformed and I a	m aware	of the final perform			
BI	BY: Assembly Owner Representative								

Distribution: White - Assembly Owner Pink - Tester Canary - Water Utility

Backflow Assembly Test Report

Water System Name: Leens	CREEK WO	File No.: LC 0003
Location of Assembly: 269 645	4 - MILLE BARN	
Owner of Assembly: Tom !	6 10 45	
Address: 269 EASY STREET	City: LICKIN CEK	State: UT Zip 12345
Size of Assembly: "	Model No.: 825Y	Serial No.: 24688642
Name of Assembly Manufacturer:	FEBCO	
	+ + 5	

		Check Valve #1	Check Valve #2	Differential Pressure Relief Valve	Pressure Vacuum Breaker
I N	RP	PSI Across 5.0	PSI Across LFAICS	Opened at# Opened Under 2# or did not open	AIR INLET: Opened at# Opened Under 1# or did not open
T I A L	DC	Closed Tight [] Leaked []	Closed Tight [] Leaked []		CHECK VALVE: Closed Tight Leaked
R E P A I R S		Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Diaphragm Seat(s) O-ring(s) Module Other (describe)	Cleaned Replaced: Air Inlet Disc Air Inlet Spring Check Disc Check Spring Other (describe)
FINAL		PSI Across Closed Tight 5.3	PSI Across Closed Tight	Opened at 24 Reduced Pressure	Satisfactory

Initial Test By: CJERNEY Certification No. 3 454	7 Date:	2/10/2003
Repaired By: C JERNEY	Date:	2/10 (2003
Initial Test By: C JERNEY Certification No. 3454 Repaired By: C JERNEY Final Test By: C JERNEY Certification No. 3454	7 Date:	2/10/2003
This assembly's INITIAL TEST performance was: Satisfactory This assembly's FINAL TEST performance was: Satisfactory	Unsati Unsat	sfactory 🛮
I certify the above test has been performed and I am aware of the BY:	e final perfor Assembly Ov	mance. vner Representative

Woter C	Ba d ystem Name: <u>لدد ×</u>	ckilow Assen	Ψ,	• . •	. \	-c0002	
Location	of Assembly: 269	EASY ST.	- MILK	BARN	•		
Address: Size of A	f Assembly: To M 249 6434 STREE Assembly: 14 Assembly Manufactur	City: City:	Leen C O.: BZS	Y Serial N	<u> Zij</u> lo.: <u> ヱ</u>	12345	
	Check Valve #1	Check Val	ve #2	Differential Pres Relief Valvo		Pressure Vacu Breaker	um
I N	PSI Across 5. Z	PSI Across	_	Opened at Copened Under 2# or did not open	0	AIR INLET: Opened at# Opened Under 1# or did not open	0
T I DC A L	Closed Tight Leaked	Closed Tight Leaked	0			CHECK VALVE: Closed Tight Leaked	0
R E P A I R S	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)		Cleaned Replaced: Disc Spring Diaphragm Seat(s) O-ring(s) Module Other (describe)	0 000000	Cleaned Replaced: Air Inlet Disc Air Inlet Spring Check Disc Check Spring Other (describe)	
FINAL TEST	PSI Across Closed Tight	PSI Across Closed Tight	0	Opened at# Reduced Pressure		Satisfactory	
Initial Test By: M DERIFF Certification No. 03500 Date: 2/12/2002 Repaired By: Date: Date: Date: This assembly's INITIAL TEST performance was: Satisfactory Unsatisfactory Unsatisfactory I Unsat							

Distribution: White - Assembly Owner [] Pink - Tester [] Canary - Water Utility

Backflow Assembly Test Report

Water System Name:_	Licken Ce	eer w	O	File No.:	L C0001
Location of Assembly:	269 EA	sy M			
Owner of Assembly:	Tom I	らんかい			
Address: Z69 Exx			Licein Cer	State: ur	Zip 12345
Size of Assembly:	V'				24688642
Name of Assembly Ma	nufacturer:	FEBCZ			
•					

