

VIII. Municipal Wastewater Management Chapters

Franklin Borough

2010 Population = 5,045
Land Area = 4.49 square miles

2010 Population Density = 1,150 persons/sq. mile

This municipal chapter is an element of the Sussex County Wastewater Management Plan prepared by Sussex County Planning Division in accordance with N.J.A.C. 7:15.

Existing and Proposed Wastewater Infrastructure

Franklin Borough has a wastewater collection system that conveys wastewater to the Sussex County Municipal Utilities Authority wastewater treatment facility located in Hardyston Twp. The SCMUA Upper Walkkill Water facility has a surface water discharge to the Walkkill River. The Existing Sewer Service Area map shows there are 5 existing pump stations in Franklin Borough.

Wastewater facilities (discharge greater than 2,000 gallons per day) are regulated by NJ Dept. of Environmental Protection with individual New Jersey Pollutant Discharge Elimination System (NJPDES) Permits. There are no individual wastewater facilities with NJPDES Permits in Franklin.

Build-out and Sewer Capacity Analysis

The DEP Build-out Model with GIS map layers was used by the Sussex County Planning Division to estimate the build out projections. All of Franklin Borough is designated within the Highlands Planning Area. **Table A** provides a breakdown of the acreage of land available for development within each general zone of the municipality, based on the build-out analysis. The model does not account for redevelopment areas, so local input is valuable to identify additional projected growth in sewer areas.

Table A - Additional Development at Build-out, Sewer Service Area				
Zone	Developable Area (Acres)	Zone Density (Units/Acre)	# of Units (residential)	FAR and Square Feet (commercial)
Hospital Multi-Family	12.2		111 (site plan approval)	
Mixed Active Adult Housing Zone	26.2		198 265 (site plan approvals)	
Mobile Home Park	0.7		4	
Multi-Family	9.5	3	31	
Single Family Residential 1 acre	2.1		2	
Single Family Residential 15,000 Sq Ft	3.6	3	10	
Single Family Residential 3 acre	63.7		23	
Single Family Residential 6,240 Sq Ft	2.5	6	11	
Zinc Mine Mixed use				
Highway Commercial	22.2			580,200 sq.ft. Based on FAR = 0.6
Industrial	4.4			
TOTAL RESIDENTIAL UNITS			655	
TOTAL COMMERCIAL/ INDUSTRIAL SQ.FT.				580,200 sq.ft. + Industrial space

**Projected Wastewater Flow
At Build-out in Sewer Area :**

655 residential units x 300 GPD/unit = 196,500 Gallons Per Day
 580,200 sq.ft. x 0.1 GPD/sq.ft. = 58,020 Gallons Per Day
 + Industrial Flow

Additional Projected Flow 254,520 GPD + Industrial Flow

SCMUA allocation = 785,000 GPD

Existing flow, 2013 = 409,000 GPD
 (monthly average)

Since the County Wastewater Management Plan is meant to be a 20-year plan, using that time period is valuable to realistically assess the possible need for additional sewer capacity and infrastructure for future development. We can compare the SCMUA allocation amount with existing flow and projected flow to evaluate whether additional wastewater capacity would be needed in the future.

Build-out in Septic Area and DEP Nitrate Dilution Model

According to DEP Nitrate Dilution Model, 137 new septic systems can be built and still meet the strict standard of 2 mg/L for the overall watershed. They recognize the inexact nature of the regional build-out model, and a range of +10% is considered acceptable. For Franklin septic area, this would be up to 150 new septic systems, so the projected number of 148 based on existing zoning falls within that range.

Table B - Additional Development at Build-out, Septic Area				
Watershed (HUC-11)	Total Undeveloped Land Available for Dilution	DEP Nitrate Dilution Model: Acres/New Septic	DEP Model: Total New Septics Allowed	Total New Septics based on Zoning
Walkkill River (above road to Martins)	659	4.8	137 (+ 10% = 150)	148

3) Identify any areas subject to federal 201 grant limitations – NONE

4) Provide a checklist of ordinances adopted and pending to complete the municipal chapter.>

Table C - Summary of Ordinance Adoption Franklin Borough			
Ordinance	Date Adopted	Complies with NJAC 7:15	Comments and More Protective Standards
Stormwater Management (Ground Water Recharge Maintenance)	3/28/2006	County Planning Board Certification 5/1/2006	
Riparian Zone Protection (optional)			
Steep Slope Protection (optional)			
Dry Conveyances in Sewer Service Area			
Septic Connection in Sewer Service Area			