

Design of On-Site Sewage System

Schedule D to Bylaw 2023. _____

Class of System 2 or 3 4 5 New Install Alter/Repair

Water Supply Existing or Proposed

Drilled Well Dug Well

Lake/ River

Other: _____

Fixture Unit Type	# of Fixtures	Fixture Unit Value	Total
3pc Bathroom Group		6	
Flush Tank Toilet		4	
Lavatory		1	
Bathtub		1.5	
Shower (1 head)		1.5	
Bidet		1	
Urinal		1.5	
Kitchen Sinks (dbl)		1.5	
Laundry Tub		1.5	
Clothes Washer		1.5	
Dishwasher (0 if connected to sink drain)		1.5	
Floor Drain 4"		4	
Other			
Total Fixture Units			

Number of Bedrooms	Volume (L)
1 Bedroom	750
2 Bedrooms	1100
3 Bedrooms	1600
4 Bedrooms	2000
5 Bedrooms	2500

Daily Design Sanitary Sewage Flow Calculations (Q)

- A. Base Flow from Number of Bedrooms: _____ L (max 5)
- B. Additional Bedrooms over 5: _____ x 500 = _____ L
- C. Each Additional Fixture over 20: _____ x 50 = _____ L
- D. Additional Living Space over 200sqm
 - i. Each 10sqm over 200sqm up to 400sqm: _____ x 100 = _____ L
 - ii. Each 10sqm over 400sqm up to 600sqm: _____ x 75 = _____ L
 - iii. Each 10sqm greater than 600sqm: _____ x 50 = _____ L

Daily Sewage Flow (Q) = A plus the greater of B or C or D = _____ L/day

Tank(s)

Minimum Size Septic Tank 3600L
Minimum Size Holding Tank 9000L

Septic Tank Size (residential) $Q \times 2 =$ _____ L, Proposed: _____ L

Septic Tank Size (non-residential) $Q \times 3 =$ _____ L, Proposed: _____ L

Holding Tank Size $Q \times 7 =$ _____ L, Proposed: _____ L

Sewage Bed Design

Conventional Trench

Trench Bed Sizing (native soil percolation time = T)

- $QT/200$

_____ x _____ /200 = _____ m; Proposed: _____ m

Raised Trench Bed

Trench Bed Sizing (imported soil percolation time = T)

- $QT/200$

_____ x _____ /200 = _____ m; Proposed: _____ m

Daily Loading Area (native soil percolation time = T)

- $Q/\text{Loading Rate Factor}$ (chart below)

_____ / _____ = _____ sqm, Proposed: _____ sqm

Receiving Soil Percolation Rate	Loading Rate Factor
$1 \leq 20$	10
$20 \leq 35$	8
$35 \leq 50$	6
greater than 50	4

Filter Bed

Filter Bed Area

- 3000L/day or less = $Q/75$, or
- 3000L/day or more = $Q/50$

_____ / _____ = _____ sqm, Proposed: _____ sqm

Contact Area (native soil percolation time = T)

- $QT/850$

_____ x _____ /850 = _____ sqm, Proposed: _____ sqm

Daily Loading Area (native soil percolation time = T)

- $Q/\text{Loading Rate Factor}$ (chart above)

_____ / _____ = _____ sqm, Proposed: _____ sqm

Copy of Maintenance agreement if using any of the below is required

Alternative Treatment Unit

Manufacturer: _____ Model: _____
BMEC/BNQ#: _____ No. of Units (if applicable): _____

Type A Dispersal Bed/ BMEC Area Bed

Stone Area

- 3000L/day or less = $Q/75$, *or*
- 3000L/day or more = $Q/50$

_____ / _____ = _____ sqm, Proposed: _____ sqm

Sand Area (native soil percolation time = T)

- T less than 15 = $QT/850$
- T greater than 15 = $QT/400$

_____ x _____ / _____ = _____ sqm, Proposed: _____ sqm

Type B Dispersal Bed

Dispersal Area (native soil percolation time = T)

- $QT/400$ *or*
- $Q/\text{Loading Rate}$ (using table 2-8 of BCMOH)

_____ / _____ = _____ sqm, Proposed: _____ sqm

Linear Loading Rate (native soil percolation time = T)

- T less than 24 = $Q/40$ *or*
- T greater than 24 = $Q/50$ *or*
- From Table 2-11 of BCMOH where required

_____ / _____ = _____ m, Proposed: _____ sqm

Class 2 or 3 Systems

Size _____ sqm;

Configured as Length _____ m x Width _____ m x Height _____ m

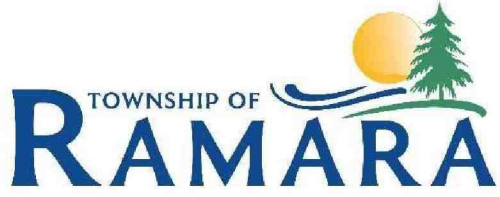
Wall Structure _____; Type of Cover _____

Lot Diagram

As part of the application a lot diagram is required, this must indicate north and show the following required information with proposed or existing **setbacks**:

Sewage System Components (tank, bed, loading area, mantle area)

- Existing Sewage Systems
- Structures (proposed or existing, incl. pools)
- Property Lines
- Topographical Features (steep slopes, low lands)
- Water Supplies (incl. neighbours) and other water features
- Driveways
- Direction of Slope



Date: _____

Project: _____

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