1 15A NCAC 02B .0620 is adopted as published in 32:21 NCR 1943 with changes as follows: 2 3 WATER SUPPLY WATERSHED PROTECTION PROGRAM: PURPOSE 15A NCAC 02B .0620 4 The purpose of this Rule and Rules .0621 .0620 through .0624 of this Section is to implement G.S. 143 .214.5, which 5 requires the Commission to adopt rules that establish set forth the minimum statewide water supply watershed 6 protection requirements applicable to each Water Supply classification classification, as provided in 15A NCAC 02B 7 .0212 through .0218. to protect the water quality of public surface water supplies. Water Supply classifications are 8 set forth in 15A NCAC 02B .0212 through .0218. 9 10 History Note: Authority G.S. 143-214.1; 143-214.5; 143-215.3(a)(1); 11 Eff. March 1, 2019.

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1	15A NCAC 02B	.0621 is adopted as published in 32:21 NCR 1943 with changes as follows:
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3	15A NCAC 02B	.0621 WATER SUPPLY WATERSHED PROTECTION PROGRAM: DEFINITIONS
4	The definition of	any word or phrase in Water Supply Watershed Protection Program Rules .0621 through .0624 of
5	this Section shall	be the same as given in Rule .0202 of this Subchapter and Article 21, Chapter 143 of the General
6	Statutes of North	Carolina, as amended. Other words and phrases used in Rules .0622 through .0624 of this Section
7	are defined as fol	lows: In addition to the definitions set forth in G.S. 143-214.7, the following definitions shall apply
8	to Rules .0622	<u>0624.</u>
9	(1)	"Balance of Watershed" or "-BW" means the area adjoining and upstream of the critical area in a
10		WS-II and WS-III water supply watershed. The "balance of watershed" is comprised of the entire
11		land area contributing surface drainage to the stream, river, or reservoir where a water supply intake
12		is located.
13	(2)	"Built upon Area" has the same meaning as in G.S. 143-214.7.
14	<del>(3)</del> (2)	"Cluster development" means the grouping of buildings in order to conserve land resources and
15		provide for innovation in the design of the project including minimizing stormwater runoff impacts.
16		Planned unit developments and mixed use development shall be considered as cluster development
17		has the same meaning as in 15A NCAC 02B .0202.
18	<del>(4)</del> (3)	"Commission" means the North Carolina Environmental Management Commission has the same
19		meaning as in 15A NCAC 02H .1002.
20	<del>(5)</del> (4)	"Common plan of development" has the same meaning as in 15A NCAC 02H . $\frac{1002}{1002}$ , which is herein
21		incorporated by reference, as amended1002.
22	(5)	"Critical area" has the same meaning as in 15A NCAC 02B .0202.
23	(6)	"Curb Outlet System" has the same meaning as in 15A NCAC 02H .1002.
24	(7)	"Development" means any land disturbing activity that increases the amount of built upon area or
25		that otherwise decreases the infiltration of precipitation into the subsoil.
26	<del>(8)</del> (7)	"Dispersed flow" has the same meaning as in 15A NCAC 02H .1002.
27	<del>(9)</del> (8)	"Division" means the Division of Energy, Mineral, and Land Resources or its successors has the
28		same meaning as in 15A NCAC 02H .1002.
29	<del>(10)(9)</del>	"Erosion and Sedimentation Control Plan" means any plan, amended plan, or revision to an
30		approved plan submitted to the Division of Energy, Mineral, and Land Resources or a delegated
31		authority in accordance with G.S. 113A 57 has the same meaning as in 15A NCAC 02H .1002.
32	<del>(11)</del> (10)	"Existing development" means those projects that are built or those projects that at a minimum have
33		established a vested right under North Carolina zoning law as of the effective date of the local
34		government water supply ordinance, or such earlier time that an affected local government's
35		ordinance shall specify, based on at least one of the following criteria:
36		(a) substantial expenditure of resources (time, labor, money) based on a good faith reliance
37		upon having received a valid local government approval to proceed with the project;

