Procedures for an Application for a Sewage System Permit

This Package Contains:

- 1. Northumberland County Application for a Sewage System Permit
- 2. Ontario Building Code Application for a Permit to Construct or Demolish
- 3. Proposed Sewage Disposal System Design Form
- 4. Calculation Sheet
- 5. Ontario Building Code and Guide Sheet

All forms provided in this package must be completed and returned to the Northumberland County with the appropriate fee.

- 1. A copy of a property survey must be submitted to complete application.
- 2. Should your property fall within a conservation authority or environmental protection zone, approval from the authorizing body must be provided.
- 3. Other approved sewage systems (B.M.E.C. approved) will require a copy of the B.M.E.C. approval for that system, and once completed will require submission of "as built" drawings and the maintenance agreement.

The Building Code Act does not allow the issuance of permits based on incomplete applications.

Sewage System Inspectors can only provide comments based on complete applications and plans. Therefore, incomplete applications may be returned to the Owner, or their Authorized Agent.

Once the completed application has been reviewed, an inspector will visit the property to inspect the test hole and site. The applicant will be either issued a permit to install the system or the reasons provided as to why a permit cannot be issued.

Information provided in this package is limited, and it is the responsibility of the applicant to ensure compliance with all applicable sections of the Ontario Building Code. The applicant should also keep a copy of all documents submitted.

Northumberland County 555 Courthouse Road Cobourg, Ontario K9A 5J6 905-372-1929

OFFICE USE ONLY
File Number:
Fee Receipt Number:
Date Fee Received:

Application for a Sewage System Permit

Ontario Regulation 350/06

Personal information contained on this form is collected under the authority of the Building Code Act 2006. It is used to facilitate the issuance of a Sewage System Permit as prescribed in Section 8 of the Act. Questions about this collection should be addressed to the Senior Sewage Inspector, 555 Courthouse Road, Cobourg, Ontario, K9A 5J6

1.	NAME OF OWNER: TEL. NO.:
	PRIMARY MAILING ADDRESS:
	Number/Unit, Street Town/City Postal Code
2.	PROPOSE TO: AOR
	Install or Repair Holding tank, Leaching Bed System, Filter Bed, Other Treatment Unit and/or system a privy, specify make and model number a privy, specify make and model number
2	
3.	TYPE OF BUILDING: ROLL #: ROLL #:
	PROPOSED DEVELOPMENT
4.	LOCATION:
	County/City Township, Municipality Lot # Conc. # Plan #
	Sub Lot # Lot size Civic (Emergency Fire, 911) # Street
5.	STATE THE NUMBER OF:
	(Includes guest cabins, bunkies, basements etc.) Bedrooms Showers Hand Wash Laundry Toilets Kitchen & Bathtubs Basins Units Sinks
	& Bathtubs Basins Units Sinks NOTE: Do not drain water treatment devices into sewage system.
6.	TOTAL AREA OF LIVING SPACE ON PROPERTY (includes guest cabins, bunkies, etc.):m2
	Is there more than one building on the property? ☐ Yes ☐ No
	Is there more than one sewage system on the property? ☐ Yes ☐ No
7.	WATER SUPPLY: Dug well Municipal System Drilled Well (Depth of Steel Casing) Metres
M	WATER SUPPLY: U Dug well U Municipal System Drilled Well (Depth of Steel Casing) Metres U Surface Water U Other
	☐ Proposed or ☐ Existing
	NOTE: We require the type and location of any well on neighbouring properties be provided.
8.	
٥.	NAME OF AUTHORIZED AGENT (If other than owner, print):TEL. NO.:TEL. NO.:
9.	I CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND CORRECT AND THAT, IF APPROVED, THE WORK WILL CONFORM WITH PROVINCIAL REQUIREMENTS FOR SEWAGE SYSTEMS AND LOCAL MUNICIPAL BYLAWS.
	WITH NO VINOS LETTERS TO TO TO SEVINGE STOTE WIGHT BOOKE BY LAVIS.
	NAME OF OWNER OR AUTHORIZED AGENT (Please Print) SIGNATURE OF OWNER OR AUTHORIZED AGENT DATE OF APPLICATION
	IMPORTANT INFORMATION!
A.	Please attach a cheque or money order (Canadian funds) for the required fee, payable to Northumberland County
B.	If the application is for a holding tank, a signed pump-out agreement must be attached.
C.	To determine the type and depth of soil in the proposed leaching bed, a TEST PIT must be excavated to a MINIMUM DEPTH of 1.5 metres (or at least to rock or water) prior to inspection. Please advise when test hole is ready. It is suggested that a protective cover be placed over the hole.
NO	The inspection of the property will not be made until you notify us that a test hole has been provided.

THE REVERSE SIDE OF THIS APPLICATION MUST BE COMPLETED!

