

Proposed Theoretical Sanitary Sewer Flows for Projects in Construction and/or Potential Projects 2/14/2024

Date	Project	Status	Approximate Addition	Pre-Construction Theoretical Flow	Original Scenario - 150g/bedroom (see below)		Alternative Scenario - 65g/person (see below)		Scenario - 55g/bedroom (requested by Redniss & Mead study)	
					Proposed Theoretical Flow	Theoretical Flow minus Preconstruction Theoretical Flow	Proposed Theoretical Flow	Theoretical Flow minus Preconstruction Theoretical Flow	Proposed Theoretical Flow	Theoretical Flow minus Preconstruction Theoretical Flow
Current 12 month daily average as of December 31, 2023 : 544,000 gallons per day						544,000.00		544,000.00		544,000.00
WPCA APPROVED PROJECTS										
2019	300 Danbury Road	WPCA Approved - Not Built	74 Apartments	3,444.00	22,200.00	18,756.00	14,430.00	10,986.00	8,140.00	4,696.00
2022	141 Danbury Road	P&Z Approved - In Construction	171 Apartments	4,704.00	46,800.00	42,096.00	29,965.00	25,261.00	17,160.00	12,456.00
2023	12 Godfrey	P&Z Approved - In Construction	42 Apartments	1,087.00	12,150.00	11,063.00	7,572.50	6,485.50	4,455.00	3,368.00
2023	1 Cannondale Way	P&Z Approved - Not built	120 Apartments	-	22,950.00	22,950.00	14,917.50	14,917.50	8,415.00	8,415.00
2023	221 Danbury Rd	P&Z Approved - In Construction		1,080.00	1,003.00	-77.00	1,003.00	-77.00	1,003.00	-77.00
2023	241 Danbury Rd	P&Z Approved - In Construction		-	2,429.00	2,429.00	2,429.00	2,429.00	2,429.00	2,429.00
Sub-Total Approved (Including Current 12 Month Daily Avg)						641,217.00		604,002.00		575,287.00
OTHER MISCELLANEOUS PROJECTS - submitted to WPCA										
2009	24 Cannon Road	Came to WPCA in 2009 for partial approval - did not submit to P&Z - Capacity allocation may be expired	84 bedrooms misc other use	-	12,600.00	12,600.00	7,345.00	7,345.00	4,620.00	4,620.00
2022	19 Cannon Road	WPCA Appeal	70 Apartments	-	15,300.00	15,300.00	9,945.00	9,945.00	5,610.00	5,610.00
2024	ASML	Submitted to P&Z	167,036 SQFT (5 floors)	2,732.00	18,883.00	18,883.00	18,883.00	18,883.00	18,883.00	18,883.00
	131 Danbury Road	Submitted to P&Z	208 Apartments	-	49,350.00	46,618.00	31,817.50	29,085.50	18,095.00	15,363.00
Sub-Total Other/Miscellaneous						96,828.00		68,228.57		46,189.50
POTENTIAL PROJECTS										
	20 Westport Rd (ASML)			-	48,000.00	48,000.00	48,000.00	48,000.00	48,000.00	48,000.00
	15 Old Danbury Rd	No Pre Application	207 Apartments	9,450.00	53,400.00	43,950.00	33,832.50	24,382.50	19,580.00	10,130.00
	64 Danbury Road	P&Z Pre Application or submitted	116 Apartments	-	30,150.00	30,150.00	19,435.00	19,435.00	11,055.00	11,055.00
	River Road Residential	???	181 Apartments	-	45,450.00	45,450.00	28,860.00	28,860.00	16,665.00	16,665.00
	River Road Commercial	???	10,000 SQFT	-	1,000.00	1,000.00	866.67	866.67	500.00	500.00
Sub-Total Potential						168,550.00		121,544.17		86,350.00
Total Approved + Misc + Potential (Including Current 12 Month Daily Avg)						906,595.00		793,774.73		707,826.50

Original Scenario - 150g/bedroom		
Bedrooms	People/Bedroom	Gal/Bedroom
1	2	150
2	4	300
3	6	450

Scenario by Redniss & Mead - 55g/bedroom		
Bedrooms	People/Bedroom	Gal/Bedroom
1	n/a	55
2	n/a	110
3	n/a	165

Alternative Scenario - 65g/person		
Bedrooms	People/Bedroom	Gal/Bedroom
1	1.5	97.5
2	3	195
3	4	260

Proposed Theoretical Sanitary Sewer Flows for Projects in Construction and/or Potential Projects using various Town's information 2/14/2024