1		(b) having an outstanding valid building permit in compliance with G.S. 153A 344.1 or G.S.
2		<del>160A 385.1; or</del>
3		(c) having an approved site specific or phased development plan in compliance with G.S.
4		153A 344.1 or G.S. 160A 385.1-has the same meaning as in 15A NCAC 02H .1002.
5	<del>(12)</del> (11)	"Family subdivision" means a division of a tract of land:
6		(a) to convey the resulting parcels, with the exception of parcels retained by the grantor, to a
7		relative or relatives as a gift for nominal consideration, but only if no more than one parcel
8		is conveyed by the grantor from the tract to any one relative; or
9		(b) to divide land from a common ancestor among tenants in common, all of whom inherited
10		by intestacy or by will has the same meaning as in 15A NCAC 02B .0202.
11	<del>(13)</del> (12)	"Geotextile fabric" has the same meaning as in 15A NCAC 02H .1002.
12	<del>(14)</del> (13)	"Intermittent stream" has the same meaning as in 15A NCAC 02B .0610.
13	<del>(15)</del> (14)	"Major variance" means a variance that is not a "minor variance" as that term is defined in this Rule
L4		has the same meaning as in 15A NCAC 02B .0202.
15	<del>(16)</del> (15)	"Minimum Design Criteria" or "MDC" has the same meaning as in 15A NCAC 02H .1002.
16	<del>(17)</del> (16)	"Minor variance" means a variance from the minimum statewide watershed protection rules that
17		results in the relaxation of up to 10 percent of any vegetated setback, density, or minimum lot size
18		requirement applicable to low density development, or the relaxation of up to five percent of any
19		vegetated setback, density, or minimum lot size requirement applicable to high density
20		development. For variances to a vegetated setback requirement, the percent variation shall be
21		calculated using the footprint of built upon area proposed to encroach within the vegetated setback
22		divided by the total area of vegetated setback within the project has the same meaning as in 15A
23		NCAC 02B .0202.
24	<del>(18)</del> (17)	"Nonconforming lot of record" means a lot described by a plat or a deed that was recorded prior to
25		the effective date of local watershed regulations (or their amendments) that does not meet the
26		minimum lot size or other development requirements of Rule .0624 of this Section has the same
27		meaning as in 15A NCAC 02B .0202.
28	<del>(19)</del> (18)	"NPDES" means National Pollutant Discharge Elimination System has the same meaning as in 15A
29		NCAC 02H .1002.
30	<del>(20)</del> (19)	"Perennial stream" has the same meaning as in 15A NCAC 02B .0610.
31	<del>(21)</del> (20)	"Perennial waterbody" has the same meaning as in 15A NCAC 02B .0610.
32	<del>(22)</del> (21)	"Primary SCM" has the same meaning as in 15A NCAC 02H .1002.
33	<del>(23)</del> (22)	"Project" means the proposed development activity for which an applicant is seeking approval in
34		accordance with Rules .0620 through .0624 of this Section. A project shall exclude any land adjacent
35		to the area disturbed by the project that has been counted as pervious by any other development
36		regulated under a federal, State, or local stormwater regulation. Owners and developers of large
37		developments consisting of many linked projects may consider developing a master plan that

1		illustrates how each project fits into the design of the large development has the same meaning as
2		in 15A NCAC 02H .1002.
3	(23)	"Protected area" has the same meaning as in 15A NCAC 02B .0202.
4	(24)	"Redevelopment" means any land disturbing activity that does not result in a net increase in built
5		upon area and that provides greater or equal stormwater control to that of the previous development
6	<del>(25)</del> (24)	"Required storm depth" has the same meaning as in 15A NCAC 02H .1002.
7	<del>(26)</del> (25)	"Runoff treatment" has the same meaning as in 15A NCAC 02H .1002.
8	<del>(27)</del> (26)	"Runoff volume match" has the same meaning as in 15A NCAC 02H .1002.
9	<del>(28)</del> (27)	"Secondary SCM" has the same meaning as in 15A NCAC 02H .1002.
10	<del>(29)</del> (28)	"Stormwater Control Measure" or "SCM" has the same meaning as in 15A NCAC 02H .1002.
11	<del>(30)</del> (29)	"Vegetated setback" means an area of natural or established vegetation adjacent to surface waters
12		through which stormwater runoff flows in a diffuse manner to protect surface waters from
13		degradation due to development activities. has the same meaning as in 15A NCAC 02H .1002.
14	<del>(31)</del> (30)	"Vegetated conveyance" means a permanent, designed waterway lined with vegetation that is used
15		to convey stormwater runoff at a non-erosive velocity within or away from a developed area has the
16		same meaning as in 15A NCAC 02H .1002.
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18	History Note:	Authority G.S. 143-214.1; 143-214.5; 143-215.3(a)(1);
19		Eff. March 1, 2019.
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1	15A NCAC 02B .0622 is	s adopted as published in 32:21 NCR 1943 with changes as follows:
2		
3	15A NCAC 02B .0622	WATER SUPPLY WATERSHED PROTECTION PROGRAM: APPLICABILITY
4		AND EFFECTIVE DATES EXCLUSIONS AND SPECIAL CASES
5	All local governments th	nat have land use authority within classified water supply watersheds are subject to Rules
6	.0621 through .0624 of t	his Section. Administration and enforcement of Rules .0621 through .0624 of this Section
7	shall be the responsibility	y of the adopting local government within its jurisdiction. In addition, State owned projects,
8	silviculture activities, and	l agricultural activities are subject to these rules pursuant to G.S. 143-214.5 (i) and Items (2),
9	(3), and (4) of this Rule,	as applicable. This rule describes exclusions from the water supply watershed program and
10	special case projects in th	ne water supply watershed program.
11	(1) EXCLU	USIONS. The following project types shall be excluded from the requirements of Rules
12	<u>.0620</u>	0624 of this Section:
13	(1) EFFEC	CTIVE DATES. For the purposes of implementing the requirements of this Rule, Rules .0621
14	through	1.0624 of this Section, and G.S. 143-214.5, the effective dates set forth in 15A NCAC 02B
15	<del>.0104(c</del>	1) .0104(e) shall apply.
16	(2) STATE	E OWNED PROJECTS. State owned projects, with the exception of North Carolina
17	<del>Departi</del>	ment of Transportation (NCDOT) projects, that are located in designated water supply
18	watersh	neds shall comply with the stormwater management requirements of this Section and G.S.
19	143-21	4.5(i). For NCDOT projects, the construction of new roads and bridges shall minimize built-
20	<del>upon a</del>	rea, divert stormwater away from surface water supply waters as much as possible, and
21	employ	best management practices to minimize water quality impacts. To the extent practicable, the
22	constru	ection of new roads in a critical area shall be avoided. NCDOT projects shall be in compliance
23	with N	PDES Permit No. NCS000250.
24	<u>(a)</u>	existing development;
25	<u>(b)</u>	redevelopment;
26	<u>(c)</u>	single-family residential redevelopment, even if there is a net increase in built-upon area
27		or if stormwater controls are not equal to that of the previous single-family residential
28		development;
29	<u>(d)</u>	expansions to single-family residential existing development, unless the expansion is part
30		of a larger common plan of development that is subject to this Rule;
31	<u>(e)</u>	nonconforming lot of record that is not contiguous to any other lot owned by the same party
32		and if it is to be developed for single-family residential purposes. However, local
33		governments may require the combination of contiguous nonconforming lots of record
34		owned by the same party in order to establish a lot or lots that meet the development
35		restrictions of Rule .0624 of this Section;

