

ORDINANCE NO. 1416

AN ORDINANCE ADOPTING CROSS-CONNECTION CONTROL REGULATIONS TO PROTECT THE CITY'S WATER SUPPLY SYSTEM AND REVISING AND AMENDING THE FERNDALE MUNICIPAL CODE

WHEREAS, Chapter 246-290 of the Washington Administrative Code Rules and Regulations governing public drinking water supplies requires protection of the public drinking water supply from contamination due to cross-connections; and

WHEREAS, Chapter 246-290 of the Washington Administrative Code Rules and Regulations governing public drinking water supplies requires that all cross-connections be eliminated or controlled; and

WHEREAS, Chapter 246-290 of the Washington Administrative Code Rules and Regulations governing public drinking water supplies requires that the Water Purveyor develop and implement a cross-connection control program; and

WHEREAS, revisions to Chapter 246-290 of the Washington Administrative Code Rules and Regulations governing public drinking water supplies have been adopted April 9, 1999; and

WHEREAS, the City of Ferndale has completed a thorough assessment of the current cross-connection control program, and has determined that the current cross-connection program must be updated to address revisions to Chapter 246-290 of the Washington Administrative Code Rules and Regulations; and

WHEREAS, the City of Ferndale establishes the following cross-connection control ordinance to protect the public drinking water system from the risk of contamination due to cross-connections;

NOW, THEREFORE, the City Council of the City of Ferndale hereby ordains the following:

Section 1: "Ferndale Municipal Code Sections 13.04.164, 13.04.162 and Ordinance 808, are hereby repealed and replaced by Chapter 13.06 Cross-Connection Control Regulations

**Chapter 13.06 Cross-Connection Control Regulations**

**13.06.100 ABBREVIATIONS AND ACRONYMS**

DOH - Washington State Department of Health  
RCW - Revised Code of Washington (Laws of the State)  
WAC - Washington State Administrative Code

**13.06.110 DEFINITIONS**

"Approved air gap" means a physical separation between the free flowing end of a potable water supply pipeline and the overflow rim of an open or non-pressurized receiving vessel. To be an air gap approved by the DOH, the separation must be at least:

L Twice the diameter of the supply piping measured vertically from the overflow rim of the receiving vessel, and in no case be less than one inch, when unaffected by vertical surfaces (sidewalls); and

L Three times the diameter of the supply piping, if the horizontal distance between the supply pipe and a vertical surface (sidewall) is less than or equal to three times the diameter of the supply pipe, or if the horizontal distance between the supply pipe and intersecting vertical surfaces (sidewalls) is less than or equal to four times the diameter of the supply pipe and in no case less than one and one half inches.

**"Approved atmospheric vacuum breaker"** means an atmospheric vacuum breaker of make, model, and size that is approved by the DOH. Atmospheric vacuum breakers that appear on the current approved backflow prevention assemblies list developed by the University of Southern California Foundation for Cross Connection Control and Hydraulic Research, or that are listed, or approved by other nationally recognized testing agencies (such as the International Association of Plumbing and Mechanical Officials, American National Standards Institute, or Underwriter Laboratories) and acceptable to the local administrative authority are considered approved by the DOH.

**"Approved backflow preventer"** means an approved air gap, an approved backflow prevention assembly, or an approved atmospheric vacuum breaker, relied upon by the purveyor for the protection of the public water system. The requirements of WAC 246 290 490 do not apply to backflow preventers installed for other purposes.

**"Approved backflow prevention assembly"** means a reduced pressure backflow assembly, reduced pressure detector assembly, double check valve assembly, double check detector assembly, pressure vacuum breaker assembly, or spill resistant vacuum breaker assembly, of make, model, and size that is approved by the DOH. Assemblies that appear on the current approved backflow prevention assemblies list developed by the University of Southern California Foundation for Cross Connection Control and Hydraulic Research, or other nationally recognized testing agencies and acceptable to the local administrative authority are considered approved by the DOH.

**"Auxiliary water supply"** means a water supply, other than the purveyor's water supply, on or available to the consumer's premises.

**"Backflow"** means the undesirable reversal of flow of water or other substances through a cross connection into the public water system or consumer's potable water system by means of backpressure or backsiphonage.

**"Backpressure"** means a pressure (caused by a pump, elevated tank or piping, boiler, or other means) on the consumer's side of the service connection that is greater than the pressure provided by the public water system and which may cause backflow.

**"Backsiphonage"** means backflow due to a reduction in system pressure in the purveyor's distribution system and/or the consumer's water system.

**"Consumer"** means any person receiving water from a point of delivery of the public water system. For purposes of cross connection control, "consumer" means the owner or operator of a premise receiving water from a point on delivery of the public water system.

**"Consumer's water system"**, as used in WAC 246-290-490, means any potable and/or industrial water system that begins at a point of delivery from the public water system and is located on the consumer's premises. The consumer's water system includes all auxiliary sources of supply, storage, treatment, and distribution facilities, piping, plumbing, and fixtures under the control of the consumer.

**"Contaminant"** means a substance present in drinking water that may adversely affect the health of the consumer or the aesthetic qualities of the water.

**"Cross-connection"** means any actual or potential physical connection between a public water system or the consumer's water system and any source of non-potable liquid, solid, or gas that could contaminate the potable water supply by backflow.

**"Cross-connection control program"** means the administrative and technical procedures the water purveyor implements to protect the public water system from contamination via cross connections as required in WAC 246-290-490.

**"Cross-connection control specialist"** means a person holding a valid cross-connection control specialist certificate issued by DOH in accordance with chapter 246-292 WAC.

**"Director"** means Director of Public Works or duly authorized representative.

**"DOH"** means the Washington State Department of Health or health officer as identified in a joint plan of operation in accordance with WAC 246-290-030(1).

**"High health cross-connection hazard"** means a cross-connection that could impair the quality of potable water and create an actual public health hazard through poisoning or spread of disease by a contaminant source.

**"Human consumption"** means the use of water for drinking, bathing or showering, hand washing, food preparation, cooking, or oral hygiene.

**"In-premise protection"** means a method of protecting the health of consumers served by the consumer's potable water system, located within the property lines of the consumer's premise by the installation of an approved air gap or approved backflow prevention assembly at the point of hazard, which is generally a plumbing fixture.

**"Local administrative authority"** means the local official, board, department, or agency authorized to administer and enforce the provisions of the Uniform Plumbing Code as adopted under chapter 19.27 RCW.

**"Low health cross-connection hazard"** means a cross connection that could cause an impairment of the quality of potable water to a degree that does not create a hazard to the public health, but does adversely and unreasonably affect the aesthetic qualities of such potable waters.

**"Point of delivery"** means the point at which the consumer's water system connects to the public water system.

**"Potable"** means water suitable for human consumption.

**"Premise"** means a single building site, or single lot or aggregation of lots tied together by agreement for the purpose of obtaining a building permit or utility service.

**"Premise isolation"** means a method of protecting a public water system by installation of approved air gap or approved backflow prevention assembly at or near the service connection or alternative location acceptable to the purveyor to isolate the consumer's water system from the purveyor's distribution system.

**"Public water system"** means the water supply source, including all water treatment, storage, transmission and distribution facilities, to the point of delivery to the consumer.

**"Purveyor"** means the City of Ferndale, owner and operator of the public water system.

**"Service connection"** means the point of delivery from which potable water is provided to a single-family residence, or other residential or nonresidential population.

**"State board of health" and "board"** means the board created by RCW 43.20.030.

**"Uniform Plumbing Code"** means the code adopted under RCW 19.27.031(4) and amended under chapter 51 46 WAC. This code establishes statewide minimum plumbing standards applicable within the property lines of the consumer's premises.

**"Used water"** means water that has left the control of the purveyor.

#### **13.06.120 APPLICABILITY**

This Ordinance shall apply to all consumers with service connections to the purveyor's public water distribution system.

