NORTH CAROLINA WATER TREATMENT FACILITY OPERATORS CERTIFICATION BOARD

Rating Values for Classification & Reclassification of Water Treatment Systems (15A NCAC 18D .0203 - .0205)

SYSTEM NAME	:	PWSID: DATE:				
PWSS Region:	Type (CWS, NTNC, TNC):	New or Changed Class (N-C-NO):				
System Treatment Classification (A, B, C, D): Source (Surface or Well):						
Class C (1-50 points), Class B (51-110 points), Class A (over 110 points) Purchase Y/N If yes, Supplemental Treatment Y/N Class D-Well for non-community systems with hypochlorite solution as the only treatment applied to the water.						
Distribution System Classification (A,B,C,D): (Greater of treatment vs. service connection/fire protection class)						
Service Connections: Fire Protection (Y/N):						
Class D (100 or fewer service connections, no fire protection), Class C (101 to 1,000 service connections, no fire protection) Class B (1,001 to 3,300 connections or fewer than 1,001 connections with fire protection), Class A (more than 3,300 connections)						
Cross-Connection-Control Classification Required (Y/N):						
(Five or more testable backflow prevention assemblies required within the distribution system)						
PARA	METER	RATING VALUE	POINTS			
(1) Surface Water	er Source					
(A)	flowing stream					
(B) (C)	flowing stream with impoundmentsraw water treatment (CuSO4, etc.)					
(2) Ground Wate		J				
(A)	first five wells					
(B)	add 1point per 5 wells or fraction thereof over	er 51				
(3) Coagulation	aluminum sulfate, ferric chloride, etc	10				
(A) (B)	polymer					
(4) Mixing	. ,					
(A)	baffle					
(B) (C)	mechanicalair					
(5) Oxidation (pre		J				
(A)	CIO ₂	5				
(B)	ozone					
(C)	KMnO ₄					
(D)	Cl ₂					
(6) Carbon Treatment						
(7) Aeration (A)	mechanical draft	3				
(B)	coke tray/splash tray	2				
(C)	diffused					
(D) (8) pH Adjustmer	packed tower (VOC reduction)	10				
(A)	caustic NaOH	10				
(B)	lime/ soda ash					
(C)	acid (H ₂ SO ₄ , HCl, etc.)	10				
(9) Sedimentatio	n standard rate	Б				
(A) (B)	tube settlers					
(C)	upflow	8				
(D)	pulsators and plates, etc	5				
(10) Contact Tan (11) Filtration	k	1				
(A)	pressure					
, ,	(i) sand/ anthracite					
	(ii) synthetic media (birm)					
(B)	(iii) granular activated carbon (GAC)- gravity	9				
(=)	(i) sand					
	(ii) anthracite (mixed)/ GAC)					
(0)	(iii) with surface wash or air scour					
(C) membrane (microfiltration, ultrafiltration)						
(A)	softener, Na cycle	5				
(B)	softener, H cycle					
(C) (D)	Fe and Mn (greensand) mixed bed or split stream					
(0)	THIS OF SOM OF SMILL SUBGUILE	3				

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SYS	TEM NAME	: <u> </u>	PWSID:	DATE:
	PARA	METER	RATING VALUE	POINTS
(12)			KATING VALUE	<u>rontio</u>
(13)	Lime Softe		40	
	(A)	spiractors		
	(B)	clarifier with coagulation		
(4.4)	(C)	fuel burner (recarbonation)		
(14)		(sequestering agent)	5	
(15)	Stabilization		40	
	(A)	acid feed		
	(B)	phosphate		
	(C)	caustic (NaOH)		
	(D)	lime/ soda ash		
	(E)	contact units (calcifier, etc.)		
(16)		esmosis (nanofiltration), Electrodialysis	15	
(17)	Disinfectio			
	(A)	gas Cl ₂	10	
	(B)	hypochlorite solution		
	(C)	CIO ₂ (chlorine dioxide)	13	
	(D)	ozone	13	
	(E)	ammonia and Cl ₂	12	
	(F)	ultraviolet light (uv)		
(18)	٠,		ŭ	-
(10)		'' saturator	0	
	(A)			
	(B)	dry feed		
	(C)	solution (acid)	10	
(19)	Pumping			
	(A)	raw		
	(B)	intermediate	1	
	(C)	finished	3	.
	(D)	system booster	2	
(20)	Storage	•		
(- /	(A)	raw	1	
	(B)	treated ground level tank		-
	(C)	elevated in system (each extra tank 1 p		
	(D)	hydropneumatic		
(21)	` '	•	<u>Z</u>	
(21)	Population		F0 may	
(22)	•	t per 1,000 persons served	50 IIIax.	
(22)	Plant Capa		0.5	
(0.0)		t per 1 MGD capacity	25 max.	
(23)		uality Control		
	(A)	bacteriological		
		(i) MPN/MF		
		(ii) HPC	-	
		(iii) MMO-MUG (Colilert)	2	.
	(B)	pH		
	` '	(i) meter	2	
		(ii) test kit		
	(C)	flouride	·	-
	(0)		3	
	(D)		· 3	-
	(D)	chlorine		
		(i) titrator		
		(ii) colorimeter/ spec		
		(iii) test kit		
	(E)	iron		
	(F)	hardness		
	(Ġ)	alkalinity		
	(H)	turbidity		
	(l)	manganese		
	(Ĵ)	others (1 pt. Each)		
	(K)	A.A. Spec, or G.C. Unit		<u></u>
	•	Signature:	Tot	tal Points
		(Printed Name:	, _RO/PWSS)	