T		(1)	any lot or parcel created as part of a family subdivision after the effective date of the local
2			watershed ordinance if it is to be developed for one single-family detached residence and
3			if it is exempt from a local subdivision ordinance;
4		(g)	activities of the North Carolina Department of Transportation (NCDOT) that are regulated
5			in accordance with the provisions of NPDES Permit Number NCS000250;
6		<u>(h)</u>	linear transportation projects undertaken by an entity other than NCDOT when:
7			(i) the project is constructed to NCDOT standards and is in accordance with the
8			NCDOT Stormwater Best Management Practices Toolbox (Version 2, April 2014
9			Edition) which is here in incorporated by reference, including any subsequent
LO			amendments and editions, and may be access at no cost at
11			https://connect.ncdot.gov/resources/hydro/HSPDocuments/2014_BMP_Toolbox
12			<u>.pdf;</u>
13			(ii) upon completion, the project will be conveyed either to the NCDOT or another
L4			public entity and will be regulated in accordance with that entity's NPDES MS4
L5			stormwater permit; and
L6			(iii) the project is not part of a common plan of development.
L7		<u>(i)</u>	airport facilities that are deemed permitted in accordance with G.S. 143.214.7 (c4).
18	(2)	SPECIA	AL CASES. In lieu of the requirements set forth in Rules .06200624 of this Section, the
19		followi	ng shall apply:
20		<del>(3)</del> (a)	SILVICULTURE. The North Carolina Forest Service (NCFS) shall be the designated
21			agency for oversight of compliance with the water supply watershed protection
22			requirements of this Section, insofar as their authority allows, for siliviculture activities
23			occurring within designated water supply watersheds. Siliviculture activities that shall
24			comply with the provisions of the Forest Practices Guidelines Related to Water Quality (02 $$
25			NCAC 60C, herein incorporated by reference with subsequent amendments and editions
26			and available at no cost at http://www.ncoah.com/rules/) and other applicable forestry
27			water quality standards as determined by NCFS shall be deemed compliant with the water
28			supply watershed protection requirements of this Section.the North Carolina Forest
29			Service.
30		<del>(4)</del> (b)	AGRICULTURE. The North Carolina Soil and Water Conservation Commission shall be
31			the designated agency for administration of the applicable water supply watershed
32			protection requirements of this Section for agricultural activities. Agricultural activities are
33			not subject to the stormwater management requirements of this Section, except that
34			agricultural activities occurring after January 1, 1993 within WS-I watersheds and the
35			critical areas of WS-II, WS-III, and WS-IV watersheds are shall be subject to the vegetated
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			setback requirements as set forth in Rule .0624(12)(a)(iv) of this Section.0624(11) of this

History Note: Authority G.S. 143-214.1; 143-214.5; 143-215.3(a)(1);
 Eff. March 1, 2019 (The provisions of this Rule were previously codified in 15A NCAC 02B .0104.)

15A NCAC 02B .063	523 is adopted as r	published in 32:21 NCR	1943 with changes	as follows:
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## 15A NCAC 02B .0623 WATER SUPPLY WATERSHED PROTECTION PROGRAM: PROGRAM ADMINISTRATION

This Rule contains provisions for the administration of water supply watershed protection programs.

- (1) LOCAL GOVERNMENTS INCLUDED. All local governments that have land use authority within designated water supply watersheds shall adopt and enforce ordinances and watershed maps that meet or exceed the requirements of G.S. 143-214.5 and Rules .0621 through .0624 of this Section. Local governments may adopt and enforce more stringent controls. Local governments shall have the option to may use the Commission's model Watershed Protection Ordinance available at no cost at http://watersupplywatershed.nc.gov as the basis for their ordinance, or they may shall have the option to propose an alternative ordinance that meets or exceeds the requirements of this Section Rules .0621 through .0624 of this Section.
- (2) SCHEDULE OF IMPLEMENTATION. Local governments shall adopt, make effective, and begin implementing the required water supply watershed protection ordinance (or equivalent ordinance) and watershed map in accordance with the effective dates set forth in 15A NCAC 02B .0104(d).
- (3)(2) COMMISSION APPROVAL. Local government water supply watershed protection ordinances (or equivalent ordinances) and watershed maps shall be submitted to the Division for approval by the Commission or its designee no later than 270 days after receiving notice of a water supply reclassification from the Commission. The Commission or its designee shall approve the water supply watershed protection ordinance and map if it meets or exceeds the minimum statewide water supply watershed management requirements adopted pursuant to this Section Rules .0621 through .0624 of this Section and G.S. 143-214.5. The local government may begin implementing the ordinances prior to receiving approval by the Commission. The following items shall be included in the submission in either paper or electronic format:
  - (a) one copy of the adopted and effective relevant ordinance;
  - (b) a cover letter from the local government's legal counsel, municipal or county clerk, or municipal or county manager certifying that the ordinance meets or exceeds the requirements of this Section and G.S. 143-214.5; and
  - (c) one copy of a watershed map showing the local government corporate and extraterritorial jurisdictional boundaries, the Commission's adopted watershed boundaries, the local government's interpreted watershed boundaries, and U.S. Geological Survey 1:24,000 (7.5 minute) scale topographic contour lines and hydrography.
- (4)(3) WATERSHED BOUNDARY INTERPRETATION. Major landmarks landmarks, such as highways or property lines lines, may be used to delineate the outer boundary of the critical areas, balance of watershed areas, and protected areas if these landmarks are immediately adjacent to the appropriate outer boundary of 1/2 mile for the critical areas, the balance of watershed areas, or five