#### **13.06.130 PURPOSE**

1. Protect the public water system from contamination due to backflow through cross-connections; and
2. Eliminate or control cross-connections between the public water system and the consumer's water system.

#### **13.06.140 RESPONSIBILITY**

1. The consumer's responsibility for cross-connection control shall begin at the service connection.
2. Consumers shall be responsible for the:
  - i. Elimination of cross-connections when possible; or
  - ii. Control of cross-connections at the service connection (premise isolation); or
  - iii. Control of cross-connections, within the consumer's water system, by relying on in-premise protection when premise isolation is not required by WAC 246-290-490 and this method is approved by the Director.
3. Consumers are responsible for the installation, testing, inspection, repair, maintenance, and proper operation of approved backflow preventers required for the control of cross-connections between their premise and the public water system.

#### **13.06.150 GENERAL REQUIREMENTS**

1. The rules and regulations of the Washington State Department of Health as published in WAC 246-290-490 and hereby adopted by reference as they may be from time to time amended.
2. Consumers shall comply with the City's cross-connection control program policies and procedures as they may be from time to time amended.
3. An approved backflow preventer is required on all private fire lines, appropriate to the assessed degree of cross-connection health hazard, and shall incorporate a water meter for detecting water consumption. The approved backflow preventer shall be placed such that access for the City is provided to physically or electronically read the detecting meter.
4. Consumer shall permit periodic entry to their premise (in accordance with A new section or ----- or code here-----) by a cross-connection control specialist, for the determination of cross-connection health hazards and compliance with cross-connection control requirements.

#### **13.06.160 ENFORCEMENT**

1. In the event a consumer fails to comply with cross-connection control requirements, the Director shall have the authority to issue to the consumer a final order to achieve compliance with

this Ordinance, WAC 246-290-490 and or City cross-connection control policy and procedures, extent and time of the violation and the cross-connection control policy and procedures. The order shall include:

A. A description of the specific damage of the specific damage or potential damage that reasonably might occur;

B. A notice that the violation cease and desist and, in appropriate cases, the specific corrective actions to be taken;

C. That water service will be denied until corrective actions are completed or discontinued unless corrective actions are completed within a reasonable time to comply, depending on the circumstances.

D. The address, telephone number and contact person that the consumer may contact if a dispute exists as to the corrective action required;

E. That the consumer may request a hearing with the Hearings Examiner;

F. That the City will charge a shut-off and turn-on fee before service is resumed following discontinuance and/or impose civil penalties;

G. That the local administrative authority will be notified; and

H. That the service will not be shut off while a hearing is pending.

2. The local administrative official shall be notified prior to the City:

A. Denying water service; or

B. Discontinuing water service.

3. When an unprotected connection between the public water system and the consumer's water system constitutes an imminent threat of contamination to the City's public water system, water service may be shut off immediately without the notices provided above. In that case, notice of shut-off, corrective action, and appeal procedures and notice to the local administrative official shall be sent immediately upon such action being taken.

### 13.06.170 CIVIL PENALTY

1. In addition to any other remedy or sanction available, a consumer who fails to comply with a final order issued by the Director or Hearings Examiner pursuant to this chapter or who fails to conform to the terms of an approval issued, shall be subject to a civil penalty.

A. Amount of Penalty. The penalty shall be not less than \$100.00 or exceed \$5,000.00 for each violation. Each day of continued violation or repeated violation shall constitute a separate violation.

B. Aiding or Abetting. Any person who, through an act of commission, or omission, aids or abets in the violation shall be considered to have committed a violation for the purpose of the civil penalty.

C. Notice of Penalty. A civil penalty shall be imposed by the Director, by notice in writing, which shall be served either by certified mail with return receipt requested or by personal service, to the person incurring the same. The notice shall describe the violation, the date(s) of violation, and shall order the acts constituting the violation to cease and desist, and, in appropriate cases, require necessary corrective action within a specific time.

D. Appeal of Civil Penalty. Persons incurring a penalty imposed by the Director may appeal in writing within 10 days of the receipt of the notice of penalty to the Hearings Examiner. The Hearings Examiner shall hold a hearing to consider the appeal and may affirm, modify or reverse the penalty. Review of the Hearings Examiner's decision may be obtained by filing an action for a writ of certiorari with a court of competent jurisdiction within 10 days of the date of the decision.

2. Penalties imposed under this Section shall become due and payable 10 days after notice of the penalty is mailed or delivered, whichever occurs first, unless an appeal is filed. Whenever an appeal is made, penalties shall become due and payable after a final decision has been issued confirming all or part of the penalty. If the amount of a penalty owed is not paid within the time specified in this Section, the City may take actions necessary to recover such penalty.


3. Penalties shall be paid to the water fund.


**13.06.180 OPERATING POLICIES**

The Director shall promulgate and implement the City's policy on cross-connection control for the operation of the Cross-Connection Control Program. The Cross-Connection Control Program policy shall be enforced under the requirements of the City's Cross-Connection Control Ordinance.

PASSED by the Council of the City of Ferndale, Washington, on this 18<sup>th</sup> day of December 2006.

ATTEST:

  
Jerry Landcastle, Mayor

  
Linda Knutson, City Clerk

**The City of Ferndale  
Cross-Connection Control Program  
Policy and Procedures**

**DRAFT**

October 25, 2006

TABLE OF CONTENTS

I. Purpose..... 3  
 II. Legal Requirements and References..... 3  
 III. Guidance Manuals ..... 3  
 IV. Cross-Connection Control Responsibilities..... 3  
 V. Permits and Fees ..... 5  
 VI. Plan Review of New and Modified Construction..... 6  
 VII. Unprotected High Health Hazard Cross-Connections ..... 6  
 VIII. Requirements for Backflow Prevention device Type..... 6  
 IX. Installation Requirements for Backflow Prevention devices..... 7  
 X. Mobile Apparatus ..... 9  
 XI. Inspecting Consumer Premises for Cross-Connection Hazards ..... 9  
 XII. Testing and Inspection of Backflow Prevention device Installations..... 10  
 XIII. Notification Process for Corrective Actions ..... 12  
 XIV. City Reporting Requirements to DOH..... 12  
 XV. City Public Education program..... 13  
 XVI. Training for City Staff ..... 13  
 XVII. Definitions, Abbreviations, and Acronyms ..... 13  
 XVIII. Appendices.....**Error! Bookmark not defined.**

DOH regulations(WAC 246-290)..... 19  
 City Ordinance(-----)..... 19  
 City Procedures..... 19  
 Standard Plans and Specifications ..... 19  
 Approved Backflow Prevention device List..... 19  
 Latest Annual Summary Report ..... 19  
 Backflow Incident Reports ..... 19  
 Sample Notification Letters..... 19  
 Copies of Public Education Materials ..... 19  
 List of Backflow Assembly Testers..... 19

# The City of Ferndale

## Cross-Connection Control Program

### POLICY AND PROCEDURES

#### I. PURPOSE

- A. The City of Ferndale (City) establishes this policy to protect the public water system from the risk of contamination due to cross-connections.

#### II. LEGAL REQUIREMENTS AND REFERENCES

- A. This policy is based on requirements of:
1. Washington State Department of Health Drinking Water Regulations (WAC 2246-290-490) and future amendments thereto;
  2. State of Washington Uniform Plumbing Code (WAC 51-46) and Plumbing Code amendments (WAC 51-47) and future amendments thereto;
  3. The City Cross-Connection Control Municipal Code (-----)and future amendments thereto; and
  4. The City Uniform Plumbing Municipal Code (-----).

#### III. GUIDANCE MANUALS

- A. The City uses the following references, as a minimum standard, to guide the operation of this program:
1. Most current edition of *Cross-Connection Control Manual, Accepted Procedure and Practice*, published by the Pacific Northwest Section of the American Water Works Association; and
  2. Most current edition of *Manual of Cross-Connection Control*, published by the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California.

