Applying for a Class 4 Sewage Treatment System Permit

Please complete the following steps to apply for a sewage treatment system permit. More details on each step can be found in the attached package.

1	. Dig t	he test p	its (if red	quired).
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- 2. Design the sewage treatment system.
- 3. Complete the application form.
- 4. Submit the following items:

Fee		Fe	e
-----	--	----	---

- Completed Application Form
- ☐ Schedule 1 (Designer) and/or Schedule 2 (licensed installer)
- Lot Survey
- ☐ Soil Analysis Report for Design Soil (if Different from Native Soil)
 - Required for imported leaching bed fill or filter sand used to construct the leaching bed or mantle
- Soil Analysis Report or Percolation Test Documentation for Native Soil
 - Required for native soil <u>unless</u> the design is assuming a native soil T > 50 <u>and</u> the system being designed is a raised absorption trench system
- Letter of Authorization
- Required when a licensed sewage installer will be constructing the system

Note: The application will not be processed until items are received in full.

- 5. Receive the initial inspection.
- 6. Receive the permit.
- 7. Start work on the system.
- 8. Request the final inspection.
- 9. Receive the final inspection.
- 10. Receive certificate of inspection.



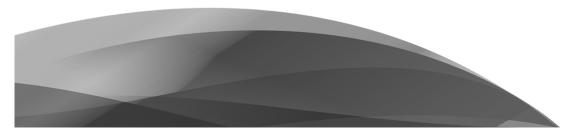
Revised: 2024-12-06



Authorization to Delegate Authority to Submit Sewage System Application

l,		, am a legal d	owner of the subj	ect property a	nd have the	
permission of any oth	ner owner(s	s) to delegate a	uthorization to m	ake applicatio	n for a sewage sy	/stem
permit. Other owners	s include (if	f applicable),			·	
I can be contacted by	/ email				or	
phone	·					
The person allowed t	o submit tl	he application c	on my/our behalf	is		and
can be contacted by	email		or p	hone		
The property is descr	ibed as Pro	operty Identifica	ation Number (PII	N)	and/or	
Parcel	Lot	of Plan	Ot	her	·	
I/we understand the sincluding proposed n		0 ,	·		ling information,	
Signed		1	Date		_•	
Please send this form Northwestern Health	•		t, to part8@nwhu	ı.on.ca or prov	ide hard copy to	the
For more information Chief Building Officia 210 First Street North Kenora, ON P9N 2K4 1-800-830-5978 permits@nwhy.on.ca	l n					

Personal information is collected under the authority of the Health Protection and Promotion Act and related legislation and in accordance with the Personal Health Information Protection Act and/or the (Municipal) Freedom of Information and Protection of Privacy Act. We collect only the personal information needed to provide public health programs and to plan and evaluate our services. Your information may be shared with others as required or permitted by law. For more information contact the health unit at 800-830-5978 or see the privacy statement on our web-site at www.nwhu.on.ca.



Application for a Permit to Construct or DemolishThis form is authorized under subsection 8(1.1) of the *Building Code Act, 1992*

For use by Principa	I Authority only				
Date Received:		Appli	cation Number:		
Amount paid:	Receipt #:	Ca	ash 🗌 Debit	☐ Money Orde	r
			neque 🗌 Visa	☐ MasterCard	
NOTE: ALL STARF	RED* SECTIONS ARE MAN	IDATORY			
A. Property infor	mation				
*Legal Description (can b	e found on recent property tax stateme	ent):	PIN: (00000-0000)	Township:	
				Municipality:	
*Street/Road Address: Postal Code: Plan Number:			Roll number/other	description:	
Project value estimate \$:			Area of work (m ²):		
*Directions to Property:					
B. Purpose of ap	plication				
☐ *New construction	☐ Addition to an existing building ☐	*Alteration/repair	☐ Demolition	☐ Conditional Perr	nit
*Proposed use of building ☐ Residential ☐ C	: ommercial	*Curre	nt use of building:		
Description of proposed v	vork:	<u> </u>			
C. Applicant					
Applicant is: Owner *Last Name:	Authorized agent of owner		Composition on non	tu a ua la iu .	
Last Name:	*First Name:		Corporation or par	inersnip:	
*Street Address:	•			Unit Number:	Lot/concession:
*Municipality:	*Postal Code:	*Province:	*Email:		
*Telephone Number:	Fax Number:		Mobile number:		
D. Owner (if diffe	rent from applicant)				
*Last Name:	*First Name:		Corporation or par	tnership:	
*Street Address:				Unit Number:	Lot/concession:
*Municipality:	*Postal Code:	*Province:	*Email:		
*Telephone Number:	Fax Number:		Mobile number:		

