

**TOWN OF BROOKFIELD
ZONING REGULATIONS**

**Technical Standards
Wastewater § 242-602C**

C. Wastewater:

(1) **Purpose:**

It is the intention of this section to specify acceptable discharge levels of effluent into the soil, to prevent contamination of soils and water sources and to lessen the risk of pollution.

(2) **Soils map:**

The Zoning Commission shall require that each site plan submitted for approval in accordance with §242-301C, shall have indicated either thereon or by auxiliary plans the soil description and boundaries as found on the soils maps of the Town of Brookfield prepared by the United States Department of Agriculture, Soil Conservation Service. Site plans may also indicate soil description and boundaries, taken from individual site tests and analysis, provided that data of such tests and analysis are attached to such site plans and have been prepared by a technical expert acceptable to the Commission.

(3) **Wastewater effluent standards:**

Any wastewater discharge of materials in quantities (milligrams per liter) shall not deteriorate groundwater quality or otherwise contribute to pollution. The applicant shall cause each site to be evaluated to determine its suitability for receiving and treating effluents. Such evaluations shall be performed upon the gathering of specific data from the site from a number of locations thereon sufficient to provide reliable conclusions. The evaluation report shall contain, at a minimum, the location and data of each test hole, wastewater flow rates, wastewater characteristics, soil characteristics to a depth of ten feet (10'), ability of the soil to remove potential contaminants, depth of ground- water, direction of groundwater flow, effect of surface water runoff, etc. The applicant shall use that Sanitary Code which is applicable to the Town of Brookfield in gathering and evaluating data. Maximum allowable effluent concentrations shall be determined by the State of Connecticut Department of Environmental Protection.

(4) **Discharge rate table:**

For wastewater discharge of particles in less than the amounts shown below in Table I, the evaluation report provided for in §C(3) above is not required for areas within water resource area boundaries or where the discharge point is less than ten feet (10') above bedrock. Class II limits are established for all remaining areas.

**TOWN OF BROOKFIELD
ZONING REGULATIONS**

**Technical Standards
Wastewater § 242-602C**

Table 1

**Acceptable Wastewater Effluent Standards for Industrial & Commercial
Subsurface Discharges (milligrams per liter).**

<u>Item</u>	<u>Class 1</u>	<u>Class II</u>
Alkyl benzene sulfonate	1.00	1.50
Aluminum	2.50	5.0
Arsenic	0.05	0.10
Barium	1.00	2.00
Beryllium	0.05	0.10
Boron	0.35	0.70
Cadmium	0.01	0.02
Chlorides	250	500
Hexavalent chromium	0.05	0.10
Cobalt	0.03	0.05
Copper	0.5	1.0
Cyanide	0.2	0.4
Fluorides	1.5	3.0
Iron	0.3	0.6
Lead	0.05	0.10
Manganese	0.3	0.6
Mercury	0.002	0.004
Nickel	0.8	1.6
Nitrates	10	10
Phenols	0.001	0.002
Selenium	0.01	0.02
Silver	0.05	0.10
Sulphate	250	250
Total dissolved solids	500	1000
Zinc	2.5	5.0
pH	6.5-8.5	6.5-8.5
Phosphates	0.01	0.02

The discharge of radioactive material and pesticides is prohibited in both Class I and Class II areas.

(5) Wastewater loading rates and individual site data:

It shall be demonstrated to the satisfaction of the Commission that such discharge will not deteriorate groundwater quality or otherwise contribute to pollution. The applicant shall cause each site to be evaluated to determine its suitability for receiving and treating effluents. Such evaluations shall be performed upon the gathering of specific data from the site from number of locations thereon sufficient to provide reliable

**TOWN OF BROOKFIELD
ZONING REGULATIONS**

**Technical Standards
Wastewater § 242-602C**

conclusions. The evaluation report shall contain, at a minimum, the location and data of each test hole, wastewater flow rates, wastewater characteristics, soil characteristics to a depth of ten feet (10'), ability of the soil to remove potential contaminants, depth of ground- water, direction of groundwater flow, effect of surface water runoff, etc. The applicant shall use that Sanitary Code which is applicable to the Town of Brookfield in gathering and evaluating data. Maximum sewage discharge rates per acre of land, per soil type, shall be as determined by the State of Connecticut Department of Environmental Protection.

(6) **Loading rate table:**

For sewage discharge rates per acre of land, per soil type less than the amounts shown below in Table II, the evaluation report provided for in §C(5) above is not required.

Table II

Recommended Maximum Wastewater Loading Rates per Acre (40,000 sq. ft).

General Soil Type	Description	Gallons per day per acre for various slopes		
		0% - 8%	8%-15%	Over 15%
A	Sand or Gravel	800	600	400
B	Glacial Till	450	400	350
C	Till with Hardpan	350	300	250
D	Shallow to Bedrock	300	250	200
E	Poorly Drained	0	0	0