#### IV. CROSS-CONNECTION CONTROL RESPONSIBILITIES

- A. The City has the following responsibilities:
1. The City's responsibility for cross-connection control begins at the water supply source, includes all the public water treatment, storage and distribution facilities, and ends at the point of delivery to the consumer's water system;
  2. The City enforces the rules and regulations of the Washington State Department of Health as published in WAC 246-290 and as they may be from time to time amended;

3. The City enforces the rules and regulations of the State of Washington as published in the Uniform Plumbing Code, and as they may be from time to time amended;
  4. The City enforces the Ferndale Municipal Code (FMC -----), which regulates cross connection control, as it may be from time to time amended;
  5. The City may deny or discontinue water service to any consumer connected to the City's water system who fails to cooperate to eliminate or control cross-connections; and
  6. The City has a right to access, at all reasonable times, all parts of the consumer's premises for the purpose of assessing the degree of hazard posed to the City's water system by the consumer's water system (FMC-----).
- B. The City Public Works Director (Director), or duly authorized representative, has the following responsibilities:
1. The Director administers the City's cross-connection control program;
  2. The Director, at his or her discretion, may approve, in writing, exceptions to the City's cross-connection control program policies and procedures;
  3. The Director coordinates with the City Building Official on all on matters of cross-connection control within the corporate limits of the City of Ferndale; and
  4. The Director coordinates with the Whatcom County Building Official (County Building Official) on all on matters of cross-connection control within the City water utility service area located outside the corporate limits of the City of Ferndale.
- C. The City Building Official has the following responsibilities:
1. The City Building Official approves all cross-connection control policies and procedures within his or her jurisdiction; and
  2. The City Building Official coordinates with the Director on all matters of cross-connection control within the corporate limits of the City of Ferndale.
- D. The County Building Official has the following responsibilities:
1. The County Building Official approves all cross-connection control policies and procedures within his or her jurisdiction.
  2. The County Building Official coordinates with the Director on all matters of cross-connection control within the City's water utility service area.
- E. The City Cross-Connection Control Program Administrator (Program Administrator) has the following responsibilities:
1. The Program Administrator manages the day-to-day operation of the City's cross-connection control program;
  2. The Program Administrator maintains current Washington State

certification as a cross-connection control specialist; and

3. The Program Administrator coordinates with the Director and City and County Building Officials on all matters of cross-connection control.

F. The City Cross-Connection Control Specialist(s) (Specialist(s)) have the following responsibilities:

1. The Specialist(s) reviews all new and remodel construction plans for cross-connection control;
2. The Specialist(s) maintains current Washington State certification as cross-connection control specialist; and
3. The Specialist(s) inspects premises and temporary uses to determine cross-connection health hazards and proper backflow prevention device installation.

G. The consumer has the following responsibilities:

1. The consumer's responsibility for cross-connection control begins downstream of the City service connection shutoff valve or water meter, generally located within the public right-of-way or utility easement in favor of the City of Ferndale;
2. The consumer eliminates or controls cross-connections between the consumer's water system and the City water system through the installation, annual testing and maintenance of approved backflow prevention devices;
3. The consumer provides information and pays all fees necessary for required City permits and approvals;
4. The consumer allows the City entry and access to their premises for the purpose of determining the degree of cross-connection health hazard existing in the consumer's premises and for the inspection of backflow prevention device installations; and
5. The consumer's failure to complete required backflow prevention device testing or to correct an existing cross-connection problem or potential risk will incur penalties as outlined within most current cross connection ordinance and carried out by the City. If a problem does cause harm to the City's public water system and/or other private parties connected to the City's public water system, the consumer will be solely liable for any and all such occurrences.

## V. PERMITS AND FEES

- A. The City provides occupancy and/or water service to new premises after the consumer has paid all appropriate fees and received all applicable and/or required permits and approvals;
- B. The City may revoke and/or discontinue occupancy permits and/or water service

to premises being modified until the consumer has paid all appropriate fees and received all applicable and/or required permits and approvals;

- C. The City incorporates the following permit fee schedules to recover City costs for cross-connection control plan review and inspections:
  - 1. Plumbing permit fees;
  - 2. Plan review fees;
  - 3. UBC Building Code fees;
  - 4. Permit, plan review and inspection fees;
  - 5. Mechanical permit fees;
  - 6. Water service connection fees; and
  - 7. Installation permit fees.

## **VI. PLAN REVIEW OF NEW AND/OR MODIFIED CONSTRUCTION**

- A. The City Building Official and Director coordinate plan review for new and/or modified construction to assess degree of cross-connection health hazard, determine backflow prevention device requirements and applicable permits and appropriate fees; and
- B. Civil design plans shall clearly show cross connection control devices for new development projects or revisions to existing buildings or infrastructure. All civil design plans shall display any cross-connection devices that are required for installation by the contractor. City staff may require the addition of backflow prevention devices to design plans as part of the review process.

## **VII. UNPROTECTED HIGH HEALTH HAZARD CROSS-CONNECTIONS**

- A. Within 24 hours of discovery, the City may deny or discontinue water service to any premises where an unprotected high health cross-connection hazard has been found to exist. The City will restore water service after the consumer has clearly demonstrated the elimination or has appropriately controlled the cross-connection; and
- B. Within 24 hours of discovery, the City may deny or discontinue water service to any premises upon which an auxiliary water supply system exists and is used and/or operated such that an unprotected high health cross-connection hazard exists. The City will restore water service after the consumer has clearly demonstrated the elimination or has appropriately controlled the cross-connection.

## **VIII. REQUIREMENTS FOR BACKFLOW PREVENTION DEVICE TYPE**

- A. The City requires any backflow prevention device installed by the consumer must be an approved backflow prevention device; on the most current Wahington State Department Of Health approved backflow list.

- B. The City specifies type of backflow prevention device required, based on the assessed degree of cross-connection health hazard;
- C. The City requires, at minimum, an approved air gap (AG) or approved reduced pressure backflow assembly (RPBA) if a high health cross-connection hazard exists;
- D. The City requires, at minimum, an approved double check valve assembly (DCVA) if a low health cross-connection hazard exists. The consumer may install higher levels of protection (i.e., an approved AG or approved RPBA) at their discretion;
- E. The City allows, at minimum, an approved pressure vacuum breaker assembly (PVBA) if a low health cross-connection hazard exists and there is no possibility of backpressure. The consumer may install a higher level of protection (i.e. an approved AG, approved RPBA, or an approved DCVA) at their discretion;
- F. The City allows an approved atmospheric vacuum breaker (AVB) on landscape irrigation systems if a low health cross-connection hazard exists, and there is no possibility of backpressure. The consumer may install a higher level of protection (i.e. an approved AG, approved RPBA, or an approved DCVA) at their discretion;
- G. The City requires an approved double check detector assembly (DCDA) on all private fire lines if a low health cross-connection hazard exists. The consumer shall install all DCDA's so the City has access to physically or electronically read the detecting meter;
- H. The City requires an approved reduced pressure detector assembly (RPDA) on all private fire lines if a high health cross-connection hazard exists. The consumer shall install all RPDA's so the City has access to physically or electronically read the detecting meter;
- I. The City requires an approved AG and/or approved RPBA at the service connection and located within an easement in favor of the City of Ferndale when the consumer, for security or propriety reasons, refuses or denies the City entry and access;
- J. The City prohibits bypassing backflow prevention devices unless the bypass is protected with a backflow prevention device the same type as the backflow prevention device being bypassed;
- K. The City requires an approved RPBA if any potable water system is to be directly plumbed and/or connected to a swimming pool, sauna, or hot tub; and
- L. The City requires an AG or approved RPBA be installed upstream on the water supply connected to any and all aspirator type equipment capable of introducing any substance into the water line.

