

NORTH CAROLINA GENERAL ASSEMBLY AMENDMENT Senate Bill 802

AMENDMENT NO. A1

(to be filled in by
Principal Clerk)

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Representative Arp

moves to amend the bill on page 9, lines 18 and 19, by inserting between those lines:

"MODERNIZE WASTEWATER PERMITTING TO SUPPORT ENVIRONMENTALLY SOUND ECONOMIC DEVELOPMENT

SECTION 5.1.(a) The General Assembly finds all of the following:

- (1) Residents of the State should be assured enjoyment of, and access to, proven and reasonable methods of treating and disposing of wastewater that embrace new technologies.
- (2) As the State continues to grow and attract businesses, it is critical that wastewater treatment and disposal facilities are provided for those businesses; and adequate and affordable housing that is proximate to those businesses must be available to assure the success of those businesses.
- (3) Residents of the State should be assured treatment in an equitable manner to their counterparts within other states comprising the United States Environmental Protection Agency's (USEPA) Region 4 where permits are authorized and issued for the discharge of treated wastewater from municipalities, businesses, and developments to, for example, receiving waters "in which natural flow is intermittent, or under certain circumstances non-existent" (Alabama Admin. Code r. 335-6-10-.09).
- (4) The discharge of treated wastewater to low flow or zero flow receiving waters is of low risk to the environment, protects and improves water quality, and provides the most prudent use of ratepayer funds.
- (5) For all these reasons, it is necessary to establish methodologies and rules for the discharge of treated domestic wastewaters with low risk following site specific criteria to surface waters of the State, including wetlands, perennial streams, and unnamed tributaries of named and classified streams and intermittent streams or drainage courses where the 7Q10 flow or 30Q2 flow of the receiving waters is estimated to be low flow or zero flow, as determined by the United States Geological Survey (USGS).



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Criteria for permitting. –

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1	* /	s act preserves and maintains the authority of the Department of				
2		rironmental Quality (Department) for appropriate review, including				
3		ortunities for public comment, and requires the Department and the				
4		rironmental Management Commission (Commission) to seek necessary				
5		rovals from USEPA to adopt temporary and permanent rules to authorize				
6		charges of wastewater to such receiving waters.				
7		5.1.(b) G.S. 143-215.1(c8) is repealed.				
8		5.1.(c) Section 12.9 of S.L. 2023-134 is repealed.				
9		5.1.(d) No later than August 1, 2024, the Department of Environmental				
10		and the Environmental Management Commission (Commission) shall				
11	-	the United States Environmental Protection Agency for USEPA's approval				
12		sh methodologies and permitting requirements for the discharge of treated				
13		with low risk following site-specific criteria to surface waters of the State,				
14		rennial streams, and unnamed tributaries of named and classified streams				
15		ns or drainage courses where the 7Q10 flow or 30Q2 flow of the receiving				
16	water is estimated to be low flow or zero flow, or under certain conditions non-existent, as					
17	determined by the United States Geological Survey (USGS). Within 20 days of the date USEPA					
18 19	approves the draft rules submitted pursuant to this subsection, the Commission shall initiate the process for temporary and permanent rules pursuant to Chapter 150B of the General Statutes.					
20		ted to USEPA for approval shall include all of the following:				
21		ined terms. –				
22	(1) Dei	"Treated domestic wastewater" shall mean sewage and wastewater				
23	a.	comprised of waste and wastewater from household, commercial or				
24		light industrial operations (e.g., homes, restaurants, car washes,				
25		laundromats servicing only domestic laundry) excluding any industrial				
26		process wastewater regulated by USEPA under the Categorical				
27		Pretreatment Standards.				
28	b.	"Low-risk discharges" means discharges of 2 million gallons per day				
29	0.	or less of treated domestic wastewater when the dissolved oxygen				
30		content (DO) of the effluent is significantly higher (1.5 mg/l or greater)				
31		than the DO of the receiving water during low flow periods and the				
32		biological oxygen demand content (BOD) of the effluent is				
33		significantly lower (1.5 mg/l or more) than the DO of the effluent.				
34	c.	"Sag" means a reduction in the existing DO in the background surface				
35		receiving water to which treated wastewater will be discharged. Sag is				
36		typically related to nutrient elements within treated wastewater, which				
37		may promote the growth of oxygen-consuming micro-organisms,				
38		increasing the BOD, which at elevated levels may reduce DO in the				
39		background surface water body.				

