REQUIREMENTS FOR SUBMITTING WASTEWATER TREATMENT SYSTEM PLANS FOR REVIEW AND APPROVAL WITH APPLICATIONS FOR PERMITS

Information is to be prepared by a Licensed Soil Scientist, Professional Geologist, Professional Land Surveyor, Professional Engineer, Registered Professional, or person with a demonstrated knowledge in wastewater design required by NCGS 89C, 89E, 89F, or 90A, Article 4. Maps and reports are to bear the name, signature, and seal, as appropriate, of the licensed or registered professional.

Plans are to be submitted online on the Wake County Department of Environmental Services Permit Portal at http://www.wakegov.com/permitportal/Pages/default.aspx

Pla	ns sh	ould contain the following:
		Plan (Scale of 1"= 30', 1"= 40', 1"= 50', 1"= 60' or 1"=100'. One site plan must be provided to scale that includes
		e lot and all components, including off-site easement areas. The scale may be greater than 1"=100' if additional
		onal site plans be provided at a scale listed above.
Appr	v. Or No	t Req./Not Approved
	1.	Benchmark- fixed point not subject to destruction
	2.	□ □North Arrow
	3.	Application Information
		Including: Name, address, phone number and email address of owner, designer/engineer, date of plan
		submission, Pin #, WRP #, and address of property
	4.	☐ Vicinity Map/ Directions
	5.	Drawing to scale - indicate scale
	6.	Location of Drainfield Components
	7.	Property lines with dimensions (must accurately represent lot as surveyed)
	8.	Surface Water Bodies and Their Buffers
	9.	☐ ☐ Drainage Swales
	10.	Storm Water Devices, Culverts or Drainage Pipes
	11.	Easements or Right-Of-Ways
	12.	Existing/Proposed Utilities
	13.	Existing/Proposed Well Locations
	14.	Finish Floor Elev. of Proposed Structure (if known)
R		information (If Required)
		t Req./Not Approved
	1.	☐ ☐ A soil evaluation report clearly depicting location and classification of soil units must be provided
	2.	☐ ☐ Methodology utilized to evaluate soil/site and soil moisture conditions at time of evaluation
	3.	Long Term Acceptance Rate and written justification
	4.	Inclusion of lab data, conductivity, etc., if applicable
	5.	Dates of evaluation, demonstration, or lab work
	6.	If site alterations are proposed, a grading plan with existing and proposed contours.
C.	Spe	ifications
		t Req./Not Approved
	1.	Tanks - Approved by State. Pump tank emergency storage must be determined. Tank chosen must meet
		State and Wake County requirements
	2.	Pumps - Pump requirements and manufacturer's specifications (Performance curve).
	3.	Piping - Sizes of piping and components, material strength
	4.	☐ ☐ Drainfield Product - Specify rock size or specific product(s) for each system. Include product approval
		number
	5.	Controls-Manufacturer's specifications on floats, control panels, etc. Electrical supply needed (phase, voltage)
	6.	☐ ☐ Drainfield Design - Specify L.T.A.R., Design Unit Volume, Initial field designs, Mode of
		Distribution, Tap/ flow chart or drainfield calculation worksheet
	7.	Advanced Pretreatment - Specify product type and level of treatment. Include product approval number.
	8.	Repair system - Must include field layout, drainfield product type/product approval number, and tap/ flow char
		or drainfield calculation worksheet
	9.	Design Concepts - Include, with calculations, design info that meet State and Wake County rules & regulations
		Examples included but not limited to
		Design flow
		Dose volume
		Pipe scour velocity
		Drainfield reduction/ manifold sizing
		Total dynamic head- include design, friction, and elevation heads for system

D. Plans
Apprv. Or Not Req./Not Approved
1. Show system components (Original and Repair Fields) – Locations must also be shown in field by staki
or flagging
2. Specify dimensions/Regulatory setbacks (i.e. Setbacks from Class I, II, III reservoir, streams, public was source, drainageway / watershed / Neuse Basin buffers, etc.)
3. Show elevation for components such as benchmark, tanks, inlets, on/off positions for floats,
hydraulic profile, disposal lines, etc.
E. Installation Procedure
Apprv. Or Not Req./Not Approved
1. Specify installation procedures for all major components
(i.e. tanks, supply manifold, laterals, pretreatment, etc.)
2. Specify procedure for inspecting and testing components as needed
F. Operating Instructions
Apprv. Or Not Req./Not Approved
1. Provide operating and maintenance procedures
2. If applicable, a maintenance schedule <u>must</u> be recorded with the Wake County Register of Deeds
office after the system has been installed. A copy of the recorded form must be returned to the Wake
County Department of Environmental Services before the Operation Permit can be issued.
3. If applicable, an executed contract with a Certified Subsurface Wastewater System Operator must
be returned to the Wake County Department of Environmental Services before the Operation Permit
can be issued.

The preceding items may not be totally inclusive for all proposals. Specific site constraints, wastewater quality and/or quantity, system types, etc. may require submission of additional information.

BSM: 3/16 ICD: 1/29/18 JXL:11/5/20