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or ten miles for the protected areas as specified in 15A NCAC 02B .0202. Local governments may extend the critical, balance of watershed, and protected area boundaries beyond the minimum distance required; however, these extended local boundaries shall not affect administration of state permits unless the boundaries are also adopted by the Commission. Local governments shall delineate the approximate normal pool elevation for backwaters of water supply reservoirs for the purposes of determining the critical and protected area boundaries as appropriate. Local governments shall rely primarily on U.S. Geological Survey topographic maps, land surveys conducted by licensed surveyors, Lidar data, or information from the U.S. Army Corps of Engineers in approximating the location of backwaters.

- (5)(4) REVISIONS TO ORDINANCES AND MAPS. Revisions to local watershed supply watershed protection ordinances and watershed maps shall be submitted to the Commission or its designee for approval. The submission requirements set forth in Item (3) of this Rule shall apply to all subject revisions. In addition, revisions to ordinances shall be submitted in a format that identifies the changes adopted or being proposed, as applicable. The local government may adopt and begin implementing the revised ordinance prior to receiving approval by the Commission or its designee; however except, revisions (expansions or deletions) regarding expansions or deletions to watershed maps shall be approved by the Commission or its designee prior to local government adoption.
- (6)(5) VARIANCES. For all proposed major and minor variances, as those terms are defined in Rule .0621 of this Section, from the minimum statewide watershed protection rules, the local Watershed Review Board, or equivalent quasi-judicial body, body shall make findings of fact in accordance with the procedures of S.L. 2013 126 and Article 18 of G.S. 153A or G.S. 160A-393, as appropriate, showing that:
  - there are practical difficulties or unnecessary hardships that prevent compliance with the strict letter of the ordinance;
  - (b) the variance is in harmony accordance with the general purpose and intent of the local watershed protection ordinance and preserves its spirit; and
  - (c) in granting the variance, the public safety and welfare have been assured and substantial justice has been done the project will ensure equal or better protection of waters of the State than the requirements of Rules .0621-.0624 of this Section and that the stormwater controls will function in perpetuity.

For all proposed major and minor variances, the local government considering or requesting the variance shall notify and allow a reasonable comment period for all other local governments having jurisdiction within the watershed area governed by these Rules and the entity using the water supply for consumption. The local Watershed Review Board Board, or equivalent local quasi-judicial body, hereafter referred to as "the Board," may attach conditions to the major or minor variance approval that support the purpose of the local watershed protection ordinance. The local Watershed Review Board, or equivalent local quasi-judicial body, Board shall have the power to may authorize minor

1		variances for development activities on a case-by-case basis. For major variances, if the local
2		Watershed Review-Board decides in favor of granting the major variance, the Board then it shall
3		then prepare a preliminary record of the hearing and submit it to the Commission for review. If the
4		Commission approves the major variance or approves the variance with conditions or stipulations
5		added, then the Commission shall prepare a decision that authorizes the local Watershed Review
6		Board to issue a final decision that includes any conditions or stipulations added by the Commission.
7		If the Commission denies the major variance, then the Commission shall prepare a decision to be
8		sent to the <del>local Watershed Review</del> Board. The <del>local Watershed Review</del> -Board shall prepare a final
9		decision denying the major variance. Appeals from the local government decision on a major or
10		minor variance request shall be made on certiorari to the local Superior Court. Appeals from the
11		Commission decision on a major variance request are made on judicial review to Superior Court.
12		When local ordinances are more stringent than the state's minimum watershed protection
13		requirements, a variance to the local government's ordinance is not considered a major variance as
14		long as the result of the variance is not less stringent than the state's minimum watershed protection
15		requirements.
16	<del>(7)</del> (6)	RECORDKEEPING REQUIREMENTS. Local governments shall maintain the following records
17		and furnish a copy of these records to the Division upon request:
18		(a) a copy of all variance requests and associated documents;
19		(b) findings of fact on all variance requests;
20		(c) a description of all projects for which the local government has granted a variance to the
21		requirements of this Section Rules .06210624 of this Section;
22		(d) an accounting of projects approved under the local government's 10/70 Option (as
23		described in Rule .0624 of this Section), as applicable; and
24		(e) records of inspections of SCMs pursuant to Item (8) of this Rule.
25	<del>(8)</del> (7)	OPERATION AND MAINTENANCE OF SCMS. Wherever in this Section it is provided that local
26		governments assume responsibility for operation and maintenance of engineered SCMs, this shall
27		be construed to require responsible local governments to either inspect such SCMs or require the
28		owners of such SCMs to inspect such SCMs at least once per year to determine whether the SCMs
29		are performing as designed and intended. Records of inspections shall be maintained on forms made
30		available by the Division at http://watersupplywatershed.nc.gov/ or the local government. The
31		inspection form shall include the following:
32		(a) project name;
33		(b) owner name and address;
34		(c) name and classification of the water supply watershed where the project is located;
35		(d) type(s) of SCMs at the project site;

estimated timeframe for completion of the repairs or maintenance.

