

Backflow Prevention Assembly Testing Notification

«LetterSentDate :

TEST FORM DUE: August 31st, 2014

«Mail_Name»
«Mail_Address_1»
«Mail_CityStateZip»

Regarding the following address: «Service_Address»

Cross Connection Control is a program undertaken to prevent contamination or pollution of the drinking water supply from any connections containing materials that render the water unusable for human consumption.

Due to a recent mandate from the State of Michigan Department of Environmental Quality, the City of Troy is now required to enforce mandatory backflow assembly testing for all assemblies located in the City of Troy. This will now include assemblies on residential property as well as commercial property.

Most of the testing on residential property will be for Pressure Vacuum Breaker assemblies connected to lawn irrigation systems. Other assemblies may require testing as well. Such systems are connected to Boilers or Water Powered Backup Sump Pumps. Assemblies on residential properties must be tested at least every three years.

It is necessary to have all backflow assemblies on your property tested by a Licensed Plumbing Contractor. If any assemblies fail testing they must be Repaired or Replaced and Retested.

This is not something homeowners can do on their own because special licenses are required for this work. By State of Michigan law, only licensed plumbers shall Test or Repair backflow assemblies.

Completed reports must be returned by **August 31st, 2014** and may be sent to the address, fax number, or email listed above.

If an assembly is to be replaced, a plumbing permit must be obtained by a licensed plumbing contractor, or by the homeowner, but only if the homeowner actually performs the installation. If an assembly is to be repaired, the repair must be completed by a licensed plumbing contractor. Lawn irrigation companies are not licensed for this work.

By State of Michigan Law, failure to have any backflow assembly tested, repaired or replaced in a timely manner could result in interruption of your water service.

Enclosed is a brochure which explains backflow prevention and procedures for getting backflow assemblies tested, repaired and replaced. Please read this brochure carefully to get an understanding as to what you may be required to do to protect the water supply.

Thank you for your timely cooperation in this important matter.

Sincerely,

Matthew Kapcia
Cross Connection Inspector
City of Troy - Department of Public Works

r:2014.05.09

FROM: CITY OF TROY WATER DIVISION

BACKFLOW TESTER LIST

The City of Troy accepts no responsibility for the accuracy of this list. This list does not constitute a recommendation for anyone on this list. This list is compiled from some of the backflow tests which have recently been conducted in the City of Troy, and is only issued as a convenience to our customers to assist them in finding qualified backflow testers in the area.

