



**SNOHOMISH
HEALTH
DISTRICT**

M. Ward Hinds, M.D., M.P.H.
Health Officer

Administrative Offices

Suite 300
3020 Rucker Avenue
Everett, WA 98201-3971
(206) 339-5210 Fax: (206) 339-5216
TDD: (206) 339-5252

**SNOHOMISH HEALTH DISTRICT
RESOLUTION OF THE BOARD OF HEALTH**

96-13

RESOLUTION NUMBER: 96-13

RESOLUTION SUBJECT: SNOHOMISH HEALTH DISTRICT SANITARY CODE AMENDING
CHAPTER 9.1, DRINKING WATER RULES AND REGULATIONS

WHEREAS the Board of Health of Snohomish Health District serves to promote the public health of the residents of Snohomish County, and under the provisions of RCW 70.05.060 maintains supervision over matters pertaining to the preservation of the life and health of the people within its jurisdiction, and

WHEREAS the Board of Health has incorporated into the Sanitary Code of Snohomish Health District certain public health statutes of the State of Washington and rules promulgated by the State Board of Health and Secretary of Health to provide for the control and prevention of any dangerous, contagious or infectious disease within its jurisdiction and provide for the prevention, control and abatement of nuisances detrimental to the public health, and

WHEREAS Snohomish Health District incorporated within Chapter 9 of the Sanitary Code the rules, regulations and standards regarding individual drinking water supplies within its jurisdiction, and


WHEREAS recent modification of local and state drinking water rules, regulations and standards has made it necessary to modify and expand the flexibility of Chapter 9 of the Sanitary Code to accommodate and respond to new variations as allowed and/or called for within the rules, regulations, standards and processes of Snohomish Health District and other agencies,


NOW THEREFORE the Board of Health hereby takes the following actions:

- (1) Adopts the revised Chapter 9.1 of the Sanitary Code of Snohomish Health District, "Drinking Water Rules and Regulations";
- (2) Incorporates existing Chapters 9.1, 9.3 and 9.5 into the revised Chapter 9.1 of the Sanitary Code of Snohomish Health District and retitles Chapter 9.4 as 9.3, "Drinking Water Rules and Regulations - Arsenic Testing";
- (3) Authorizes the Director of Environmental Health to maintain administrative procedures and practices of the Drinking Water Program as set forth in the "Supplemental Drinking Water Policies and Procedures for Individual Water Systems"; and
- (4) Revises the section of the 1996 Environmental Health Division Fee Schedule as shown on the attached copy.

Adopted this 14th day of May, 1996.

ATTEST:


John Garner, Chairman
Board of Health


M. Ward Hinds, MD, MPH
Health Officer

• Healthy Lifestyles, Healthy Communities •

SNOHOMISH HEALTH DISTRICT SANITARY CODE

CHAPTER 9.1 DRINKING WATER RULES AND REGULATIONS

RULES AND REGULATIONS OF THE SNOHOMISH HEALTH DISTRICT BOARD OF HEALTH GOVERNING MINIMUM STANDARDS, POLICIES, AND PROCEDURES FOR INDIVIDUAL WATER SYSTEMS.

The Board of Health Adopts the following "Supplemental Drinking Water Policies and Procedures for Individual Water Systems" to protect the public health:

- I. **Title:** These administrative standards, policies, and procedures shall be known as the "Supplemental Drinking Water Policies and Procedures for Individual Water Systems" and are established pursuant to authority vested in the Snohomish Health District Board of Health by RCW 70.05.060. These rules and regulations are adopted for the protection of public health through the establishment of minimum drinking water standards and the policies and procedures by which to review same.
- II. **Purpose:** These rules and regulations are enacted as an exercise of the powers and duties of the Snohomish Health District Board of Health to preserve, promote and improve the public health. The provisions herein shall be liberally construed for the accomplishment of the purposes.

Further, these regulations are intended to allow and support the Snohomish Health District (SHD) in carrying out the responsibilities and duties contained in Snohomish Health District Sanitary Code Chapters 8 and 9.

It is the specific intent of these rules and regulations to place the obligation of compliance upon the owner of a Individual Water System. No provision of, nor term used in, these rules and regulations is intended to impose any duty upon the Snohomish Health District or any of its employees.

