**Comm 83 Appendix** 

## **Chapter Comm 83**

### **APPENDIX**

The material and information contained in this appendix is for clarification purposes only. Appendix material and information are numbered to correspond to the rule number as it appears in the text of the code. Material and information included in this appendix is subject to change without notice, including names, addresses, phone numbers and forms, and reflects information known at the time of publication.

A-83.21 (3) PROCESSING. The specific format of a sanitary permit application is specified by the department and may change depending on the data tracking needs of the department. The uniform application form issued by the department is to be used by all permit issuing agents. It may consist of a paper or electronic format, or both. The sanitary permit application form will require the applicant to report information pertinent to the ownership, use, location, system type, maintenance schedule, and responsible installer. Additionally, plans and specifications for the project must also be submitted with, and are part of, the permit application. Fees for the sanitary permit are based on a statutory minimum as cited in s. 145.19 (2), Wis. Stats., and any additional costs levied by the issuing agent.

The state sanitary permit is issued when evidence and documentation is presented by the owner of the property that minimum code standards have been or will be met.

Register July 2010 No. 655

COUNTY	NO
STATE SANIT	ARY PERMIT
TRANSFER/RENEWAL	PREVIOUS NO
OWNER	CHAPTER 145.135 (2) WISCONSIN STATUTES  (a) The purpose of the sanitary permit is to allow installation
PLUMBERLIC.#	of the private sewage system described in the permit.  (b) The approval of the sanitary permit is based on regulations in force on the date of approval.  (c) The sanitary permit is valid and may be renewed for a specified period.  (d) Changed regulations will not impair the validity of a
TOWN OF SEC,TN, RE/W	sanitary permit.  (e) Renewal of the sanitary permit will be based on regulations in force at the time renewal is sought, and that changed regulations may impede renewal.  (f) The sanitary permit is transferable.  History: 1977 c. 168; 1979 c. 34,221; 1981 c. 314
AND/OR LOTBLOCKSUB	Note: If you wish to renew the permit, or transfer ownership of the permit, please contact the county authority.
AUTHORIZED ISSUI	NG OFFICER – DATE
THIS PERMIT EXPIRES U	NLESS RENEWED BEFORE THAT DATE
POST IN PL	AIN VIEW
VISIBLE FROM THE ROAD FRONTING	THE LOT DURING CONSTRUCTION

SBD-06499 (R. 7/00)

Chapter 145 Wisconsin Statutes provides some direction as to the issuance of sanitary permits as follows:

### 145.135 Sanitary permits.

- (1) Validity. In this section, "sanitary permit" means a permit issued by the department or any governmental unit responsible for the regulation of private sewage systems for the installation of a private sewage system. No person may install a private sewage system unless the owner of the property on which the private sewage system is to be installed holds a valid sanitary permit. A sanitary permit is valid for 2 years from the date of issue and renewable for similar periods thereafter. A governmental unit responsible for the regulation of private sewage systems may not charge more than one fee for a sanitary permit or the renewal of a sanitary permit in any 12-month period. A sanitary permit shall remain valid to the end of the established period, notwithstanding any change in the state plumbing code or in any private sewage system ordinance during that period. A sanitary permit may be transferred from the holder to a subsequent owner of the land, except that the subsequent owner must obtain a new copy of the sanitary permit from the issuing agent. The results of any percolation test or other test relating to the disposal of liquid domestic wastes into the soil shall be retained by the governmental unit responsible for the regulation of private sewage systems where the property is located. The governmental unit responsible for the regulation of private sewage systems shall make the test results available to an applicant for a sanitary permit and shall accept the test results as the basis for a sanitary permit application unless the soil at the test site is altered to the extent that a new soil test is necessary.
- (2) Notice. A sanitary permit shall include a notice displayed conspicuously and separately on the permit form, to inform the permit holder that:
- (a) The purpose of the sanitary permit is to allow installation of the private sewage system described in the permit.
- (b) The approval of the sanitary permit is based on regulations in force on the date of approval.
- (c) The sanitary permit is valid and may be renewed for a specified period.
- (d) Changed regulations will not impair the validity of a sanitary permit.
- (e) Renewal of the sanitary permit will be based on regulations in force at the time renewal is sought, and that changed regulations may impede renewal.
- (f) The sanitary permit is transferable.