Э	Builder (optional)					
	st Name:	First Name:		Corporation or pa	rtnership:	
Str	eet Address:	1		l	Unit Number:	Lot/concession:
Mu	nicipality:	Postal Code:	Province:	Email:		
		- N				
l el	ephone Number:	Fax Number:		Mobile number:		
	Tavian Managata Canaan	tion (Ontonia N	lave Havea War	out Ducamen		
	Tarion Warranty Corporal Is proposed construction for a new h	•			<u></u>	
i.	• •				□ res □ No	
ii.	Is registration required under the On	tario New Home Warr	anties Plan Act? ∐ Y	es ∐ No		
	If yes, provide registration number(s)):				
G.	Required Schedules					
i. ii.	Attach Schedule 1 for each individua Attach Schedule 2 where application					
Н.	*Completeness and com	pliance with ap	plicable law			
i.	This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the <i>Building Code Act</i> (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and all required schedules are submitted).					
	Payment has been made of all fees that are required, under the applicable by-law, resolution, or regulation made under clause 7(1)(c) of the <i>Building Code Act, 1992</i> , to be paid when the application is made.					
ii.	This application is accompanied by t regulation made under clause 7(1)(b			ne applicable by-law	, resolution, or	☐ Yes ☐ No
iii.	iii. This application is accompanied by the information and documents prescribed by the applicable by-law, resolution, or regulation made under clause 7(1)(b) of the <i>Building Code Act, 1992</i> , which enables the chief building official to determine whether the proposed building, construction, or demolition will contravene any applicable law.					
iv.	iv. The proposed building, construction, or demolition will not contravene any applicable law.					
Π.	Declaration of applicant					
I_		de	clare that:			
1.	(print name) The information contained in this app	olication, attached sch	edules, attached plan	s and specifications	, and other attached d	locumentation is true to
2.	the best of my knowledge. If the owner is a corporation or partner.	ership, I have the auth	nority to bind the corpo	oration or partnershi	p.	
	, ,	• •	,	•	•	
_	Date			Signature	of Applicant	

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Info	rmation						
Building number, stree	et name:			Unit no.		Lot/con	ncession:
Municipality:		Postal Code:	Plan number/othe	r description:			
B. Individual w	vho reviews a	nd takes respo	onsibility for d	esign activitie	es		
Street Address:					Unit Numb	er:	Lot/concession:
Municipality:		Postal Code:	Province:	Email:			
Telephone Number:		Fax Number:	1	Mobile number:			
C. Design activ		ken by individ .2.1. of Divisio		n section B.			
☐ House ☐ Small Buildings ☐ Large Buildings ☐ Complex Buildings		rices ghting, and Power	☐ Building Struc ☐ Plumbing – H ☐ Plumbing – A ☐ On-site Sewa	ouse I Buildings			
Description of Designe							
D. Declaration	of Designer						
I review and take qualified, and the Individual BCIN:	firm is registered, in	e design work on bel n the appropriate clas	nalf of a firm registeresses/categories.	ose one as appropred under subsection	•	on C of th	he <i>Building Code</i> . I an
I review and take Division C, of the		e design and am qua	alified in the appropria	ate category as an "	other designer"	under su	ubsection 3.2.5. of
Individual BCIN:							
Firm BCIN:							
The design work	is exempt from the	registration and quali	fication requirements	of the <i>Building Co</i>	de.		
Basis for exempt	ion from registration	and qualification:					
		s schedule is true to n with the knowledge					
	Date			Signatu	re of Designer		

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1)(C) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a licence, temporary licence, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a licence to practice, a limited licence to practice, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Schedule 2: Sewage System Installer Information NOTE: COMPLETE ALL SECTIONS WHERE POSSIBLE.