- III. **Definitions:** In addition to the definitions found in the Snohomish Health District Sanitary Code Chapter 9.2, Section 2 of the Guidelines for Determining Water Availability for New Buildings, Ecology Publication 93-27, April 1993 and WAC 173-160, the following shall apply:

- A. "Adequate": Means meeting the source siting, construction and quantity requirements of the "Supplemental Drinking Water Policies and Procedures for Individual Water Systems".
- B. "Individual Water Supply (IWS)": Consists of one source serving one Single Family Residence or one source serving two (2) Single Family Residence Structures or Units and is exempt from the State Board of Health Drinking Water Regulations WAC 246-291.
- C. "Potable": Means meeting the water quality parameters as established in the "Supplemental Drinking Water Policies and Procedures for Individual Water Systems".

- IV. **Drinking Water Rules and Regulations: Policies and Procedures:** The Snohomish Health District policy titled "Supplemental Drinking Water Policies and Procedures for Individual Water Systems" prescribes the minimum drinking water standards and the assessment procedures and standards therein applied for Individual Water Systems; prescribing data to be disclosed to and procedures to be followed by the Environmental Health Division concerning said water systems including:

CHAPTER 9.1 DRINKING WATER RULES AND REGULATIONS,
continued

- A. Assessments for Determining Water Availability and Acceptance for New Buildings: As applicable to RCW 19.27.097, and/or issuance of permits for installation of on-site sewage disposal systems for new residences shall include the following:
1. SHD approval of "Application for an Individual Water Supply Site Inspection".
 2. SHD approval of "Request for Review: Individual Water Supply"
 3. For IWS's consisting of more than one Single Family Residential Connection the following must be provided in addition to items 1 and 2 above: Recorded Declaration of Water Use Agreement(s), Easement(s), and Restriction(s).
 4. For IWS's consisting of more than one Single Family Residential Connection where the structures served **do not** exist on the same property the following must be provided in addition to items 1, 2 and 3 above: SHD approval of "Application for an Individual Water Supply Site Inspection" demonstrating potential well sites on **each** of the two properties.
- B. Operational Checks: Assessments of water supply source quality in response to "Request for Report on an Individual Water System" will include SHD testing of water quality parameters as established in the "Supplemental Drinking Water Policies and Procedures for Individual Water Systems".
- C. Well Sealing and Decommissioning: Pursuant to the "Memorandum of Agreement between State of Washington Department of Ecology and Snohomish Health District", delegating to SHD the authority to administer and enforce the well sealing and decommissioning portions of the water well construction program in accordance with the provisions of Chapter 173-160 WAC entitled Minimum Standard for Construction and Maintenance of Wells, notification to SHD must be received prior to sealing or decommissioning of any new or existing well in Snohomish County.

Nothing contained in the process shall be construed to prevent the Health Officer from requiring compliance with higher requirements than those contained herein where such higher requirements are essential to maintain a safe and sanitary condition. Revisions or modifications to the policy shall be approved by the Director of Environmental Health.



SNOHOMISH
HEALTH
DISTRICT
3020 Rucker
Everett, WA 98201

Supplemental Drinking Water
Policies and Procedures for
Individual Water Systems
Environmental Health Division
Water/Wastewater Section (206) 339-5270