### 145.19 Sanitary permit.

- (1) Requirement; information; forms. No septic tank may be purchased and no private sewage system may be installed unless the owner of the property on which the private sewage system is to be installed holds a valid sanitary permit from the governmental unit responsible for the regulation of private sewage systems in which the property is located. The department shall prescribe the information to be included in the sanitary permit and furnish sanitary permit forms to the governmental unit. The applicant shall submit the completed sanitary permit to the governmental unit. The governmental unit shall approve or disapprove the sanitary permit according to the rules promulgated by the department under this chapter. No person may sell at retail, as defined under s. 100.201 (1) (d), a septic tank for installation in this state unless the purchaser holds a valid sanitary permit issued under this section.
- (2) Fee. No fee for a sanitary permit may be less than \$61, or the amount determined under department rule. The governing body for the governmental unit responsible for the regulation of private sewage systems may establish a fee for a sanitary permit which is more than \$61, or the amount determined under department rule.
- (3) Copy of permit forwarded to the department. The governmental unit responsible for the regulation of private sewage systems shall forward a copy of each valid sanitary permit and \$20, or the amount determined under department rule, of the fee to the department within 90 days after the permit is issued.
- (4) Use of fee. The portion of this fee retained by the governmental unit responsible for the regulation of private sewage systems shall be used for the administration of private sewage system programs.
- (5) Fee adjustment. The department, by rule promulgated under ch. 227, may adjust the minimum permit fee under sub. (2) and the fee portion forwarded under sub. (3).
- (6) Groundwater fee. In addition to the fee under sub. (2), the governmental unit responsible for the regulation of private sewage systems shall collect a groundwater fee of \$25 for each sanitary permit. The governmental unit shall forward this fee to the department together with the copy of the sanitary permit and the fee under sub. (3). The moneys collected under this subsection shall be credited to the environmental fund for environmental management.
- A-83.22 (3) PLAN REVIEW PROCESS. All proposed POWTS installations require plan review prior to sanitary permit issuance. Projects subject to department review include all projects under Table 83.22-1, and many of the projects under Table 83.22–2. Designated agents may review projects included in Table 83.22–2.

A-83.25 (2) ISSUANCE OF BUILDING PERMITS. A building permit is defined in s. Comm 81.01 (43), Wis. Adm. Code, as any written permission from a municipality that allows construction to commence on a structure. In effect, this means that land use and zoning permits, as well as other similar permits that constitute permission to construct are considered building permits.

Prior to building permit issuance, the issuing agent has a statutory responsibility, under s. 145.195, Wis. Stats., to consider whether or not the proposed structure requires connection to a private onsite wastewater treatment system (POWTS), or if the construction will interfere with the operation of an existing POWTS.

Section 145.195, Stats. Building on unsewered property. (1) No county, city, town or village may issue a building permit for construction of any structure requiring connection to a private domestic sewage treatment and disposal system unless a system satisfying all applicable regulations already exists to serve the proposed structure or all permits necessary to install such a system have been obtained.

(2) Before issuing a building permit for construction on any structure on property not served by a municipal sewage treatment plant, the county, city, town or village shall determine that the proposed construction does not interfere with a functioning private domestic sewage treatment and disposal system. The county, city, town or village may require building permit applicants to submit a detailed plan of the owner's existing private domestic sewage treatment and disposal system.

A-83.25 (2) (f) Setbacks. Horizontal setbacks from encumbrance for new POWTS installations are in conformance with Table Comm 83.43-1 or the rules in effect at the time the system was installed, which ever is less. For setback distances associated with previous administrative codes refer to the previous code issue or the following table.