**IX. INSTALLATION REQUIREMENTS FOR BACKFLOW PREVENTION DEVICES**

- A. The City requires approved backflow prevention device installations in accordance with the most recent edition of Cross-Connection Control Manual, Accepted Procedure and Practice, published by the Pacific Northwest Section of the American Water Works Association, and with this policy;
- B. The City requires installation of approved backflow prevention devices at the service connection to meet premise isolation requirements. The City may approve an alternate location on a case-by-case basis;
- C. The City may approve in-premises protection on a case-by-case basis. The City must approve all such in-premises protection;
- D. The City requires approved backflow prevention devices be installed in locations that are accessible for testing, maintenance and inspection;
- E. The City requires backflow prevention assemblies to be installed above ground unless prior written permission is obtained from the City, with the exception that approved DCVAs on landscape irrigation systems may be installed underground if installed as shown in the City's landscape irrigation installation standard drawing;
- F. The City requires backflow prevention devices installed so that the centerline of the assembly is higher than five (5) feet above the floor or ground surface be provided with a permanently attached work platform to allow the backflow prevention device be inspected, tested and maintained;
- G. The City requires backflow prevention devices be protected against freezing, flooding and mechanical damage;
- H. The City requires backflow prevention devices be installed outside of any enclosure or area that could potentially fill with fumes which are or may become corrosive or toxic;
- I. The City requires backflow prevention devices be installed where water spilt from the device during normal operation, inspection, testing or maintenance will not create a hazard or cause damage. The consumer must provide an adequate drainage system that can handle the discharge of water caused by any means;
- J. The City requires RPBA's and DCVAs to be installed horizontally unless listed for other installation orientations in the most current edition of Backflow Prevention Assemblies Approved for Installation in Washington State, published by the Washington State Department of Health; and
- K. The City allows installation of vacuum breakers as in-premises isolation in accordance with the most recent edition of Cross Connection Control Manual, Accepted Procedure and Practice, published by the Pacific Northwest Section of the American Water Works Association, with the following exception:
  - 1. Vacuum breakers shall not be installed where there is any chemical addition capability (e.g. dishwasher supply lines with automatic detergent dispensing, chemical feeders or aspirators).

**X. MOBILE APPARATUS**

- A. Any mobile apparatus that uses the City's water system or water from any premises served by the City's water supply shall use an approved backflow prevention assembly or AG at the point of connection to the public water system and shall obtain a permit of such connection from the City. Such backflow prevention assemblies shall have been positively tested within the 12-month period prior to their temporary connection to the City's water system.

**XI. INSPECTING CONSUMER PREMISES FOR CROSS-CONNECTION HAZARDS**

- A. The City assigns priorities to schedule inspections of existing consumer premises, with special emphasis placed on the type of premises listed in Table 9 of WAC 246-290-490 (4) (B), and future amendments thereto;
- B. The City conducts joint inspections with a representative of the local administrative authority when necessary;
- C. The City inspects premises prior to allowing the removal of any approved backflow prevention device that the consumer believes is no longer needed;
- D. The City inspects consumer premises to assess the degree of cross-connection hazard to the City water system as described below:
  - 1. The City shall inspect consumer premises prior to authorizing water service activation or issuing an occupancy permit;
  - 2. The City shall conduct inspections of existing premises according to the following schedule and conditions:
    - i. Within five years of the date of adoption of this policy, the City's goal is to inspect all known high health cross-connection hazard premises; and
    - ii. Within seven years of the date of adoption of this policy, the City's goal is to inspect all known low health cross-connection hazard premises.
  - 3. The City conducts re-inspections of consumer premises as follows:
    - i. The City re-inspects consumer premises of the type listed in Table 9, WAC 246-290-490, and future revisions thereto, any time a building, plumbing or remodel permit is applied for; after a backflow incident; whenever water quality concerns arise; or at least every ten years from the date of the prior inspection; and
    - ii. The City re-inspects other consumer premises any time a building, plumbing or remodel permit is applied for; after a backflow incident; whenever water quality concerns arise; or at least every ten years from the date of the prior inspection.
  - 4. The City requires existing premises, without the required approved backflow prevention device, to be retrofitted within the following time frame:

- i. Within 30 days of the City sending notice, all premises determined to be a high health cross-connection hazard shall have a backflow prevention device commensurate with the degree of hazard installed, tested and found to be functioning acceptably, as required by this policy;
  - ii. Within 90 days of the City sending notice, premises determined to be a low health cross-connection hazard shall have a backflow prevention device commensurate with the degree of hazard installed, tested and found to be functioning acceptably, as required by this policy;
  - iii. Within 10 days of the City sending notice, the consumer may submit a written request for a time extension to the requirements listed above, not to exceed 18 months, to comply with the backflow prevention device installation and/or testing requirements. The City may grant an extension of the time frame for installation and testing of the required backflow prevention devices in writing.
- 5. Temporary fire hydrant use shall comply with the following:
  - i. The City inspects equipment or processes, when a bulk water permit for temporary water service has been submitted, in order to establish the degree of cross-connection hazard posed by the requested use;
  - ii. The City requires an approved backflow prevention device appropriate for the degree of cross-connection health hazard;
  - iii. The consumer submits a completed backflow assembly test report form to the City prior to a bulk water permit is issued; and
  - iv. The consumer completes a bulk water permit application and pays all applicable fees.

**XII. TESTING AND INSPECTION OF BACKFLOW PREVENTION DEVICE INSTALLATIONS**

- A. The City inspects all new backflow prevention device installations including AGs used in lieu of approved backflow prevention assemblies;
- B. A Washington State Department of Health (DOH) certified cross-connection control specialist inspects all approved AVBs used as backflow prevention on landscape irrigation systems at the time of installation;
- C. A DOH certified backflow assembly tester (BAT) inspects all replacement installations of approved backflow prevention devices, including AGs used in lieu of approved backflow prevention assemblies, as part of the required testing of the replacement installation. The City verifies that the backflow prevention device is of a type acceptable for the assessed degree of cross-connection health hazard;
- D. The City requires approved backflow prevention assemblies be tested using

procedures acceptable to the DOH, such as those specified in the most current edition of *Manual of Cross-Connection Control*, published by the Foundation for Cross-Connection Control and Hydraulic Research, University of Southern California. The City accepts alternate backflow testing procedures in specific circumstances; however, only alternate procedures approved by the DOH may be used;

- E. Washington State Department of Health requires certified BATs inspect all approved AG installations and test all approved backflow prevention assembly installations;
- F. Consumers must have approved backflow prevention assemblies tested:
  - 1. at the time of installation;
  - 2. at least annually after installation;
  - 3. after a backflow incident;
  - 4. after an assembly is repaired or replaced; and/or
  - 5. anytime an assembly is reinstalled or relocated.
- G. The City inspects approved AGs, installed in lieu of approved backflow prevention assemblies, at the time of installation;
- H. The consumer shall have approved AGs, installed in lieu of approved backflow assemblies, inspected:
  - 1. at least annually after installation;
  - 2. after an air gap is repaired;
  - 3. after a backflow incident; and/or
  - 4. any time the air gap is re-plumbed and/or relocated.
- I. The consumer shall pay for all testing of approved backflow prevention assemblies and all inspections of approved AGs;
- J. The consumer shall have approved AVBs used as backflow prevention on landscape irrigation systems inspected:
  - 1. at the time of installation;
  - 2. after a backflow incident; and/or
  - 3. after repair, reinstallation, and/or relocation.
- K. The City may require the consumer to have testing and inspection of approved backflow prevention devices performed more frequently than as specified within this policy, or City forces may field verify the test and inspection results;
- L. The City maintains a list of BATs willing to test backflow assemblies in the City's water service area. The City does not set or control the fees charged by the BATs, nor does the City recommend any BAT on the list over other BATs;
- M. Backflow assembly testers desiring to be on the City's list of BATs must submit the following to the City:

