

Single Pump Checklist

(This must be completed before inspection and be available at job site during inspection)

Property Owner _____ Responsible Installer _____
Site Location _____ Parcel ID# _____

Construction of Pump Tank

- 1) _____ State approved pump tank (serial number, access manhole)
 - 2) _____ Seams sealed with waterproofing compound
 - 3) _____ Access manhole 24 inches minimum, extends 6 inches above finished grade.
 - 4) _____ Tank is single compartment or cast with two 4-inch openings Tank must be 2/3 capacity of septic tank/750 gallon minimum. (Refer to Improvement Permit.)
- _____ Installer _____ Date

Pump Selection

- 1) _____ Pump is an effluent pump specifically designed to handle at least 1/2 inch solids.
 - 2) _____ Pump properly sized according to total dynamic head and pump
 - 3) _____ Pump set to deliver 20 gallons per minute to distribution device
- _____ Installer _____ Date

Pump Installation and Piping

- 1) _____ Discharge piping is schedule 40 PVC
 - 2) _____ Fittings and valves are corrosion resistant material
 - 3) _____ Pump is installed on 8-inch block
 - 4) _____ Threaded union or disconnect provided in discharge line
 - 5) _____ Check valve provided in the discharge line
 - 6) _____ Rope or non-corrosive cable provided to enable removal of pump without entrance into tank
 - 7) _____ Antisiphon hole provided if applicable
 - 8) _____ 45 deg – 90 deg elbow installed at inlet pipe to distribution box to slow flow of water
- _____ Installer _____ Date

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Water Level Control

- 1) _____ Sealed mercury float switches used
 - 2) _____ Water level in tank maintained at top of pump or per manufacture specifications
 - 3) _____ Pump off-pump on level set at 6 inches apart
 - 4) _____ Separate alarm float set 6 inches above pump "on" level
- _____ Installer _____ Date

Pump and Control Circuits

- 1) _____ Circuits mounted in NEMA 4X box (waterproof)
 - 2) _____ Manual disconnect provided adjacent to pump tank at least 12 inch above finished grade
- _____ Installer _____ Date

Pump Manually Operable

- 1) _____ Hand-off-auto (HOA) switch or manual plug-in
 - 2) _____ Wiring from pump tank to NEMA 4X box enclosed in conduit
 - 3) _____ Conduit sealed against gas travel from tank with silicone
 - 4) _____ No splices inside tank
 - 5) _____ Alarm circuit wired ahead of pump overload or short circuit protective devices
 - 6) _____ Alarm in NEMA 4X box or installed indoors
 - 7) _____ Alarm/light audible and visible by system user
- _____ Installer _____ Date

This list must be completed before scheduling an inspection of the pump installation. Rules are further detailed in the N.C. Laws and Rules for Sewage Treatment and Disposal Systems sections .9152, .9153, .9154. Failure to properly install the pump system will result in additional inspection visits and a \$125.00 re-inspection fee payable before the inspection.