Applicants shall be required to demonstrate, through an analysis

comparing the limits of the NPDES permit to the characteristics of the

receiving water, that a proposed discharge meets criteria for a low-risk

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1 2			rge as defined in this subsection. When a discharge is nined to be low-risk, the applicant shall demonstrate using			
3		simple modeling of the applicant's choosing, provided that the model				
4		chosen is utilized elsewhere in USEPA Region 4, such as the				
5			er-Phelps model used in the State of Alabama, to show that the			
6			any, in the DO of the receiving water will not exceed 0.1mg/l.			
7	b.	_	arges to low flow or zero flow receiving waters shall be subject			
8	0.		following conditions:			
9		1.	The receiving waters fall within any of the following			
10		1.	categories:			
11			I. The 7Q10 or 32Q2 flow statistics are estimated to be			
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13			zero by the USGS. II. The drainage area of the discharge point is less than 5			
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15			square miles as specified by the USGS on-line tools of			
			other methodology that meets the standard of care for			
16 17			such work. III. The 7Q10 flow is estimated to be less than 1 cubic foo			
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19		2.	per second by the USGS.			
		۷.	The proposed flow for any wastewater discharge shall be the			
20 21			lesser of the following: I. No more than one-tenth of the flow generated by the			
22			one-year, 24-hour storm event given the drainage area			
23			and calculated using the rational method. The rationa			
24			method shall be used to calculate the peak runoff for			
25 25			the one-year, 24-hour precipitation event in cubic fee			
25 26			per second. The peak runoff shall then be divided by 10			
20 27			and multiplied by 646,272 to convert the result to			
28 29			gallons per day of allowable discharge at the poin studied.			
30			II. Two million gallons per day.			
31		3.	All discharges shall be directed to buffer systems that utilize			
32		5.	· · · · · · · · · · · · · · · · · · ·			
33			low-energy methodologies to function as a buffer between the			
33 34			discharge and the receiving waters. Buffer systems shal consist of one of the following:			
35 35			I. High-rate infiltration basins that may include			
36			engineered materials to achieve high rates of			
			-			
37			infiltration, which engineered materials shall have an			
38			ASTM gradation of a fine to coarse grain sand, and			
39			angular to maintain structural integrity of the slope.			
40			II. Constructed free-surface wetlands having a hydraulic			
41			residence time of 14 days.			

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1 2 3		III. Other suitable technologies that provide a physical or hydraulic residence time buffer, or both, between the discharge and the receiving waters.
4 5 6 7 8 9	4.	Discharge to areas that are 50 feet upland of the receiving waters or wetlands at a non-erosive velocity equal to or less than 2 feet per second through an appropriately designed energy dissipater, or other applicable designs, that meet the standard of practice for professional engineers for such devices.
10	5.	Utilize more than one outfall to the receiving stream so that no
11		one outfall exceeds 1 cubic foot per second based on the
12		average daily flow of the discharge. Discharges from buffer
13		systems shall be allowed to be placed at increments along a
14		stream or receiving waters at no less than 50 linear feet.
15	6.	No discharge shall be permitted to classified shellfish waters
16		(SA), tidal waters (SC), water supply waters (WS), or
17		outstanding resource waters (ORW). Discharges to unnamed
18		tributaries of classified shellfish waters, however, shall be
19		authorized in compliance with requirements of this section and
20		only when a low-risk situation is present. Discharges to
21		nutrient sensitive waters (NSW) may require additional
22		modeling and allocation of flow and will be at the discretion of
23		the Department.
24	7.	The following effluent limits shall generally apply except
25		where (i) the applicant and Department agree to more stringent
26		limits or (ii) complex modeling conducted pursuant to
27		sub-sub-subdivision 8. of this sub-subdivision demonstrates
28		that Sag in the DO content of the receiving water of 0.1 mg/l
29		or less will occur and water quality standards are protected:
30		I. Biological oxygen demand (BOD ₅) shall not exceed 5.0
31		mg/l monthly average.
32		II. NH ₃ , 0.5 mg/l monthly average, 1.0 mg/l daily
33		maximum.
34		III. Total nitrogen shall not exceed 4.0 mg/l monthly
35		average.
36		IV. Total phosphorus, 1.0 mg/l monthly average, 2.0 mg/l
37		daily maximum.
38		V. Fecal coliforms, 14 colonies/100ml or less.
39		VI Dissolved oxygen, 7.0 mg/l or greater.
40		VII. Total suspended solids, 5.0 mg/l monthly average,
41		8mg/l daily maximum.
42		VIII. Nitrate, 1.0 mg/l monthly average, 2.0 mg/l daily
43		maximum.