10/01/08		Code Comparison - POWTS Code Setback En							etback Encu	umbrances (ft)							
	Vertical S	eparation				Horizont	al Separatio	on			Horizontal Separation						
	SA					oil Absorpt		<u>, , , , , , , , , , , , , , , , , , , </u>						reatment Ta			
Effective	Ground-	Bedrock	Well	Lake <sup>b</sup>	Cistern	Building	Lot Line	Swimming	Water	Public	Well	Lake <sup>c</sup>	Cistern	Building	Lot Line	Swimming	Water
Date	water							Pool	Service	W Main						Pool	Service
2/1/04	2/3/5	2/3/5	50	50 <sup>m</sup>		10	5	15	10	25 <sup>n</sup>	25	10 <sup>m</sup>		5	2	0	10
7/1/00	2/3/5/10	2/3/5/10	50	50 <sup>m</sup>		10	5	15	10	25 <sup>n</sup>	25	10 <sup>m</sup>		5	2	0	10
3/1/97	3/6 <sup>k</sup>	3/6 <sup>k</sup>	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	5	10
3/1/94	3/6 <sup>k</sup>	3/6 <sup>k</sup>	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	5	10
3/1/92	3/6 <sup>k</sup>	3/6 <sup>k</sup>	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	5	10
7/1/91	3/6 <sup>k</sup>	3/6 <sup>k</sup>	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	5	10
10/1/85	3	3	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	15	10
7/1/83	3	3	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	15	10
1/1/81	3	3	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	15	10
6/21/80	3	3	50	50	25	25/15/10 <sup>h</sup>	5	15	10	25	25	25	10	5	2	15	10
2/1/79	3	3	50	50	25	25/10 <sup>1</sup>	5	25/15 <sup>j</sup>	10	25	25	25	10	5	2	25	10
8/1/77	3 <sup>d</sup>	3 <sup>d</sup>	50	50	25	25/10 <sup>i</sup>	5	25/15 <sup>j</sup>	10	25	25	25	10	5	2	25	?
8/1/76	3 <sup>d</sup>	3 <sup>d</sup>	50	50	25	25/10 <sup>i</sup>	5	25/15 <sup>j</sup>	10	25	25	25	10	5	2	25	?
12/1/72	3	3	50	50	25	25	5	50	25		25	25	10	5	2	25	?
11/1/71	3	3	50	50	25	25	5	50	25		25	25	10	5	2	25	?
12/1/69	3	3	50	50	25	25	5	50	25		25	25	10	5	2	25	?
3/1/63		O <sup>e</sup>	50	25	25	25 <sup>9</sup>	5				25		10		2		
5/1/62		O <sup>e</sup>	50	25	25	25 <sup>9</sup>	5				25		10		2		
3/1/57		O <sup>e</sup>	50	25	25	25 <sup>9</sup>	5				25		10		2		
9/1/54		O <sup>e</sup>	50	25	50	50 <sup>9</sup>	5				25		10		2		
1948			50	25	50	50 <sup>9</sup>					25		10		2		
1941			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10		2		
1937			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10		2		
1932			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10		2		
1925			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10		2		
1917			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10		2		
1916			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10		2		
1914			150 <sup>f</sup>		50	50 <sup>9</sup>					25		10	10	2		
Effective Date	Ground- water	Bedrock	Well	Lake <sup>b</sup>	Cistern	Building	Lot Line	Swimming Pool	Water Service	Public W Main	Well	Lake <sup>c</sup>	Cistern	Building	Lot Line	Swimming Pool	Water Service

Footnotes:

- a. Includes water-tight cesspools, sewage tanks, septic tanks, dosing chambers.
- b. Lake category includes lakes, streams or other watercourses.
- c. Lake category includes lakes, streams, rivers, ponds, flowages and reservoirs.
- d. The code required 5 feet of soil over GW or BR. It is assumed that a 3 foot separation was maintained.
- e. Seepage pits shall not extend into creviced rock formations.
- f. May be reduced to 50 feet if well is drilled and cased to 100 ft.
- g. Means a dwelling.
- h. Refers to habitable or occupied bldg with below grade foundation/habitable bldg on slab/uninhabited bldg on slab.
- I. Refers to habitable buildings/uninhabited buildings.
- j. Refers to below ground/above ground swimming pools.
- k. Refers to normal soil/very coarse textured soil.
- 1. Distance listed is an example typical for residential application. Code references NR 811 and NR 812.
- m. Code references Ordinary High Water Mark (OHWM) of navigable waters
- n. Distance listed is an example of a typical setback. Code references NR 811.

A-83.43 (6) COMMERCIAL FACILITIES. Table A-83.43-1 may be used to estimate wastewater flows from a commercial building.

