

Total Square footage, 480 Senanus Drive, data from TafeMeasure drawings

2903 main house
287 garden house
191 green house
869 guest house
130 shed
1029 workshop
1040 garage 1
551 garage 2
1731 deck
506 deck

9237 TOTAL sq feet

858.1453805 total square metres

Precipitation data in mm from Environment Canada Climate Normals table 1971-2000
for Saanichton Mt Newton

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
	148.8	105.5	77.7	54.6	42.7	36	20.7	24.4	28.6	82.6	166.7	150.7

Total, per year

939 mm

0.93900 metres

Projected total collected volume of rainwater per year

572.47 sq m X 0.07825 m

805.7985123 cubic metres

805798.5123 litres

212869.4046 gallons

From Environment Canada, http://www.ec.gc.ca/water/en/info/pubs/fs/e_FSA4.htm

In 2004, the average Canadian daily domestic use of fresh water was 329 litres per person. At least half of this amount is unnecessary and wasteful. Common causes of waste at home are leaking faucets, faulty plumbing, and over-use of water for watering the lawn and washing the car. Much of this waste would be reduced if we had to pay a fair price for water. As our usage becomes more efficient, we would not only produce less wastewater, we could also afford better treatment for it. In fact, wastewater usually becomes easier to treat if it is less diluted at the treatment plant, as there is less water to be removed from the sludge. The result would be multiple savings and a better environment.

Therefore, the rainwater collected is enough to supply

44795.66 litres / (329 litres/person) / 365 days

6.705641614 people with water for a year