summary of repairs or maintenance needed; and

(e)

(f)

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1		In the event an inspection shows that an SCM is not performing as designed and intended, the local
2		government shall order the owning entity to take corrective actions. If the entity fails to take
3		corrective actions, the local government may impose civil penalties and pursue other available
4		remedies in accordance with State and local law, including without limitation: G.S. 14-4; G.S. 77-
5		13; G.S. 77-14; G.S. 143-214.7; G.S. 143-215.6A; G.S. 153A-123; G.S. 160A-459; and G.S. 160A-
6		175.
7	<del>(9)</del> (8)	Local governments shall, as the existing laws allow, develop, implement, and enforce
8		comprehensive nonpoint source and stormwater discharge control programs to reduce water
9		pollution from activities within water supply watersheds such as development, landfills, mining, on
10		site sanitary sewage systems which utilize ground adsorption, toxic and hazardous materials,
11		transportation, and water based recreation.
12	<del>(10)</del> (9)	ENFORCEMENT. In the event that the Commission determines that a local government program
13		has failed to adopt or implement its program in compliance with the water supply watershed
14		protection requirements of this Section and G.S. 143-214.5, the Commission shall take appropriate
15		enforcement action in accordance with G.S. 143-214.5 and G.S. 143-215.6A(e). When the
16		Commission assumes a local water supply watershed protection program as specified under G.S.
17		143-214.5(e), all local permits authorizing construction and development activities as regulated by
18		the statewide minimum water supply watershed protection requirements of this Section shall be
19		approved by the Commission or its designee prior to local government issuance.
20	<del>(11)</del> (10)	<u>DELEGATION.</u> The Commission may delegate such matters as variance approval, extension of
21		deadlines for submission of ordinances, and assessment of civil penalties pursuant to G.S. 143-
22		214.5(e) to the Director.
23		
24	History Note:	Authority G.S. 143-214.1; 143-214.5; 143-215.3(a)(1);
25		Eff. March 1, 2019 (The provisions of this Rule were previously codified in 15A NCAC 2B .0104.)
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1	15A NCAC 021	3 .0624 is adopted as published in 32:21 NCR 1943 with changes as follows:
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3	15A NCAC 021	3.0624 WATER SUPPLY WATERSHED PROTECTION PROGRAM: NONPOINT
4		SOURCE AND STORMWATER POLLUTION CONTROL
5		
6	The purpose of	this Rule is to minimize the impact of stormwater runoff from development on the water quality of
7	public surface	vater supplies and to protect their designated uses as public water supplies. This Rule sets forth
8	requirements for	r projects that are subject to water supply watershed regulations.
9	(1)	IMPLEMENTING AUTHORITY. The requirements of this Rule shall be implemented by local
10		governments with land use authority in one or more designated water supply watersheds. State
11		agencies shall also comply with this Rule insofar as required by G.S. 143-214.5 and in accordance
12		with Rule .0622 of this Section.
13	(2)	APPLICABILITY. This Rule shall apply to all new development projects, including state owned
14		projects, that lie within a designated water supply watershed, except in a Class WS-IV watershed
15		where this Rule applies only to new development projects that require an Erosion and Sedimentation
16		Control Plan. Rule .0622 of this Section includes project types to which rules do not apply.
17	(3)	EXCLUSIONS. The following shall not be subject to this Rule:
18		(a) existing development;
19		(b) redevelopment, as that term is defined in Rule. 0621 of this Section;
20		(c) single family residential redevelopment even if there is a net increase in built upon area or
21		if stormwater controls are not equal to that of the previous single family residential
22		development;
23		(d) expansions to single family residential existing development unless the expansion is part
24		of a larger common plan of development that is subject to this Rule;
25		(e) nonconforming lot of record that is not contiguous to any other lot owned by the same party
26		and if it is to be developed for single family residential purposes. Local governments may
27		require the combination of contiguous nonconforming lots of record owned by the same
28		party in order to establish a lot or lots that meet or nearly meet the development restrictions
29		of this Section;
30		(f) any lot or parcel created as part of a family subdivision after the effective date of the local
31		watershed ordinance if it is to be developed for one single family detached residence and
32		if it is exempt from a local subdivision ordinance. Any lot or parcel created as part of any
33		other type of subdivision that is exempt from a local subdivision ordinance shall be subject
34		to this Rule, except that such a lot or parcel shall meet the vegetated setback requirements
35		set forth in Item (12) of this Rule to the maximum extent practicable. In determining
36		whether this criteria has been met, the local government shall take into account site specific
37		factors including technical and cost considerations as well as protection of water quality;

- (g) silviculture activities except as required by Rule .0622(3) of this Section;
- (h) agricultural activities except as required by Item (12) of this Rule and Rule .0622(4) of this Section; and
- (i) North Carolina Department of Transportation (NCDOT) activities that are regulated in accordance with the provisions of NPDES Permit No. NCS000250.