Check Valve #1	Check Valve #2	Differential Pressure Relief Valve	Pressure Vacuum Breaker	
PSI Across 5.2	PSI Across <u>CT</u>	Opened at 2.6# Opened Under 2# or did not open	AIR INLET: Opened at# Opened Under 1# or did not open	
Closed Tight [] Leaked []	Closed Tight Leaked		CHECK VALVE: Closed Tight [] Leaked []	
Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)	Cleaned Replaced: Disc Spring Diaphragm Seat(s) O-ring(s) Module Other (describe)	Cleaned Replaced: Air Inlet Disc Air Inlet Spring Check Disc Check Spring Other (describe)	
PSI Across Closed Tight	PSI Across Closed Tight	Opened at# Reduced Pressure	Satisfactory []	
	PSI Across 5.2 Closed Tight	PSI Across 5.2 PSI Across CT Closed Tight	Check Valve #1 Check Valve #2 Relief Valve Opened at 2.6# Opened 1 2.6# Opened Under 2# or did not open Closed Tight Leaked Cleaned Replaced: Disc Spring Spring Guide Fin Feather Hingepin Seat Disc Disc Disc Disc Spring Guide Disc Disc Disc Disc Disc Disc Disc Disc	

Initial Test By: Certification	1 No. 34567	_Date: 4// 250 (
Repaired By:		Date:
Final Test By:Certification	n No	_ Date:
	_	en e
This assembly's INITIAL TEST performance was:	Satisfactory 25	Unsatisfactory [
This assembly's FINAL TEST performance was:	Satisfactory **	Unsatisfactory []
I certify the above test has been performed and I am BY:		
I certify the above test has been performed and I an	n aware of the fina	l performance.
BY:	Assem	ably Owner Representative

138 Easy Street Test Reports

Water System Name: LICKIN CREEK WD File No.: LOOO 9 Location of Assembly: \(\frac{138}{38}\) \(\frac{138}{57}\) \(\frac{138}{5								
·	Check Valve #1		Check V	/alve #2	Differential Pro Relief Val		Pressure V Breal	
I N	PSI Across		PSI Across		Opened at Opened Under 2# or did not open	# 	AIR INLET: (Opened at Opened Under 1st did not open	** # or
T I DO A L	C Closed Tight Leaked	0	Closed Tight Leaked	0			CHECK VALVE Closed Tight Leaked	7.8 1
R E P A I R S	Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)		Cleaned Replaced: Disc Spring Guide Pin Feather Hingepin Seat Diaphragm Other (describe)		Cleaned Replaced: Disc Spring Diaphragm Seat(s) O-ring(s) Module Other (describe)		Cleaned Replaced: Air Inlet Disc Air Inlet Spring Check Disc Check Spring Other (describe)	
FINAL TES	PSI Across Closed Tight	0	PSI Across Closed Tight		Opened at# Reduced Pressure		Satisfactory	0
Initial Test By: CTEREY Certification No. 34567 Date: 5-(-2005) Repaired By: Date: Final Test By: Certification No. Date: This assembly's INITIAL TEST performance was: Satisfactory Unsatisfactory Unsatisfactory Unsatisfactory I Unsatisfactory								

Backflow Assembly Test Report									
Wa	ater Sy	stem Name:	ادلارب	Ceen	۵۵۵	File No.:	LC	0006	
Location of Assembly: 138 EACY So Side Owner of Assembly: Tim LLOYD									
V 4	vner of	Assembly:	<to< td=""><td>CCEPB</td><td>. (</td><td>PK States 15T</td><td>7:-</td><td>12345</td><td></td></to<>	CCEPB	. (PK States 15T	7:-	12345	
Au Siz	uiess	ssembly.	1"	Model	No. 0081	State: UT NZQ Z Serial No	٠٠٠	3336695	-
		Assembly Manu			773	Dollar 1	J		
		Check Valve #1		Check V	alve #2	Differential Press Relief Valve		Pressure Va Breaker	
	RP	PSI Across		PSI Across	- -	Opened at#		AIR INLET: 1	
I N					·	Opened Under 2# or did not open	0	Opened Under 1# o did not open	· 0
T I A L	DC	Closed Tight Leaked	0	Closed Tight Leaked	0			CHECK VALVE: Closed Tight Leaked	1.8 x
R E P		Cleaned Replaced: Disc	0	Cleaned Replaced:	П	Cleaned Replaced:		Cleaned Replaced: Air Inlet Disc	0 0
A I		Spring Guide	0	Spring Guide	<u> </u>	Spring Diaphragm		Air Inlet Spring Check Disc	0
R S		Pin Feather Hingepin		Pin Feather Hingepin	0	Seat(s) O-ring(s)		Check Spring Other (describe)	0
		Seat Diaphragm Other (describe)	0 0 0	Seat Diaphragm Other (describe)	0 0 0	Module Other (describe)	0		
		Other (describe)		Other (describe)					
									·
									•
FINAL 7	ГЕЅТ	PSI Across Closed Tight		PSI Across Closed Tight	Ō	Opened at# Reduced Pressure		Satisfactory	0
		t By: Clern		Certifica	ntion No. <u>3</u>			16-2004	
Repaired By:									
rina	ai iest	Бу		Cerunc	auoii 190	Date: _	·		
This assembly's INITIAL TEST performance was: Satisfactory Unsatisfactory Unsatisfactory Unsatisfactory Unsatisfactory									
I certify the above test has been performed and I am aware of the final performance. BY: Assembly Owner Representative									

