Engineer's Report for Water Main Extensions

Date:

Project Name:

Water System Name: West Carteret Water Corporation

Water System ID: NC 0416040

County of Project: Carteret

Prepared by:

I attest that this engineer's report has been prepared by me, or under my responsible charge, and is accurate, complete and consistent with the information supplied in the engineering calculations. I further attest that the proposed design has been prepared in accordance with 15A NCAC 18C. Although page 4 of this report incorporates data provided by others, inclusion of these materials under my seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

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Water Main Extension Engineer's Report Mandatory Information

To present data required by 15A NCAC 18C .0307(b)

Specific citations from 15A NCAC 18C are provided when data is required to confirm compliance with another regulation.

Applicant Information	
Applicant name (must be a person): Lisa Smith-Perri	

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Applicant mailing address: 4102 Highway 24	Newport, NC 28570	
Applicant phone numbers: Business 252-393	-1515	
Applicant e-mail address: lisa.smithperri@w	ewc.biz	
Description of Proposed Project		
Name of proposed project:		
Provide a summary of the diameter, length an	d material of all piping proposed in the proje	ect.
Diameter of piping	Length of piping	Material
Location of project: (use existing road and int	ersections, address if available; and identify	municipality).
The proposed project is an expansion of the e	xisting public water system. $X Yes \ \square \ N$	0
The source of water for the proposed project	will be provided by a separately owned publi	ic water system. □ Yes X No
Is the project phased?	□ Yes □ No	
If yes, delineate all phases in plan sheets. Par	tial final approvals may be granted to compl	eted phases specified in this submittal.
adequate peak demand (domestic peak deman	d) at the minimum required residual pressure	e calculations to demonstrate that the project can provide e of 30 pounds per square inch gauge (psig) or can provide are of 20 psig through <i>each</i> phase of construction.

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Check here if project is a water main replacement with no additional demands.

no added fire demand.)

(Water main replacement consists of like size, no additional service connections, and no additional hydrants and

If box checked, proceed

to page 4

Provide anticipated project flows for any project that will increase demands

Does the proposed project include any in-ground irrigation?	□ Yes □ No				
If yes, attach appropriate analysis to address how the system is designed to accommodate the impact of irrigation use on treated water supply, storage needs and system pressure.					
Peak demand of the proposed project	gpm				
Maximum daily demand of the proposed project	gpd				
Per Rule .0901, are the water mains and water system designed to carry fire protection flows for this project?	□ Yes X No				
If the water mains and water system <u>are not</u> designed to provide fire protection flow, indicate the minimum <i>calculated</i> pressure at domestic peak demand (non-fire flow). The pressure must be at least 30 psig per Rule .0901.	psig				
If the water mains and water system <u>are</u> designed to provide fire protection flow, indicate the minimum calculated pressure at peak demand (domestic plus fire flow). Pressure must be at least 20 psig per Rule .0901.	psig				
The project will add services to the West Carteret Water System. The peak demand for West Carteret Water Corporation is 270 GPD per equivalent customer. They flushing device that is provided as a part of this project will be used for flushing only and is not intended to provide fire protection.					
gpm: gallons per minute					
gpd: gallons per day					
psig: pounds per square inch gauge					

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Water System-Supplied Information

Data provided by:	Michelle S. Clements, PE	(name	Date provided:	5/22/23	
Data provided by	_Michelle 5. Clements, i L _	(manic	Date provided		

Position: Water System Engineer

7,914 connections
7,914 connections
1,231,000 average gpd 1,880,000 maximum gpd
2,550,000 maximum gpd
2,100,000 gallons
X Yes □ No

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