(4)(3) PROJECT DENSITY. The following maximum allowable project densities and minimum lot sizes shall apply to a project according to the classification of the water supply watershed where it is located (WS I, WS II, WS III, WS IV, WS V), its relative location in the watershed (Critical Area versus Balance of Watershed or Protected Area), its project density (low density versus high density), and the type of development (single family detached residential versus all other types):

		Maximum Allowable	Project Density or I	Minimum Lot Size
Water Supply	Location in the Watershed	Low Density Development		High Density Development
Classification		Single-family detached residential	Non-residential and all other residential	All types
	Not Applicable:	Watershed shall remain	undeveloped excep	t for the following
	uses when they	cannot be avoided: power	er transmission lines	s, restricted access
WS-I	roads, and st	ructures associated with	water withdrawal,	treatment, and
	distribution of tl	ne WS-I water. Built-up	on area shall be des	igned and located
	to mini	imize stormwater runoff	impact to receiving	g waters.
		1 dwelling unit per 2		
		acres or 80,000		
	Critical Area	square foot lot	6% built-upon	6 to 24% built-
		excluding roadway	area	upon area
		right-of-way or 6%		
WS-II		built-upon area		
W S-11		1 dwelling unit per 1		
		acre or 40,000		
	Balance of	square foot lot	12% built-upon	12 to 30% built-
	Watershed	excluding roadway	area	upon area
		right-of-way or 12%		
		built-upon area		
WG III	C.V. 1A	1 dwelling unit per 1	12% built-upon	12 to 30% built-
WS-III	Critical Area	acre or 40,000	area	upon area

		square foot lot		
		excluding roadway		
		right-of-way or 12%		
		built-upon area		
		1 dwelling unit per		
		one-half acre or		
	Deleger	20,000 square foot	240/114	24. 500/1
	Balance of	lot excluding	24% built-upon	24 to 50% built-
	Watershed	roadway right-of-	area	upon area
		way or 24% built-		
		upon area		
		2 dwelling units per		
	Critical Area	acre or 20,000		
		square foot lot	24% built-upon	24 to 50% built-
		excluding roadway	area	upon area
		right-of-way or 24%		
		built-upon area		
		2 dwelling units per		
		acre or 20,000		
WS-IV		square foot lot	24% built-upon area; or 36%	24 to 70% built- upon area
		excluding roadway		
		right-of-way or 24%	built-upon area	
	Protected Area	built-upon; or 3	without curb	
		dwelling units per	and gutter street	
		acre or 36% built-		
		upon area without	system	
		curb and gutter street		
		system		
WS-V		Not Appl	icable	

(5)(4) CALCULATION OF PROJECT DENSITY. The following requirements shall apply to the calculation of project density:

- (a) Project density shall be calculated as the total built-upon area divided by the total project area;
- (b) A project with "existing development," as that term is defined in Rule .0621 of this Section, may use the calculation method in Sub-Item (a) of this Item or shall have the option of ealeulating or may calculate project density as the difference of total built-upon area minus

1			existing	built-upon area divided by the difference of total project area minus existing built-
2			upon a	rea. Expansions to existing development shall be subject to this Rule except as
3			exclude	ed in Sub-Item (3)(d) of this Rule. Where there is a net increase of built-upon area,
4			only the	e area of net increase shall be subject to this Rule. Where existing development is
5			being re	eplaced with new built-upon area, and there is a net increase of built-upon area, only
6			the area	of net increase shall be subject to this Rule;
7		(c)	Total p	roject area shall exclude the following:
8			(i)	areas below the Normal High Water Line (NHWL); and
9			(ii)	areas defined as "coastal wetlands" pursuant to 15A NCAC 07H .0205, herein
10				incorporated by reference, including subsequent amendments and editions, and
11				available at no cost at http://reports.oah.state.nc.us/ncac.asp, as measured
12				landward from the NHWL; and
13		(d)	Projects	s under a common plan of development shall be considered as a single project for
14			purpose	es of density calculation except that on a case-by-case basis, local governments shall
15			have th	e option to allow may allow projects to be considered to have both high and low
16			density	areas based on one or more of the following criteria:
17			(i)	natural drainage area boundaries;
18			(ii)	variations in land use throughout the project; or
19			(iii)	construction phasing.
20	<del>(6)</del> (5)	LOW I	DENSITY	PROJECTS. In addition to complying with the project density requirements of
21		Item (4	) of this I	Rule, low density projects shall comply with the following:
22		(a)	VEGET	TATED CONVEYANCES. Stormwater runoff from the project shall be released to
23			vegetat	ed areas as dispersed flow or transported by vegetated conveyances to the maximum
24			extent p	practicable. In determining whether this criteria has been met, the local government
25			shall ta	ke into account site-specific factors such as topography and site layout as well as
26			protecti	on of water quality. Vegetated conveyances shall be maintained in perpetuity to
27			ensure	that they function as designed. Vegetated conveyances that meet the following
28			criteria	shall be deemed to satisfy the requirements of this Sub-Item:
29			(i)	Side slopes shall be no steeper than 3:1 (horizontal to vertical) unless it is
30				demonstrated to the local government that the soils and vegetation will remain
31				stable in perpetuity based on engineering calculations and on-site soil
32				investigation; and
33			(ii)	The conveyance shall be designed so that it does not erode during the peak flow
34				from the 10-year storm event as demonstrated by engineering calculations.
35		(b)	CURB	OUTLET SYSTEMS. In lieu of vegetated conveyances, low density projects shall
36			have the	e option to use curb and gutter with outlets to convey stormwater to grassed swales
37				tated areas. Requirements for these curb outlet systems shall be as follows:

1			(i)	The curb outlets shall be located such that the swale or vegetated area can carry
2				the peak flow from the 10-year storm and at a non-erosive velocity;
3			(ii)	The longitudinal slope of the swale or vegetated area shall not exceed five percent
4				except where not practical due to physical constraints. In these cases, devices to
5				slow the rate of runoff and encourage infiltration to reduce pollutant delivery shall
6				be provided;
7			(iii)	The swale's cross section shall be trapezoidal with a minimum bottom width of
8				two feet;
9			(iv)	The side slopes of the swale or vegetated area shall be no steeper than 3:1
10				(horizontal to vertical);
11			(v)	The minimum length of the swale or vegetated area shall be 100 feet; and
12			(vi)	Low density projects may use treatment swales designed in accordance with 15A
13				NCAC 02H .1061 in lieu of the requirements specified in Sub-Items (i) through
14				(v) of this Sub-Item.
15	<del>(7)</del> (6)	HIGH 1	DENSIT`	Y PROJECTS. In addition to complying with the project density requirements of
16		Item (4)	) of this I	Rule, high density projects shall comply with the following:
17		(a)	SCMs	shall be designed, constructed, and maintained so that the project achieves either
18			"runoff	treatment" or "runoff volume match" as those terms are defined in Rule .0621 of
19			this Sec	ction;
20		(b)	REQUI	RED STORM DEPTH. For high density projects designed to achieve runoff
21			treatme	nt, the required storm depth shall be one inch. Applicants shall have the option to
22			design	projects to achieve runoff volume match in lieu of runoff treatment. treatment;
23		(c)	OFF-SI	TE STORMWATER. Stormwater runoff from off-site areas and "existing
24			develop	oment," as that term is defined in Rule .0621 of this Section, shall not be required to
25			be trea	ted in the SCM. Runoff from off-site areas or existing development that is not
26			bypasse	ed shall be included in sizing of on-site SCMs;
27		(d)	MDC F	COR SCMs. SCMs shall meet the relevant MDC set forth in 15A NCAC 02H .1050
28			through	1. <del>1062.</del> <u>.0162; and</u>
29		(e)	STORN	AWATER OUTLETS. Stormwater outlets shall be designed so that they do not
30			cause e	rosion downslope of the discharge point during the peak flow from the 10-year
31			storm e	vent as shown by engineering calculations.
32	<del>(8)</del> (7)	OPTIO	NS FOR	IMPLEMENTING PROJECT DENSITY. Local governments shall have the
33		followi	ng option	ns when developing or revising their ordinances in place of or in addition to the
34		require	ments of	Item (4) of this Rule, as appropriate:
35		(a)	Local g	overnments shall have the option to allow may allow only low density development
36			in their	water supply watershed areas in accordance with this Section

1	(b)	Local governments shall have the option to may regulate low density single-fam
2		detached residential development using the minimum lot size requirements, dwelling u
3		per acre requirements, built-upon area percentages, or some combination of these.
4	(c)	10/70 OPTION. Outside of WS-I watersheds and the critical areas of WS-II, WS-III, a
5		WS-IV watersheds, local governments shall have the option to may regulate no
6		development under the "10/70 option" in accordance with the following requirements:
7		(i) A maximum of 10 percent of the land area of a water supply watershed outside
8		the critical area and within a local government's planning jurisdiction may
9		developed with new development projects and expansions of existi
10		development of up to 70 percent built-upon area.
11		(ii) In water supply watersheds classified on or before August 3, 1992, the beginni
12		amount of acreage available under this option shall be based on a loc
13		government's jurisdiction as delineated on July 1, 1993. In water supp
14		watersheds classified after August 3, 1992, the beginning amount of acrea
15		available under this option shall be based on a local government's jurisdiction
16		delineated on the date the water supply watershed classification became effective
17		The acreage within the critical area shall not be counted towards the allowal
18		10/70 option acreage;
19		(iii) Projects that are covered under the 10/70 option shall comply with the low dens
20		requirements set forth in Item (6) of this Rule unless the local government allo
21		high density development, in which case the local government shall have t
22		option to may require these projects to comply with the high density requirement
23		set forth in Item (7) of this Rule;
24		(iv) The maximum built-upon area allowed on any given new development projection
25		shall be 70 percent;
26		(v) A local government having jurisdiction within a designated water supp
27		watershed may transfer, in whole or in part, its right to the 10/70 land area
28		another local government within the same water supply watershed upon submit
29		of a joint resolution and approval by the Commission; and
30		(vi) When the water supply watershed is composed of public lands, such as Nation
31		Forest land, local governments may count the public land acreage within t
32		watershed outside of the critical area in calculating the acreage allowed under the
33		provision.
34	(d)	New development shall meet the development requirements on a project-by-project ba
35		except local governments may submit ordinances that use density or built-upon area crite
36		averaged throughout the local government's watershed jurisdiction instead of on a proje
37		by-project basis within the watershed. Prior to approval of the ordinance, the loc