Table A-83.43-1 **Public Facility Wastewater Flows** 

Source   Unit   Betimated Wastew Flow (gpd)	Public Facility Wastewater Flows					
Assembly hall (no kitchen)	Source	Unit	Estimated Wastewater Flow (gpd)			
Bar or cocktail lounge (no meals served) Bar or cocktail lounge* (w/meals – all paper service) Bar or cocktail lounge* (w/meals – all paper service) Patron (10 sq. ft/patron) Beauty salon Station Bowling alley Bowling alley Bowling alley (with bar) Bowling lane Bowling	Apartment or Condominium	Bedroom	100			
Bar or cocktail lounge* (w/meals – all paper service) Beauty salon Bowling alley Bowling lane Bowling	Assembly hall (no kitchen)	Person (10 sq. ft./person)	1.3			
Beauty salon Bowling alley Bowling alley Bowling alley (with bar) Camp, day and night Person Camp, day use only (no meals served) Person Campground or Camping Resort Camping alley Camping and or Camping Resort Camping and or Camping Resort Camping and or Camping Resort Camping and sanitary dump station Camping unit or RV Space, with sewer connection and/or service building Camping unit or RV Served Catch basin Basin 65 Church (no kitchen) Person 2 Church* (with kitchen) Person 5 Dance hall Person (10 sq. ft./person) 2 Day care facility (no meals prepared) Child 12 Day care facility (with meal preparation) Child Dining hall* (kitchen waste only without dishwasher and/or food waste grinder) Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder) Drive-in restaurant* (all paper service with inside seating) Drive-in theater Employees (total all shifts) Floor drain (not discharging to catch basin) Camping all* Death or the same of	Bar or cocktail lounge (no meals served)	Patron (10 sq. ft./patron)	4			
Bowling alley   Bowling lane   Bowling lane   Bowling alley (with bar)   Bowling lane   I50	Bar or cocktail lounge* (w/meals – all paper service)	Patron (10 sq. ft./patron)	8			
Bowling alley (with bar)   Bowling lane   150	Beauty salon	Station	90			
Camp, day and night	Bowling alley	Bowling lane	80			
Camp, day use only (no meals served)     Person     10       Campground or Camping Resort     Space, with sewer connection and/or service building     30       Campground sanitary dump station     Camping unit or RV served     25       Catch basin     Basin     65       Church (no kitchen)     Person     2       Church* (with kitchen)     Person     5       Day care facility (no meals prepared)     Child     12       Day care facility* (with meal preparation)     Child     16       Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)     Meal served     2       Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)     Meal served     5       Drive-in restaurant* (all paper service with inside seating)     Patron seating space     10       Drive-in restaurant* (all paper service without inside seating)     Patron seating space     10       Drive-in theater     Vehicle space     3       Employees (total all shifts)     Employee     13       Floor drain (not discharging to catch basin)     Drain     25       Gas station (with service bay)     Patron     3       Patron     3     Service bay     50       Hospital*     Bed space     135       Hotel, motel or tourist rooming house     Room     65	Bowling alley (with bar)	Bowling lane	150			
Camp, day use only (no meals served)     Person     10       Campground or Camping Resort     Space, with sewer connection and/or service building     30       Campground sanitary dump station     Camping unit or RV served     25       Catch basin     Basin     65       Church (no kitchen)     Person     2       Church* (with kitchen)     Person     5       Dance hall     Person (10 sq. ft./person)     2       Day care facility (no meals prepared)     Child     12       Day care facility* (with meal preparation)     Child     16       Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)     Meal served     2       Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)     Meal served     5       Drive-in restaurant* (all paper service with dishwasher and/or food waste grinder)     Patron seating space     10       Drive-in restaurant* (all paper service with inside seating)     Patron seating space     10       Drive-in restaurant* (all paper service without inside seating)     Vehicle space     3       Employees (total all shifts)     Employee     13       Floor drain (not discharging to catch basin)     Drain     25       Gas station (with service bay)     Patron     3       Gas station (with service bay)     Patron     3       Servic	Camp, day and night	Person	25			
Campground or Camping Resort  Campground sanitary dump station  Camping unit or RV served  Catch basin  Camping unit or RV served  Catch basin  Camping unit or RV served  Catch basin  Basin  65  Church (no kitchen)  Person  2  Church* (with kitchen)  Person  Dance hall  Person (10 sq. ft./person)  Day care facility (no meals prepared)  Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)  Drive-in restaurant* (all paper service with inside seating)  Drive-in restaurant* (all paper service without inside seating)  Drive-in theater  Employees (total all shifts)  Floor drain (not discharging to catch basin)  Gas station / convenience store  Patron  Service bay  Patron  Service bay  Patron  Service bay  Patron  Service bay  Potron  Office personnel  Person  Office personnel		Person	10			