A. Project Information							
Building number, street name:				Unit no.:	Lo	_ot/conce	ession:
Municipality:	Postal Code:	Plan num	ber/other o	description:			
B. Sewage system Installer							
Is the installer of the sewage system enga systems, in accordance with <i>Building Code</i>			on on-site,	installing, repairing,	, servicing, clean	ning, or e	emptying sewage
	☐ No (Continue to Se	,		ler unknown at time	of application (C	Continue	to Section E)
C. Registered installer infor	mation (where	answer		"Yes")			
Name:			BCIN:				
Street Address:					Unit Number:		Lot/concession:
Municipality:	Postal Code:	Province:		Email:			
Telephone Number:	Fax Number:	1		Mobile number:			
D. Qualified supervisor info	rmation (where	answe	r to Sec	ction B is "Yes	6"		
Name of qualified supervisor(s):			Building Code Identification Number (BCIN):				
E. Declaration of Applicant:							
I(print name)		declare t	:hat:				
I am the applicant for the permit to co Schedule 2 prior to construction when			e installer i	s unknown at the tim	ne of application	ı, I shall :	submit a new
OR							
I am the holder of the permit to const	ruct the sewage syste	m, and am	submitting	յ a new Schedule 2,	now that the inst	staller is	known.
I certify that: 1. The information contained in this 2. If the owner is a corporation or p					ership.		
Date				Signature o	of Applicant		



Sec	Section 1: Sewage System Specifications – Class 4 Sewage System						
A. F	Proposed Sewage System:	al Comme	rcia	ı			
	☐ New Installation ☐ Replacement ☐ Alteration ☐ Repair						
B. F	Proposed Construction:						
	☐ Full System (Field and Tank) ☐ Tank Only	☐ Field Only					
C. E	Building Information:						
	Number of bedrooms: Floor area m² Is there a walk-out basement where more than 50% of the wall area is visible above ground level? ☐ Yes ☐ No						
Pl	umbing Fixtures (include roughed-in plumbing)						
De	escription	# Proposed	x	Fixture Unit	=	Count	
Ва	nthroom Group – Toilet/Sink/Shower		х	6	=		
Sir	nks/Wash Basins		х	1.5	=		
Ва	athtubs/Showers		х	1.5	=		
То	ilets (flush tank)		х	4	=		
	omestic Dishwasher ot connected to garbage grinder or domestic sink)		х	1	=		
La	undry Tub/Washing Machine		х	1.5	=		
Ot	her:		х		=		
		Tota	ıl Fi	xture Unit Coun	t =		
W	Water Treatment ☐ None ☐ Existing ☐ Proposed						
De	escription of proposed/existing water treatment:						
Ple	ease Note: Water treatment backwash not permitted in septic syste	ems					
W	ater Supply						
	Dug well] Hauled					
All	wells within 30 metres of the proposed sewage system, in use or	abandoned, must be sh	own	on the site plan.			

	# of Bedrooms	Volu	ume (L)	Flow	
	1 Bedroom		750		
Bedroom Flow (A)	2 Bedrooms	1	1100		
(Choose one)	3 Bedrooms	1	1600	=	
	4 Bedrooms	2	2000		
	5 Bedrooms	2	2500		
Additional Bedrooms	# of Extra Bedrooms	Volu	ume (L)	Flow	
Over 5 (B)		x 500		=	
	Floor Space (m²)	Units	x Volume (L)	= Flow	
	200m ² or less	1	x 0	= 0	
Living Area (C)	Each 10m ² over 200m ² -400m ²		x 100	=	
	Each 10m ² over 400m ² -600m ²		x 75	=	
	Each 10m ² over 600m ²		x 50	=	
	Sum of Flow Column =				
Fixture Unit	# of Fixture Units >20	Volu	Flow		
Count (D)		x 50		=	
Daily Design	(Q) = Flow Value of ((A) + Largest F	low Value of (B) ((C) & (D)	
Sewage Flow (Q)	(Q)= +	(Q)=		L/day	
Sewage Flow (Q)	(Q)= +	(Q)=		L/da	
Treatment Unit					
N/BNQ 3680-600 Certified	I Level II, III, IV Treatment Unit:				
Design Information and CA	N/BNQ Certification Literature Atta	ached			
ptic Tank:		☐ New CSA B66 Standard ☐ Existing			
Residential (minimum capa	icity = 2xQ)	Gravity \square	Pump* (with alarr	m)	
Non-residential (minimum o	capacity = 3xQ) Tar	Tank Manufacturer:			

Working capacity of tank: _____ L

*Note: Pump systems require a permit from the Electrical Safety Authority (1-877-372-7233)

(Must be at least 3600L)

Tank Model:

Effluent filter: Yes No

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Section 2: Soil Design Criteria and Site Evaluation							
A. Percolation Rate and Classification of	f Nativ	re Soi	Laboratory Analysis Report Attached Percolation Test Documentation Attached				
☐ T>50 min/cm (not required to complete "test pit information" section below) ☐ T-time of Native Soil:min/cm							
Test Pit Information (indicate approximate depth of each soil type encountered)							
Test Pit #1 Soil Description	Depth (M)		Test Pit #2 Soil Description				
T	0.00	0.00	T				
	0.25	0.25					
	0.75	0.75					
	1.00	1.00					
	1.25	1.25					
	1.50	1.50					
	1.80	1.80					
☐ Groundwater encountered:m			Groundwater encountered:m				
Bedrock encountered:m			☐ Bedrock encountered:m				
Evidence of seasonal groundwaterm			Evidence of seasonal groundwaterm				
B. Percolation Rate of Design Soil (if Diff	ferent	from	Native Soil)				
T-Time of Design Material:		T-Tim	e of Mantle Material:				
☐ Laboratory Analysis Report Attached*		La	boratory Analysis Report Attached*				
* Reports must be no more than 24 months old.							
Section 3: Sewage System Design							
Will the system use innovative materials authoriz ☐ Yes – Attached BMEC Authorization and design p ☐ No	-						
System Characteristics (check all that apply) Raised System* Partially Raised Syst	·em*	□ τ _ν	pe I Leaching Chambers (EQ 24)				
☐ In-ground System ☐ Stone and Pipe	em	_ `	pe II Leaching Chambers (EQ 36)				
Indicate and complete the section that best describes your system design plan ☐ Section 3.1 Conventional Leaching Bed ☐ Section 3.2 Filter Bed System* ☐ Section 3.4 Shallow Buried Trench ☐ Section 3.5 Type A Area Bed ☐ Section 3.6 Type B Area Bed							
*You will need to complete section 3.3 in addition	1 to 3.1	or 3.2	for these types of systems.				

Section 3.1: Conventional Leaching Bed

Length of Distribution Pipe or Chamber (choose one of the following):

1. Systems using a septic tank paired with conventional pipe or Type I leaching chamber:

L = Pipe/Chamber Length (min.40m required) L = QT/200Q = Daily Design Sewage Flow (see S.2)

T = Percolation Rate (T-Time) of Design Soil

L= m

2. Systems using a septic tank paired with a Type II leaching chamber OR a Level II, III or IV Treatment Unit paired with conventional pipe or a Type I or II leaching chamber:

L = Pipe/Chamber Length (min.40m required)

L = QT/300Q = Daily Design Sewage Flow (see S.2)

T = Percolation Rate (T-Time) of Design Soil

m

Section 3.2: Filter Bed

Size of Effective Area (choose one of the following):

1. Systems with a Daily Design Sewage Flow (Q) <3000L (paired with septic tank)

A = Area in m^2 (min 10 m^2 required) A = Q/75

Q = Daily Design Sewage Flow (see S.2)

(maximum of 5000L permitted)

A =

I =

 m^2

2. Systems with a Daily Design Sewage Flow (Q) >3000L (paired with septic tank)

A = Area in m^2 (min $10m^2$ required) A = Q/50

Q = Daily Design Sewage Flow (see S.2)

(maximum of 5000L permitted)

A =

m²

3. Systems Paired with a Level II, III or IV Treatment Unit (Max Q = 10,000L)

A = Area in m^2 (min 10 m^2 required)

A = Q/100Q = Daily Design Sewage Flow (see S.2)

(maximum of 10.000 L permitted)

A =

 m^2

Size of Extended Contact Area:

Q = Daily Design Sewage Flow (see S.2) A = QT/850

T = Percolation Rate (T Time) of Native Soil

A =

 m^2

Section 3.3: Size of Loading Area (Mantle) (if applicable)

A= Area (m2)

Q = Daily Design Sewage Flow (see S.2)

LR = corresponding value from chart below:

A = Q/LR

T-Time of Native Soil	Loading Rate
1 <t 20<="" td="" ≤=""><td>10</td></t>	10
20 <t 35<="" td="" ≤=""><td>8</td></t>	8
35 <t 50<="" td="" ≤=""><td>6</td></t>	6
T>50	4

A =

 m^2

Section 3.4: Shallow Buried Trench

Length of Distribution Pipe (choose one of the following):

1. Percolation time of soil in minutes is 1 < T < 20:

2. Percolation time of soil in minutes is $20 < T \le 50$:

3. Percolation time of soil in minutes is 50 < T < 125:

Section 3.5: Type A Dispersal Bed

Sand Layer (choose one of the following):