NAME	ADDRESS	CITY	ZIP	PHONE
BIG BEAVER PLUMBING & HEATING, INC.	866 HARTLAND	TROY	48083	248-528-1333
BACKFLOW PREVENTION SERVICES, LLC	5849 NORTHRIDGE CIR.	WATERFORD	48327	248-942-5007
GUARDIAN PLUMBING & HEATING, INC.	34400 GLENDALE AVE	LIVONIA	48150	734-513-9550
LPS PLUMBING COMPANY	46435 CONTINENTAL	CHESTERFIELD TWP	48047	586-948-2822
GARY L. SMITH, INC.	91 TELFORD	TROY	48085	248-528-2838
SUPERIOR PLUMBING & HEATING, INC.	5316 HIGHLAND RD	WATERFORD	48327	248-673-7260
DANBOISE MECHANICAL, INC.	31625 GRAND RIVER	FARMINGTON	48336	248-471-2230
FRANKLIN MECHANICAL, INC.	20110 VILLAGE DR	BEVERLY HILLS	48025	248-646-0808
CREGGER SERVICES, INC.	2305 GOODRICH	FERNDALE	48220	248-543-8887
EARL J. WEIL & SON INC.	27250 HARPER AVE	ST. CLAIR SHORES	48081	586-775-2205
CHRISTIAN BROS. PLUMBING, HEATING, SEWER CLEANING, INC.	24819 VAN DYKE	CENTERLINE	48015	586-755-7490
NELSON BROTHERS SEWER & PLUMBING SERVICE, INC.	1115 E 11 MILE RD	ROYAL OAK	48063	248-541-0819
LIGHTHOUSE PLUMBING SERVICES, INC.	44465 GRAND RIVER AVE	NOVI	48375	248-912-1946
WATER WORKS PLUMBING COMPANY	PO BOX 66197	ROSEVILLE	48066	586-775-0100
TOM BELL PLUMBING, INC.	6890 TAMCYN	DAVISBURG	48350	248-328-9410
BILL JAMES PLUMBING & HEATING, INC.	25519 JOHN R	MADISON HTS	48071	248-548-1500
BURTON & SONS INC.	32900 MANOR PARK DR	GARDEN CITY	48135	734-427-3070
MACOMB MECHANICAL INCORPORATED	6250 19 MILE RD	STERLING HEIGHTS	48314	586-737-9920
SHORELINE COMPANIES. INC.	25555 NORTH RIVER RD	HARRISON TWP.	48045	586-463-3060
TRI-COUNTY BACKFLOW SPECIALST, INC	PO BOX 848	UNION LAKE	48387	248-360-6100
DAN WOOD PLUMBING AND HEATING SERVICES, INC.	40400 GRAND RIVER STE F	NOVI	48375	248-348-4242
DONALD R. KELLETT COMPANY	2820 E MAPLE RD #132	TROY	48084	248-822-8070
ALL BUILDING SERVICES	1369 OAK RIDGE RD	OXFORD	48371	248-622-0464
ZACK'S PLUMBING, INC.	59957 KUNSTMAN RD.	RAY TWP.	48096	586-786-1762

The Who, What & Why

WHAT IS A CROSS CONNECTION?

A Cross Connection is any connection between the drinking water system and any other system, machine, piping, or atmosphere, etc that does not contain drinking water. Such systems may contain harmful chemicals or biological organisms.

WHAT IS BACKFLOW?

Backflow is the reversal of flow from a system not containing drinking water, back into the drinking water supply.

This may occur when there is a pressure drop in the drinking water supply lines from a water main break, or a fire in the area, or for other reasons causing a Siphon condition.

Backflow may also occur from Backpressure, when a system such as a boiler or pump generates more pressure than the supply line and pushes water back into the water supply

WHAT ARE COMMON CAUSES OF BACKFLOW?

-Irrigation systems may contain pesticides, herbicides, biological organisms such as bacteria and worms, animal droppings, and other contaminants.

-Garden hoses may be submerged in swimming pools, mud puddles, utility sinks, buckets, etc. and can act as a siphon hose.

-Boilers create backpressure that pushes contaminated water back into the water supply.

-Toilet tanks contain bacteria and mold.

-Anything connected to the water supply is a potential source of contamination.

WHY IS TESTING REQUIRED?

Backflow assemblies are mechanical devices and are subject to failure from wear and tear, corrosion, freezing, water conditions, and misuse.

They contain springs, plastic parts, rubber washers, o rings, and diaphragms.

Testing ensures that the assemblies are operating as required to keep contaminated water out of the drinking water supply.

WHO MAY TEST, REPAIR AND INSTALL BACKFLOW ASSEMBLIES?

Per State of Michigan Law - Public Act 733 of 2002, only Licensed Plumbing Contractors may work at the business of plumbing.

Act 733 states that backflow preventers are a part of the plumbing systems, and that only Licensed Plumbers may work on them.

