

Revisions

December 4 ,2023
 March 13, 2024
 March 3, 2025

TABLE 1
 2025 Reserve Capacity Assessment
 Durham Water Works

21-036

1	Rated Capacity (m ³ /day)	3011
2	Max day demand (m ³ /day) 2013-2024	1756
3	Avg day demand (m ³ /day) 2013-2024	1074
4	Reserve Capacity (m³/day) (1) - (2)	1255
5	Max day factor (2) ÷ (3)	2
6	Approximate Billable Connections including commerical/institutional	1481
7	Equivalent Person per residential unit (2016 Census Data. Population: 2,609, Private Dwelling 1196)	2.2
8	Equivalent household average water demand (m ³ /day) (3) ÷ (6)	0.73
9	Actual average water demand per household (metered consumption ÷ number of metered residences) ⁴ (m ³ /day)	0.47
10	Committed Capacity Summary (m³/day) using Max Day Factor of 2:	
	i) Sunvale Subdivision: 456 persons ¹ @ 450 lcpd	410
	ii) Broos Subdivision: 209 ² persons @ 450 lcpd	188
	iii) Rockwood Terraces ³ (upgraded)	28
	iv) Infilling (m ³ /day) 50 units assumed (150 persons) @ 450 lcpd	135
11	Total committed capacity (m³/day)	761
12	Committed Reserve Capacity for water works (m³/day) (4) - (11)	494
13	Developments under Review (m³/day)	
	i) Khanani Subdivision: 317 persons @ 450 lcpd	286
	ii) Roseate Subdivision: 351 person @ 450 lcpd	316
	iii) Saddler Subdivision: 113 persons @ 450 lcpd	102
	iv) Bruce St. Residential Development: 113 persons @ 450 lcpd	102
13	Future Development Capacity needed (m³/day)	806
14	Shortfall in capacity (m³/day) (12) - (13)	-312

- 1 Sunvale subdivision has 85 units out of 247 units, already constructed & connected to water & sewage system's. This spreadsheet forecast flows for remaining 162 residences @ 3 pph per Cobide Report.
- 2 Broos Subdivision has been allocated capacity for 209 persons only in 2025. There are more Homes that will be built in the subdivision.
- 3 New Rockwood Terrance shall have 128 beds as opposed to existing 100 bed that are already connected to water & sewage system. Flow forecast is for 28 beds only.
- 4 The actual water consumption of meterd residences based on 2014 - 2023 data.

Note: It is anticipated that New Drilled Well (PTTW not obtained) shall provide water supply in sufficient quantity and exceed shortfall in capacity outlined in line 14.