Northumberland County 555 Courthouse Road Cobourg, Ontario K9A 5J6 905-372-1929

DIRECTIONS TO PROPERTY (Show Highway No., Secondary Roads, Signs to Follow, Landmarks, 911 Address, etc.)

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

The second of the second	For us	· 经公司的 2000年 115 4000 115 115 115 115 115 115 115 115 115	ipal Authority	en e	Sugar Sugar
Application number:	at a still a straight and a state of the sta	Pern	nit number (if differe	ent);	
Date received:		Poll	number:		
		KUII	number:		
		Air-ant			
		sa:			
Application submitted to:(Name	e of municipality, upper-t	ier municipality	hoard of health or co	page (atlan authority)	
A. Project information				nservation authomy)	Productive Coules, 1984, 1754 to Sports
Building number, street name	Section 2424Th restriction of the	order parties and		Unit number	Lot/con.
Municipality	Postal	code	Plan number/or	ther description	
Project value est. \$			Area of work (n	n ²)	
			,		
B. Purpose of application New construction	THE PERSON NAMED OF THE PARTY OF	richt, Mingraph			er Hattikerina Alaysii oo a Hattikaan Afrikaa
	Addition to an existing building	Alt	eration/repair	Demolition	Conditional
Proposed use of building	<u> </u>	Current use	of building		Permit
Description of proposed work					
C. Applicant Applica	ant is: Owner	or in the	Authorized age	nt of owner	
Last name	First nar		Corporation or p	partnership	· · · · · · · · · · · · · · · · · · ·
Street address				Hait muss bar	
				Unit number	Lot/con.
Municipality	Postal c	ode	Province	E-mail	
Telephone number	Fax			Cell number	
()	()			()	
D. Owner (if different from ap	The second of th				
Last name	First nan	ne	Corporation or p	partnership	and the second s
Street address				111 %	
				Unit number	Lot/con.
Municipality	Postal co	ode	Province	E-mail	
Telephone number	Fax				
()	()			Cell number	
Harding Co. T. C.					1

Application for a Permit to Construct or Demolish - Effective January 1, 2014

E. Builder (optional)			and the state		
Last name	First name	Corporation or pa	rtnership (i	f applicable)	
Street address	-		Uni	t number	Lot/con.
Municipality	Postal code	Province	E-m	nail	
Telephone number ()	Fax ()		Cel	l number)	
F. Tarion Warranty Corporation (Ontar	io New Home Warr	anty Program)	12 12 12 12		v energy y
i. Is proposed construction for a new hor Plan Act? If no, go to section G.	ne as defined in the C	Intario New Home Wari	ranties	Yes	No
ii. Is registration required under the Onta	rio New Home Warrar	nties Plan Act?		Yes	No
iii. If yes to (ii) provide registration numbe G: Required Schedules		apor 14		- I	
i) Attach Schedule 1 for each individual who re				24 E.C. 1015/1907/194	aus en engantisch segit magnist in betähmt
ii) Attach Schedule 2 where application is to cor	nstruct on-site, install o	or repair a sewage syste	em.		
H. Completeness and compliance with	applicable law	Altaria	Y 2 1 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	
 This application meets all the requirements of Building Code (the application is made in the applicable fields have been completed on the schedules are submitted). 	correct form and by t	he owner or authorized	agent ell	Yes	No
Payment has been made of all fees that are regulation made under clause 7(1)(c) of the application is made.	Building Code Act, 199	92, to be paid when the		Yes	No
ii) This application is accompanied by the plans resolution or regulation made under clause 7	(1)(b) of the Building (Code Act 1992		Yes	No
iii) This application is accompanied by the inform law, resolution or regulation made under clau the chief building official to determine whether contravene any applicable law.	ise 7(1)(b) of the <i>Build</i> or the proposed buildir	ding Code Act, 1992 wh ng, construction or demo	ioh onahla	Yes	No
iv) The proposed building, construction or demo	lition will not contrave	ne any applicable law.		Yes	No
I. Declaration of applicant			on which they		401000000000000000000000000000000000000
The second of th	renewal the success of the contract the second second	and the second of the second o	State of Asia		
I(print name)				de	eclare that:
(print name)					
 The information contained in this applic documentation is true to the best of my If the owner is a corporation or partners 	KUCWIECCE				her attached
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