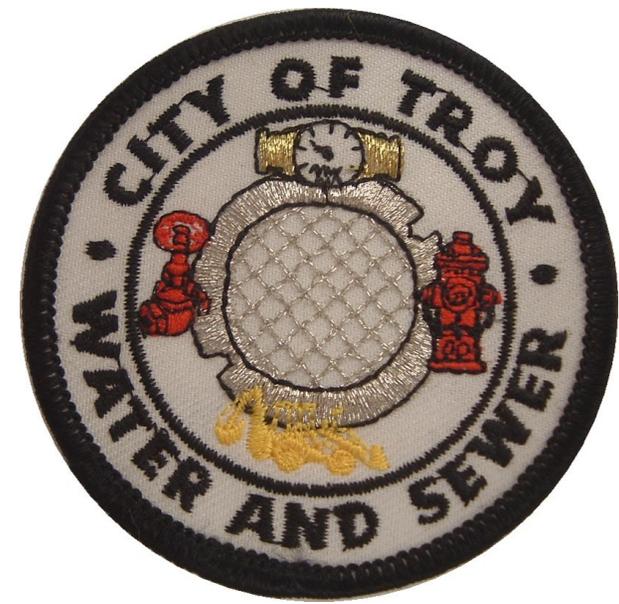
You must obtain the services of a Licensed Plumbing Contractor to perform backflow assembly testing, installations, and repairs.

If a backflow preventer is to be replaced/installed, a Plumbing Permit must be obtained.

MORE INFORMATION

For more information, please visit the Water & Sewer Division website at:

[http://troymi.gov/LiveHere/
PublicWorks/WaterAndSewer.aspx](http://troymi.gov/LiveHere/PublicWorks/WaterAndSewer.aspx)



Residential Backflow Assembly Testing Program

City of Troy
Department of Public Works
Water & Sewer Division
Cross Connection Control Section
4693 Rochester Rd.
Troy, MI 48085-4928
248-524-3398 Desk
248-524-3520 Fax

Due to a State of Michigan mandate, the City of Troy is now required to have all backflow assemblies tested on residential property.

Responsibilities & Requirements

RESPONSIBILITIES

The City of Troy is responsible for protecting the water supply throughout the city.

State & Federal Laws (Safe Drinking Water Acts) require that the City of Troy protect the public water supply up to customers' premises.

Other State laws and codes also require that the City verify the water supply inside consumers' premises is protected; primarily by enforcing the Michigan Department of Environmental Quality (MDEQ) Law and Rules, and the Michigan Plumbing Law and Codes.

Other laws and regulations also play a part in protecting the water supply including the Fire Code and MIOSHA (Michigan Occupational Safety and Health Administration).

Consumers also have responsibilities for protecting the water supply by properly maintaining their plumbing systems in a safe condition according to the Michigan Plumbing & Residential Codes.

Due to a MDEQ mandate, the City of Troy is now required to implement a program to have all backflow assemblies on residential property tested for proper operation.

This may require a Licensed Plumbing Contractor that is certified in backflow assembly testing to access the property to perform testing on, and repair if necessary, all backflow assemblies.

Such assemblies are mostly on irrigation systems (and usually outside the house), and may also be connected to boilers, fire systems, water powered sump pumps, and other systems connected to the water supply that require protection.

Your prompt cooperation in this matter is greatly appreciated.

Enclosed is a form which must be filled out and sent back to the City.

If you do not have any testable backflow assemblies on your premises, please write in the notes section of the form that you do not have any testable assemblies connected to the water supply.

If you do have a testable assembly, then your plumber will test the backflow assembly, fill out the form, and return a copy to you and the City.

Typical backflow preventers on irrigation systems include the following:

TESTABLE Pressure Vacuum Breaker.

The most common type.

Valves are allowed downstream.

All piping, Nozzles, and sprinkler heads must be 12" or more below the assembly.

Allow for adequate drainage.

Note the 2 test ports sticking out the left side.



Other Non-testable Backflow Devices

Atmospheric Vacuum Breaker.

No Valves Allowed Downstream.

NOTE: There are no Test Ports on these devices. However, they should be periodically visually inspected to make sure they are operating properly.



Garden Hose Connections:

ASSE 1011 approved Hose Connection Vacuum Breakers are required on ALL hose bibs.

Non-Freeze types are recommended for use on outside hose bibs so they can be drained for winterization.

The device on the left must be manually drained. The device on the right automatically drains when the hose is disconnected.



