

SEWAGE FLOW DEMAND CALCULATIONS

for
RIVERSIDE

January 13, 2025

Prepared by:



5226 SW 139th Place Miami, FL 33175

SEWER DEMANDS

	Land Use Category	Area (SF)	Daily Rate Gallonage (GPD)		Average Daily Flow (GPD)	Average Daily Flow (GPM)	Average Daily Flow (ERU)	Peak Hour Flow (GPD)	Peak Hour Flow (GPM)	Peak Hour Flow (ERU)
PROPOSED	Townhouse Unit 1A	2,760	165	GPD/UNIT	165	0.11	0.55	725	0.50	2.42
	Townhouse Unit 2A	4,580	165	GPD/UNIT	165	0.11	0.55	725	0.50	2.42
	Townhouse Unit 3A	3,880	165	GPD/UNIT	165	0.11	0.55	725	0.50	2.42
	Townhouse Unit 1B	2,760	165	GPD/UNIT	165	0.11	0.55	725	0.50	2.42
	Townhouse Unit 2B	4,580	165	GPD/UNIT	165	0.11	0.55	725	0.50	2.42
	Townhouse Unit 3B	3,880	165	GPD/UNIT	165	0.11	0.55	725	0.50	2.42
	Total Proposed				990	0.69	3.30	4,349	3.02	14.50

1) Per Capita Flow per Miami-Dade County standards:

Per Capita Flow = 165 GPD/UNIT

2) Peak factor (per M-D Code & 10 state standards)

Peak Factor = 4.393

3) Peak Factor Flow based on (average daily flow) x (peak factor)

4) Equivalent Residential Unit (ERU) Conversion assumption:

1 ERU = 300 GPD

Note:

1) Proposed flow calculations for based on Maximum Occupancy

DRC

PZ25-12000005

03/05/2025

POTABLE WATER DEMAND CALCULATIONS

for
RIVERSIDE

January 13, 2025

Prepared by:



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Potable Water Demand Analysis

Proposed Land Use as Townhouse:

For Analysis of the Potable Water Demand, 110% of the Sanitary Sewer Flow was used:

Total Proposed : Daily Average Flow = 110% * 990 gpd = 1,089 gpd

Total Average Flow 1,089 gpd

Maximum Daily Flow (peak hour factor of 4): 1,089 gpd * 4 PHF = 4,356 gpd = 0.00436 MGD, PEAK HR

Note:

1) Proposed flow calculations for based on Maximum Occupancy

DRC

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