GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2023

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H.B. 571
Apr 4, 2023
HOUSE PRINCIPAL CLERK

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HOUSE BILL DRH10261-RI-15

	Short Title:	Discharge	of Highly Treated Wastewater.	(Public)			
	Sponsors: Representative Arp.						
	Referred to:						
1			A BILL TO BE ENTITLED				
2	AN ACT	γο αμτή	ORIZE DISCHARGES FROM WASTEWAT	FR TRFATMENT			
3			MEET SPECIFIED EFFLUENT LIMITATION				
4	SURFACE WATERS.						
5	The General Assembly of North Carolina enacts:						
6			(a) G.S. 143-215.1 is amended by adding a new su	bsection to read:			
7			charges of Highly Treated Domestic Wastewater				
8	(1		et only to the limitations set forth in subdivision (2				
9			epartment shall authorize permitted discharges				
10			tic wastewater to surface waters of the State,				
11		perenr	ial streams, and unnamed tributaries of named an	d classified streams			
12		where	the 7Q10 flow or 30Q2 flow of the receiving water	body is estimated to			
13		<u>be</u> lov	flow or zero flow, as determined by the Unite	d States Geological			
14			, from wastewater treatment systems capable of m	eeting the following			
15		water	quality-based effluent limitations:				
16		<u>a.</u>	Biological oxygen demand (BOD ₅), 5mg/L.				
17		<u>b.</u>	NH ₃ , 0.5mg/L monthly average, 1.0 mg/L daily n	<u>naximum.</u>			
18		<u>c.</u> <u>d.</u>	Total nitrogen, 4mg/L monthly average.				
19		<u>d.</u>	Total phosphorus, 1.0mg/L monthly average	e, 2.0mg/L daily			
20			maximum.				
21		<u>e.</u>	Fecal coliforms, 14 colonies/100mL.				
22		<u>f.</u>	Dissolved oxygen, 6mg/L, or 1mg/L more	e than the BOD ₅			
23		~	concentration.				
24 25		<u>g.</u> b	Turbidity, 1 Nephelometric Turbidity Units.				
25 26		<u>h.</u> <u>i.</u>	Total suspended solids, 5mg/L monthly average. Nitrate, 1mg/L monthly average.				
20 27	<u>(2</u>		ition to the requirements set forth in subdivision (1) of this subsection			
28	<u>\</u> 2		the following requirements shall apply to wastewa				
29			ized pursuant to this subsection:	ter discharges to be			
30		<u>a.</u>	No discharge shall be permitted to classified	shellfish waters or			
31		<u>u.</u>	outstanding resource waters. Discharges to unn				
32			classified shellfish waters, however, shall be author				
33			with the requirements of this section.				
34		<u>b.</u>	The limitation of flow for any wastewater dischar	ge shall be no more			
35		<u> </u>	than one-tenth of the flow generated by the one-	-			
36			event given the drainage area and calculated using	-			



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		The rational method shall	be used to calculate the peak runoff for the
			ation event in cubic foot per second. The
		• • • •	divided by 10 and multiplied by 646,272 to
		A	s per day of allowable discharge at the point
		studied.	<u>s per du j'or uno waste diseñalge a une pont</u>
	<u>c.</u>		based on the ability of the receiving waters
	<u>e.</u>		proposed flow, as demonstrated by being
			enth of the flow using the rational method.
	<u>d.</u>		directed to buffer systems that utilize
	<u>u.</u>		es to function as a buffer between the
			g waters. Buffer systems shall:
			ne following: (i) high-rate infiltration basins
			eered materials to achieve high rates of
			engineered materials shall have an ASTM
			clean washed coarse grained sand; (ii)
			rface wetlands having a hydraulic residence
			and (iii) other suitable technologies that
		•	or hydraulic residence time buffer, or both,
		1 I I	rge and the receiving waters.
			s that are 50 feet upland of the receiving
			s at a non-erosive velocity equal to or less
			econd through an appropriately designed
		· · · · · · · · · · · · · · · · · · ·	or other applicable designs, that meet the
		•• •	ice for professional engineers for such
		devices.	
			ent outfall to the receiving stream so that no
			all exceeds 1 cubic foot per second based on
			ow of the discharge. Discharges from buffer
			llowed to be placed at increments along a
		-	waters at a distance of no less than 50 linear
		feet.	
(3)	For pu		e following definitions apply:
	<u>a.</u>	-	o calculate the minimum average flow of a
			iod of seven consecutive days that has an
		average recurrence of once	•
	<u>b.</u>		o calculate the minimum average flow of a
		-	d of 30 consecutive days that has an average
		recurrence of once in two	• •
	<u>c.</u>		wastewater. – Wastewater effluent from
			receive flows from sources of domestic
		•	effluent standards as set forth in subdivision
		(1) of this subsection.	
	<u>d.</u>	Rational method. – The 1	nethod of computing storm drainage flow
			formula $Q = CIA$. For purposes of this
		sub-subdivision, the follow	· · · ·
			coefficient describing the stormwater runoff
		characteristics of the	-
			Il intensity for the one-year, 24-hour
			t given by the National Oceanic and
			inistration through its online precipitation

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1	data server or other appropriate sources in units of inches per
2	<u>hour.</u>
3	3. <u>A. – The catchment area tributary to the point being studied as</u>
4	further defined using methodologies that meet the standard of
5	practice for such work, including, but not limited to web-based
6	data and tools provided by the United States Geological Survey
7	or by other analysis using topographic data that follows the
8	standard of practice for such work by licensed professional
9	engineers in units of acres.
10	(4) Once an applicant has submitted data to demonstrate the proposed discharge
11	will meet the requirements of subdivisions (1) and (2) of this subsection,
12	signed and sealed by a professional engineer licensed in accordance with the
13	provisions of Chapter 89C of the General Statutes, the application shall be
14	deemed complete for the purposes of review by the Department."
15	SECTION 1.(b) If rules are required in order to implement the requirements of this
16	act, the Department of Environmental Quality shall adopt temporary rules no later than 60 days
17	after this act becomes law. Any temporary rules adopted in accordance with this section shall
18	remain in effect until permanent rules that replace the temporary rules become effective. Rules
19	adopted pursuant to this section shall not, however, impose additional requirements on permitting
20	of the discharge of highly treated domestic wastewater over that established under
21	G.S. 143-215.1(c8), as enacted by subsection (a) of this section.
22	SECTION 2. This act is effective when it becomes law. G.S. 143-215.1(c8), as
23	enacted by Section 1 of this act, applies to permits for new or expanded wastewater discharge
24	facilities issued on or after that date.