1. current copy of DOH backflow assembly certification;
  2. current copy of test kit calibration or accuracy report. The test kits must be verified for accuracy or calibrated annually;
  3. current proof of liability insurance;
  4. current copy of Washington State business license;
  5. City business license number;
  6. current mailing address; and
  7. current telephone number where the City can contact the BAT during regular working hours.
- N. Backflow assembly testers complete and submit a City backflow assembly test report form for each backflow prevention device tested and/or inspected. The City will furnish backflow assembly test report forms upon request;

### **XIII. NOTIFICATION PROCESS FOR CORRECTIVE ACTIONS**

- A. The City issues the following notifications when a consumer does not meet the requirements outlined within this policy:
1. The City sends a notice to the consumer listing corrective actions needed to meet cross-connection requirements. The notice will reference a time schedule for compliance;
  2. The City sends a second letter (via United States Postal Service, Certified Mail, Return Receipt Requested) notifying the consumer of corrective action needed and time schedule to meet cross connection requirements. The second letter will include a reminder to the consumer that the City may discontinue or deny water service for non-compliance. The City sends the local administrative authority a copy of the second letter, if applicable;
  3. The City sends a final order (via Certified Mail, Return Receipt Requested) notifying the consumer of the City's intent to deny or discontinue water service on a specified date if compliance has not been achieved or other arrangements with the City have been made (code-----);
  4. The consumer is subject to civil penalties for non-compliance with the final order (see code-----); and
  5. Consumers may appeal the final order by requesting a hearing with the Hearings Examiner (see code-----).

### **XIV. CITY REPORTING REQUIREMENTS TO THE WASHINGTON STATE DEPARTMENT OF HEALTH**

- A. The City completes and submits an annual cross-connection control program summary report to DOH; and
- B. The City completes a backflow incident report when a backflow occurrence is

discovered or reported to the City.

## **XV. CITY PUBLIC EDUCATION PROGRAM**

- A. The City maintains a cross-connection control program page on its website. The web page includes the City cross-connection control ordinance, the City of Ferndale Cross Connection Program Policy and Procedures, links to DOH regulations on cross-connection control, a list of approved backflow prevention devices, the list of City BATs, the most recent annual summary report submitted to DOH, City contact information, and links to other cross-connection web sites;
- B. The City develops and/or obtains brochures and other information for consumers. Information will be located at public counters, sent to BATs, and included in the web page; and
- C. The City provides public education and awareness using the utility bills and city web site.

## **XVI. TRAINING FOR CITY STAFF**

- A. The City facilitates employee training to maintain DOH certifications. Non-certified employees who have responsibility for design, inspection, operation and maintenance of the City water system receive periodic training through professional training opportunities and educational organizations, and/or through in-house or on-the-job training from currently certified employees.

## **XVII. ACRONYMS, ABBREVIATIONS AND DEFINITIONS**

### ***ACRONYMS AND ABBREVIATIONS:***

<b><i>AG</i></b>	air gap
<b><i>APWA</i></b>	American Public Works Association
<b><i>AVB</i></b>	atmospheric vacuum breaker
<b><i>AWWA</i></b>	American Water Works Association
<b><i>BAT</i></b>	backflow assembly tester (for WAC 246-290-490)
<b><i>CCS</i></b>	cross-connection control specialist
<b><i>CCR</i></b>	consumer confidence report
<b><i>DCDA</i></b>	double check detector assembly
<b><i>DCVA</i></b>	double check valve assembly
<b><i>DOH</i></b>	Washington State Department of Health
<b><i>IBC</i></b>	International Building Code
<b><i>NSF</i></b>	National Sanitation Foundation
<b><i>PVBA</i></b>	pressure vacuum breaker assembly

<b>RCW</b>	Revised Code of Washington
<b>RPBA</b>	reduced pressure backflow assembly
<b>RPDA</b>	reduced pressure detector assembly
<b>SDWA</b>	Safe Drinking Water Act
<b>SVBA</b>	spill resistant vacuum breaker assembly
<b>UL</b>	Underwriters Laboratories, Inc.
<b>UPC</b>	Uniform Plumbing Code
<b>WAC</b>	Washington Administrative Code

**DEFINITIONS:**

**Approved air gap** - A physical separation between the free-flowing end of a potable water supply pipeline and the overflow rim of an open or nonpressurized receiving vessel. To be an approved air gap (i.e., approved by DOH) the separation must be at least:

- Twice the diameter of the supply piping measured vertically from the overflow rim of the receiving vessel, and in no case be less than one inch, when unaffected by vertical surfaces (sidewalls); and
- Three times the diameter of the supply piping, if the horizontal distance between the supply pipe and a vertical surface (sidewall) is less than or equal to three times the diameter of the supply pipe, or if the horizontal distance between the supply pipe and intersecting vertical surfaces (sidewalls) is less than or equal to four times the diameter of the supply pipe and in no case less than one and one-half inches.

**Approved atmospheric vacuum breaker** - An AVB of make, model, and size that is approved by DOH. AVBs that appear on the current approved backflow prevention assemblies list developed by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research or that are listed or approved by other nationally recognized testing agencies acceptable to the local administrative authority are considered approved by the DOH.

**Approved backflow prevention device** - An approved air gap, an approved backflow prevention assembly or an approved AVB. The terms *approved backflow prevention device*, *approved air gap*, or *approved backflow prevention assembly* refer only to those approved backflow prevention devices relied upon by the City for the protection of the public water system. The requirements of WAC 246-290-490 do not apply to backflow prevention devices installed for other purposes.

**Approved backflow prevention assembly** - An RPBA, RPDA, DCVA, DCDA, PVBA or SVBA of make, model, and size that is approved by DOH. Assemblies that appear on the current approved backflow prevention assemblies list developed by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research or other entity acceptable to DOH are considered approved by DOH.

**Backflow** - The undesirable reversal of flow of water or other substances through a cross-connection into the public water system or that portion of the consumer's water system providing potable water.

**Backflow assembly tester** - A person holding a valid BAT certificate issued in accordance with WAC 246-290-490.

**Backpressure** - A pressure, caused by a pump, elevated tank or piping, boiler, or other means, on the consumer's side of the service connection that is greater than the pressure provided by the public water system and which may cause backflow.

**Backsiphonage** - Backflow due to a reduction in system pressure in the City's distribution system and/or consumer's water system.

**Change in fixtures** - Any alteration of plumbing fixtures on a premises that would increase backflow hazards as identified on the Water Usage Questionnaire (Exhibit B). This is distinct from "Change in Use" in District Code 7.04.040, which implies a change in Equivalent Living Units (ELUs).

**Consumer** - Any person receiving water from a public water system from either the meter or the point where the service line connects with the public water system if no meter is present. For purposes of cross-connection control, *consumer* means the owner or operator of a water system connected to a public water system through a service connection.

**Consumer's water system** - (as used in WAC 246-290-490) means any potable and/or industrial water system that begins at the point of delivery from the public water system and is located on the consumer's premises. The consumer's water system includes all auxiliary sources of supply, storage, treatment, and distribution facilities, piping, plumbing, and fixtures under the control of the consumer.

**Contaminant** - A substance present in drinking water that may adversely affect the health of the consumer or the aesthetic qualities of the water.

**Cross-connection** - Any actual or potential connection or physical arrangement between a public water system or the consumer's water system and any source of non-potable liquid, solid, or gas that could contaminate the potable water supply by backflow. Bypass arrangements, jumper connections, removable sections, swivel or change-over devices, and other temporary, permanent or potential connections through which, or because of which, backflow could occur are considered to be cross-connections.

**Cross-connection control program** - The administrative and technical procedures the City implements to protect the public water system from contamination via cross-connections, as required in WAC 246-290-490.

**Cross-connection control specialist** - A person holding a valid CCS certificate issued in accordance with WAC 246-290-490.

**Cross-connection control summary report** - The annual report that describes the status of the purveyor's cross-connection control program.

