

# Alternative Treatment Technologies (ATTs) Plans Submittal

**Before submitting a permit application, make sure you have the following:**

1. **Completed Application** signed by the owner.
2. **Planning Approval** and/or valid building permit.
3. **The Appropriate Fee** (\$950.00) which includes plan review.
4. **A Site Evaluation:** approving the site for an onsite system.
  - a. If the approval is for a sandfilter system, and the site evaluation notes indicate a temporary groundwater table, an ATT meeting Treatment Standard 1 or an RGF can be approved.
  - b. If the site evaluation indicates that a permanent water table exists and 4 feet of separation can not be maintained between the bottom of the trench and groundwater, then a sandfilter or an ATT system meeting Treatment Standard 2 is required.
  - c. If the site evaluation does not indicate what type of groundwater exists at the site an ATT will not be allowed without a re-evaluation, unless regional knowledge is adequate to determine the type of groundwater.
5. **An Operation & Maintenance (O&M) Service Contract:** signed by the property owner and a certified maintenance provider.
  - a. Make sure the service contract has the essential components listed on the DEQ guidance form in Appendix B-8.
  - b. If the homeowner wants to perform the O&M they must complete the form in Appendix B-10.  
*Note: The first two years of O&M service are included in the price of the ATT system as required by rule.*
6. **Two (2) Sets of Detailed Plans and Specifications:** See plan review checklist on reverse.
7. **ATT Brand Name and Model Number:** Check the DEQ website to see if the ATT model is approved and whether it is approved for Treatment Standard 1 or Treatment Standard 2. Make sure the treatment level matches the site evaluation. Make sure the hydraulic capacity of the unit is adequate to treat the projected daily flow. If it is not, multiple units may be required.
8. **Add-on Treatment Components:** brand name and model number (e.g. Red Zone Inc. UV disinfection unit model #A100).
  - a. Check the DEQ website to see if the add-on component is approved.
  - b. Be aware that some disinfection units may require an additional level of O&M, as recommended by the manufacturer, relative to ATT's without disinfection units.

# Plan Review Checklist

*Plans must be drawn to scale*

- 1. General Plans.** An overview or schematic of the entire development, including:
  - a. Location of all building, both existing and proposed.
  - b. Wells, both on and off the property within 100 feet of the property.
  - c. Roads and driveways, both existing and proposed.
  - d. The location of the approved area and test holes.
  - e. Tank manufacturer and sizing.
  - f. Drainfield sizing as per approved Site Evaluation. Location of individual lines, lengths, and level tolerances.
  - g. Relative elevations for structures with plumbing, tanks, and drainfields.
  - h. Hydraulic assessments for all pumps. Duplex pumps for systems with design flow greater than 600 gpd.
  - i. For ATT, CSF, and RGF systems with design flow > 600 gpd require a W.W.S, E.H.S. or a P.E. to design.
  - j. Details on float settings to deliver the proper dose.
  - k. Location of all tanks, piping materials, and treatment units.
  - l. Check for compliance with volume of wastewater discharged into coarse textured soils.
  - m. Property lines.
  
- 2. ATT Plans**
  - a. Appropriate hydraulic capacity (gpd).
  - b. Brand name and model number. Must be DEQ listed.
  - c. Does the ATT meet the appropriate selection criteria for Treatment 1 or Treatment 2 standards?
  - d. Written service contract. See contract requirement form in appendix B-8.
  - e. Access ports at ground level and facilitate:
    - i. Visual inspection and parts removal
    - ii. Allow sample collection of a representative free falling or undisturbed wastewater sample.
    - iii. Pumping and cleaning.
    - iv. Prevention of unauthorized intrusion (e.g. locks).
    - v. Removable with tools.
  - f. Designed to prevent flow to drainfield if ATT malfunctions.
  - g. System for detection of mechanical or electric failures.
  - h. System failure alarms, on separate circuitry, designed to be detectable at 50 feet and according to rule.
  - i. Data plate is located on electric box (if applicable) and on tank or riser, is legible and has all information required by rule.
  - j. Two-year warranty is in effect.
  - k. For ATT, CSF, and RGF systems with design flow > 600 gpd require a W.W.S, E.H.S. or a P.E. to design.
  
- 3. Before final inspection is approved:**
  - a. O& M manual authored by manufacturer must be provided.
  - b. Installer's statement: "Installed as per manufacturer's guide and OAR chapter 340 divisions 071 & 073."
  - c. As-built drawings and inspection request form, including documentation of water tight test.