As owner of the residential property listed below, by checking the box, I hereby declare that there is not an underground sprinkler system installed on this property.

Service Address

City TROY

State MI Zip

Customer - Please Print / Sign / Date

City of Troy

RESIDENTIAL - BACKFLOW ASSEMBLY TEST REPORT

Cross Connection Control - 4693 Rochester Rd, Troy, MI 48085-4928
248-524-3398 Desk 248-524-3520 Fax 248-524-3370 Ofc

r:20140331 TEST YEAR 2014

KAPCIAMR@TROYMI.GOV

Occupant			Contact		
Service Address			City TROY	State MI	Zip
Office Phone No.	Fax	E-Mail Address			

Owner			Contact		
Owner Address			City	State	Zip
Owner Phone No.	Fax	E-Mail Address			

Assembly Make	Model	Serial No.	Size	Type
Application				Location
				Height Above Floor or Ground Feet

Assembly Properly Installed?		Yes <input type="checkbox"/>	No <input type="checkbox"/>	ALL PSID READINGS MUST BE RECORDED		
First Test Date		-	-	Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	Test Time
Test Gauge Make		Model	Serial	Supply Line Static Pressure		
Last Annual Certification		-	-			
Status of Shutoff Valves During Test		#1 Check		#2 Check	Relief	
Closed Tight		RP >>				
Leaked						
Not Applicable						
		#2 Check Valve Confirmation Test >>				
Status of Shutoff Valves		Before		After		
		#1	#2	#1	#2	
Valves On		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Valves Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pressure Vacuum Breaker						
Air Inlet P		<input type="checkbox"/>	F	<input type="checkbox"/>	Check P	<input type="checkbox"/>
1-Hose PSID		.		1-Hose PSID	.	
2-Hose Direction of Flow Check Valve Test PSID		.		.	.	
Air Inlet Fully Open ?		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
Piping Backpressure ?		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	

ALL FAILED ASSEMBLIES MUST BE REPAIRED OR REPLACED WITHIN 15 DAYS BY A LICENSED PLUMBING CONTRACTOR

Second Test Date		-	-	Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	Test Time
Test Gauge Make		Model	Serial	Supply Line Static Pressure		
Last Annual Certification		-	-			
Status of Shutoff Valves During Test		#1 Check		#2 Check	Relief	
Closed Tight		RP >>				
Leaked						
Not Applicable						
		#2 Check Valve Confirmation Test >>				
Status of Shutoff Valves		Before		After		
		#1	#2	#1	#2	
Valves On		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Valves Off		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pressure Vacuum Breaker						
Air Inlet P		<input type="checkbox"/>	F	<input type="checkbox"/>	Check P	<input type="checkbox"/>
1-Hose PSID		.		1-Hose PSID	.	
2-Hose Direction of Flow Check Valve Test PSID		.		.	.	
Air Inlet Fully Open ?		Yes	<input type="checkbox"/>	NO	<input type="checkbox"/>	
Piping Backpressure ?		Yes	<input type="checkbox"/>	NO	<input type="checkbox"/>	

The assembly listed above was tested in accordance with applicable standards and the results were true at the time of testing.