**Department** - DOH or DOH health officer as identified in a joint plan of operation in

accordance with WAC 246-290-030(1).

**Direct service connection** - A service hookup to a property that is contiguous to a water distribution main and where additional distribution mains or extensions are not needed to provide service.

**Distribution system** - All piping components of a public water system that serve to convey water from transmission mains linked to source, storage and treatment facilities to the consumer, excluding individual services.

**Domestic or other non-distribution system plumbing problem** - Contamination of a system having more than one service connection with the contamination limited to the specific service connection from which the sample was taken.

**Emergency** - An unforeseen event that causes damage or disrupts normal operations and requires immediate action to protect public health and safety.

**Flow-through fire protection system** - A fire sprinkler system that:

- Is supplied only by the purveyor's water;
- Does not have a fire department pumper connection;
- Is constructed of approved potable water piping and materials to which sprinkler heads are attached; and
- Terminates at a connection to a toilet or other plumbing fixture to prevent the water from becoming stagnant.

**Guideline** - A DOH document assisting the purveyor in meeting a rule requirement.

**Health officer** - The Health Officer of the City, county, county health department, or an authorized representative.

**High health cross-connection hazard** - A cross-connection that could impair the quality of potable water and create an actual public health hazard through poisoning or spread of disease by sewage, industrial liquids or waste.

**Human consumption** - The use of water for drinking, bathing or showering, hand washing, food preparation, cooking, or oral hygiene.

**In-premises protection** - A method of protecting the health of consumers served by that portion of the consumer's water system providing potable water, by the installation of an approved air gap or backflow prevention assembly at the point of hazard within the property lines of the consumer's premises. The hazard is generally a plumbing fixture.

**Local administrative authority** - The local official, City, department or agency authorized to administer and enforce the provision of the Uniform Plumbing Code as adopted under RCW 19.27. This term refers to Whatcom County where the City serves within an unincorporated area.

**Low health cross-connection hazard** - A cross-connection that could cause an impairment of the quality of potable water to a degree that does not create a hazard to the public health, but does adversely and unreasonably affect the aesthetic qualities of such potable waters for domestic use.

**Potable** - Water suitable for drinking by the public.

**Premises isolation** - A method of protecting a public water system by installation of approved air gaps or approved backflow prevention assemblies at or near the service connection or alternative location acceptable to the purveyor to isolate the consumer's water system from the purveyor's distribution system.

**Public water system** - Defined and referenced under WAC 246-290-020. As used herein, public water system refers to the City's water system.

**Purveyor** - The City of Ferndale.

**Resident** - An individual living in a dwelling unit served by a public water system.

**Secondary standards** - Standards based on factors other than health effects.

**Unapproved auxiliary water supply** - A water supply (other than the purveyor's water supply) on or available to the consumer's premises that is either not approved for human consumption by the health agency having jurisdiction or is not otherwise acceptable to the purveyor.

**Uniform Plumbing Code** - The code adopted under RCW 19.27.031(4) and amended under WAC 51-46. This code establishes state-wide minimum plumbing standards applicable within the property lines of the consumer's premises.

**Used water** - Water which has left the control of the purveyor.



To be added.....

**DOH regulations(WAC 246-290)**

**City Ordinance(-----)**

**City Procedures**

**Standard Plans and Specifications**

**Approved Backflow Prevention device List**

**Latest Annual Summary Report**

**Backflow Incident Reports**

**Sample Notification Letters**

**Copies of Public Education Materials**

**List of Backflow Assembly Testers**

# City of Ferndale

## Water Use Questionnaire (Single Family Residential)

te \_\_\_\_\_  New Water Service       Existing Water Service       Change In Use

Account # \_\_\_\_\_ Phone Number: (\_\_\_\_) \_\_\_\_\_

Name: \_\_\_\_\_

Service Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

**Please indicate if your home has, or will have, any of the following:**

<p>.1 <input type="checkbox"/> Access Denied or Restricted Locations</p> <p>.2 <input type="checkbox"/> Agricultural Facilities (Livestock)</p> <p>.3 <input type="checkbox"/> Air Condition System (Direct Connection)</p> <p>.4 <input type="checkbox"/> Aquarium (Direct Connection)</p> <p>.5 <input type="checkbox"/> Below Ground Hose Connections (Box Hydrants, Etc.)</p> <p>.6 <input type="checkbox"/> Booster Pumps</p> <p>.7 <input type="checkbox"/> Decorative Ponds or Fountains</p> <p>.8 <input type="checkbox"/> Dialysis Machine</p> <p>.9 <input type="checkbox"/> Fire Sprinkler System</p> <p>10 <input type="checkbox"/> Greenhouse</p> <p>11 <input type="checkbox"/> Heat Exchangers</p> <p>12 <input type="checkbox"/> Heat Pumps</p> <p>13 <input type="checkbox"/> Hot Tub, Pool, or Spa</p> <p>14 <input type="checkbox"/> Hot Water Heating Boilers (Radiant Heating Systems)</p>	<p>15 <input type="checkbox"/> Irrigation System</p> <p>.16 <input type="checkbox"/> Pet Cleaning Basins</p> <p>.17 <input type="checkbox"/> Piers, Docks, or Marinas</p> <p>18 <input type="checkbox"/> Plumbing 30' Above Water Meter</p> <p>.19 <input type="checkbox"/> Premises with Other Water Supply Connected with Potable Water</p> <p>.20 <input type="checkbox"/> Recreational Vehicle Sewage Dump or Tank</p> <p>21 <input type="checkbox"/> Solar Water Heating System</p> <p>22 <input type="checkbox"/> Swamp Cooler</p> <p>23 <input type="checkbox"/> Trap Primers</p> <p>24 <input type="checkbox"/> Tubs (Below The Rim Fill)</p> <p>.25 <input type="checkbox"/> Used, Reclaimed, or Gray Water Systems</p> <p>26 <input type="checkbox"/> Vehicle Maintenance Shop (Degreasing Equipment, etc.)</p> <p>.27 <input type="checkbox"/> Waste Water Pump</p> <p>28 <input type="checkbox"/> Water Treatment Equipment (e.g., Softener)</p>
---	--

Please provide the information below for all products that will be mixed with water and/or chemicals stored on your premises: Exclude normal household chemicals that are not stored in abnormal quantities

Product / Chemical	Quantity On-site	Use
_____	_____	_____
_____	_____	_____
_____	_____	_____

I hereby acknowledge that the questionnaire above is filled out to the best of my knowledge and will notify the District and the Local Administrative Authority if there is a change in use of my water service connection. I agree to install a backflow prevention device as required by the District and its cross connection control program, and to allow the District reasonable access to the property to inspect or test the device.

Signature (Owner/Representative) \_\_\_\_\_ Name (Please print) \_\_\_\_\_ Date \_\_\_\_\_

### CITY USE BELOW

Based on a review of this Water Usage Questionnaire, the following has been identified:

Does a hazard exist?      Yes      No

HAZARD	HIGH			LOW			
	AG	RPBA	RPDA	DCVA	DCDA	AVB	OTHER:

In-premises protection allowed       Premises isolation required at property line       Premises isolation agreement

Meter Status       Locked       Unlocked

CCS Signature \_\_\_\_\_

Water Manager Signature \_\_\_\_\_

# City of Ferndale

## Water Use Questionnaire (Multi Unit / Commercial))

te \_\_\_\_\_  New Water Service       Existing Water Service       Change In Use

