

February 9, 2016

PCS Code	Parameter – PCS Code	Units	Frequency ¹		Sample Type ²	
00310	BOD, 5-Day (20 °C)	mg/L	See Table 2		Composite ³	
00940	Chloride (as Cl) ⁴	mg/L	Same as GW monitoring		Composite ³	
50060	Chlorine, Total Residual ⁵	mg/L	Major ⁶	5 x Week ⁸	Grab ¹⁰	
			Minor ⁷	Weekly ⁹		
31616	Coliform, Fecal MF, M-FC Broth, 44.5 °C	#/100 mL	See Table 2		Grab ¹⁰	
50050	Flow, in Conduit or thru Treatment Plant ¹¹	GPD	Major ⁶	Continuous	Major ⁶	Recorder
			Minor ⁷	Monthly	Minor ⁷	Estimate
00610	Nitrogen, Ammonia Total (as N)	mg/L	See Table 2		Composite ³	
00620	Nitrogen, Nitrate Total (as N)	mg/L	See Table 2		Composite ³	
00625	Nitrogen, Kjeldahl, Total (as N)	mg/L	See Table 2		Composite ³	
00600	Nitrogen, Total (as N)	mg/L	See Table 2		Composite ³	
00400	pH	s.u.	Major ⁶	5 x Week ⁸	Grab ¹⁰	
			Minor ⁷	Weekly ⁹		
00665	Phosphorus, Total (as P)	mg/L	See Table 2		Composite ³	
70300	Solids, Total Dissolved – 180 °C ⁴	mg/L	Same as GW monitoring		Composite ³	
00530	Solids, Total Suspended	mg/L	See Table 2		Composite ³	
00076	Turbidity, HCH Turbidimeter ¹²	NTU	Continuous		Recorder	

- Permits not matching recommended sampling frequencies shall include documentation in the Cover Letter and Attachment A footnotes supporting this variation.
- For Active Treatment Systems (e.g., extended aeration, anoxic, MBR, etc.), if $Q < 30,000$ GPD, sample type can be grab ([15A NCAC 02B .0505](#)). For Passive Treatment Systems (e.g., facultative lagoons, septic tanks, etc.), sample type shall be grab.
- See [15A NCAC 02B .0503\(4\)](#).
- Applicable only for facilities with groundwater monitoring wells.
- Applicable only if chlorine is used as a disinfectant.
- $Q \geq 10,000$ GPD.
- $Q < 10,000$ GPD.
- Lagoon type systems with weekly ORC visits can have a weekly sampling frequency for pH and/or Total Residual Chlorine.
- Total Residual Chlorine / pH can be “Per Event” if Permittee documents that the facility infiltrates/irrigates at a rate less than once per week.
- See [15A NCAC 02B .0503\(14\)](#).
- Flow thru treatment plant should be monitored at a representative location (i.e., flow monitoring is not acceptable following treatment systems with substantial equalization such as lagoons).
- Applicable only for Reclaimed Water facilities, and facilities complying with the [High-Rate Infiltration Policy](#).

Table 2 – Recommended Sampling Frequencies

Flow (GPD)	Active Treatment Systems (e.g., extended aeration, anoxic, MBR, etc.)						Passive Treatment Systems (e.g., facultative lagoons, septic tanks, etc.)
	Mainland Systems Year-round		Coastal Barrier Island Systems September 1 st to April 30 th		Coastal Barrier Island Systems May 1 st to August 31 st		
	With BNR ¹	Without BNR	With BNR ¹	Without BNR	With BNR ¹	Without BNR	
≤ 1000	3 x Year	3 x Year	3 x Year	3 x Year	3 x Year	3 x Year	Annual
> 1,000 to 10,000	Monthly	4 x Year	Monthly	4 x Year	Weekly	Monthly	3 x Year
> 10,000 to 100,000	2 x Month	Monthly	2 x Month	Monthly	Weekly	Weekly	4 x Year
> 100,000 to 500,000	2 x Week	2 x Month	2 x Week	2 x Month	2 x Week	Weekly	Monthly
> 500,000	3 x Week	2 x Week	3 x Week	2 x Week	3 x Week	2 x Week	2 x Month

1. Applies when Total Nitrogen (TN) and/or Total Phosphorus (TP) limits are met by a Biological Nutrient Removal (BNR) process.

Table 3: Minimum Operator of Responsible Charge (ORC) Visitation Requirements for Classified Facilities ([15A NCAC 08G .0204](#))

Treatment Type	Flow Criteria	Classification	Minimum ORC Visitation Schedule
Surface Irrigation Systems with the exception of (a) and (b)	N/A	Surface Irrigation System	Weekly ¹
Domestic systems with septic tank/sand filters; biological lagoons; or constructed wetlands	≤ 1,500 GPD	Surface Irrigation System	2 x Year ²
Domestic systems with ATUs (aerobic treatment units)	≤ 1,500 GPD	Surface Irrigation System	2 x Year ²
Activated sludge or fixed growth	1,500 GPD to 0.5 MGD	Grade II Biological	5 x Week
Activated sludge or fixed growth + BNR required by permit ³	1,500 GPD to 0.5 MGD	Grade III Biological	5 x Week
Activated sludge or fixed growth	0.5 to 2.5 MGD	Grade III Biological	5 x Week
Activated sludge or fixed growth + BNR required by permit ³	0.5 to 2.5 MGD	Grade IV Biological	5 x Week
Activated sludge or fixed growth	> 2.5 MGD	Grade IV Biological	5 x Week
Physical process (DAF, screening, filtration)	N/A	Grade I Phys/Chem	Weekly
Chemical process, RO, electrodialysis, and ultrafiltration	N/A	Grade II Phys/Chem	5 x Week

1. In the event of dual classification as a Surface Irrigation System *and* a Biological Treatment System, the visitation schedule for the surface irrigation system applies only to the irrigation portion of the system. The biological wastewater treatment facility visitation is set by a separate classification.
2. There must be a six month interval between visits.
3. Applies when Total Nitrogen (TN) and/or Total Phosphorus (TP) limits are met by a Biological Nutrient Removal (BNR) process.