1050 North Maple Test Reports

June 15, 2006, 2006

Bugs Bunny XYZ Carwash 555 N 700 W Anytown, Utah 84000

Dear Mr. Bunny:

Subject: Hazard Assessment Inspection

Our records indicate that you are the owner of a carwash located at 1050 North Maple Street. Anytown City Cross Connection Control Ordinance #81-309 requires that we conduct periodic cross connection hazard assessments of facilities connected to the Anytown City public drinking water system. We have scheduled a hazard assessment inspection for XYZ Carwash for 1:00 PM on July 5, 2006. If this time is inconvenient please call Elmer Fudd to reschedule.

We request that someone from your facility that has knowledge of your operations and the associated water usage participate in the inspection if possible.

Contact Elmer Fudd at 555-5555 if you have any questions regarding this matter.

Sincerely,

J. Oakeson

July 6, 2006, 2006

Bugs Bunny XYZ Carwash 555 N 700 W Anytown, Utah 84000

Dear Mr. Bunny:

Subject: Hazard Assessment Inspection Report

Elmer Fudd of our staff conducted a hazard assessment inspection of a carwash located at 1050 North Maple Street on July 5, 2006. He was accompanied by Mr. Daffy Duck of your staff.

The results of the inspection are as follows:

- 1. A Wilkins 1" Reduced Pressure Assembly serial #222990 is located on the supply line to the carwash equipment is correctly installed.
- 2. A drinking fountain is connected to this supply line down stream of the RP assembly. The drinking fountain must be disconnected from the supply line to the equipment immediately. If the drinking fountain is to be reconnected the connection must be made upstream of the RP assembly.

We will contact you to schedule a follow up inspection to verify corrections have been made. Contact Elmer Fudd at 555-5555 if you have any questions regarding this matter.

Sincerely,

J. Oakeson

August 25, 2006

Bugs Bunny XYZ Carwash 555 N 700 W Anytown, Utah 84000

Dear Mr. Bunny:

Subject: Annual Test of Backflow Assembly

Our records indicate that you have a 1" Wilkins RP assembly, serial #222990 located at 1050 North Maple Street. This assembly is now due for annual testing as per Anytown City Cross Connection Control Ordinance #81-309. This assembly must be tested by a backflow technician certified to test backflow assemblies within 30 days of the date of this letter.

Please submit a completed test report to:

Anytown City Public Works Attention Elmer Fudd 1000 South Main Anytown, Utah 84000

Contact Elmer Fudd at 555-5555 if you have any questions regarding this matter.

Sincerely,

J. Oakeson

September 26, 2006

Bugs Bunny XYZ Carwash 555 N 700 W Anytown, Utah 84000

Dear Mr. Bunny:

Subject: Final Notice-Annual Test of Backflow Assembly

Our records indicate that you were notified by letter dated August 25, 2006 that the following backflow assembly was due for annual testing: 1" Wilkins RP assembly, serial #222990 located at 1050 North Maple Street.

A completed test report was to have been sent to our office not later that September 25, 2006. As of today we have not received the test report for this assembly. If you have had the required testing completed please forward a copy of the test report to our office. If the assembly has not been tested please make arrangements to do so immediately. To avoid discontinuation of water service to 1050 North Maple Street a completed test report must be receive at our office not later than October 10, 2006.

Please submit a completed test report to:

Anytown City Public Works Attention Elmer Fudd 1000 South Main Anytown, Utah 84000

Contact Elmer Fudd at 555-5555 if you have any questions regarding this matter.

Sincerely,

J. Oakeson