

INDUSTRIAL PROCESS WASTEWATER (IPWW) in Subsurface Discharge Systems

Required information in an application package

In addition to the detailed site/soil evaluation report by the health department and the large subsurface wastewater system review transmittal checklist completed by the applicant's engineer, the following items must also be forwarded to the On-Site Wastewater Section, Engineering Branch. **FOUR** copies of all materials must be submitted.

1. **Identification information:** Project title and location; name, address and phone number of the owner, agent and the applicant's engineer of the project.
2. A statement describing the type of industry or business and the end products and byproducts.
3. **Flow information:** total average flow, peak flow, irregular flow patterns, and flow from each process resulting in a wastewater discharge. The basis for flow determination must also be included.
4. Statement about wastewater minimization activities (reuse, recycle, low flow fixtures, etc).
5. Qualitative description of the industrial processes which occur in the plant, especially those resulting in a wastewater discharge.
6. Chemical/biological analysis of the waste stream, and determination of whether or not the effluent exhibits hazardous or radiological characteristics.
7. Material Safety Data Sheets (MSDS) for chemicals used in the manufacturing process and expected to end up in the waste stream (including solvents and cleaning formulas).
8. Plant layout showing major process components, floor drains, plumbing, and all sources of wastewater discharge.
9. Site plan based on a survey plat showing; ALL corners of the property, property boundaries, a bench mark with elevation, water lines, water supply wells within 500-ft radius of the proposed drainfield(s) and repair area(s), storm drainage facilities, roads, streams, and any designated wetlands, in addition to the location of the proposed subsurface system and related structures. A vicinity map must also be provided.
10. Topographic map of the property (or in the vicinity of the proposed drainfield and repair area if the property is extremely large) with at least two-foot contour intervals. All important ground features (see 9 above) must be shown, and any borings or soil test pits accurately located on the map.
11. System design in the form of plans and specifications completed and sealed by a North Carolina registered Professional Engineer. The design must be in accordance with applicable rules and design guidelines, and shall incorporate relevant engineering calculations and findings of the soil and site evaluations.
12. Operation and maintenance (O&M) procedures for each component of the subsurface system, as well as any pretreatment facilities. Name and address of management entity or certified subsurface system operator, if applicable, must also be included.