

THE MINIMUM ASSESSMENT FOR THIS EXAMPLE SHALL BE BASED ON 34.85 UNITS.
ADDITIONAL CHARGES FOR ADDED TREATMENT PROCESS MAY BE REQUIRED.

**TABLE IV-B
PAGE 2 OF 2
TOWN OF PEPPERELL, MASSACHUSETTS
CLASS II HIGH STRENGTH WASTES
(CONTINUED)**

WASTES WHICH EXERT A BOD SOLIDS LOADING GREATER THAN 250 mg/l SHALL BE ASSESSED AS FOLLOWS:

1. DETERMINE WASTE FLOW FROM TABLE IV-A ABOVE, OR AS DEFINED IN ARTICLE III, SECTION 2.b.
2. DETERMINE BOD LOADING OF WASTE FROM LABORATORY ANALYSIS.
3. CALCULATE UNIFORM UNIT MULTIPLIER AS 70 PERCENT OF THE PERCENTAGE IN EXCESS OF 250 mg/l.

EXAMPLE:

PEAK INDUSTRIAL FLOW OF 10,000 GALLONS PER DAY WITH BOD OF 450 mg/l

UNIT BASE= 10,000 / 330 GALLONS PER UNIT = UNITS
30.3

MULTIPLIER SHALL BE $1 + ((450 - 250) / 250) * 0.70 = 1.56$

ADJUSTED UNITS SHALL BE $30.3 * 1.56 = 47.27$

THE MINIMUM ASSESSMENT FOR THIS EXAMPLE SHALL BE BASED ON 47.27 UNITS.
ADDITIONAL CHARGES FOR ADDED TREATMENT PROCESS MAY BE REQUIRED.

**TABLE IV-B
PAGE 1 OF 2
TOWN OF PEPPERELL, MASSACHUSETTS
CLASS II HIGH STRENGTH WASTES**

WASTES THAT INTRODUCE LOADINGS INTO THE COMMON SEWER OR TREATMENT PLANT IN EXCESS OF CONCENTRATION LIMITS ESTABLISHED BY THE COMMONWEALTH OF MASSACHUSETTS, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND **THE TOWN OF PEPPERELL REGULATION OF SEWER DESIGN, CONSTRUCTION AND USE** ARE DEEMED HIGH STRENGTH WASTES AND MUST BE SPECIALLY PERMITTED PRIOR TO ANY DISCHARGE INTO THE TOWN OF PEPPERELL FACILITIES.

IF SUCH DISCHARGE IS PERMITTED BY THE SEWER COMMISSION, IT WILL BE ON TERMS AND CONDITIONS THAT MEET ALL APPLICABLE STATE AND FEDERAL STANDARDS, INCLUDING WITHOUT LIMITATION, PRETREATMENT REQUIREMENTS, AND A SPECIAL RATE CALCULATED TO COMPENSATE FOR ITS SPECIAL COSTS IN LABOR, AND EQUIPMENT, AND SUPPLIES.

WASTES WHICH EXERT A SUSPENDED SOLIDS LOADING GREATER THAN 300 mg/l SHALL BE ASSESSED AS FOLLOWS:

1. DETERMINE WASTE FLOW FROM TABLE IV-A ABOVE, OR AS DEFINED IN ARTICLE III, SECTION 2.b.
2. DETERMINE SOLIDS LOADING OF WASTE FROM LABORATORY ANALYSIS.
3. CALCULATE UNIFORM UNIT MULTIPLIER AS 30 PERCENT OF THE PERCENTAGE IN EXCESS OF 300 mg/l.

