NCDENR On-Site Water Protection Section – Engineering Review Small (< 3,000 gpd) Subsurface Wastewater System Plans and Specifications Transmittal Checklist

The following transmittal checklist must be filled out and included with every submittal under 3,000 gallons per day that is sent to the On-Site Water Protection Section for Engineering Review

DONE	NA	
		 Applicant and General Information Property owner's name, mailing address and daytime phone number All consultants' contact information (address, license number, phone, FAX, and e-mail address)
		 Designated use of the property, facility type and proposed design daily flow Basis for the design flow if other than a single-family residence, including plumbing plans, specifications/cut sheets for all water using fixtures and any other additional information as required to summarize the property design daily flow.
		 Any plumbing or collection system appurtenances (grinder pumps, etc) that may affect
		 6. Written documentation from the system manufacturer on company letterhead specifying that the named designer is currently authorized for systems that require authorized designers
		 Locator map for the property Application has been submitted to local health department
		 Soil/Site Evaluation Note that when the concurrence of the OSWP Regional Soils Scientist (RSS) is being sought, a complete copy of the soil and site evaluation report shall be sent by the LHD to the RSS for review prior to submittal to the OSWP Central Office. Written documentation (letter) from the local health department or the Regional Soil Scientist concurring with the following Proposed LTAR Trench depth Reductions in vertical or horizontal setbacks (if applicable) Increase in LTAR (if applicable) Hydraulic assessment, if required, and associated data and analysis Written documentation (letter) from the local health department that all the information specified in the "Soil and Site Evaluation" Section of "Requirements for Submittals of Soil Reports and Pretreatment and/or Dispersal System Designs" has been included in the submittal Written documentation (letter) from the local health department that the local health department has field verified the layout of the proposed drainfield, including that the drainfield lines are on contour Copy of the soils report and all supporting documentation that the local health department or Regional Soil Scientist reviewed
		III. Pretreatment Components Site plan detailing the proposed system at a scale no smaller than 1 inch = 20 feet, a North
		 1. Tanks a. Plan and profile drawings b. Tank dimensions, location and relevant elevations (e.g. inlet and outlet inverts, ground surface elevations and other elevations as need to show that the system
		 design works as proposed) other pertinent elevations in recirculation and pump tanks (i.e. float activation levels)

DONE	NA □ □ □	 d. Identification number of state approved tanks e. Access riser, manhole, effluent filter and discharge pipe details f. Provisions for anti-floatation including calculations and drawings
		 Advanced Pretreatment Components a. Plan and profile drawings b. Drawings showing all treatment units and appurtenances, piping (size and type), disinfection unit, blowers if needed, location of control panels, height of control panels, etc.
		c. Details on all appurtenances supplied with the advanced pretreatment unit (pump
		 d. Documentation from the manufacturer supporting the proposed design and use of the advanced pretreatment system, if needed
		 Reference the specific accepted, innovative, controlled demonstration or experimental approval
		 Pump Systems Calculations for system total dynamic health including friction loss, elevation head, pressure head etc
		 b. Cut sheet for pump with pump curve c. Description of float sequencing, control panel function under normal and other than
		d. Control panel must meet requirement of 15A NCAC 18A .1952(c)(6) and (7) and
		e. Emergency storage capacity calculations and provision for auto-dialer and stand-by
		 f. For pressure dispersal, dosing and flushing conditions for pumping and filter backwash requirements, as applicable
		g. Single or multiple control panels, who will be providing the panel(s) and what each panel will be controlling
		 4. Location and identification of all gravity and pressure lines, including calculations, size and type of piping from building to tanks, among tanks and pretreatment units, and from tanks to nitrification field
		5. Testing and start-up procedures
		 IV. Nitrification Fields Detailed site plan at a scale no smaller than 1 inch = 30 feet with the following information a. Location, layout, and design of the initial and repair areas b. Field contour lines must be shown on the plans or a minimum of two-foot intervals or spot elevations shall be provided if there is less than two-foot elevation variation across the site
		Following information must be included in the submittal 1. Trench and lateral distribution system plan and cross sectional details (e.g. trench width and length, trench depth, hole spacing, pipe size and type)
		 Specific trench media to be used, including model number, if applicable Manifolds, supply lines, return lines, cleanouts, interconnection details and appurtopances
		 Flow distribution device design and construction details Drainage system locations, discharge points and design details Fill modifications referencing both depth and location to established horizontal and vertical benchmarks
		 Reference the specific accepted, innovative, controlled demonstration or experimental approval
DONE	NA	V. Cite Dremonstion, Installation, and Other Iterra
		 v. Site Preparation, Installation, and Other Items 1. Proposed installation procedures, including site preparation, method of trench/tubing installation, provisions and procedures for blanking, where applicable

	2.	An operation and maintenance plan for the proposed system, and proposed maintenance of pretreatment and drainage, if applicable
	3.	Details of cleanouts, aerial crossings, road crossings, water line crossings, storm sewer crossings, etc, as needed
	4.	Written documentation from the local health department that all necessary legal documents, including easements, association documents, Tri-Party Agreements, etc, have been submitted
	5.	Flow reduction information as needed for projects other than single or multiple family home systems
	6.	Additional information based on the soil and site evaluation
	7.	Fill installation procedures, including selection and incorporation of fill material
	8.	Methods for removal of vegetation, including trees
	9.	Slope stabilization plan and maintenance provisions for slopes greater than 30 percent
	10.	Final landscaping and vegetation establishment provisions for the nitrification field area, including maintenance of vegetation or landscaping over system
	11.	Identification of any well(s) to be abandoned, including a statement that well abandonment shall be per the Division of Water Quality in the Department of Environment and Natural Resources or local health department regulations, as
	12. 13. 14.	Identification of old roads, buildings, etc, to be removed and removal procedures Locations of any debris to be buried on site shall be specified Any other site specific installation procedures recommended by the consultant

Concurring Signature, the applicant has, to the best of his/her abilities and belief, provided complete and factual representations of the information requested above:

Applicant or Applicant's Agent

Health Department's Concurrence that Application has been submitted, requested information appears complete and State review is requested:

Local Health Department Environmental Health Specialist

* **Note to all interested persons.** This transmittal check list and necessary accompanying information shall be submitted by the LHD to the On-Site Water Protection Section, Division of Environmental Health, 1642 Mail Service Center, Raleigh, NC-27699-1642 (Fax: 919-715-3227).

Date

Date