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Project No. WCP_



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SYSTEM ENGINEERING TECHNICAL REVIEW FORM

PRETREATMENT (N.J.A.C. 7:10-11.13)

Water Purveyor	PWSID#	Municipality			
Type of Process:	Rapid Mixing, Flocculation, and Sed Solids-Contact Units	limentation			
Type(s) of Treatment:	☐ Flocculation ☐ Settling ☐ Other:	☐ Softening ☐ Iron and Manganese Removal			
			YES	NO	N/A
General					
1. With a single unit out of service, are the minimum required detention times maintained? (N.J.A.C. 7:10-11.13(a)1)					
2. With a single unit out of service, are the surface loading rates maintained? (N.J.A.C. 7:10-11.13(a)1)					
3. For surface water treatment plants, are a minimum of two pretreatment units provided? (N.J.A.C. 7:10-11.13(a)1)					
4. Has a Technical Review Form for Chemical Handling and Feeding been prepared for chemical feeds?					
5. Is each pretreatment basin equipped with a drain or drains to permit dewatering? (N.J.A.C. 7:10-11.13(a)3)					
6. Are adequate means provided for the removal of sludge and is sludge disposed of in accordance with applicable State and Federal Laws and Regulations? (N.J.A.C. 7:10-11.13(a)5)					
1 0	on provided to ensure rapid and uniform dut the water? (N.J.A.C. 7:10-11.13(b))	lispersion of each			
Flocculation					
1. Is flocculation prov	vided for surface water treatment plants? ((N.J.A.C. 7:10-11.13(c)1)			

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					YES	NO	N/A
2.	Is the flow through velocation 1.5 feet per minute with less than 30 minutes? (N	a minimum detention	time for floc	_			
3.	Is flocculation accompliagitators driven by variation paddles ranging from 0.	ble speed drives with	the periphera	l speed of the			
4.	Are the flocculation uni (N.J.A.C. 7:10-11.13(c)	occulation units designed to prevent short-circuiting? 7:10-11.13(c)4)					
5.	Is the velocity of flocculated water through pipes or conduits to settling basins no less than 0.5 feet per second nor greater than 1.5 feet per second? (N.J.A.C. 7:10-11.13(c)4)						
S	edimentation						
1.	1. Is sedimentation provided for surface water treatment plants? (N.J.A.C. 7:10-11.13(d)1)						
2.	2. Is the depth of the sedimentation basin at least 10 feet with ample allowance for sludge accumulation or sludge removal equipment and a depth of water flow of at least 6 feet? (N.J.A.C. 7:10-11.13(d)2)						
3.	. Are the sedimentation basins designed to prevent short-circuiting? (N.J.A.C. 7:10-11.13(d)3)						
4.	4. Are submerged inlet ports located so as to avoid creating a disturbance of the settled floc? (N.J.A.C. 7:10-11.13(d)3)						
5.	Are the sedimentation b surface loading rate (in			the maximum : (N.J.A.C. 7:10-11.13(d)4) 🗌		
		culation or Ianganese Removal	Lime Softening				
	Ground Water Surface Water (0.5).375	1.0 0.75				
6.	For around-end baffling exceed one-half the max (N.J.A.C. 7:10-11.13(d):	simum surface loading	_				
7.	For horizontal units, is t surface water treatment					П	

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					YES	NO	N/A
	tal units, is the minimum eatment plants? (N.J.A.C.			hours for lime			
9. Are the settling basins designed so that the water velocity through the basins does not exceed 0.5 feet per second? N.J.A.C. 7:10-11.13(d)7)							
	ling basins designed so the per foot of length of settle				ons		
Solids-Contact	t Units						
	ds-contact units designed ons per minute) as given				ing		
	Flocculation or Iron or Manganese Rea	moval	Lime Softening				
Ground Water Surface Water	1.0 0.75		2.0 1.5				
water sample	ls-contact unit equipped ves from various locations 0-11.13(e)5)	-	-				
3. Are the solids-contact units designed so that the outlet weir flow does not exceed 20 gallons per minute per foot of length of softened water or 10 gallons per minute per foot of length of flocculated water? N.J.A.C. 7:10-11.13(e)6)							
4. Is each solids-contact unit equipped for effective concentration of sludge and to facilitate sludge draw-off and disposal? N.J.A.C. 7:10-11.13(e)7)							
0 1 1	ping a minimum diameter d cleaning? N.J.A.C. 7:10			d so as to facilitate			

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			YES	NO	N/A
6. Are sludge valves located outside t	he solids contact unit? I	N.J.A.C. 7:10-11.13(e)9)			
7. Are solids-contact units designed to automatic intermittent withdrawal of		• •			
*Submit appropriate engineering provious of the state of the submit appropriate engineering provious for approval.	-	•			ered
Signature of Engineer Professional Engineer's Embossed	Date Seal	N.J.P.E. #	ional	\	
Type or Print Name of Engineerin	g Firm	Engina Embos Sea	eer's ssedl		