EXAMPLE:

PEAK INDUSTRIAL FLOW OF 10,000 GALLONS PER DAY WITH SOLIDS OF 450 mg/l

UNIT BASE= 10,000 / 330 GALLONS PER UNIT = UNITS
30.3

MULTIPLIER SHALL BE $1 + ((450 - 300) / 300) * 0.30 = 1.15$

ADJUSTED UNITS SHALL BE $30.3 * 1.15 = 34.85$

**TABLE IV-A
PAGE 3 OF 3
UNIFORM UNIT SCHEDULE**

**TOWN OF PEPPERELL, MASSACHUSETTS
CLASS I ACCEPTABLE WASTES
(CONTINUED)**

EXAMPLE:

CONDOMINIUM COMPLEX WITH 10, 2 BEDROOM UNITS			
	LOADING	FACTOR	UNITS
UNIT BASE= 2 BEDROOMS x 10 =	20	0.33	6.6

EXAMPLE:

SINGLE FAMILY (3 BEDROOM) HOME WITH ATTACHED 1 BEDROOM APARTMENT			
	LOADING	FACTOR	UNITS
UNIT BASE= 4 BEDROOMS 4	0.33	1.3	

EXAMPLE:

40,000 SQUARE FOOT OFFICE BUILDING			
	LOADING	FACTOR	UNITS
UNIT BASE=	40	0.23	9.2

EXAMPLE:

SCHOOL WITH CAFETERIA AND SHOWERS, 750 PEOPLE			
	LOADING	FACTOR	UNITS
UNIT BASE=	750	0.06	45

**TABLE IV-A
PAGE 2 OF 3
CLASS I ACCEPTABLE WASTES
UNIFORM UNIT SCHEDULE
(CONTINUED)**

ESTABLISHMENT TYPE	GALLONS PER DAY	UNIT EQUIVALENT
OFFICE BUILDING PER 1,000 SQ. FT.	75/	0.23
PUBLIC PARK, TOILET WASTE ONLY	5/PERSON	0.02
PUBLIC PARK, BATHHOUSE, SHOWERS AND TOILETS	10/PERSON	0.03
RESTAURANT	35/SEAT	0.11
RESTAURANT, THRUWAY SERVICE AREA	150/SEAT	0.45
RESTAURANT, KITCHEN FLOW (GREASE TRAP SIZING ONLY)	15/SEAT	0.05
RESTAURANT, FAST FOOD, KITCHEN FLOW (GREASE TRAP SIZING ONLY)	35/SEAT	0.11
RETAIL STORE, PER 1,000 SQ. FT.	50/	0.15
SCHOOL, WITHOUT CAFETERIA, GYMNASIUM OR SHOWERS	10/PERSON	0.03
SCHOOL, WITH CAFETERIA, NO GYMNASIUM OR SHOWERS	15/PERSON	0.05
SCHOOL, WITH CAFETERIA, GYMNASIUM OR SHOWERS	20/PERSON	0.06
SINGLE AND MULTI-FAMILY DWELLING (MOTEL, HOTELS, BOARDING HOUSES, APARTMENTS, CONDOMINIUMS)	110/BEDROOM	0.33
SINGLE FAMILY DWELLING (3 BEDROOM)	330/UNIT	1.00
SKATING RINK, DOMESTIC	5/PERSON	0.02
SKATING RINK, OPERATING FLOW	3000/RINK	9.09
SWIMMING POOL	10/PERSON	0.03
TENNIS CLUB	250/COURT	0.76
THEATER, AUDITORIUM	3/SEAT	0.01
TRAILER, DUMP STATION	50/TRAILER	0.15
WORK OR CONSTRUCTION CAMP	50/PERSON	0.15

TABLE IV-A

UNIFORM UNIT SCHEDULE

TOWN OF PEPPERELL, MASSACHUSETTS

CLASS I ACCEPTABLE WASTES

PAGE 1 OF 3

UNIFORM UNIT		1 BASE UNIT
SINGLE UNIT BASE =	330 GPD	44.12 C FT/DAY
BASED ON CAPACITY		
AND PEAK FACTORS	120,450 GPY	16,102.94C FT/YEAR
NOT AVERAGE DAILY FLOW	1,205 100 GPY	161.03/100 C FT/YR.