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150B of the General Statutes.

- 8. If an applicant proposes less stringent effluent limits than those set forth in sub-sub-subdivision 7. of this sub-subdivision, the applicant shall conduct more complex modeling using any model accepted elsewhere in USEPA Region 4 that the applicant elects to use to confirm that a Sag in the DO content of the receiving water of 0.1 mg/l or less will occur and water quality standards are protected.
- 9. The Department shall not require an applicant to obtain mapping data from the USGS as part of an application. In lieu, an engineer of record licensed in the State of North Carolina may prepare required mapping utilizing either USGS maps or other maps approved by the Department.
- Within 30 days of the filing of an application for a wastewater 10. discharge subject to this section, the Department shall (i) determine whether or not the application is complete and notify the applicant accordingly and (ii) if the Department determines an application is incomplete, specify all such deficiencies in the notice to the applicant. The applicant may file an amended application or supplemental information to cure the deficiencies identified by the Department for the Department's review. If the Department fails to issue a notice as to whether or not the application is complete within the requisite 30-day period, the application shall be deemed complete. Within 180 days of the filing of a completed application, the Commission shall either grant or deny the permit. If the Commission fails to act in the requisite time frame, ten percent (10%) of the application fee shall be returned to the applicant for each working day beyond the 180-day period.

SECTION 5.1.(e) No later than September 1, 2024, the Department in conjunction with the North Carolina Collaboratory at the University of North Carolina at Chapel Hill (Collaboratory) shall convene a Wastewater General Permit Working Group (Working Group) consisting of Department and Collaboratory staff and a maximum of five consulting experts appointed by the Director of the Collaboratory in the fields of environmental regulation, wastewater regulation, water quality regulation, and wastewater treatment regulation, to develop the draft rules for the implementation of a Wastewater Treatment and Discharge General Permit process for the State. The Working Group shall report its findings to the Environmental Review Commission no later than March 15, 2025. Following consideration by the Environmental Review Commission, and after making any changes required by the Environmental Review Commission, the Department shall develop and submit proposed rules to USEPA for its approval. Within 20 days of the date USEPA approves the draft rules submitted pursuant to this subsection, the Commission shall initiate the process for temporary and permanent rules pursuant to Chapter

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\$	SECTION 5.1.(f) Beginning September 1, 2024, and of	quarterly thereafter until such					
	rmanent rules as required by subsections (d) and (e) e Department and the Environmental Management Cor						
	implement subsections (d) and (e) of this section to	-					
	n, the Joint Legislative Oversight Committee on A						
	Resources, the Senate Appropriations Committee of	~					
Economic Resources, and the House of Representatives Appropriations Committee on Agriculture and Natural and Economic Resources of the General Assembly. SECTION 5.1.(g) This section is effective when it becomes law."							
SIGNED _		_					
	Amendment Sponsor						
SIGNED _		_					
	Committee Chair if Senate Committee Amendment						
ADOPTED	FAILED	TABLED					

The official copy of this document, with signatures and vote information, is available in the House Principal Clerk's Office