

Plant Capacity = 800m<sup>3</sup>/day  
 5 Year Average Daily Flow = 518m<sup>3</sup>/day  
 Available Reserve Capacity = 282m<sup>3</sup>/day

**Approved Developments**

	Apartments	Houses	Population	Daily Flow in m <sup>3</sup>	% Plant Capacity
Merrickville Grove Townhomes		83	224.1	78.44	9.81%
Merrickville Grove Apartments	15		27	9.45	1.18%
Lewis St. Townhomes Phase 1		14	37.8	13.23	1.65%
<b>Total</b>	<b>15</b>	<b>97</b>	<b>288.9</b>	<b>101.12</b>	<b>12.64%</b>

**Allocated Developments (undergoing approval process)**

	Apartments	Houses	Population	Daily Flow in m <sup>3</sup>	% Plant Capacity
Lewis St. Apartments	43		79.1	27.69	3.46%
105 Drummond St. Apartments	10		16.6	5.81	0.73%
206 Brock St. Semi's		3	8.8	3.08	0.39%
224 Lewis St. Semi's		4	10.8	3.78	0.47%
212 Main St. Apartments	14		19.2	6.71	0.84%
<b>Total</b>	<b>67</b>	<b>7</b>	<b>134.5</b>	<b>47.07</b>	<b>5.88%</b>

**Infill Lots (single family home could be built with no required planning approval)**

	Apartments	Houses	Population	Daily Flow in m <sup>3</sup>	% Plant Capacity
217 Main St.		1	3.4	1.19	0.15%
218 Main St.		1	3.4	1.19	0.15%
216 Wellington St. W		1	3.4	1.19	0.15%
205 Wellington St. E		1	3.4	1.19	0.15%
300 Wellington St. E		1	3.4	1.19	0.15%
315 Wellington St. E		1	3.4	1.19	0.15%
350 Wellington St. E		1	3.4	1.19	0.15%
Rear Charlotte 1-4		1	3.4	1.19	0.15%
312 Brock St. W		1	3.4	1.19	0.15%
405 Drummond St. W		1	3.4	1.19	0.15%
418 Lewis St. W		1	3.4	1.19	0.15%
116 Lewis St. W		1	3.4	1.19	0.15%
<b>Total</b>	<b>0</b>	<b>12</b>	<b>40.8</b>	<b>14.28</b>	<b>1.79%</b>

**McLean Landing Phase 2A**

	Population	Daily Flow in m <sup>3</sup>	% Plant Capacity
36 Townhomes	97.2	34.02	4.25%
4 Semi's	10.8	3.78	0.47%
<b>Total</b>	<b>108</b>	<b>37.8</b>	<b>4.73%</b>

**McLean Landing Phase 2B**

	Population	Daily Flow in m <sup>3</sup>	% Plant Capacity
31 Townhomes	83.7	29.30	3.66%
4 Semi's	10.8	3.78	0.47%
1 Single	3.4	1.19	0.15%
<b>Total</b>	<b>94.5</b>	<b>33.08</b>	<b>4.13%</b>

	Daily Flow in m <sup>3</sup>	% Plant Capacity
<b>Total North Side Allocation</b>	<b>70.28</b>	<b>8.79%</b>
<b>Septage Per 2009 Brief</b>	<b>6.5</b>	<b>0.81%</b>
<b>Total</b>	<b>76.78</b>	<b>9.60%</b>

	New Apartments	New Homes	Population	Daily Flow in m <sup>3</sup>
Average Daily Flow of 518m <sup>3</sup> represents plant operating at 64.8% capacity	0	0	938	518
Average Daily Flow plus approved developments represents plant operating at 77.4% capacity	15	97	1226.9	619.12
Average Daily Flow plus approved developments and allocated developments represents plant operating at 83.3% capacity	82	104	1361.4	666.19
Average Daily Flow plus approved developments, allocated developments and infill lots represents plant operating at 85.1% capacity	82	116	1402.2	680.47
Average Daily Flow plus approved developments, allocated developments, infill lots and McLean Landing Phase 2A represents plant operating at 89.8% capacity	82	156	1510.2	718.27
Average Daily Flow plus approved developments, allocated developments, infill lots and McLean Landing Phase 2A & B represents plant operating at 93.9% capacity	82	192	1604.7	751.35
Average Daily Flow plus approved developments, allocated developments, infill lots, McLean Landing Phase 2A, North side and Septage represents plant operating at 99.4% capacity	82	208	1687	795.05
<b>Alternative Scenario</b>				
Average Daily Flow plus approved developments, allocated developments, infill lots and McLean Landing Phase 2A & B represents plant operating at 93.9% capacity	82	192	1604.7	751.35

Jan. 2025 flow was 8299m<sup>3</sup> over 31 days, which represents an average flow of 268m<sup>3</sup>/day. When subtracting this from the 5 year average flow of 518m<sup>3</sup>/day it identifies 250m<sup>3</sup>/day of infiltration. This represents the potential for approximately 250 new homes.

**Notes**

The above calculations represent the potential for a 5 to 10 year buildout timeline to construct 156 new homes and 82 new rental units, while keeping the plant operating below 90% capacity. Aligns with JP2g's planning recommendations as it includes the development of infill lots. This would help to provide needed revenue and afford the necessary time to address infiltration issues in the existing infrastructure which would in turn free up additional capacity for future development. This approach also keeps sufficient capacity in reserve for the future inclusion of the North side and septage from the 2009 brief. Aligns with multiple criteria of the villages 2022 Sewage Allocation Policy. The addition of wastewater from a watertight system will reduce the infiltration dilution levels and aid in more efficient plant operation.