1. Percolation time of underlying soil in minutes is $1 < T \le 15$:

A = the area of contact in m2 between the base of the sand

A = QT/850 and the underlying soil

and the underlying soil
Q = Daily design sewage flow (see S.2)
T = Percolation Rate (T-Time) of Native Soil

2. Percolation time of underlying soil in minutes is T>15

A = the area of contact in m2 between the base of the sand

L = QT/400 and the underlying soil, or leaching bed fill if utilized

Q = Daily design sewage flow (see S.2) T = Percolation Rate (T-Time) of Native Soil

$$A = m^2$$

Stone Layer or Leaching Chambers Spacing Area (choose one of the following):

- Systems with a Daily Design Sewage Flow (Q) <3000L
- 2. Systems with a Daily Design Sewage Flow (Q) >3000L

A = Q/75

A =

m²

A = Q/50

A =

m²

 m^2

Description of effluent distribution design:

include configuration and total length of distribution pipe or leaching chambers over stone layer

Section 3.6: Type B Dispersal Bed

Total Stone Area:

A = the area of contact in m2 between the stone layer and

A = QT/400 the underlying soil

Q = Daily design sewage flow (see S.2) T = Percolation Rate (T-Time) of Native Soil $A = m^2$

Length of Stone Area (Reminder: maximum width is 4m):

Q = Daily design sewage flow (see S.2)

LLR = <u>Linear Loading Rate</u>:

□ T≥ 24 mins/cm, use 40 l/min

T = Percolation Rate (T-Time) of Native Soil

 $A = m^2$

Description of effluent distribution design:

Include configuration and total length of pressurized distribution pipe and number and size of beds

Section 4: Effluent Pump Dosing & Cross-Sectional Drawings

Effluent Pump Dosing (where pump is required)

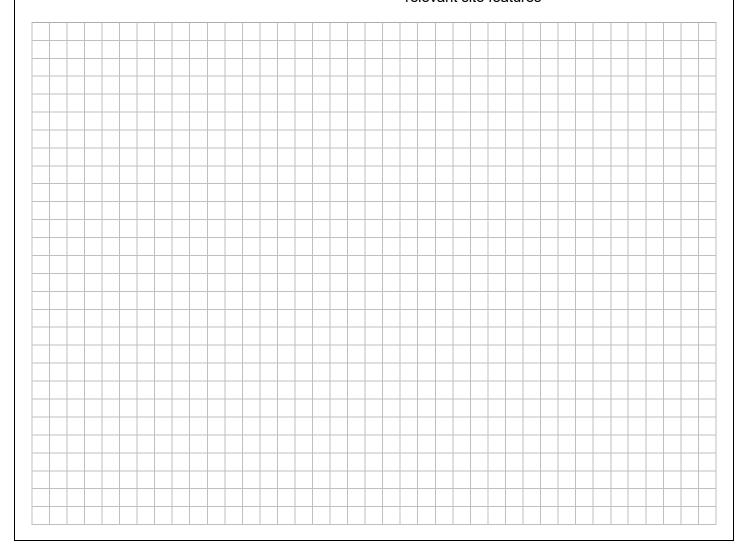
Minimum Dose Volume Calculation (L) By Pipe Diameter						
3" Diameter Distribution P	ipe	4" Diameter Distribution Pipe				
V = 3.3 x length of distribu V = 3.3 x	tion pipe (m)	V = 5.9 x length of distribution pipe (m) V = 5.9 x				
V =	L	V =	L			

Section 5: Cross-Sectional Drawings (fill-based systems only)			
In the area provided below, draw a cross-section of the leaching bed indicating:			
•	Leaching bed foundation depth in relation to all components of the leaching bed Location references to the groundwater table, bedrock or soil with a T time >50 min/cm Depth of excavation and the height of the top of the bed above existing grade on uphill & downhill sides		

Section 6: Lot Diagram

Drawings must be close to scale, accurately show the entire property with lot size & dimensions and include:

- □ Existing or proposed buildings
- □ Wells on the property and type (ie: dug/drilled)
- Neighbouring wells and type, if known
- □ Travelled roadways
- Location of any test pits
- □ Any existing sewage systems on the property
- Important topographical information such as watercourses, lakes, steep embankments, and bedrock outcroppings.
- Location of the proposed sewage system components on the property
- Clearance distances between the system and relevant site features



For Office Use Only:				
Permit Issuance Constitutes Permission to Construct up to a Substantial Completion.				
Additional Requirements:				
Permit Issued: _				
	Signature of Chief Building Official Part 8	Date		