ESTABLISHMENT TYPE	GALLONS PER DAY	UNIT EQUIVALENT
BARBER SHOP/BEAUTY SALON	100 /CHAIR	0.30
BOARDING SCHOOLS, COLLEGES	65/PERSON	0.20
BOWLING ALLEY	100/ALLEY	0.30
CAMP, RESIDENT, WASHROOM & TOILETS	25/PERSON	0.08
CAMP, RESIDENT, MESS HALL	10/PERSON	0.03
CAMP. DAY, WASHROOM AND TOILETS	10/PERSON	0.03
CAMP, DAY, MESS HALL	3/PERSON	0.01
CAMP GROUND, SHOWERS AND TOILETS	7/SITE	0.02
CHURCH 3 /SEAT	0.01	
CHURCH, KITCHEN AT CAPACITY	5 /PERSON	0.02
COUNTRY CLUB, DINING ROOM	10 /SEAT	0.03
COUNTRY CLUB, SNACK BAR OR LUNCH ROOM	10/SEAT	0.03
COUNTRY CLUB, LOCKERS AND SHOWERS	20/LOCKER	0.06
DOG POUND, VETERINARY CLINICS	50/PEN	0.15
FACTORY OR INDUSTRIAL PLANT WITHOUT CAFETERIA	15/PERSON	0.05
FACTORY OR INDUSTRIAL PLANT WITH CAFETERIA	20/PERSON	0.06
FAMILY MOBILE HOME PARK	200/SITE	0.61
GASOLINE STATION WITH SERVICE BAYS	300/ISLAND	0.91
GYMNASIUM PER PARTICIPANT	25/	0.08
GYMNASIUM PER SPECTATOR	3/	0.01
HOSPITAL	200/BED	0.61
LOUNGE, TAVERN	35/SEAT	0.11
MOTEL, HOTEL, BOARDING HOUSE	110/BEDROOM	0.33
MULTIPLE FAMILY DWELLING	110/BEDROOM	0.33
NON-SINGLE FAMILY/		
AUTOMATIC CLOTHES WASHER	400/WASHER	1.21
NURSING HOME/REST HOME	100/BED	0.30

Section 2. Passed and adopted by the Sewer Commission, Town of Pepperell, Commonwealth of Massachusetts on the 28th day of May, 1996.

Approved this 28th day of May, 1996.

Effective May 28, 1996.

1. Payment may be made to the Tax Collector, in-full, within 30 days of billing.
 2. Taxpayer may request apportionment of assessment for a period of up to (20) twenty years, pursuant to Chapter 80, Section 13. Payment shall include interest as provided by the law.
- b. Assessments shall constitute a lien upon the land assessed. The lien shall take effect upon the recording of the order stating betterments are to be assessed for the improvements and shall be in accordance with Chapter 80, Section 12.

Section 4. Deferral of Betterment Assessment.

- a. Assessments may be deferred under the following methods:
1. Pursuant to Chapter 59, Clause 41A of Section 5 for eligible property owners over the age of 65 years.
 2. Pursuant to Chapter 80, Section 13A for land devoid of structures; extension of time for payment of assessment.
 3. Abatements Pursuant to Chapter 80, Section 5.

ARTICLE V

Section 1. Industrial Cost Allocation - Industrial connections may be charged based on the size of buildings and number of employees as listed in Table IV-A plus additional charges for costs associated with loadings to the Pepperell System beyond those permitted in the Town of Pepperell "**Regulation of Sewer Design, Construction and Use**" based on solids and organic loading for flow, suspended solids, and biochemical oxygen demand loadings or chemical oxygen demand, and any other waste which shall cause an increased loading to the Pepperell System. Such costs shall be reflective of the proportionate treatment system and sewer system capital costs designed for the acceptance and treatment of such wastes.

ARTICLE VI

WAIVERS

Section 1. The Sewer Commission shall review the calculation of assessments of parties who believe that their assessment was improperly calculated. Each request for review shall be made in writing to the Board of Sewer Commissioners, Box 31, Pepperell, MA 01463. Nothing stated in this section shall be intended to imply the Sewer Commission has the right to waive any Massachusetts General Law or State regulation referred to in this regulation.

ARTICLE VII

REGULATIONS IN FORCE

Section 1. These rules and regulations shall be in full force and effect from and after their passage, approval, recording, and publication as provided by law.

the connection of the building or buildings on the property or estate. Quarterly payments are due (30) thirty days from the date of billing.

