



**SEWER GENERATION CALCULATIONS
BUILDING 1**

Project Name: Boynton Yards
Project Location: Somerville, MA
Project Number: 52771LS1

Date: 2/13/2018
Calculated By: JVC
Checked By: BKF

310 CMR 15.000: The State Environmental Code, Title 5: Standard Requirements for the Siting, Construction, Inspection, Upgrade and Expansion of On-Site Sewage Treatment and Disposal Systems and for the Transport and Disposal of Septage

314 CMR 7.00: Sewer System Extension and Connection Permit Program

Existing Conditions - Building 1

Tenant Name	Type of Establishment	Size (sq. ft.)	Rate (gpd)	Unit	Amount	Sewer Generation (gpd)
N/A	N/A	0	0	N/A	0	0
TOTAL						0

Proposed Conditions - Building 1

Tenant Name	Type of Establishment	Size (sq. ft.)	Rate (gpd)	Unit	Amount	Sewer Generation (gpd)
Building 1 - Retail	Retail Store	5,600	50	per 1,000 sq.ft.	5.6	280
Building 1 - Office	Office Building	133,400	75	per 1,000 sq.ft.	133.4	10,005
TOTAL						10,285

INCREASE IN SEWER GENERATION (GPD) = 10,285
4:1 INFLOW & INFILTRATION MULTIPLIER (GPD) = 41,140
***INCREASE IN WATER DEMAND (GPD) = 11,314**

***WATER DEMANDS ARE ESTIMATED BY ADDING 10% TO THE EXPECTED SEWER FLOWS**



**SEWER GENERATION CALCULATIONS
BUILDING 2**

Project Name: Boynton Yards
Project Location: Somerville, MA
Project Number: 52771LS1

Date: 2/13/2018
Calculated By: JVC
Checked By: BKF

310 CMR 15.000: The State Environmental Code, Title 5: Standard Requirements for the Siting, Construction, Inspection, Upgrade and Expansion of On-Site Sewage Treatment and Disposal Systems and for the Transport and Disposal of Septage

314 CMR 7.00: Sewer System Extension and Connection Permit Program

Existing Conditions - Building 2

Tenant Name	Type of Establishment	Size (sq. ft.)	Rate (gpd)	Unit	Amount	Sewer Generation (gpd)
N/A	N/A	0	0	N/A	0	0
TOTAL						0

Proposed Conditions - Building 2

Tenant Name	Type of Establishment	Size (sq. ft.)	Rate (gpd)	Unit	Amount	Sewer Generation (gpd)
Building 2 - Retail	Retail Store	10,700	50	per 1,000 sq.ft.	10.7	535
Building 2 - Office	Office Building	224,300	75	per 1,000 sq.ft.	224.3	16,823
Building 2 - Parking	Structured Parking	N/A	1	per parking space	233	233
TOTAL						17,591

INCREASE IN SEWER GENERATION (GPD) = 17,591
4:1 INFLOW & INFILTRATION MULTIPLIER (GPD) = 70,364
***INCREASE IN WATER DEMAND (GPD) = 19,350**

***WATER DEMANDS ARE ESTIMATED BY ADDING 10% TO THE EXPECTED SEWER FLOWS**