Account # \_\_\_\_\_ Phone Number: ( \_\_\_\_\_ ) \_\_\_\_\_

Name: \_\_\_\_\_

Service Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

**Please indicate if your home has, or will have, any of the following:**

1	<input type="checkbox"/> Access Denied or Restricted Locations	31	<input type="checkbox"/> Hot Water Heating Boilers (Radiant Heating Systems)
2	<input type="checkbox"/> Agricultural Facilities (Livestock)	32	<input type="checkbox"/> Industrial Fluid Systems
3	<input type="checkbox"/> Air Condition System (Direct Connection)	33	<input type="checkbox"/> Irrigation System
4	<input type="checkbox"/> Aquarium (Direct Connection)	34	<input type="checkbox"/> Janitor or Service Sinks
5	<input type="checkbox"/> Auxiliary Water System or Supply	35	<input type="checkbox"/> Laboratories, or Laboratory Equipment
6	<input type="checkbox"/> Beverage Bottling and or Bottle washing Equipment	36	<input type="checkbox"/> Laundromats, or Laundry Equipment (Commercial)
7	<input type="checkbox"/> Beverage Dispenser	37	<input type="checkbox"/> Metal Plating Industries
8	<input type="checkbox"/> Blood Plasma Centers	38	<input type="checkbox"/> Mortuaries
9	<input type="checkbox"/> Booster Pumps	39	<input type="checkbox"/> Nursing Homes (Adult Care Facilities)
10	<input type="checkbox"/> Box Hydrants (Below Ground)	40	<input type="checkbox"/> Pet Cleaning Basins
11	<input type="checkbox"/> Car Wash / Vehicle Wash Rack	41	<input type="checkbox"/> Petroleum Processing (Storage, Refineries)
12	<input type="checkbox"/> Chemical Feed Systems (Chemical Cleaners, or Products)	42	<input type="checkbox"/> Photo Developing Sinks and Tanks
13	<input type="checkbox"/> Chemical Plant or Storage	43	<input type="checkbox"/> Piers, Docks, or Marinas
14	<input type="checkbox"/> Chlorinators	44	<input type="checkbox"/> Plumbing 30' Above Water Meter
15	<input type="checkbox"/> Commercial Ice Makers	45	<input type="checkbox"/> Premises with Other Water Supply Connected with Potable Water
16	<input type="checkbox"/> Cooling Towers	46	<input type="checkbox"/> Private Fire Hydrant
	<input type="checkbox"/> Decorative Ponds or Fountains	47	<input type="checkbox"/> Pump Prime Lines
	<input type="checkbox"/> Dental Clinics or Equipment	48	<input type="checkbox"/> Radioactive material processing plants or nuclear reactors
19	<input type="checkbox"/> Dialysis Machine	49	<input type="checkbox"/> Recreational Vehicle Sewage Dump or Tank
20	<input type="checkbox"/> Dry Cleaning or Cleaners	50	<input type="checkbox"/> Solar Water Heating System
21	<input type="checkbox"/> Dye Vats and Tanks	51	<input type="checkbox"/> Steam Generating Equipment
22	<input type="checkbox"/> Fermenting Tanks	52	<input type="checkbox"/> Swamp Cooler
23	<input type="checkbox"/> Fire Sprinkler System	53	<input type="checkbox"/> Trap Primers
24	<input type="checkbox"/> Food Processing Plants	54	<input type="checkbox"/> Tubs (Below The Rim Fill)
25	<input type="checkbox"/> Garbage Can Washers	55	<input type="checkbox"/> Used, Reclaimed, or Gray Water Systems
26	<input type="checkbox"/> Greenhouse	56	<input type="checkbox"/> Vehicle Maintenance Shop (Degreasing Equipment)
27	<input type="checkbox"/> Heat Exchangers	57	<input type="checkbox"/> Veterinary Clinics
28	<input type="checkbox"/> Heat Pumps	58	<input type="checkbox"/> Waste Water Pump or Pump Stations
29	<input type="checkbox"/> Hospital (Medical Clinics or Centers)	59	<input type="checkbox"/> Waste Water Treatment and Waster Water Pump Stations
30	<input type="checkbox"/> Hot Tub, Pool, or Spa	60	<input type="checkbox"/> Water Treatment Equipment (e.g., Softener)

Yes      No  
       Are you aware of any existing backflow devices or backflow protection you have on your property?

Please provide the information below for all products that will be mixed with water and or chemicals stored on your premises:  
 Exclude normal household chemicals that are not stored in abnormal quantities:

Product / Chemical	Quantity On-site	Use
_____	_____	_____
_____	_____	_____

I hereby acknowledge that the questionnaire above is filled out to the best of my knowledge and will notify the District and the Local Administrative Authority if there is a change in use of my water service connection. I agree to install a backflow prevention device as required by the District and its cross connection control program, and to allow the District reasonable access to the property to inspect the device

Signature (Owner/Representative) \_\_\_\_\_ Name (please print) \_\_\_\_\_ Date \_\_\_\_\_

# City of Ferndale

## Application for Water Service

ite \_\_\_\_\_  New Water Service       Existing Water Service       Change In Use

Account # \_\_\_\_\_ Phone Number: (\_\_\_\_) \_\_\_\_\_

Name: \_\_\_\_\_

Service Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

**Please indicate if your home has, or will have, any of the following:**

1	<input type="checkbox"/> Access Denied or Restricted Locations	31	<input type="checkbox"/> Hot Water Heating Boilers (Radiant Heating Systems)
2	<input type="checkbox"/> Agricultural Facilities (Livestock)	32	<input type="checkbox"/> Industrial Fluid Systems
3	<input type="checkbox"/> Air Condition System (Direct Connection)	33	<input type="checkbox"/> Irrigation System
4	<input type="checkbox"/> Aquarium (Direct Connection)	34	<input type="checkbox"/> Janitor or Service Sinks
5	<input type="checkbox"/> Auxiliary Water System or Supply	35	<input type="checkbox"/> Laboratories, or Laboratory Equipment
6	<input type="checkbox"/> Beverage Bottling and or Bottle washing Equipment	36	<input type="checkbox"/> Laundromats, or Laundry Equipment (Commercial)
7	<input type="checkbox"/> Beverage Dispenser	37	<input type="checkbox"/> Metal Plating Industries
8	<input type="checkbox"/> Blood Plasma Centers	38	<input type="checkbox"/> Mortuaries
9	<input type="checkbox"/> Booster Pumps	39	<input type="checkbox"/> Nursing Homes (Adult Care Facilities)
10	<input type="checkbox"/> Box Hydrants (Below Ground)	40	<input type="checkbox"/> Pet Cleaning Basins
11	<input type="checkbox"/> Car Wash / Vehicle Wash Rack	41	<input type="checkbox"/> Petroleum Processing (Storage, Refineries)
12	<input type="checkbox"/> Chemical Feed Systems (Chemical Cleaners, or Products)	42	<input type="checkbox"/> Photo Developing Sinks and Tanks
13	<input type="checkbox"/> Chemical Plant or Storage	43	<input type="checkbox"/> Piers, Docks, or Marinas
14	<input type="checkbox"/> Chlorinators	44	<input type="checkbox"/> Plumbing 30' Above Water Meter
15	<input type="checkbox"/> Commercial Ice Makers	45	<input type="checkbox"/> Premises with Other Water Supply Connected with Potable Water
16	<input type="checkbox"/> Cooling Towers	46	<input type="checkbox"/> Private Fire Hydrant
	<input type="checkbox"/> Decorative Ponds or Fountains	47	<input type="checkbox"/> Pump Prime Lines
	<input type="checkbox"/> Dental Clinics or Equipment	48	<input type="checkbox"/> Radioactive material processing plants or nuclear reactors
19	<input type="checkbox"/> Dialysis Machine	49	<input type="checkbox"/> Recreational Vehicle Sewage Dump or Tank
20	<input type="checkbox"/> Dry Cleaning or Cleaners	50	<input type="checkbox"/> Solar Water Heating System
21	<input type="checkbox"/> Dye Vats and Tanks	51	<input type="checkbox"/> Steam Generating Equipment
22	<input type="checkbox"/> Fermenting Tanks	52	<input type="checkbox"/> Swamp Cooler
23	<input type="checkbox"/> Fire Sprinkler System	53	<input type="checkbox"/> Trap Primers
24	<input type="checkbox"/> Food Processing Plants	54	<input type="checkbox"/> Tubs (Below The Rim Fill)
25	<input type="checkbox"/> Garbage Can Washers	55	<input type="checkbox"/> Used, Reclaimed, or Gray Water Systems
26	<input type="checkbox"/> Greenhouse	56	<input type="checkbox"/> Vehicle Maintenance Shop (Degreasing Equipment)
27	<input type="checkbox"/> Heat Exchangers	57	<input type="checkbox"/> Veterinary Clinics
28	<input type="checkbox"/> Heat Pumps	58	<input type="checkbox"/> Waste Water Pump or Pump Stations
29	<input type="checkbox"/> Hospital (Medical Clinics or Centers)	59	<input type="checkbox"/> Waste Water Treatment and Waster Water Pump Stations
30	<input type="checkbox"/> Hot Tub, Pool, or Spa	60	<input type="checkbox"/> Water Treatment Equipment (e.g., Softener)

Yes      No

      Are you aware of any existing backflow devices or backflow protection you have on your property?