Catch basin Basin 65 Church (no kitchen) Person 2 Church* (with kitchen) Person 5 Dance hall Person (10 sq. ft/person) 2 Day care facility (no meals prepared) Child 12 Day care facility* (with meal preparation) Child 16 Dining hall* (kitchen waste only without dishwasher and/or food waste grinder) Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder) Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder) Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder) Drive-in restaurant* (all paper service with inside seating) Drive-in restaurant* (all paper service without inside seating) Drive-in theater Vehicle space 3 Employees (total all shifts) Employee 13 Floor drain (not discharging to catch basin) Drain 25 Gas station / convenience store Patron 3 Gas station / convenience store Patron 3 Service bay Service bay 50 Hospital* Bed space 135 Medical office building Doctors, nurses, medical staff Person 50 Office personnel Person 50 Office personnel Person 13 Patients	Campground or Camping Resort	connection and/or service	30			
Church (no kitchen)     Person     2       Church* (with kitchen)     Person     5       Dance hall     Person (10 sq. ft./person)     2       Day care facility (no meals prepared)     Child     12       Day care facility* (with meal preparation)     Child     16       Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)     Meal served     2       Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)     Meal served     5       Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)     Meal served     7       Drive-in restaurant* (all paper service with inside seating)     Patron seating space     10       Drive-in restaurant* (all paper service without inside seating)     Vehicle space     10       Drive-in theater     Vehicle space     3       Employees (total all shifts)     Employee     13       Floor drain (not discharging to catch basin)     Drain     25       Gas station (with service bay)     Patron     3       Patron     3     Service bay     50       Hospital*     Bed space     135       Hotel, motel or tourist rooming house     Room     65       Medical office building Doctors, nurses, medical staff     Person     50       Office personnel     Person     6.5 </td <td>Campground sanitary dump station</td> <td></td> <td>25</td>	Campground sanitary dump station		25			
Church* (with kitchen)     Person     5       Dance hall     Person (10 sq. ft./person)     2       Day care facility (no meals prepared)     Child     12       Day care facility* (with meal preparation)     Child     16       Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)     Meal served     2       Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)     Meal served     5       Drive-in restaurant* (all paper service with inside seating)     Patron seating space     10       Drive-in restaurant* (all paper service without inside seating)     Vehicle space     10       Drive-in theater     Vehicle space     3       Employees (total all shifts)     Employee     13       Floor drain (not discharging to catch basin)     Drain     25       Gas station / convenience store     Patron     3       Gas station (with service bay)     Patron     3       Patron     3     Service bay     50       Hospital*     Bed space     135       Hotel, motel or tourist rooming house     Room     65       Medical office building     Poctors, nurses, medical staff     Person     50       Office personnel     Person     6.5	Catch basin	Basin	65			
Church* (with kitchen)     Person     5       Dance hall     Person (10 sq. ft./person)     2       Day care facility (no meals prepared)     Child     12       Day care facility* (with meal preparation)     Child     16       Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)     Meal served     2       Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)     Meal served     5       Drive-in restaurant* (all paper service with inside seating)     Patron seating space     10       Drive-in restaurant* (all paper service without inside seating)     Vehicle space     10       Drive-in theater     Vehicle space     3       Employees (total all shifts)     Employee     13       Floor drain (not discharging to catch basin)     Drain     25       Gas station / convenience store     Patron     3       Gas station (with service bay)     Patron     3       Patron     3     Service bay     50       Hospital*     Bed space     135       Hotel, motel or tourist rooming house     Room     65       Medical office building     Poctors, nurses, medical staff     Person     50       Office personnel     Person     6.5	Church (no kitchen)	Person	2			
Day care facility (no meals prepared)  Day care facility* (with meal preparation)  Child  Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Drive—in restaurant* (all paper service with inside seating)  Drive—in restaurant* (all paper service without inside seating)  Drive—in theater  Employees (total all shifts)  Employee (total all shifts)  Floor drain (not discharging to catch basin)  Gas station / convenience store  Patron  Gas station (with service bay)  Patron  Patron  Service bay  Patron  Bed space  135  Hotel, motel or tourist rooming house  Medical office building  Doctors, nurses, medical staff  Person  Person  13  Person  6.5	Church* (with kitchen)	Person	5			
