GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2023

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HOUSE BILL 571 PROPOSED COMMITTEE SUBSTITUTE H571-PCS10400-BR-9

Short Title:	Discharg	e of Highly Treated Wastewater.	(Public)
Sponsors:			
Referred to:			
		April 6, 2023	
		A BILL TO BE ENTITLED	
AN ACT	TO AUT	HORIZE DISCHARGES FROM WASTEW	ATER TREATMENT
SYSTE	MS THAT	MEET SPECIFIED EFFLUENT LIMITAT	TIONS TO CERTAIN
SURFA	CE WATE	RS.	
The Genera	l Assembly	of North Carolina enacts:	
S	SECTION 1	I.(a) G.S. 143-215.1 is amended by adding a new	w subsection to read:
" <u>(c8)</u> <u>I</u>		scharges of Highly Treated Domestic Wastewate	
<u>(</u>	<u>(1)</u> <u>Subj</u>	ect only to the limitations set forth in subdivisio	n (2) of this subsection,
		Department shall authorize permitted dischar	
		estic wastewater to surface waters of the Sta	
	-	inial streams, and unnamed tributaries of named	
		e the 7Q10 flow or 30Q2 flow of the receiving w	
		w flow or zero flow, as determined by the U	
		ey, from wastewater treatment systems capable of	of meeting the following
		r quality-based effluent limitations:	
	<u>a.</u>	Biological oxygen demand (BOD ₅), 5mg/L.	ı ·
	<u>b.</u>	<u>NH₃, 0.5mg/L monthly average, 1.0 mg/L dai</u>	<u>iy maximum.</u>
	<u>c.</u> <u>d.</u>	<u>Total nitrogen, 4mg/L monthly average.</u> Total phosphorus, 1.0mg/L monthly ave	araga 20mg/L daily
	<u>u.</u>	maximum.	erage, 2.011g/L daily
	ρ	Fecal coliforms, 14 colonies/100mL.	
	<u>e.</u> <u>f.</u>	Dissolved oxygen, 6mg/L, or 1mg/L n	nore than the BODs
	<u>1.</u>	concentration.	<u>nore than the DOD</u>
	<u>g.</u>	Turbidity, 1 Nephelometric Turbidity Units.	
	<u>h.</u>	Total suspended solids, 5mg/L monthly avera	ge.
	<u>i.</u>	Nitrate, 1mg/L monthly average.	
(<u>(2)</u> <u>In ad</u>	dition to the requirements set forth in subdivisio	n (1) of this subsection,
		the following requirements shall apply to wast	ewater discharges to be
	autho	prized pursuant to this subsection:	
	<u>a.</u>	No discharge shall be permitted to classif	ied shellfish waters or
		outstanding resource waters. Discharges to	
		classified shellfish waters, however, shall be a	uthorized in compliance
	_	with the requirements of this section.	
	<u>b.</u>	The limitation of flow for any wastewater dis	
		than one-tenth of the flow generated by the o	•
		event given the drainage area and calculated us	sing the rational method.



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		The rational method shall be used to cal	•
		one-year 24-hour precipitation event in	-
		peak runoff shall then be divided by 10	1 1
		convert the result to gallons per day of al	llowable discharge at the point
		studied.	
	<u>c.</u>	Discharges shall be limited based on the	• •
		to hydraulicly accept the proposed flo	
	A	equal to or less than one-tenth of the flo	
	<u>d.</u>	All discharges shall be directed to	
		<u>low-energy methodologies to functio</u> <u>discharge and the receiving waters. Buff</u>	
		<u>1.</u> <u>Consist of one of the following:</u> that utilize engineered materia	
		infiltration, which engineered materia	-
		gradation of a clean washed	
		constructed free surface wetland	
		time of 14 days; and (iii) oth	
		provide a physical or hydraulic r	
		between the discharge and the re	
		2. Discharge to areas that are 50	
		waters or wetlands at a non-ero	
		than 2 feet per second through	• •
		energy dissipater, or other appl	
		standard of practice for prof	-
		devices.	<u> </u>
		<u>3.</u> <u>Divide the subsequent outfall to t</u>	the receiving stream so that no
		one particular outfall exceeds 1 c	-
		the average daily flow of the disc	harge. Discharges from buffer
		systems shall be allowed to be	placed at increments along a
		stream or receiving waters at a di	stance of no less than 50 linear
		<u>feet.</u>	
<u>(3)</u>	<u>For p</u>	purposes of this subsection, the following d	
	<u>a.</u>	<u>7Q10 flow. – A method to calculate the</u>	e minimum average flow of a
		receiving water for a period of seven	consecutive days that has an
		average recurrence of once in 10 years.	
	<u>b.</u>	<u>$30Q2$ flow. – A method to calculate the</u>	-
		receiving water for a period of 30 consec	cutive days that has an average
		recurrence of once in two years.	
	<u>c.</u>	Highly treated domestic wastewater.	
		treatment systems that receive flows	
		wastewater that meet the effluent limitat	ions as set forth in subdivision
		(1) of this subsection.	
	<u>d.</u>	Rational method. – The method of con	
		rates (Q) by use of the formula Q =	
		sub-subdivision, the following definition	
		<u>1.</u> <u>C. – The rational coefficient des</u>	cribing the stormwater runoff
		<u>characteristics of the drainage.</u>	
		<u>2.</u> <u>I. – The rainfall intensity</u>	•
		precipitation event given by	•
		Atmospheric Administration the	rougn its online precipitation

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