- I. In accordance with state and local regulations, the Snohomish Health District (SHD) performs assessments of proposed and existing Individual Water Supplies (IWS's) for adequacy and potability. These assessments are for the purposes of establishing proof of adequate and potable water as a part of the approval process for subdivisions, building permits and/or issuance of permits for installation of on-site sewage disposal systems. Further, assessments are requested in response to inquiries received from individuals, agencies, and other entities seeking information regarding IWS's.
- II. The following "Supplemental Drinking Water Policies and Procedures for Individual Water Systems" (supplemental procedures) are established pursuant of SHD Sanitary Code Chapters 8 and 9, prescribing minimum requirements, standards, and procedures for assessment and use of IWS's, prescribing data to be disclosed to the Environmental Health Division concerning the use of IWS's and setting forth the information to be furnished to the Environmental Health Division prior to response by SHD to any request for assessment of a particular IWS. Nothing contained in this process shall be construed to prevent the Health Officer from requiring compliance with higher requirements than those contained herein where such higher requirements are essential to maintain a safe and sanitary condition and protect public health.
- III. Definitions: In addition to the definitions found in the Snohomish Health District Sanitary Code Chapter 9.2, Section 2 of the Guidelines for Determining Water Availability for New Buildings, Ecology Publication 93-27, April 1993 and WAC 173-160, the following shall apply:
 - A. "Adequate": Means meeting the source siting, construction and quantity requirements of these supplemental procedures.
 - B. "Individual Water Supply (IWS)": Consists of one source serving one Single Family Residence or one source serving two (2) Single Family Residence Structures or Units and is exempt from the State Department of Health (DOH) Drinking Water Regulations WAC 246-291.
 - C. "Potable": Means meeting the water quality parameters as established in these supplemental procedures.
- IV. Individual Water Supplies: Assessments, Policies, and Procedures.
 - A. Assessments for determining water availability and acceptance for new buildings and/or issuance of permits for installation of on-site sewage disposal systems for new residences includes the following:
 1. SHD approval of "Application for an Individual Water Supply Site Inspection". Site criteria as established in WAC 173-160 and Chapters 8 and 9, SHD Sanitary Code.
 2. SHD approval of "Request for Review: Individual Water Supply" including the following minimum submittals:

Supplemental Drinking Water Policies and Procedures for Individual Water Systems, Continued

- a. Signed Declaration of Applicant;
 - b. Copy of Site Plan depicting constructed well location;
 - c. Copy of Water Well Report (Well Drillers Log) verifying well construction per WAC 173-160;
 - d. Documentation of well yield testing per WAC 173-160-345(1) sufficient in detail to demonstrate a minimum 400 gallons per day per residential connection;
 - e. Satisfactory results of a bacteriological analysis; and,
 - f. Satisfactory results of inorganic chemical analyses for the following: arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, sodium, fluoride, and nitrate.
3. For IWS's consisting of more than one Single Family Residential Connection, the following must be provided in addition to items 1 and 2 above: Recorded Declaration of Water Use Agreement(s), Easement(s), and Restriction(s) including the following minimum information:
- a. Identification of the supply as an Individual Water Supply;
 - b. Description of system management and ownership;
 - c. Identification of the property or properties served; and,
 - d. Recognition of system restrictions as determined by SHD.
4. For IWS's consisting of more than one Single Family Residential Connection where the structures served **do not** exist on the same property, the following must be provided in addition to items 1, 2 and 3 above: SHD approval of "Application for an Individual Water Supply Site Inspection" demonstrating potential well sites on **each** of the two properties. Site criteria as established in WAC 173-160 and Chapters 8 and 9, SHD Sanitary Code.
- B. Operational Checks: Assessments of water supply source quality in response to "Request for Report on an Individual Water System" will include SHD testing of water quality parameters as established in Section IV.A.2.e and f above.
- C. Well Sealing and Decommissioning: Pursuant to the "Memorandum of Agreement between State of Washington Department of Ecology and Snohomish Health District", delegating to SHD the authority to administer and enforce the well sealing and decommissioning portions of the water well construction program in accordance with the provisions of Chapter 173-160 WAC entitled Minimum Standard for Construction and Maintenance of Wells, notification to SHD must be received no less than 24 hours prior to sealing or decommissioning of any new or existing well in Snohomish County.
- D. Determining Maximum Contaminant Level (MCL) Violations for an IWS:
1. Coliform bacteria are not to exceed one per 100 ml. for any sample tested using the membrane filter method; nor are there to be any present using the Presence/Absence method of testing.
 2. The presence of any tested primary contaminant measured above the MCL, as defined in WAC 246-290-310, shall make that water supply initially unacceptable and subject to further sampling and testing to determine whether an MCL violation has occurred.

