



*Aerial View: Cookeville WWTP*

## About Us

The City of Cookeville Wastewater Treatment Plant is located in Cookeville, Tennessee just off State Highway 111 and Jefferson Avenue

## Contact Us

Superintendent: Tom Graham

Phone: (931)-526-6866

Web: <http://www.cookeville-tn.gov/water/sewer-treatment/>

## Quick Facts

- Originally Built in 1984, expansion concluded in 1995, SCADA and UV disinfection update in 2016
- The only treatment plant serving the City of Cookeville. Also serves the City of Algood.
- Rated as a 14 MGD (million gallon per day) activated sludge treatment plant
- Receives wastewater from 165+ miles of sewer line including low pressure and gravity lines
- Treated water is released to Pigeon Roost Creek
- End sludge process produces Class A Bio- solids (Sludge) that is applied to land as a soil amendment
- Multi year winner of the KY/TN Operational Excellence Award, Winner of Tennessee Achievement Award



*Water Professional Conference Awards KY/TN 2016  
Knoxville, Tennessee*



Cookeville WWTP  
1870 South Jefferson Avenue  
Cookeville, TN 38501





# Cookeville WWTP Process

1. **Primary Treatment**
  - Initial Treatment Process to remove suspended or floating solids (bar screen, etc.)
2. **Aeration/Mixing**
  - Aerators inside oxidation ditches provide circulation, oxygen transfer, and aeration to remove biodegradable organics (fats, alcohol, etc.)
3. **Sedimentation Process**
  - Slows wastewater down allowing settleable solids to settle to the bottom and floatable solids to rise to surface.
- 3a. **Sludge Process**
  - Sludge that settled in the clarifiers makes its way to sludge holding tanks where it is generated into Bio-solids that are applied to land.
- 3b. **Tertiary Process**
  - The final cleaning process that improves wastewater quality before heading to the disinfection process. This removes remaining inorganic compounds, nitrogen and phosphorus.
4. **Disinfection**
  - The physical process that instantaneously neutralizes microorganisms as they pass by ultraviolet lamps.



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