Please provide the information below for all products that will be mixed with water and or chemicals stored on your premises:  
Exclude normal household chemicals that are not stored in abnormal quantities:

Product / Chemical	Quantity On-site	Use
_____	_____	_____
_____	_____	_____

I hereby acknowledge that the questionnaire above is filled out to the best of my knowledge and will notify the District and the Local Administrative Authority if there is a change in use of my water service connection. I agree to install a backflow prevention device as required by the District and its cross connection control program, and to allow the District reasonable access to the property to inspect and test the device

Signature (Owner/Representative) \_\_\_\_\_

Name (please print) \_\_\_\_\_

Date \_\_\_\_\_

# City of Ferndale

## Application for Water Service

ate \_\_\_\_\_  New Water Service       Existing Water Service       Change In Use

Account # \_\_\_\_\_ Phone Number: (\_\_\_\_) \_\_\_\_\_

Name: \_\_\_\_\_

Service Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Legal Description: \_\_\_\_\_

**Please indicate if your home has, or will have, any of the following:**

.1	<input type="checkbox"/> Access Denied or Restricted Locations	.15	<input type="checkbox"/> Irrigation System
.2	<input type="checkbox"/> Agricultural Facilities (Livestock)	.16	<input type="checkbox"/> Pet Cleaning Basins
.3	<input type="checkbox"/> Air Condition System (Direct Connection)	.17	<input type="checkbox"/> Piers, Docks, or Marinas
.4	<input type="checkbox"/> Aquarium (Direct Connection)	.18	<input type="checkbox"/> Plumbing 30' Above Water Meter
.5	<input type="checkbox"/> Below Ground Hose Connections (Box Hydrants, Etc.)	.19	<input type="checkbox"/> Premises with Other Water Supply Connected with Potable Water
.6	<input type="checkbox"/> Booster Pumps	.20	<input type="checkbox"/> Recreational Vehicle Sewage Dump or Tank
.7	<input type="checkbox"/> Decorative Ponds or Fountains	.21	<input type="checkbox"/> Solar Water Heating System
.8	<input type="checkbox"/> Dialysis Machine	.22	<input type="checkbox"/> Swamp Cooler
.9	<input type="checkbox"/> Fire Sprinkler System	.23	<input type="checkbox"/> Trap Primers
.10	<input type="checkbox"/> Greenhouse	.24	<input type="checkbox"/> Tubs (Below The Rim Fill)
.11	<input type="checkbox"/> Heat Exchangers	.25	<input type="checkbox"/> Used, Reclaimed, or Gray Water Systems
.12	<input type="checkbox"/> Heat Pumps	.26	<input type="checkbox"/> Vehicle Maintenance Shop (Degreasing Equipment, etc.)
.13	<input type="checkbox"/> Hot Tub, Pool, or Spa	.27	<input type="checkbox"/> Waste Water Pump
.14	<input type="checkbox"/> Hot Water Heating Boilers (Radiant Heating Systems)	.28	<input type="checkbox"/> Water Treatment Equipment (e.g., Softener)

Please provide the information below for all products that will be mixed with water and or chemicals stored on your premises:  
Exclude normal household chemicals that are not stored in abnormal quantities

Product / Chemical	Quantity On-site	Use
_____	_____	_____
_____	_____	_____
_____	_____	_____

I hereby acknowledge that the questionnaire above is filled out to the best of my knowledge and will notify the District and the Local Administrative Authority if there is a change in use of my water service connection. I agree to install a backflow prevention device as required by the District and its cross connection control program, and to allow the District reasonable access to the property to inspect or test the device.

Signature (Owner/Representative) \_\_\_\_\_ Name (Please print) \_\_\_\_\_ Date \_\_\_\_\_

**CITY USE BELOW**

Based on a review of this Water Usage Questionnaire, the following has been identified:

Does a hazard exist?      Yes      No

HAZARD	HIGH			LOW			
	AG	RPBA	RPDA	DCVA	DCDA	AVB	OTHER:
	AG	RPBA	RPDA	DCVA	DCDA	AVB	OTHER:
	AG	RPBA	RPDA	DCVA	DCDA	AVB	OTHER:
	AG	RPBA	RPDA	DCVA	DCDA	AVB	OTHER:
	AG	RPBA	RPDA	DCVA	DCDA	AVB	OTHER:

In-premises protection allowed       Premises isolation required at property line       Premises isolation agreement

Meter Status       Locked       Unlocked

CCS Signature \_\_\_\_\_

Water Manager Signature \_\_\_\_\_



# City of Ferndale

2095 Main Street  
Ferndale, Washington 98248

P.O. Box 935

PHONE: (360) 384-4006  
FAX: (360) 384-4017

DATE

CUSTOMER NAME  
ADDRESS  
Ferndale, WA 98230

Dear Customer:

Properly functioning drinking water systems are designed to prevent foreign substances from entering the water supply. Sometimes, however, contaminated materials can enter the private or public potable water system by flowing back in the wrong direction. When this occurs, it is called "backflow" and the source of the contamination is called a "cross-connection." Under regulations of the Washington State Department of Health (DOH), the District is implementing a Cross Connection Control Program intended to enhance protection of our drinking water.

As part of that program, we are asking our customers to review the "Water Usage Questionnaire" on the other side of this letter, indicating any fixtures and/or uses that may pose a cross-connection hazard. Please return the completed questionnaire in the enclosed self-addressed envelope to the District office no later than <DATE>. If you have declared fixtures or uses that may pose a cross-connection hazard, a District Cross Connection Control Specialist will contact you to arrange for a mandatory on-site inspection of your property to determine what actions will be required to comply with DOH regulations.

DOH regulations for this program are found in Washington Administrative Code (WAC) 246-290-490. If you have any questions, please call me at 360-384-4607.

Sincerely,

Mike Olinger  
Water Operations Manager  
City of Ferndale



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Ferndale, Washington 98248

P.O. Box 935

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As part of that program, we are asking our customers to review the "Water Usage Questionnaire" on the other side of this letter, indicating any fixtures and/or uses that may pose a cross-connection hazard. If you have fixtures or uses to declare, please return the completed questionnaire to the City of Ferndale no later than **<DATE>**. After reviewing the questionnaire, the Cities Cross Connection Control Specialist will contact you to arrange for a mandatory on-site inspection of your property to determine what actions will be required to comply with DOH regulations. Non-return of the questionnaire will be interpreted as a declaration that you have no problematic fixtures or uses on your property. Therefore, if you have no fixtures or uses to declare, you do not need to return the questionnaire.

DOH regulations for this program are found in Washington Administrative Code (WAC) 246-290-490. If you have any questions, please call me at 380-4607.

Sincerely,

**Mike Olinger**  
Chief Water Treatment Operator  
Cross Connection Control Specialist  
City of Ferndale

(Back)