Supplemental Drinking Water Policies and Procedures for Individual Water Systems, Continued

- a. Three subsequent samples must be taken at the well. Prior to the taking of **each** sample, either a quantity of water equal to 3 well volumes for drilled wells or 2 well volumes for dug wells, pumped at the well's measured production rate, must be pumped.
 - b. The water must be tested for the same contaminant(s) found in excess of the MCL in the initial sample and the results of the three subsequent samples will be averaged. The average of these 3 sample results will be used to determine if an MCL violation has occurred. If any single sample exceeds double the MCL, then the violation will be considered confirmed. Samples having turbidity in excess of 25 NTU's may not be acceptable for testing.
 - c. At least one of the 3 samples must be collected by SHD personnel, for which an additional fee will be charged per the current fee schedule as an Operation Check - Water.
3. For nitrate, if the initial sample test for nitrate shows the presence of nitrate above the MCL, the applicant should immediately take one additional sample from the same sampling point. If the average of the two samples exceeds the MCL, a violation is confirmed.
- E. Water Treatment: Pursuant to these supplemental procedures, as well as other guidelines presently in effect, when evaluating test results for primary contaminants, the MCL's cannot be exceeded and be in compliance with RCW 19.27.097, as a potable water supply. However, the Act and the Department of Ecology (DOE) Guidelines have not provided specifics on the issue of treatment of such water to be in compliance with the Act. Therefore, for the sake of consistency in the evaluation by SHD and to provide commonality of standards for applicants, as well as standards by which the County can consider the recommendations of the SHD relative to the same, the following constitute what the Snohomish Health District considers to be minimum acceptable standards for source treatment where primary contaminants exceeding MCL's are found:

(NOTE: These guidelines shall not be applicable to arsenic.)

The Snohomish Health District shall provide to the County a recommendation of general compliance to the DOE Guidelines and these procedures, even when test results for primary contaminants exceed the MCL's, provided that an applicant has demonstrated satisfactory treatment and provided the following conditions have been or shall be met:

1. The proposed water treatment system is to be a device(s) approved/certified for that use by the National Sanitation Foundation, the American Water Works Association or another nationally recognized water quality third party. In those instances requiring a treatment system comprised of a combination of the aforementioned approved/certified devices and for which no approval or certification for such a combination exists, the overall system efficacy shall be certified by a Professional Engineer registered in the State of Washington.
2. The SHD shall be entitled to charge a review fee relative to the submittal of any water system treatment plan proposal.

Supplemental Drinking Water Policies and Procedures for Individual Water Systems, Continued

3. Water treatment must be installed at or before the point of entry and provide for whole house treatment.
4. Point of use treatment devices shall not be considered to satisfy the requirements of these procedures.
5. The treatment system must be capable of producing a minimum of 400 gallons of treated water per residential connection per day. However, a daily volume of less than 400 gallons per residential connection may be considered adequate if such a reduced volume is combined with appropriate conservation or storage measures rendering the additional volume unnecessary. The treatment system plan shall not allow the plumbing arrangement to bypass the treatment system.
6. The applicant is required to make arrangements with SHD to obtain initial system start up water samples to verify the effectiveness of the treatment system. The SHD shall be entitled to charge a fee to cover the costs of sampling and laboratory analysis of samples.
7. The applicant/property owner, prior to issuance of county building permit, is required to record with the Snohomish County Auditor a statement containing the common and legal address of the property, as well as the present owner's name and containing, as a minimum, the following additional information:
 - a. The parameter that is found in the violation of the MCL and being treated for.
 - b. That the treatment device must be properly maintained, along with periodic sampling, to insure continued safety of the water supply.

(NOTE: Specific sampling frequency is to be set in accord with the provisions of WAC 246-290, State Board of Health DRINKING WATER REGULATIONS.)
 - c. A stated understanding and acknowledgment, by the property owner, that failure to sample and maintain the treatment system may result in adverse health effects to the users of the water supply.
 - d. The owner's obligation and responsibility to notify future property owners, heirs, successors, or tenants about the treatment device, proper maintenance and operations, sampling requirements, and potential health risks.
8. The applicant shall be required to provide a copy of the installed treatment system including manufacturer's name(s), make and model for all components, together with a copy of the operation manual and maintenance recommendations to the SHD.