Day care facility (no meals prepared)  Day care facility* (with meal preparation)  Child  Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Drive—in restaurant* (all paper service with inside seating)  Drive—in restaurant* (all paper service without inside seating)  Drive—in theater  Employees (total all shifts)  Employee (total all shifts)  Floor drain (not discharging to catch basin)  Gas station / convenience store  Patron  Gas station (with service bay)  Patron  Patron  Service bay  Patron  Bed space  135  Hotel, motel or tourist rooming house  Medical office building  Doctors, nurses, medical staff  Person  Person  13  Person  6.5	Dance hall	Person (10 sq. ft./person)	2			
Day care facility* (with meal preparation)  Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Drive—in restaurant* (all paper service with inside seating)  Drive—in restaurant* (all paper service without inside seating)  Drive—in theater  Vehicle space  10  Employees (total all shifts)  Employees (total all shifts)  Floor drain (not discharging to catch basin)  Gas station (with service bay)  Patron  Service bay  Patron  Service bay  Hospital*  Hotel, motel or tourist rooming house  Meal served  5  Meal served  7  Weal served  7  Weal served  5  Weal served  7  Weal served  10  Seating Space  10  Seating	Day care facility (no meals prepared)		12			
Dining hall* (kitchen waste only without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste without dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)  Drive—in restaurant* (all paper service with inside seating)  Drive—in restaurant* (all paper service without inside seating)  Drive—in theater  Employees (total all shifts)  Floor drain (not discharging to catch basin)  Gas station / convenience store  Patron  Gas station (with service bay)  Patron  Patron  Service bay  Hospital*  Bed space  13  Person  Person  Person  13  Person  P		Child	16			
washer and/or food waste grinder)Meal served7Dining hall* (toilet and kitchen waste with dishwasher and/or food waste grinder)Meal served7Drive-in restaurant* (all paper service with inside seating)Patron seating space10Drive-in restaurant* (all paper service without inside seating)Vehicle space10Drive-in theaterVehicle space3Employees (total all shifts)Employee13Floor drain (not discharging to catch basin)Drain25Gas station / convenience storePatron3Gas station (with service bay)Patron3PatronService bay50Hospital*Bed space135Hotel, motel or tourist rooming houseRoom65Medical office buildingPerson50Office personnelPerson50Office personnelPerson13PatientsPerson6.5	Dining hall* (kitchen waste only without dishwasher	Meal served	2			
washer and/or food waste grinder)Patron seating space10Drive-in restaurant* (all paper service with inside seating)Vehicle space10Drive-in restaurant* (all paper service without inside seating)Vehicle space3Drive-in theaterVehicle space3Employees (total all shifts)Employee13Floor drain (not discharging to catch basin)Drain25Gas station / convenience storePatron3Gas station (with service bay)Patron3PatronService bay50Hospital*Bed space135Hotel, motel or tourist rooming houseRoom65Medical office building Doctors, nurses, medical staffPerson50Office personnelPerson13PatientsPerson6.5		Meal served	5			
seating)  Drive—in restaurant* (all paper service without inside seating)  Drive—in theater  Vehicle space  Inside seating)  Drive—in theater  Vehicle space  Imployees (total all shifts)  Employees (total all shifts)  Floor drain (not discharging to catch basin)  Gas station / convenience store  Patron  Gas station (with service bay)  Patron  Service bay  Patron  Service bay  Patron  Service bay  Bed space  Inside spac		Meal served	7			
inside seating)  Drive—in theater  Drive—in theater  Employees (total all shifts)  Employee (total all shifts)  Floor drain (not discharging to catch basin)  Gas station / convenience store  Patron  Gas station (with service bay)  Patron  Service bay  Patron  Service bay  Hospital*  Bed space  135  Hotel, motel or tourist rooming house  Medical office building  Doctors, nurses, medical staff  Office personnel  Person  Person  13  Person  65	· • • •	Patron seating space	10			
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Gas station / convenience store         Patron         3           Gas station (with service bay)         Patron         3           Patron         Patron         3           Service bay         50         50           Hospital*         Bed space         135           Hotel, motel or tourist rooming house         Room         65           Medical office building         Person         50           Doctors, nurses, medical staff         Person         50           Office personnel         Person         13           Patients         Person         6.5	Employees (total all shifts)	Employee	13			
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ingrant faction camp (contrar damicase)   Employee   20						
Mobile Home (Manufactured home) (served by its own POWTS)  Bedroom  100	Mobile Home (Manufactured home) (served by its	± •				
Mobile home park Mobile home site 200		Mobile home site	200			

