

**SECTION .0200 – LOCATION OF SOURCES OF PUBLIC WATER SUPPLIES****15A NCAC 18C .0201 SURFACE SUPPLIES FOR PUBLIC WATER SYSTEMS**

- (a) A surface supply may be used for a community or a non-transient, non-community water system with disinfection and without filtration if it complies with the provisions of this Section and Rule .2005 of this Subchapter.
- (b) Such water supply shall be derived from uninhabited wooded areas.
- (c) The entire watershed shall be either owned or controlled by the person supplying the water or be under the control of the federal or state government; however, no such new water supply shall be created except where the water system owner shall own in its entirety the watershed from which the water will be obtained.
- (d) The water after disinfection shall be of potable quality as determined by bacteriological and chemical tests performed by a certified laboratory. The presence of contaminants shall not exceed the limits set forth in Section .1500 of this Subchapter.
- (e) The water source shall have a WS-I classification as established by the Environmental Management Commission and shall meet the quality standards for that classification, codified in 15A NCAC 02B. Copies are available for public inspection as set forth in Rule .0102 of this Subchapter.

*History Note: Authority G.S. 130A-315; 130A-318; P.L. 93-523;  
Eff. January 1, 1977;  
Readopted Eff. December 5, 1977;  
Amended Eff. April 1, 2014; July 1, 1994; February 1, 1987; September 1, 1979;  
Pursuant to G.S. 150B-21.3A, rule is necessary without substantive public interest Eff.  
November 23, 2015.*

**15A NCAC 18C .0202 REMOVAL OF DISSOLVED MATTER AND SUSPENDED MATTER**

Any surface water that is to receive treatment for removal of dissolved matter or suspended matter in order to be used for a public water system shall be obtained from a source that meets the WS-I, WS-II, WS-III, WS-IV or WS-V stream classification standards established by the Environmental Management Commission codified in 15A NCAC 02B. Copies are available for public inspection as set forth in Rule .0102 of this Subchapter. The source shall be protected from potential sources of pollution as determined by a sanitary survey of the watershed made by an authorized representative of the Department. The source supply shall be sufficient in capacity to satisfy the anticipated needs of the users for the period of design.

*History Note: Authority G.S. 130A-315; 130A-318; P.L. 93-523;  
Eff. January 1, 1977;  
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1979.*

**15A NCAC 18C .0203 PUBLIC WELL WATER SUPPLIES**

(a) Any site or sites for any water supply well to be used as a community or non-transient, non-community water system shall be investigated by an authorized representative of the Division of Water Resources. Approval by the Division is required in addition to any approval or permit issued by any other state agency. The site shall meet the following requirements at the time of approval:

- (1) The well shall be located on a lot so that the area within 100 feet of the well shall be owned or controlled by the person supplying the water. The supplier of water shall be able to protect the well lot from potential sources of pollution and to construct landscape features for drainage and diversion of pollution.
- (2) The minimum horizontal separation between the well and known potential sources of pollution shall be as follows:
  - (A) 100 feet from any sanitary sewage disposal system, sewer, or a sewer pipe unless the sewer is constructed of water main materials and joints, in which case the sewer pipe shall be at least 50 feet from the well;
  - (B) 200 feet from a subsurface sanitary sewage treatment and disposal system designed for 3000 or more gallons of wastewater a day flows, unless it is determined that the well water source utilizes a confined aquifer;
  - (C) 500 feet from a septage disposal site;
  - (D) 100 feet from buildings, mobile homes, permanent structures, animal houses or lots, or cultivated areas to which chemicals are applied;
  - (E) 100 feet from surface water;

- (F) 100 feet from a chemical or petroleum fuel underground storage tank with secondary containment;
  - (G) 500 feet from a chemical or petroleum fuel underground storage tank without secondary containment;
  - (H) 500 feet from the boundary of a ground water contamination area;
  - (I) 500 feet from a sanitary landfill or non-permitted non-hazardous solid waste disposal site;
  - (J) 1000 feet from a hazardous waste disposal site or in any location which conflicts with the North Carolina Hazardous Waste Management Rules cited as 15A NCAC 13A;
  - (K) 300 feet from a cemetery or burial ground; and
  - (L) 100 feet from any other potential source of pollution.
- (3) The Department may require greater separation distances or impose other protective measures when necessary to protect the well from pollution; the Department shall consider as follows:
- (A) The hazard or health risk associated with the source of pollution;
  - (B) The proximity of the potential source to the well;
  - (C) The type of material, facility or circumstance that poses the source or potential source of pollution;
  - (D) The volume or size of the source or potential source of pollution;
  - (E) Hydrogeological features of the site which could affect the movement of contaminants to the source water;
  - (F) The effect that well operation might have on the movement of contamination; and
  - (G) The feasibility of providing additional separation distances or protective measures.
- (4) The lot shall be graded or sloped so that surface water is diverted away from the wellhead. The lot shall not be subject to flooding.
- (5) When the supplier of water is unable to locate water from any other approved source and when an existing well can no longer provide water that meets the requirements of this Subchapter, a representative of the Division may approve a smaller well lot and reduced separation distances for temporary use.
- (b) The Division of Water Resources may grant a variance from the minimum horizontal separation distances for public water supply wells set out in 15A NCAC 18C .0203(a)(2)(D) and 15A NCAC 18C .0203(a)(2)(E).
- (1) Such variance shall require the following findings:
- (A) The well supplies water to a non-community water system as defined in G.S. 130A-313(10)(b) or supplies water to a business or institution, such as a school, that has become a non-community water system through an increase in the number of people served by the well.
  - (B) It is impracticable, taking into consideration feasibility and cost, for the public water system to comply with the minimum horizontal separation distance set out in the applicable sub-subpart of 15A NCAC 18C .0203(a)(2).
  - (C) There is no reasonable alternative source of drinking water available to the public water supply system.
  - (D) The granting of the variance will not result in an unreasonable risk to public health.
- (2) Such variance shall require that the non-community public water supply well meet the following requirements:
- (A) The well shall comply with the minimum horizontal separation distances set out in 15A NCAC 18C .0203(a)(2)(D) and 15A NCAC 18C .0203(a)(2)(E) to the maximum extent practicable.
  - (B) The well shall meet a minimum horizontal separation distance of 25 feet from a building, mobile home, or other permanent structure that is not used primarily to house animals.
  - (C) The well shall meet a minimum horizontal separation distance of 100 feet from any animal house or feedlot and from cultivated areas to which chemicals are applied.
  - (D) The well shall meet a minimum horizontal separation distance of 50 feet from surface water.
  - (E) The well shall comply with all other requirements for public well water supplies set out in 15A NCAC 18C .0203(a).

*History Note: Authority G.S. 130A-315; 130A-318; P.L. 93-523; S.L. 2011-394; Eff. January 1, 1977; Readopted Eff. December 5, 1977; Amended Eff. July 7, 2014; July 1, 1994; September 1, 1990; September 1, 1979.*