Supplemental Drinking Water Policies and Procedures for Individual Water Systems, Continued

9. All proposals for water treatment must be reviewed and approved by the Water and Wastewater Section Manager of the SHD. Furthermore, the applicant would execute a statement which provides that any recommendation of approval shall not constitute an endorsement by SHD that such a treatment system in fact works, is reliable, or otherwise warranted or guaranteed to effectively treat the water to eliminate all health risks. In all respect, the applicant assumes full and complete responsibility and liability relative to the effectiveness, reliability and viability of a water treatment system.
- F. Lead Levels: Pursuant to these supplemental procedures, as well as other guidelines presently in effect, when evaluating test results for contaminants, in the absence of an established MCL, the following evaluation procedure for lead levels in drinking water applies:
1. SHD, in determining potability for compliance with the assessment procedures outlined in Sections A and B above, will apply the EPA 'Action Level' of 0.015 mg/l.
 2. For results in excess of 0.015 mg/l, the applicant is required to conduct additional testing to demonstrate that the source water is of adequate quality with lead levels less than 0.015 mg/l.
- G. Fluoride Levels: Pursuant to these supplemental procedures, as well as other guidelines presently in effect, when evaluating test results for contaminants, the primary MCL of 4.0 mg/l for fluoride cannot be exceeded and be in compliance with the potability requirements outlined in Sections A and B above. For results in excess of 4.0 mg/l, Sections D and E above will apply. For fluoride analyses with results less than or equal to 4.0 mg/l and greater than 2.0 mg/l, the following evaluation procedure applies:
1. The procedures outlined in Section D above will apply to determine the level.
 2. Upon confirmation of the level as being within the 2.0 mg/l to 4.0 mg/l range, written notification will be sent to the applicant outlining the test results with attached Toxics Fact Sheet for fluoride. Additionally, the notification will direct the applicant to sample quarterly for a two year period to confirm stability of levels with reduced sampling frequency of one per year if stable within the 2.0 mg/l to 4.0 mg/l range.
 3. The owner/applicant must notify future owners, heirs, successors, or tenants of the presence of fluoride in the drinking water and record the notification letter outlined in item 2 of this section on the title of the property.

This policy is effective this date.

_____ date _____
Robert A. Pekich, Director
Environmental Health Division

SNOHOMISH HEALTH DISTRICT SANITARY CODE

CHAPTER 9.3

DRINKING WATER RULES & REGULATIONS; ARSENIC TESTING

9.3.1 - Title: These rules and regulations shall be known as "Drinking Water Rules and Regulations; Arsenic Testing" and are established pursuant to authority vested in the Snohomish Health District Board of Health by RCW 70.05.060. These rules and regulations are adopted for the protection of public health through the mechanism of arsenic sampling of water supplies.

9.3.2 - Purpose and Policy Declared: These rules and regulations are enacted as an exercise of the powers and duties of the Snohomish Health District Board of Health to preserve, promote and improve the public health. The provisions herein shall be liberally construed for the accomplishment of these purposes.

It is the specific intent of these rules and regulations to place the obligation of compliance upon the owner of a private water supply or the purveyor of a public water supply. No provision of, nor term used in, these rules and regulations is intended to impose any duty, other than notification as identified herein, upon the Snohomish Health District or any of its offices or employees.

9.3.3 - Definitions:

- A. Health Officer: The Health Officer of the Snohomish Health District or an authorized representative.
- B. On-Site Sewage Disposal Permit: Any system of piping, treatment devices, or other facilities that convey, store, treat, or dispose of sewage on the property where it originates or an adjacent or nearby property under the control of the user where the system is not connected to a public sewer system.
- C. Private Water Supply: Any system or water supply intended or used for human consumption or other domestic uses, including source, treatment, storage, transmission and distribution facilities serving one single family residence.
- D. Public Water Supply: Any system or water supply intended or used for human consumption or domestic uses, including source treatment, storage, transmission and distribution facilities where water is furnished to any community, collection or number of individuals, or is made available to the public for human consumption or domestic use, but excluding a water system serving one single family residence.
- E. State Approved Laboratory: Any laboratory approved by the Washington State Department of Health to perform arsenic analysis for public water systems.
- F. Well: Any excavation that is drilled, cored, bored, washed, driven, dug, jetted, or otherwise constructed when the intended use of the well is for the location, diversion, artificial recharge, or withdrawal of groundwater.
- G. Well Log: A complete record on the construction or alteration of the well as specified in WAC 173-160-050.

