BWSE-PA14 (09/13)

) Page 1 of 3 Project No. WCP\_\_\_\_\_ NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SYSTEM ENGINEERING TECHNICAL REVIEW FORM

FILTRATION (N.J.A.C. 7:10-11.14)

Water Purveyor

PWSID#

Municipality

Type of Media:	Filter Loading Rate:	
Effective Size of Media:	Filter Media Thickness:	
Uniformity Coefficient:	Maximum Head Loss Through Media:	
Surface Contact Area: Individual	Combined	
	YES NO N	/A

1. Are gravity or membrane	ilters provided for surface water treatment plants?
(N.J.A.C. 7:10-11.8(d)3)	

2.	For surface water, are online continuous turbidity monitoring devices provided
	which will analyze and record the effluent turbidity at certain intervals?
	(N.J.A.C. 7:10-11.14(a)3)

4. No common walls between treated and untreated water? (N.J.A.C. 7:10-11.14(	c)1)
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- 5. No cross connections between treated and untreated water? (N.J.A.C. 7:10-11.14(c)1)
- 6. Are pressure filters designed so that the loading rate does not exceed 3 gallons per minute per square foot with one filter out of service? (N.J.A.C. 7:10-11.14(c)2)
- 7. Are gravity filters designed so that the loading rate does not exceed 5 gallons per minute per square foot with one filter out of service? (N.J.A.C. 7:10-11.14(c)4)

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	YES	NO	N/A
8. Is the effective size no greater than 0.55 mm for rounded particles? (N.J.A.C. 7:10-11.14(c)5i)			
9. Is the effective size no greater than 0.45 mm for angular particles? (N.J.A.C. 7:10-11.14(c)5ii)			
10. Is the uniformity coefficient no greater than 1.6?(N.J.A.C. 7:10-11.14(c)5iii)			
11. Is the thickness of the filter media at least 24 inches? (N.J.A.C. 7:10-11.14(c)5iv)			
12. Is the maximum head loss through the filters no greater than 8 feet of water? (N.J.A.C. 7:10-11.14(c)5v)			
13. Are regulating valves provided to control the filtration rates? (N.J.A.C. 7:10-11.14(c)6)			
14. For dual media filters, is the sand bed a minimum of 12 inches thick? (N.J.A.C. 7:10-11.14(c)7)			
15. Is at least 12 inches of graded gravel placed over the underdrains? (N.J.A.C. 7:10-11.14(c)8)			
16. Is each filter provided with equipment to facilitate cleaning and placing or replacement of the filter media? (N.J.A.C. 7:10-11.14(d)			
17. Is filtered water used for backwashing? (N.J.A.C. 7:10-11.14(e)1)			
<ul><li>18. Is the backwash rate at least 15 gallons per minute per square foot? (N.J.A.C. 7:10-11.14(e)2)</li></ul>			
19. Does the backwash process allow for a minimum of 30% expansion of the filter media? (N.J.A.C. 7:10-11.14(e)2)			
20. Are reduced pressure zone backflow preventers provided to prevent back siphonage of the filter surface wash water? (N.J.A.C. 7:10-11.14(e)3)			
21. Is backwash waters discharged in accordance with NJPDES requirements? (N.J.A.C. 7:10-11.14(e)4) NJPDES Permit Number:			

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	YES	NO	N/A
22. Are there any direct connections between backwash water lines and sanitary or storm sewer lines? (N.J.A.C. 7:10-11.14(e)4)			
23. Are discharges made through an above ground air gap? (N.J.A.C. 7:10-11.14(e)4)			

\*Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers\*

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.

 Signature of Engineer
 Date
 N.J.P.E. #

 Professional Engineer's Embossed Seal
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 Type or Print Name of Engineering Firm
 Engineer's

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