

**North Carolina Department of Environment and Natural Resources
Division of Water Quality - Aquifer Protection Section**



**APPLICATION FOR A PERMIT TO CONSTRUCT A WELL REQUIRING A
VARIANCE TO THE TITLE 15A NCAC 2C .0100 WELL CONSTRUCTION STANDARDS**

1. Name of well/property owner: _____
Mailing Address: _____

Telephone Number(s): _____

2. Location of proposed well: _____
(road, community, subdivision, lot number, etc.)
Address: _____

County: _____ Parcel ID Number: _____

3. Purpose (circle one): private drinking water supply / irrigation / public supply / other

4. Name of Certified Well Contractor & Company: _____
Certificate No.: _____ Telephone Number(s): _____
Address: _____

5. Reason for Variance Request (cite setback or section of 2C that will be varied from): _____

Provide the following information as attachments to this application:

1. A map showing general location of the property (include road names, NC State Route number, distances, any key landmarks) sufficient for finding the well location.
2. Detailed site map with scale showing location of proposed well relevant to septic system(s), building foundations, property lines, water bodies, potential sources of contamination, other wells, etc.
3. For sites in counties with a well permitting and inspection program, submit a copy of the local well permit application and site evaluation map.
4. Any other information relevant to the variance request (i.e. a well construction diagram showing proposed well liner or atypical construction materials/methods or Public Water Supply Section well site approval letter).

Signature of Well/Property Owner Date

County Health Dept Representative Date
(if county has well program)

By 15A NCAC 2C .0118, the Division of Water Quality may require submittal of information deemed necessary to make a decision on the variance, may impose conditions as part of the decision, and shall respond to the request within 30 days of receipt. If the applicant is dissatisfied with the variance decision, it may be contested by filing a petition under G.S. 150B-23 within 60 days after receipt of the decision.

Approval of a variance will require that additional construction requirements beyond those specified in 15A NCAC 2C .0107 be met. Minimum additional construction requirements for Coastal Plain and Piedmont and Mountain region wells are referenced on Attachment A and B. Approval of a variance will not be considered in cases where the specified minimum additional construction requirements can not be met.

COASTAL PLAIN

Minimum Additional Construction Requirements for Wells Requiring a Variance or a Permit to the Separation Distances in 15A NCAC 2C .0107(a)(2) and .0107(a)(3) - Applicable to areas that are Underlain by Unconsolidated Sediments and Sedimentary Rocks

POTENTIAL POLLUTION SOURCE	MINIMUM SEPARATION DISTANCE (ft)			MINIMUM ADDITIONAL REQUIREMENTS		
	Standard	Single Family	Variance	Casing Type	Casing Depth	Grout Depth
septic tank and drainfield	100	50	50	PVC	>20 feet below land surface or as specified by the Director	To the first significant clay greater than 20 feet below land surface or to the source aquifer
other subsurface ground absorption waste disposal system	100	100				
other sewage and liquid-waste collection or transfer facility	100	100				
cesspools and privies	100	50				
animal feedlots or manure piles	100	100				
Surface water (GW recharge)...ponds, lake	50	50	SITE SPECIFIC			
other surface water bodies...creeks, river	25	25				
water tight sewage or liquid-waste collection or transfer facility	50	25	SITE SPECIFIC	PVC ¹		
animal barns	100	50				
building foundations(excluding well house)	25	25				
fertilizer, pesticide, herbicide or other chemical storage areas	100	100	SITE/SOURCE SPECIFIC	SITE/SOURCE SPECIFIC		
other non-hazardous solid waste landfill	100	100				
non-hazardous waste storage, treatment or disposal lagoons	100	100				
industrial/municipal sludge-spreading or wastewater-irrigation site	100	100				
aboveground or underground heating oil storage tanks	50	50				
all other potential sources of groundwater contamination	50	50				
sanitary landfills	500	500	DO NOT ISSUE			
chemical or petroleum fuel underground storage tanks regulated under 15A NCAC 2N with secondary containment	50	50				
chemical or petroleum fuel underground storage tanks regulated under 15A NCAC 2N w/o secondary containment	100	100				

¹Double cased PVC may be required

Attachment A (Form GW-22V)

15A NCAC 2C .0107(d)(4)(B), .0107(e)(1)(A), and 2C .0116 provide for the ability to construct a well to a depth of less than 20 feet where the best source of water exists between a depth of ten and twenty feet below the surface of the land. Because additional minimum construction requirements necessitate that: 1) casing extend to a depth greater than 20 feet below land surface; and 2) grout extend to the first significant clay layer greater than 20 feet below land surface or to the source aquifer, a variance to horizontal separation distances for shallow wells cased to less than 20 feet is not feasible. Well construction information should be provided with the Application for Permit for Variance detailing how minimum additional construction requirements will be satisfied.

PIEDMONT AND MOUNTAINS

Minimum Additional Construction Requirements for Wells Requiring a Variance or a Permit to the Separation Distances in 15A NCAC 2C .0107(a)(2) and .0107(a)(3) - Applicable to areas that are Underlain by Crystalline Bedrock

POTENTIAL POLLUTION SOURCE	MINIMUM SEPARATION DISTANCE (ft)			MINIMUM ADDITIONAL REQUIREMENTS		
	Standard	Single Family	Variance	Casing Type	Casing Depth	Grout Depth
septic tank and drainfield	100	50	50	GALVANIZED STEEL	If Bedrock depth is <50 feet: the greater of 15 feet into bedrock or 40 feet below land surface If bedrock depth is 50-100 feet: 10 feet into bedrock If bedrock depth is >100 feet: 5 feet into bedrock	full length of casing ¹
other subsurface ground absorption waste disposal system	100	100				
other sewage and liquid-waste collection or transfer facility	100	100				
cesspools and privies	100	50				
animal feedlots or manure piles	100	100				
Surface water(GW recharge)...ponds, lake	50	50	SITE SPECIFIC			
other surface water bodies...creeks, river	25	25				
water tight sewage or liquid-waste collection or transfer facility	50	25	SITE SPECIFIC	PVC or GALVANIZED STEEL	The greater of 40 feet below land surface or 5 feet into bedrock	full length of casing ¹
animal barns	100	50				
building foundations(excluding well house)	25	25				
fertilizer, pesticide, herbicide or other chemical storage areas	100	100	SITE/SOURCE SPECIFIC	SITE/SOURCE SPECIFIC		
other non-hazardous solid waste landfill	100	100				
non-hazardous waste storage, treatment or disposal lagoons	100	100				
industrial/municipal sludge-spreading or wastewater-irrigation site	100	100				
aboveground or underground heating oil storage tanks	50	50				
all other potential sources of groundwater contamination	50	50				
sanitary landfills	500	500	DO NOT ISSUE	DO NOT ISSUE		
chemical or petroleum fuel underground storage tanks regulated under 15A NCAC 2N with secondary containment	50	50				
chemical or petroleum fuel underground storage tanks regulated under 15A NCAC 2N w/o secondary containment	100	100				

¹A drill bit with a diameter that is at least 1/3 greater than the diameter of the casing must be used to drill the cased portion of the well. Grout should be installed under pressure. Installation using a tremmie pipe is acceptable if the space to be grouted is free of obstruction