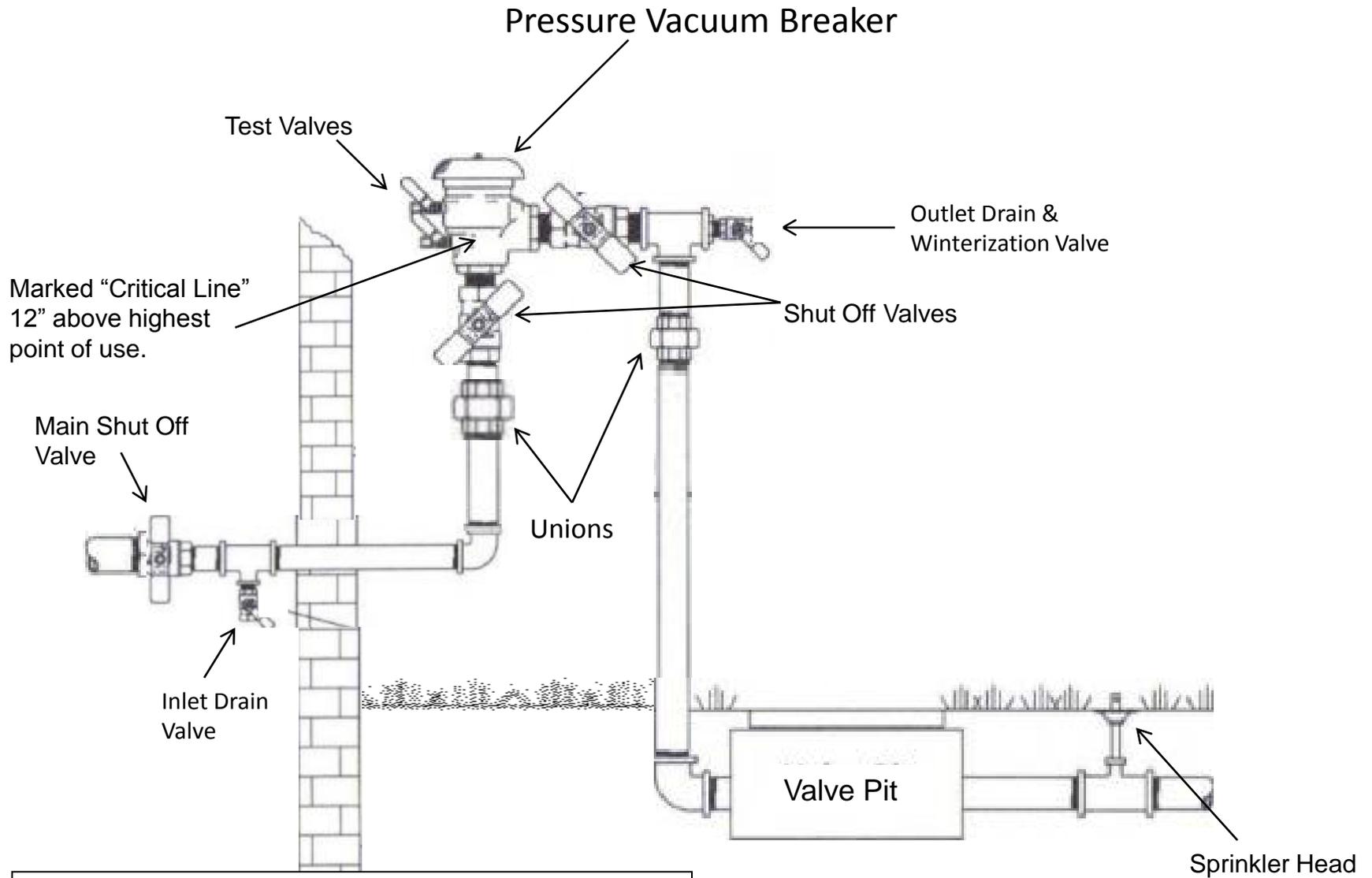
Testing Co		Phone		Fax	
Address		City		State	Zip
Tester's Name			Tester Signature		
Backflow Cert #		MI Plumbing License #		Plumbing Contractor License #	

ONLY LICENSED PLUMBERS WORKING FOR LICENSED PLUMBING CONTRACTORS ARE ALLOWED TO TEST BACKFLOW ASSEMBLIES

Michigan Codes require owners, occupants, and agents to have all plumbing systems maintained in proper operating condition.

Periodic testing of backflow assemblies is required by the Michigan Plumbing Code and the State of Michigan DEQ to protect the water supply.

There is no guarantee that this assembly will continue to operate because mechanical failure or contaminants in the water could cause the assembly to fail at any time.



Sample of Backflow Preventer Installation
On a Lawn Irrigation System