Date	Project	Status	Approximate Addition	Town 1 Scenario - 75g/person (see below)		Town 2 Scenario - 98g/person (see below)		Town 3 Scenario (see below)		Town 4 Scenario - 74g/person (see below)	
				Proposed Theoretical	Theoretical Flow minus Preconstruction Theoretical Flow	Proposed Theoretical	Theoretical Flow minus Preconstruction Theoretical Flow	Proposed Theoretical	Theoretical Flow minus Preconstruction Theoretical Flow	Proposed Theoretical	Theoretical Flow minus Preconstruction Theoretical Flow
Current 12 month daily average as of December 31, 2023 : 544,000 gallons per day					544,000.00		544,000.00		544,000.00		544,000.00
WPCA APPROVED PROJECTS											
2019	300 Danbury Road	WPCA Approved - Not Built	74 Apartments	22,200.00	18,756.00	18,347.56	14,903.56	15,540.00	12,096.00	13,142.40	9,698.40
2022	141 Danbury Road	P&Z Approved - In Construction	171 Apartments	46,800.00	42,096.00	37,956.38	33,252.38	32,830.00	28,126.00	29,073.12	24,369.12
2023	12 Godfrey	P&Z Approved - In Construction	42 Apartments	12,150.00	11,063.00	9,101.26	8,014.26	7,910.00	6,823.00	7,596.84	6,509.84
2023	1 Cannondale Way	P&Z Approved - Not built	120 Apartments	22,950.00	22,950.00	20,971.02	20,971.02	19,110.00	19,110.00	16,290.36	16,290.36
2023	221 Danbury Rd	P&Z Approved - In Construction		1,003.00	-77.00	1,003.00	-77.00	1,003.00	-77.00	1,003.00	-77.00
2023	241 Danbury Rd	P&Z Approved - In Construction		2,429.00	2,429.00	2,429.00	2,429.00	2,429.00	2,429.00	2,429.00	2,429.00
Sub-Total Approved (Including Current 12 Month Daily Avg)					641,217.00		623,493.22		612,507.00		603,219.72
OTHER MISCELLANEOUS PROJECTS											
2009	24 Cannon Road	Came to WPCA in 2009 for partial approval - did not submit to P&Z - Capacity allocation may be expired	84 bedrooms misc other use	12,600.00	12,600.00	7,236.32	7,236.32	6,160.00	6,160.00	7,521.36	7,521.36
2022	19 Cannon Road	WPCA Appeal	70 Apartments	15,300.00	15,300.00	13,520.08	13,520.08	12,040.00	12,040.00	10,238.64	10,238.64
	ASML	Submitted to P&Z	167,036 SQFT (5 floors)	2,732.00	18,883.00	18,883.00	18,883.00	18,883.00	18,883.00	18,883.00	18,883.00
	131 Danbury Road	Submitted to P&Z	208 Apartments	49,350.00	46,618.00	41,982.22	39,250.22	37,030.00	34,298.00	32,167.80	29,435.80
Sub-Total Other/Miscellaneous					96,828.00		82,076.73		74,431.03		69,026.02
POTENTIAL PROJECTS via P&Z											
	20 Westport Rd (ASML)			48,000.00	48,000.00	48,000.00	48,000.00	48,000.00	48,000.00	48,000.00	48,000.00
	15 Old Danbury Rd	No Pre Application	207 Apartments	53,400.00	43,950.00	42,743.68	33,293.68	37,520.00	28,070.00	34,254.60	24,804.60
	64 Danbury Road	P&Z Pre Application or submitted	116 Apartments	30,150.00	30,150.00	25,127.20	25,127.20	21,840.00	21,840.00	18,967.68	18,967.68
	River Road Residential	???	181 Apartments	45,450.00	45,450.00	36,801.94	36,801.94	32,410.00	32,410.00	29,392.80	29,392.80
	River Road Commercial	???	10,000 SQFT	1,000.00	1,000.00	930.00	930.00	860.00	860.00	860.00	860.00
Sub-Total Potential					168,550.00		144,152.82		131,210.00		122,025.08
Total Approved + Misc + Potential (Including Current 12 Month Daily Avg)					906,595.00		849,722.77		818,148.03		794,270.82

Town 1
Treatment Plant Capacity: 1.2
Average as of Jan 2024: 0.9
Percent Used 75.0%

Town 2
Treatment Plant Capacity: 3.2
Average as of Jan 2024: 2
Percent Used 62.5%

Town 3
Treatment Plant Capacity: 4
Average as of Jan 2024: 2.6
Percent Used 65.0%

Town 4
Treatment Plant Capacity: 9
Average as of Jan 2024: 8.5
Percent Used 94.4%

Town 2 Scenario - 98g/person		
Bedrooms	People/Bedroom	Gal/Bedroom
1	1.5	147
2*	2.53	247.94
3*	3.6	347.94

Town 4 Scenario - 74g/person		
Bedrooms	People/Bedroom	Gal/Bedroom
1*	1.62	119.88
2*	2.4	177.6
3*	3.6	266.4

Town 1 Scenario - 75g/person		
Bedrooms	People/Bedroom	Gal/Bedroom
1	2	150
2	4	300
3	6	450

Town 3 Scenario		
Bedrooms	People/Bedroom	Gal/Bedroom
1	N/A	140
2	N/A	210
3	N/A	210

* people/bedroom = census avg people per household in Town