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CHAPTER 9.3

DRINKING WATER RULES & REGULATIONS; ARSENIC TESTING, continued

9.3.4 - Water Analyses: Arsenic analyses of a water supply, by a state approved laboratory, shall be required when:

- A. A new private water supply is developed; or
- B. A water supply operational check is conducted by the Snohomish Health District on a private water supply which has not been sampled and tested for arsenic during the previous 36 months; or
- C. A public water supply has not been tested for arsenic during the previous 36 months.

9.3.5 - Well Logs: It shall be the responsibility of the property owner to furnish the Snohomish Health District with a copy of the well log.

9.3.6. - On-Site Sewage Disposal System Permit: No on-site sewage disposal system permit shall be issued for a new residence without complying to Sections 9.3.4 and 9.3.5 above.

9.3.7 - Fees: The Board of Health shall set and collect fees for the gathering, transportation, and analysis of water samples and other such incidental services as might be required by the enforcement of these regulations.

9.3.8 - Notification: When the Snohomish Health District is notified that a well, within its jurisdiction, has yielded a well water sample with an arsenic level at or above 0.05mg/L, the Snohomish Health District shall attempt to notify the owner of the property on which the well is constructed and any persons who are living on said property, or using the water supply of such well water sample results.

9.3.9 - Waiver: The Health Officer may waive any portion of these rules and regulations, provided that the waiver is consistent with the intent of these rules and regulations, and no public health hazard is likely to result, and the waiver will not be in conflict with the requirements of WAC 246-290 and the Federal Safe Drinking Water Act.

9.3.10 - Severability: Should any part of these rules and regulations be declared unconstitutional or invalid for any reason, such declaration shall not affect the validity of the remainder.

9.3.11 - Effective Date: These rules and regulations shall take effect on January 1, 1995.

TITLE	FEE	DESCRIPTION
REPAIR		
a) Commercial, multiple family	\$200.00	fee includes application review and permit
b) Single family residence	\$25.00	fee includes application review, permit, and simple design
REPLACEMENT		
		<i>USE NEW ONSITE SEWAGE DISPOSAL APPLICATION FEE</i>
REVISION - onsite application (same area)		
a) Gravity to Pressure Distribution	\$160.00	
b) Gravity to Mound or Sand Filter	\$185.00	
c) Pressure Distribution to Mound or Sand Filter	\$160.00	
d) Revision to Sand Filter/Mound	\$220.00	
<u>ONSITE SYSTEM EDUCATIONAL VIDEO</u>	\$5.50	

Please note revised section below:

OPERATION CHECK		
a) Onsite sewage system	\$135.00	
b) Onsite sewage system and drinking water system	\$175.00 \$285.00	Testing includes "Short List" Inorganics and Bacteriological
c) Drinking water system only	\$135.00 \$245.00	Testing includes "Short List" Inorganics and Bacteriological
d) Re-inspection	\$80.00	

<u>SOIL SURVEY</u>	\$330.00	fee plus \$55.00 per acre
<i>(optional service performed at Health District's discretion)</i>		

SUBDIVISION OF PROPERTY (Platting)

LARGE LONG PLAT (5 acre minimum lot size)		
a) Preliminary soil survey	\$330.00	fee plus \$55.00 per lot
b) Recording (final plat review fee)	\$55.00	per lot

SUBDIVISION		
a) Preliminary soil survey	\$330.00	fee plus \$55.00 per lot
b) Recording/Onsite (final plat review fee)	\$55.00	per lot
c) Recording/Sewered (final plat review fee)	\$65.00	total fee

SHORT SUBDIVISION - METHOD A		
a) Preliminary soil survey	\$150.00	fee plus \$55.00 per lot
b) Final Review & Recording	\$55.00	per lot

SHORT SUBDIVISION - METHOD B		<i>USE NEW ONSITE SEWAGE DISPOSAL APPLICATION FEE</i>
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VAULT PRIVY

a) Annual Monitoring (per site)	\$50.00	
b) Review and Permit	\$115.00	
Additional Privy (same site)	\$50.00	