1			government shall demonstrate to the Commission that the provisions as averaged meet or
2			exceed the statewide minimum requirements and that a mechanism exists to ensure the
3			orderly and planned distribution of development potential throughout the local
4			government's jurisdiction within the watershed.
5		(e)	Local governments may administer oversight of future development activities in single-
6			family detached residential developments that exceed the applicable low density
7			requirements by tracking dwelling units rather than percentage built-upon area, as long as
8			the SCM is sized to capture and treat runoff from all pervious and built-upon surfaces
9			shown on the development plan and any off-site drainage from pervious and built-upon
10			surfaces, and when an additional safety factor of 15 percent of built-upon area of the project
11			site is figured in.
12	<del>(9)</del> (8)	CLUST	ER DEVELOPMENT. Cluster development shall be allowed on a project-by-project basis
13		as follo	ws:
14		(a)	Overall density of the project shall meet the requirements of Item (4) of this Rule;
15		(b)	Vegetated setbacks shall meet the requirements of Item (12) of this Rule;
16		(c)	Built-upon areas are designed and located to minimize stormwater runoff impact to
17			receiving waters, minimize concentrated stormwater flow, maximize the use of sheet flow
18			through vegetated areas, and maximize the flow length through vegetated areas;
19		(d)	Areas of concentrated development shall be located in upland areas and away, to the
20		. ,	maximum extent practicable, from surface waters and drainageways. In determining
21			whether these criteria have been met, the local government shall take into account site-
22			specific factors such as topography and site layout as well as protection of water quality;
23		(e)	The remainder of tract shall remain in a vegetated or natural state;
24		(f)	The area in the vegetated or natural state may be conveyed to a property owners association,
25		( )	a local government for preservation as a park or greenway, a conservation organization, or
26			placed in a permanent conservation or farmland preservation easement;
 27		(g)	A maintenance agreement for the vegetated or natural area shall be filed with the Register
28		(6)	of Deeds; and
29		(h)	Cluster development that meets the applicable low density requirements shall comply with
30		(11)	Item (6) of this Rule.
31	(10)(9)	DENSI	TY AVERAGING OF NONCONTIGUOUS PARCELS. Density averaging of two
32	(10)(2)		tiguous parcels for purposes of complying with this Rule shall be allowed in accordance with
33			3-214.5 (d2).
34	(11)(10)		NSIBILITY FOR SCM OPERATION & MAINTENANCE. Operation and maintenance
35	(1 <del>1)</del> (10)		ents and plans are required for SCMs in accordance with 15A NCAC 02H .1050. Local
36		-	nents that allow high density development shall assume ultimate responsibility for operation
37		•	intenance of the SCMs that they approve

1	<del>(12)</del> (11) VEGE	TATED	SETBACKS. Vegetated setbacks shall be required along perennial waterbodies and	
2	perenn	perennial streams that are indicated on the most recent versions of the United States Geological		
3	Survey	Survey (USGS) 1:24,000 scale (7.5 minute) quadrangle topographic maps, which are herein		
4	incorpo	incorporated by reference and are available at no cost at http://www.usgs.gov/pubprod/, or other		
5	maps d	leveloped	d by the Department or a local government and approved by the Commission. Where	
6	USGS	USGS topographic maps do not distinguish between perennial and intermittent streams, an on-site		
7	stream	stream determination may be performed by an individual qualified to perform such stream		
8	determ	leterminations. A qualified individual is one who has been certified to perform stream		
9	determ	determinations by completing and passing the Surface Water Identification Training and		
10	Certifi	Certification (SWITC) Course offered by the North Carolina Division of Water Resources and North		
11	Carolin	Carolina State University. Vegetated setbacks shall also be in accordance with the following:		
12	(a)	MINI	MUM <u>VEGETATION</u> WIDTHS. The following minimum widths shall apply:	
13		(i)	low density projects – 30 feet;	
14		(ii)	high density projects – 100 feet;	
15		(iii)	projects covered under the 10/70 option – 100 feet; and	
16		(iv)	agricultural activities - 10 feet, or equivalent control as determined by the	
17			designated agency as set forth in Rule .0622 of this Section; and	
18	(b)	The w	ridth of a vegetated setback shall be measured horizontally from the normal pool	
19		elevati	ion of impounded structures, from the top of bank of each side of streams or rivers,	
20		and fro	om the mean high waterline of tidal waters, perpendicular to the shoreline;	
21	(c)	Vegeta	ated setbacks may be cleared or graded, but shall be replanted and maintained in	
22		grass o	or other vegetation;	
23	(d)	No ne	w built-upon area shall be allowed in the vegetated setback except for the following	
24		uses w	here it is not practical to locate the built-upon area elsewhere:	
25		(i)	publicly-funded linear projects such as roads, greenways, and sidewalks;	
26		(ii)	water dependent structures such as docks; and	
27		(iii)	minimal footprint uses such as poles, signs, utility appurtenances, and security	
28			lights.	
29			Built-upon area associated with these uses shall be minimized and the	
30			channelization of stormwater runoff shall be avoided; and	
31	(e)	Artific	cial streambank and shoreline stabilization shall not be subject to the requirements of	
32		this Ite	em.	
33	<u>(f)</u>	For m	inor variances to a vegetated setback requirement, the percent variation shall be	
34		calcula	ated using the footprint of built upon area proposed to encroach within the vegetated	
35		setbac	k divided by the total area of vegetated setback within the project.	
36	<u>(g)</u>	Non-fa	amily subdivisions that are exempt from local subdivision ordinances shall	
37		impler	ment the requirements of this item to the maximum extent practicable considering	

1	site-specific factors including technical and cost consideration as well as protection o
2	water quality.
3	
4	(13)(12) VARIANCES. Variances to this Rule may be considered in accordance with Rule .0623 of this
5	Section.
6	
7	History Note: Authority G.S. 143-214.1; 143-214.5; 143-215.3(a)(1);
8	Eff. March 1, 2019 (The provisions of this Rule were previously codified in 15A NCAC 02B .010-
9	and 02B .0212 through .0218.)
10	