3. Payment made after the said (30) thirty day period shall be subject to interest charges pursuant to Chapter 83, Section 16D.
4. Collection of delinquent assessments may be enforced by the Town, pursuant to Chapter 59, Section 57 and Chapter 83, Section 16D of Massachusetts General Laws.

ARTICLE IV

BETTERMENT ASSESSMENT

Section 1. Betterment Assessment;

- a. A betterment assessment shall be assessed to the owner of each building lot whenever a limited and determinable area receives benefit or advantage, other than the general advantage to the community, from the construction of a public sewer; but no such assessment shall exceed the amount of such adjudged benefit or advantage.
- b. Properties assessed under this method shall not be assessed under the sewer benefit assessment method.
- c. Assessments are determined on the cost to provide the service to the property or estate including all costs of sewers, laterals, pumping stations and treatment facilities including engineering, design, construction, appurtenances, administrative costs and borrowing, less any State and Federal Grant funds, local funds or gifts.
- d. Assessments under this regulation do not include the cost to connect a building drain to the common sewer. These costs are determined under the Usage Fee Regulation, listed under Appendix - A, "Fee Schedule" of the regulation, pursuant to Chapter 83, Section 3.
- e. The amount of the betterment assessment shall vary from property to property depending on the unit loading of each property.

Section 2. Method of Determining Assessment and the Number of Units.

- a. The betterment assessment for a building lot shall be calculated under the "uniform unit" method by multiplying the betterment assessment fee for the project area in which the property is connected, by the number of "uniform units" or equivalent "sewer units" as determined by Table IV-A of this regulation.
- b. Uses not listed under Table IV-A shall be charged assessments most comparable to those listed as determined by the Sewer Commission.

Section 3. Payment of Betterment Assessment.

- a. Assessments are to be paid under the following methods:

ARTICLE III

SEWER BENEFIT ASSESSMENT

Section 1. Sewer Benefit Assessment;

- a. A sewer benefit assessment becomes due for each building lot when the building lot, or a building under construction on the lot is connected to the existing Pepperell Sewer Service Area.
- b. Building lots assessed under this method shall not be assessed under the betterment assessment method.
- c. Assessments are determined on the cost to provide the service to the property or estate including all costs of sewers, laterals, pumping stations and treatment facilities including engineering, design, construction, appurtenances, administrative costs and borrowing, less any State and Federal Grant funds, local funds or gifts.
- d. Assessments under this regulation do not include the cost to connect a building drain to the common sewer. These costs are determined under the Usage Fee Regulation, listed under Appendix - A, "Fee Schedule" of the regulation, pursuant to Chapter 83, Section 3.
- e. The amount of the sewer benefit assessment shall vary from property to property depending on the unit loading of each property.
- f. Building lots or connections which increase the unit loading, after the initial determination of the unit loading, shall be billed for additional sewer benefit assessment proportional to the increased loading as determined by Table IV-A of this regulation.

Section 2. Method of Determining Assessment and the Number of Units.

- a. The sewer benefit assessment for a building lot shall be calculated by multiplying the sewer benefit assessment fee by the number of units as determined by Table IV-A of this regulation.
- b. Uses not listed under Table IV-A shall be charged assessments most comparable to those listed as determined by the Sewer Commission.

Section 3. Payment of Sewer Benefit Assessment.

- a. Assessments are to be paid when a property or estate is connected to the Pepperell Sewer, under the following methods:
 1. The Payment may be made at time of actual connection, in-full, by the owner of the property or estate.
 2. If payment is not made in full when the connection is made, payment may be made by equal quarterly payments beginning with the first quarterly bill cycle following

