











Section IV Design Flows
*Strength and nature of the wastewater must be taken into consideration
*Strong
*Medium
*Weak
Table No. 7
(Restaurants, Residential Institutions, High Strength/Problematic Sewage)
Table No. 8
(Other nonresidential buildings, Non- problematic sewage) 7



Table 4	
Building Type	Design Flow (GPD
Schools, per pupil	
Base Flow (Excludes Kitchen & Showers)	
High School	12
Junior High Middle School	9
Kindergarten Elementary School	8
Day Care Center	10
Additional Flows for Kitchen & Showers	
Kitchen (Table 7 Ap. Rate)	3
Showers	3
Residential	100
Commercial Buildings**	
Office (Average 200 sq. fl. gross area/person), per employee	20
Retail/Supermarket Building*, per sq. ft. gross area	0.1
*Supermarkets shall increase design flow to account for delis and bakeries	
Deli and bakery flow: (Table 7 Ap. Rate)	
Industrial Building, per sq. ft. of gross area	0.1
Factory (Average 200 sq. ft. gross area/person), per employee	25
(Add 10 GPD for showers)	
**Design flows may be reduced if documentation (building/floor plans,	
statement of use, etc.) supports the reduction	



* Table 4 (pgs. 22-23)		
Miscellaneous		
Auto Service Station, per car serviced Salon, (Table 7 App. Rate)	5	
Per styling chair/station (hair)	200	
Per pedicure chair/spa (5 gallon maximum basin)	100	
Per manicure chair/station	50	
Barber Shop, per chair	50	
Dental/Medical Office with Examination Rooms, per SF of gross area	0.2	
Dog Kennel, per run (Roof shall be provided) (Table 7 App. Rate)	25	
Pet Grooming, per station (Table 7 App. Rate)	250	
Laundromat (Non-DEEP Regulated), per machine (Table 7 App. Rate)	400	
Motel (Transient, No Food Service, Kitchenette or Laundry Facilities), per room	75	
Motel (Transient, With Kitchenette but no Laundry Facilities),	100	
per room		
Marina (Bath-house & Showers Provided), per boat slip	20	
	1	1



)	*Design Flows Se	ection IV
Fx	ample calculations using Tal	ble 4
LA	ample calculations asing fa	
* 2	00 student middle school with showers	s no kitchen
4	Student middle School with shower.	
	Table 4	
	Building Type	Design Flow (GPD)
	Schools per pupil	
	Base Flow (Excludes Kitchen & Showers)	
	High School	12
	Junior High/Middle School	
	Kindergarten/Elementary School	8
	Day Care Center	10
	Additional Flows for Kitchen & Showers	
	Kitchen (Table 7 Ap. Rate)	
	Showers	
	Residential	100
	Commercial Buildings**	
	Office (Average 200 sq. ft. gross area/person), per employee	20
	Retail/Supermarket Building*, per sq. ft. gross area	0.1
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	Deli and bakery flow: (Table 7 Ap. Rate)	
	Industrial Building, per sq. ft. of gross area	0.1
	Factory (Average 200 sq. ft. gross area/person), per employee	25
	(Add 10 GPD for showers)	
	**Design flows may be reduced if documentation (building/floor plans,	



Calculations	
10,000 Square Foot (Sq. Ft.) Offic Commercial Building**	ce Building
Office (Average 200 sq. ft. gross area/person), per employee	
Retail/Supermarket Building*, per sq. ft. gross area	0.1
*Supermarkets shall increase design flow to account for delis and bakeries	
Deli and bakery flow: (Table / Ap. Kate)	0.1
Eactory (Average 200 so, B, gross area/person), per employee	25
(Add 10 GPD for showers)	23
**Design flows may be reduced if documentation (building/floor plans, statement of use, etc.) supports the reduction	
10,000/200 per employee = 50 en 50 employees x 20 GPD = 1,000	mployees) GPD 15



Calculations	
100 Seat restaurant serving lunch and dinne	er w/ toilets
Restaurants, Food Service Establishments and Bars (Table 7 Ap. Rate) Restaurant (Public toilets provided), per seat Restaurant (No public toilets), per seat "Design flow shall be increased by 50% if breakfast, lunch & dinner are provided Take-out Food Service, per meal served Bar/Cocktail Lounge (No meals), per seat (Table 8 Ap. Rate)	30) 20* 5 15
100 seats x 30 GPD per seat = 3,000 GF	Ō
	17



Reference * Calculations
*5 area McD's Restaurants approximately the same size, number of seats, and hours of operation *Average daily flows: *2,250 GPD *2,600 GPD *1,955 GPD *1,800 GPD *2,475 GPD
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