

**Enviro-Septic® Wastewater Treatment System - Indiana Installation Checklist**

Manufactured by Presby Environmental, Inc. (800) 473-5298 Distributed in IN by Environmental Septic Solutions (812) 457-3144

**System Owner:** \_\_\_\_\_ **Site Address:** \_\_\_\_\_

**Instructions to Installer: Check box in left column to confirm each installation requirement has been met. After completion, provide a copy of this form to Designer, System Owner and Local Health Officer.**

√	INSTALLATION REQMTS.	COMMENTS	REFERENCE
	Installation performed during appropriate weather conditions	Not installed on wet or frozen ground; protect against freezing; system covered with System Sand and cover material immediately after inspection.	Revised Sect. E, 3/2007, p. 19
	Proper site preparation before installation	No heavy equipment on system area and dispersal area; no scraping, compacting or smearing of receiving soils; excavated using toothed bucket only; organics removed. <b>Elevated systems:</b> till 7-14 in. deep, parallel to contour; install 6 in. System Sand, mix to create transition layer. <b>Subsurface systems:</b> rake furrows 2-6 in. deep w/ toothed bucket in entire bed area.	Revised Sect. E, 3/2007, p. 18-20
	Trees/Stumps in system location	Use mechanical "thumb" to minimize soil disturbance. Fill voids with System Sand. <b>Elevated systems:</b> remove all stumps 3 in. or larger, cut stumps less than 3 in. flush w/ original grade. <b>Subsurface systems:</b> remove all stumps/roots below grade.	Revised Sect. E, 3/2007, p. 21
	Correct System location	Confirm elevations and set-backs per plan; not located where surface or ground waters converge; designed and installed along contour; note any discrepancies or changes approved by local health department on "as built" plan; sketch system location on sheet provided, making reference to structures or benchmarks and indicating any "as-built" changes; provide copy of sketch to system owner.	Manual p. 11, p. 14
	System Sand meets specs.	IN DOT Specification 23 OR ASTM C-33 w/ less than 2% fines	Manual, p. 13
	Correct Amount of System Sand installed	6 in. below pipes ( <b>if subsurface</b> ) 12 in. below pipes ( <b>if elevated</b> ) 6 in. minimum between rows 6 in. above pipes 12 in. horizontally beyond ends of pipes Incorporate System Sand extensions if req'd 6 in. deep in System Sand extensions	Manual, p. 13
	Offset Adapters installed correctly	Hole in the 12 o'clock position	Manual, p. 7
	Raised Connections installed correctly	Extend no less than 2 in. and no more than 4 in. into pipes; angled so that top of Connection is level with top of pipe.	See Training Update 12/09 & Details
	Alignment of Enviro-Septic® pipes is correct	Approximately parallel (to within +/-1 in.) and level (to within +/- ½ in.)	Manual, p. 15
	D-Box installed correctly (if used/required)	On stable base; level; flow equalizers installed and adjusted; unused outlets plugged/mortared; seals watertight; minimum 2 in. drop in elevation from d-box to Enviro-Septic® pipes; tee baffle required in d-box	Manual, p. 16, p. 27
	Septic Tank installed properly	Sized sufficiently in relation to daily design flow; watertight; inlet and outlet baffles in place; all access covers, risers, etc. sealed; connecting PVC from tank to d-box or pipes slopes at least 1%.	Manual, p. 16 Also see Training Update 12/09
	Observation Port installed properly	One observation port req'd. at center edge of each bed, on downslope side if sloped; constructed of PVC, capped, wrapped in geotextile fabric; bottom of PVC at the infiltrative surface.	Manual, p. 11 Revised Sect. E, 3/2007, p. 17

√	INSTALLATION REQUIREMENTS	COMMENTS	REFERENCE
	Perimeter drain properly installed (if needed to lower SHWT)	Must encircle system completely on 4 sides; constructed of perforated minimum 4 in. approved drain pipe w/ geo-textile sleeve when required; located at least 3 ft. below infiltrative surface; minimum 10 ft. from outer edge of System Sand bed(s); aggregate to w/in 6 in. of final grade; installed with a positive slope of at least 0.2 ft. per 100 ft. with no sags in the line. Side-to-side beds require segment drain between beds; instruct system owner not to alter swales & explain importance of ongoing maintenance to ensure outlet is unobstructed.	Manual, Revised Sect. C Also see Training Update 12/09 & Details
	Venting Properly installed (if required)	Venting is REQUIRED for all systems. High vent off the d-box is required for flood dosed systems, 10 ft. differential req'd. between low & high vent inlets. House/roof vent will be "high" vent in gravity systems. Low vent inlet to be min. 3 ft. above final grade. One 4 in. vent req'd. for every 500 ft. of pipe.	Manual, Section I, Venting pp. 37-39.
	No excess hydraulic loading	NO floor drains, roof drains, foundation drains, sump pumps, gutter systems, irrigation systems, etc. discharging in system area.	Manual, p. 14 See Training Update 12/09
	Discharges from water treatment systems, water softeners/purifiers, hot tubs, jetted tubs, etc.	Unless the system's daily design flow was calculated to include discharges from such appliances, seek an alternative means of dispersal.	See Training Update 12/09
	Sufficient cover material installed	Minimum 6 in. compacted loam (topsoil) capable of sustaining vegetative growth; immediately mulch/seed to prevent erosion. NO pavement or other hardscape above system; no trees w/in 10 ft. of system; plant only grass or wildflowers.	Manual, p. 14
	Cover material crowned	Crown from the center to direct surface water flows away from the system; minimum 3% finish grade slope.	See Training Update 12/09
	Surface diversions ("Swales") properly constructed	Located to intercept and divert surface water away from the system; located in undisturbed soil; min. 10 ft. away from bed (if no perimeter drain) or above/upslope of perimeter drain with a minimum positive slope of 0.2 ft. per 100 ft.; instruct system owner not to alter or remove swales.	See Training Update 12/09
	Cover extensions ("side slopes") properly installed	Req'd. if top of System Sand bed is above original grade; slopes 10% or less require 3 ft. extension beyond pipe in all directions before tapering; slopes greater than 10% require 5 ft. cover extension on down-slope side before tapering; tapering to be 3:1 or shallower.	Manual, p. 12, p. 13
	Flood Dosing schedule	Adjust pumps so that pumping frequency is a minimum of design flow ÷ 6 maximum of design flow ÷ 8 per day.	Manual, Section H Flood Dose System Requirements, p. 36.
	System Installation Form	Completed and mailed to Presby Environmental.	Manual p. 4
	Use & Care Instructions	Provide System Owner with Use & Care Instructions and copies of completed worksheets. Inform System Owner of availability of manual @ <a href="http://www.presbyeco.com">www.presbyeco.com</a> .	Visit our website

**By signing below, I confirm that I have followed the installation guidelines set forth above, I have received a completed Design Worksheet, and I have provided a copy of this completed form to the system owner, the designer and the local health officer:**

Installed by: \_\_\_\_\_  
(Print Name)

Date(s) of Installation: \_\_\_\_\_

Signed: \_\_\_\_\_

PEI Certification Number: \_\_\_\_\_