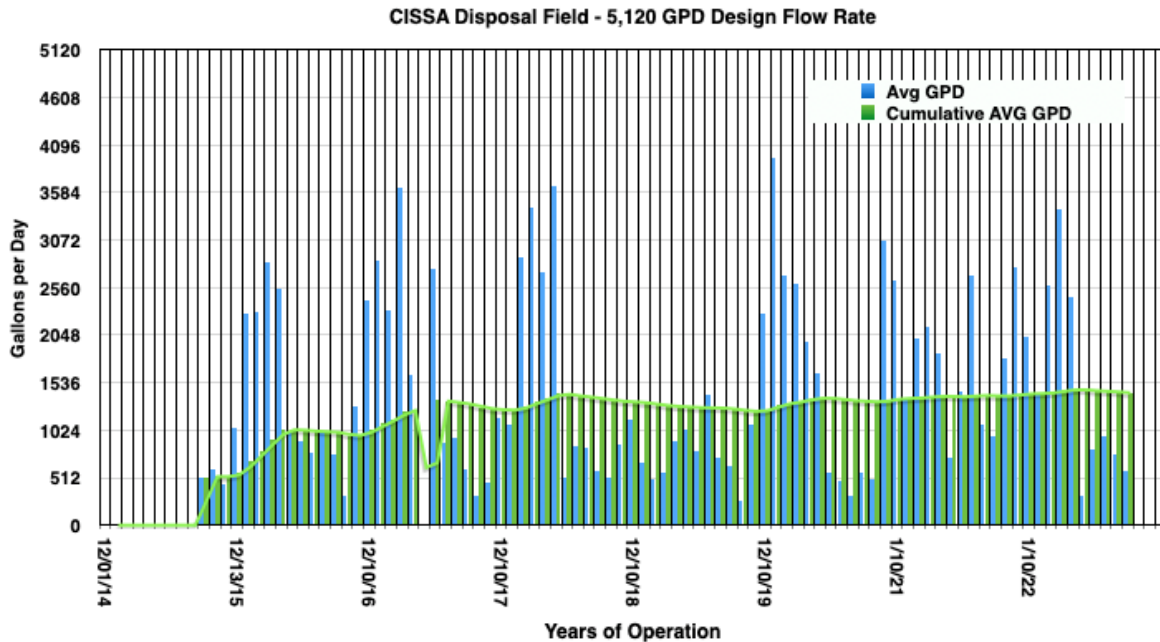


Cliff Island Septic System Association

Historical monthly flow rate measurements to leach field through October 2022.

W. Swift, 10 November 2022



These measurements taken once per month from pump operations in the main pump station. The blue bars represent the calculated average daily flow rate each month from the septic system main pump station to the leach field. The green bars and the green line represent the cumulative average daily flow rate for the period from start of operations.

The blue bars show that highest flows occur generally between October and April – during the fall, winter and spring periods. Of the 19 homes connected to the system, only two are occupied during these months. Peak occupancy occurs during the relatively dry summer period. The high flow periods have been attributed to leakage into the system from groundwater during wet seasons. In general, flow rates during periods of peak occupancy (during summer months) average 500 – 1,000 gpd. The design flow rate for the system is 5,120 gpd. Hence the actual septic system flows recorded are only 10% - 20% of the design value.

At present there are 19 connections to the system. The number of connections could be doubled without approaching the design.