

Chemical feed equipment shall be provided to maintain adequate alkalinity concentrations and a pH level between 7.2 and 8.4 where the ratio of ammonia to available alkalinity in the wastewater requires its use.

E) Post-Process Settling

Settling tanks following nitrifying fixed growth systems shall be provided and designed in accordance with Subpart G. A single unit will be allowed if the applicable BOD and suspended solids effluent limitations can be met and other serious operational problems will not occur when the clarifier is temporarily out of service.

(Source: Amended at 21 Ill. Reg. 12444, effective August 28, 1997)

<BSection 370.APPENDIX A Table No. 1 - Resident Occupancy Criteria>>

<PResidence Type>>	<PNumber of Persons>>
Efficiency or Studio Apartment	1
1 Bedroom Apartment	1.5
2 Bedroom Apartment	3
3 Bedroom Apartment	3
Single Family Dwelling	3.5
Mobile Home	2.25

<BSection 370.APPENDIX B Table No. 2 - Commonly Used Quantities of Sewage Flows From Miscellaneous Type Facilities>>

<PType of Establishment>>	Gallons Per Person Per Day (Unless otherwise noted)		
	<P	noted)	>>
Airports (per passenger)	5		
Bathhouses and swimming pools	10		
Camps:			
Campground with central comfort stations	35		
With flush toilets, no showers	25		
Construction camps (semi-permanent)	50		
Day camps (no meals served)	15		
Resort camps (night and day) with limited plumbing	50		

Luxury camps	100	
Cottages and small dwellings with seasonal occupancy	75	
Country clubs (per resident member)		100
Country clubs (per non-resident member present)	25	
Dwellings:		
Boarding houses	50	
(additional for non-resident boarders)		10
Rooming houses	40	
Factories (gallons per person, per shift, exclusive of industrial wastes)	35	
Hospitals (per bed space)	250	
Hotels with laundry (2 persons per room) per room	150	
Institutions other than hospitals including		
Nursing Homes (per bed space)		125
Laundries-self service (gallons per wash)		30
Motels (per bed space) with laundry		50
Picnic parks (toilet wastes only per park user)	5	
Picnic parks with bathhouses, showers and flush toilets (per park user)	10	
Restaurants (toilet and kitchen wastes per patron)	10	
Restaurants (kitchen wastes per meal served)		3
Restaurants (additional for bars and cocktail lounges)	2	
Schools:		
Boarding	100	
Day, without gyms, cafeterias or showers		15
Day, with gyms, cafeterias and showers		25
Day, with cafeterias, but without gyms or showers	20	
Service stations (per vehicle served)		5
Swimming pools and bathhouses		10
Theaters:		
Movie (per auditorium seat)	5	
Drive-in (per car space)	10	
Travel trailer parks without individual water and sewer hook-ups (per space)		50
Travel trailer parks with individual water and sewer hook-ups (per space)		100

Workers:

Offices, schools and business  
establishments (per shift)

15

(Source: Amended at 21 Ill. Reg. 12444, effective August 28, 1997)

<BSection 370.APPENDIX C Table No. 3 - Air Test Table for Sanitary Sewer  
Leakage Testing\*>>

SPECIFICATION TIME (MIN:SEC) REQUIRED FOR PRESSURE DROP FROM 3 1/2 TO 2 1/2 PSIG WHEN TESTING ONE PIPE DIAMETER ONLY									
Length of Sewer Pipe		PIPE DIAMETER, INCHES							
<PIn Feet>>	<P4>>	<P6>>	<P8>>	<P10>>	<P12>>	<P15>>	<P18>>	<P21>>	<P24>>
25	0:04	0:10	0:28	0:28	0:40	1:02	1:29	2:01	2:38
50	0:09	0:20	0:35	0:55	1:19	2:04	2:58	4:03	5:17
75	0:13	0:30	0:53	1:23	1:59	3:06	4:27	6:04	7:55
100	0:18	0:40	1:10	1:50	2:38	4:08	5:56	8:05	10:34
125	0:22	0:50	1:28	2:18	3:18	5:09	7:26	9:55	11:20
150	0:26	0:59	1:46	2:45	3:58	6:11	8:30		
175	0:31	1:09	2:03	3:13	4:37	7:05			
200	0:35	1:19	2:21	3:40	5:17		12:06		
225	0:40	1:29	2:38	4:08	5:40		10:25	13:36	
250	0:44	1:39	2:56	4:35		8:31	11:35	15:07	
275	0:48	1:49	3:14	4:43		9:21	12:44	16:38	
300	0:53	1:59	3:31			10:12	13:53	18:09	
350	1:02	2:19	3:47		8:16	11:54	16:12	21:10	
400	1:10	2:38		6:03	9:27	13:36	18:31	24:12	
450	1:19	2:50		6:48	10:38	15:19	20:50	27:13	
500	1:28		5:14	7:34	11:49	17:01	23:09	30:14	

\*From Standard Specifications for Water and Sewer Main Construction in  
Illinois, Fourth Edition, May, 1986. (Copies may be obtained from Illinois  
Society of Professional Engineers, Springfield, Illinois 62704.)

(Source: Amended at 21 Ill. Reg. 12444, effective August 28, 1997)

<BSection 370.APPENDIX D Figure No. 1 - Design of Sewers - Ratio of Peak  
Flow to Daily Average Flow>>

<BSection 370.APPENDIX E Figure No. 2 - Primary Settling>>

<BSection 370.APPENDIX F Figure No. 3 - B.O.D. Removal Single Stage  
Trickling Filter Units Including Post Settling - No Recirculation Included>>

<BSection 370.APPENDIX G Figure No. 4 - Break Tank Sketch for Potable Water  
Supply Protection>>

<BSection 370.APPENDIX H Old Section Numbers Referenced (Repealed)>>

(Source: Repealed at 21 Ill. Reg. 12444, effective August 28, 1997)