# Table A-83.43-1 (Continued) Public Facility Wastewater Flows

Source	Unit	Estimated Wastewater Flow (gpd)		
Nursing, Rest Home, Community Based Residential Facility	Bed space	65		
Outdoor sport facilities (toilet waste only)	Patron	3.5		
Parks (toilets waste only)	Patron (75 patrons/acre)	3.5		
Parks (toilets and showers)	Patron (75 patrons/acre)	6.5		
Public shower facility	Shower taken	10		
Restaurant*, 24-hr. (dishwasher and/or food waste grinder only)	Patron seating space	4		
Restaurant*, 24-hr. (kitchen waste only without dishwasher and/or food waste grinder)	Patron seating space	12		
Restaurant, 24-hr. (toilet waste)	Patron seating space	28		
Restaurant*, 24-hr. (toilet and kitchen waste without dishwasher and/or food waste grinder)	Patron seating space	40		
Restaurant*, 24-hr. (toilet and kitchen waste with dishwasher and/or food waste grinder)	Patron seating space	44		
Restaurant* (dishwasher and/or food waste grinder only)	Patron seating space	2		
Restaurant* (kitchen waste only without dishwasher and/or food waste grinder)	Patron seating space	6		
Restaurant (toilet waste)	Patron seating space	14		
Restaurant* (toilet and kitchen waste without dishwasher and/or food waste grinder)	Patron seating space	20		
Restaurant* (toilet and kitchen waste with dishwasher and/or food waste grinder)	Patron seating space	22		
Retail store	Patron (70% of total retail area ÷ 30 sq. ft. per patron)	1		
School* (with meals and showers)	Classroom (25 students/ classroom)	500		
School* (with meals or showers)	Classroom (25 students/ classroom)	400		
School (without meals or showers)	Classroom (25 students/ classroom)	300		
Self-service laundry (toilet waste only)	Clothes washer	33		
Self-service laundry (with only residential clothes washers)	Clothes washer	200		
Swimming pool bathhouse	Patron	6.5		

<sup>\* =</sup> May be high strength waste

A-83.43 (6) (a). Actual meter readings may be used to calculate the combined estimated design wastewater flow from a dwelling. To calculate the estimated design wastewater flow use the following formula and compare the answer to the peak metered flow. Choose the larger of the two estimated design flows.

(total meter flow/number of readings)(1.5) = estimated design wastewater flow

The frequency of meter readings should be daily for commercial.

A–83.43 (6) (b) A detailed per capita and per function flow may be established for commercial facilities. The per function flow ratings shall be substantiated by manufactures data of the per function flow and detailed use data from the facility in question or a similar facility under similar conditions of use. Estimated design wastewater flow shall be at least 1.5 times the total estimated daily flow calculated from the per capita and per function flow information.

## A-83.43 (7) ESTIMATING CONTAMINANT LOADS

Pathogenic contaminant load may be estimated based on data collected by a reputable testing or research facility.

### Typical Data on the Unit Loading Factors and Expected Wastewater **Contaminant Loads from Individual Residences**

Contaminant	Unit Loading Factor	Value					
	lb/capita per day	Unit	Range	Typical			
$BOD_5$	0.180	mg/L	216-540	392			
SS	0.200	mg/L	240-600	436			
NH3 as N	0.007	mg/L	7–20	14			
Org. N as N	0.020	mg/L	24-60	43			
TKN as N	0.027	mg/L	31–80	57			
Org P as P	0.003	mg/L	4–10	7			
Inorg. P as P	0.006	mg/L	6–17	12			
Grease		mg/L	45–100	70			
Total Coliform		cfu/100mL	10 <sup>7</sup> -10 <sup>10</sup>	10 <sup>8</sup>			

## A-83.43 (8) (g) ANCHORING SYSTEM COMPONENTS.

The anchoring of components to counter buoyant forces due to saturated soil conditions can be determined using the following formula:

Weight of the component plus the weight of the anchor

1.5 times (volume of water the component displaces) times [the weight of water (62.4 pounds/cubic foot at 39°F)]