- Section 4. "Betterment Assessment" or "Special Assessment"** shall mean the assessment or tax for benefits or improvements to a building lot which may access the Pepperell Sewer System, which shall include a proportional part of the charge of making and repairing same, and of the charge, not already assessed, of making and repairing other drains and common sewers through which the same discharges, pursuant to Chapter 80, Chapter 80A, and Chapter 83, Section 15.
- Section 5. "Uniform Unit" or "Sewer Unit"**, for use in this regulation, shall be based on the peak loading of 330 gallons per day from a single family, 3 bedroom home, as defined in the State Environmental Code (Title V). Table IV-A, of this regulation, lists equivalent loadings for facilities other than a single family home.
- Section 6. "Fixed Uniform Rate"** shall mean the average cost per frontage foot or land area of property, or estate to be served by a particular sewer, including all costs of design, construction, appurtenances, administration and borrowing to be used to determine a betterment assessment.
- Section 7. "Connect" and "Connection"** shall mean the actual permanent joining of a property's building drain and building sewer to the Pepperell Sewer.
- Section 8. "Building Lot"** shall mean an area of land under one ownership, with definite boundaries which is or may be improved with one or more buildings subject to the Town of Pepperell Zoning Bylaw.
- Section 9. "High Strength Waste"** shall mean wastes which introduce loadings into the common sewer or treatment plant in excess of concentration limits established by the Commonwealth of Massachusetts, Department of Environmental Protection and the Town of Pepperell Regulation of Sewer Design, Construction and use.

ARTICLE I

PURPOSE OF REGULATION

Section 1. General

- a. The purpose of the Regulation For Payment Of Wastewater System Costs is to provide a means for the Town of Pepperell, acting through the Sewer Commission, to pay the expenses associated with constructing collecting sewers, interceptor sewers, pumping stations, force mains and system appurtenances, to serve the Pepperell Sewer Service Area.
- b. The regulation is intended to provide a fair and equitable means for establishing a sewer benefit or betterment assessment for properties within the Pepperell Sewer Service Area, and for properties abutting the Pepperell Sewer, pursuant to Chapter 80 and Chapter 83, Section 14 and 15 of the General Laws of the Commonwealth of Massachusetts.
- c. Properties which abut the existing Pepperell Sewer, which has not been fun
- d. Properties to be serviced by future extensions of the Pepperell Sewer shall be assessed by the Betterment or Special Assessment method.

ARTICLE II

DEFINITIONS

Section 1. General

For the purpose of these regulations the following words and terms used herein are hereby defined or the meaning thereof explained. Other words or terms and phrases not defined herein shall be construed according to the common and approved usage of the language, but technical words, terms and phrases which may have acquired a particular and appropriate meaning in law shall be construed and understood according to such meaning. The definitions contained in Article II of the "Usage Fee Regulations" and those contained in Article I of "Regulation of Sewer Design, Construction, and use" are hereby incorporated herein.

Section 2. "Pepperell Sewer Area" shall mean the area of the Town of Pepperell provided with public and private sewers which connect to the Pepperell Wastewater Treatment Plant and appurtenant works which exist in public ways and private lands within the Town of Pepperell and connections to same system by means of an approved permit authorized by the Pepperell Sewer Commission or it's authorized agent.

Section 3. "Sewer Benefit Assessment Fee" shall mean the fee, established by the Sewer Commission, which the Town of Pepperell will assess a person who enters his particular drain into a main drain or common sewer, or who by more remote means receives benefit thereby for draining his land or buildings, shall pay to the Town a proportional part of the cost of making and repairing the same, and of the charge, not already assessed, of making and repairing other main drains and common sewers through which the same discharges, pursuant to Chapter 83, Section 14.

REGULATION FOR PAYMENT OF WASTEWATER SYSTEM COSTS

DATED:
EFFECTIVE:

RULES REGULATING THE ESTABLISHMENT AND COLLECTION OF ONE-TIME SEWER BENEFIT ASSESSMENTS OR BETTERMENT ASSESSMENTS TO PAY A PORTION OF THE CAPITAL COSTS OF THE CONSTRUCTION OF THE WASTEWATER SYSTEM SERVING THE PEPPERELL SEWER SERVICE AREA: THESE RULES ADOPTED BY THE SEWER COMMISSION IN THE TOWN OF PEPPERELL, COUNTY OF MIDDLESEX, COMMONWEALTH OF MASSACHUSETTS, PURSUANT TO CHAPTER 80, CHAPTER 80A, AND CHAPTER 83, SECTIONS 14 AND 15, OF THE GENERAL LAWS OF THE COMMONWEALTH OF MASSACHUSETTS.

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