CLASS 5 SYSTEM DESIGN CALCULATIONS
Holding Tank

To be submitted with application package

DAILY SEWAGE FLOW CALCULATION

Based on Hydraulic Loads for Number of Bedrooms **and** the greater of Fixtures **or** Floor Area.

FIXTURES			
Plumbing Fixture Description	**Total # of Fixtures in Final Project Design**	**Unit**	**Total # of Fixture Units**
Bathroom Group (includes toilet, sink and bathtub and/or shower)		x 6 =	
Toilet (alone)		x 4 =	
Washbasin		x 1.5 =	
Bathtub or Shower		x 1.5 =	
Kitchen Sink		x 1.5 =	
Bar Sink		x 1.5 =	
Dishwasher		x 1.5 =	
Washing Machine		x 1.5 =	
Bidet		x 1 =	
Laundry Tub		x 1.5 =	
Other			
		Add units in last column	⬇
		Total Fixture Units =	

FLOOR AREA	
Proposed	m^2
Existing	m^2
Total Finished Footprint:	m^2
To convert ft^2 to m^2, simply multiply ft^2 by 0.093 e.g. 150 ft^2 x 0.093 = 13.95 m^2	

Residential Occupancy	Final Project Design	(Q) in L	Total
1 Bedroom		750	
2 Bedrooms		1100	
3 Bedrooms		1600	
4 Bedrooms		2000	
5 Bedrooms		2500	
PLUS Additional Flow For:			
Each Bedroom over 5		500	
OR *			
Floor Space for each $10m^2$ over 200 m^2 up to 400 m^2		100	
Floor Space for each $10m^2$ over 400 m^2 up to 600 m^2		75	
Floor Space for each $10m^2$ over 600 m^2		50	
OR *			
Each fixture unit over 20 fixture units		50	
		Add units in last column *	⬇
		Total Daily Design Flow (Q) =	

****NOTE**: Where you need to do multiple calculations, signified by the "OR" in the table, do the calculation for daily sewage flow based on bedrooms first, then use the largest additional flow calculation added to the bedroom calculation to determine the Total Daily Sewage Flow (Q)*

TOTAL DAILY DESIGN SEWAGE FLOW (Q) = _____ Litres

(Q) x 7 = _____ Litres MINIMUM HOLDING TANK CAPACITY

Algoma PUBLIC HEALTH
Santé publique Algoma

DESIGN LAYOUT
ON-SITE SEWAGE SYSTEMS AND BUILDING PERMITS

Application Number _____

ROLL NUMBER:		**OWNER:**			
PROPERTY ADDRESS:		**DESIGNER:**		**EF/WBF#:**	
LEGAL DESCRIPTION:		**INSTALLER:**		**BCIN:**	

FROM YOUR WORKSHEET STATE NO. OF FIXTURE UNITS	NO. OF BEDROOMS OR OCCUPANCY	SIZE OF FINISHED FLOOR AREA	TOTAL DAILY DESIGN SEWAGE FLOW IN LITRES Q =	PROPOSED WATER SUPPLY			
				MUNICIPAL ❑		PRIVATE ❑	
CLASS 1,2,3 SEWAGE SYSTEM PROPOSAL DETAILS				Dug/Bored Well Well Depth	❑	DRILL WELL CASING SIZE	❑
DIMENSIONS OF SYSTEM							
CLASS 4,5 SEWAGE SYSTEM PROPOSAL DETAILS				SURFACE WATER SUPPLY			❑

WORKING CAPACITY OF SEPTIC OR HOLDING TANK LITRES	SIZE OF PUMP CHAMBER	LINEAL METRES OF LEACHING PIPE	FILTER BED SIZE SQUARE METRES	CONTACT AREA SIZE SQUARE METRES	DEPTH OF FILL	PERCOLATION TIME OF SOIL NATIVE IMPORTED T =

Directions to Lot - Hwy No., Secondary Roads, Signs to Follow, etc. _____

THE SITE PLAN SHALL SHOW

The location of existing buildings, proposed buildings, water supply, existing sewage systems, property lines, surface water (lake, river, etc.), and any neighbours wells, etc.

INSPECTOR COMMENTS

SIDE PROFILE

Indicate foundation depth in relation to all components of the sewage system, including clearances to the groundwater table, bedrock, or soil with a percolation rate greater than 50 min/cm. If additional fill is required, please indicate the height above existing grade.

INSPECTION REPORT

INSPECTION	SUB-SURFACE CONDITIONS OBSERVED			
	ROCK & GWT	M	FT	SOIL TYPE
DATE _____ TIME _____ AM / PM		0.3	1	
REPRESENTING OWNER / INSTALLER		0.6	2	
		0.9	3	
		1.2	4	
		1.5	5	

PROPOSAL MEETS ONTARIO BUILDING CODE REQUIREMENTS ❑ **YES** ❑ **NO**

INSPECTORS SIGNATURE _____ **DATE** _____

PRINT NAME

In accordance with the Municipal Freedom of Information and Protection of Privacy Act the information is collected under the authority of the Building Code Act for the purposes of processing permit applications.