Schedule 1: Designer Information

Use one form for each individua A. Project Information	Wight to the same takes to	A TONE OF GOS		The state of the s
Building number, street name		The second section of the second seco	Unit no.	Lot/con.
Municipality	Postal code	Plan number/ oth	er description	
3. Individual who reviews	and takes responsibil	ity for design act	Marketara - Araber a energia	The state of the s
Vame	and tailoo rooponsibil	Firm	IVILIES	en de la descripción de la composición de la composición de la composición de la composición de la composición La composición de la
V				
Street address			Unit no.	Lot/con.
/lunicipality	Postal code	Province	E-mail	
elephone number	Fax number		Cell number	
) . Design activities under livision Cl	()		17	
Small Buildings Large Buildings Complex Buildings escription of designer's work	Detecti	g Services ion, Lighting and Povotection	Plumb ver Plumb	g Structural ing – House ing – All Buildings e Sewage Systems
: Declaration of Designer				
Declaration of Designer			declare that (cho	
: Declaration of Designer				
I review and take re C, of the Building C	(print name) sponsibility for the design ode. I am qualified, and th	work on behalf of a figer firm is registered.	declare that (cho	ose one as appropriate
o, or allo ballaring o	(print name)	work on behalf of a figer firm is registered.	declare that (cho	ose one as appropriate
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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.
- Schedule 1 is not required to be completed by a holder of a license, temporary license, 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 license to practise, a limited license to practise, or a certificate of
 authorization, issued by the Association of Professional Engineers of Ontario.

Schedule 2: Sewage System Installer Information

Building number, street name			Unit number	Lot/con.
Municipality	Postal code	Dlan number/ other		
	1 Ostal Code	Plan number/ other	description	
Sewage system install				
s the installer of the sewage sy emptying sewage systems, in a Yes (Continue to Section	coordance with ballang C	ness of constructing on- ode Article 3.3.1.1, Divi (Continue to Section E	sion C? () Installe	g, servicing, cleaning or r unknown at time of tion (Continue to Section E
C. Registered installer in	formation (where answ	ver to B is "Yes")	SETTLOPING CONTRACTOR	
Name		volito Dila Treat/	BCIN	
Street address			Unit number	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number)	Fax ()		Cell number	
. Qualified supervisor in	formation (where ans	wer to section P is (Vaannaa ja j	ANAMENTAL SERVICE STORY OF THE SERVICE
		Building Code Identific	Carlo	
lame of qualified supervisor(s)		THE TAXABLE PROPERTY OF THE PR	Carlo	
Name of qualified supervisor(s)	nt :°	Building Code Identific	Carlo	declare that:
lame of qualified supervisor(s) Declaration of Application (print I am the applicant for t shall submit a new Sch		Building Code Identific	cation Number (BCIN)	
lame of qualified supervisor(s) Declaration of Application (print I am the applicant for t shall submit a new Sch	nt: name) he permit to construct the nedule 2 prior to constructi	Building Code Identification in the sewage system. If the son when the installer is	nstaller is unknown at t	ime of application, I
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(print I am the applicant for t shall submit a new Sch OR I am the holder of the p is known.	name) he permit to construct the nedule 2 prior to construction	Building Code Identification sewage system. If the son when the installer is vage system, and am su	nstaller is unknown at tknown; bmitting a new Schedu	
(print I am the applicant for t shall submit a new Sch OR I am the holder of the p is known.	name) he permit to construct the nedule 2 prior to construction permit to construct the sew ed in this schedule is true	Building Code Identification sewage system. If the son when the installer is a system, and am such to the best of my knowless.	nstaller is unknown at tknown; bmitting a new Schedu	ime of application, I

Proposed Sewage Disposal System Design

Owner of Property.	
1. TOTAL DAILY DESIGN SEWAGE FLOW:	LITRES PER DAY
2. NATIVE SOIL PERCOLATION RATE:	
3 SEPTIC TANK SIZE:LI	
4. LEACHING BED DESIGN: Complete A or B, C & D (if	
A. Absorption Trench System	
Please indicate the depth of the bottom of the sto	
Bottom of Stone Layermetre	
B. Filter Bed Sizem ² F	
Please indicate the depth of the bottom of the sto	
Bottom of Stone Layermetres	
C. Tertiary Sewage System Type	
Stone Area Sand Area	
D. Loading Rate Aream²	E. 15 m Extended Sand Area (mantle)
	Constructed Native (Circle)
 Note: At least 900mm above the high ground water than 50 minutes. 	table, rock or soil with a percolation time greater
Side View Profile of Sewage System NOTE: Show elevation above water table, bedrock or impermeat Show elevation of finished grade with respect to original grade.	ole layer, existing grade etc.

Proposed Design Site Plan Indicate North Point and show the	following required information:	
 Septic Tank and Leaching Bed Pump Chamber Loading Rate Area 15 metre Mantle Area Proposed Structures Water Supplies (incl. neighbours) 	 Existing Sewage Systems Driveways Surface Waters Property Lines Foundation Drain Eavestrough Discharge 	 13. Topographical Features (steep slopes, swamps etc.) 14. Direction of Slope 15. Direction of Surface and Ground Water Flow
Note: The loading rate area and the	ne 15 metre mantle area are to be	free of structures.
'Owner/Installer/Designer Name	01	
Same person who filled out "B" on schedule 1 of	Signature OBC Application Form.	Date
	Office Use Only	
Approved: Yes No File#		
Reviewed By:		
Sewage System Inspector's Name	Signature	Date

Date

Calculation Sheet

Ontario Building Code Proposed Requirements -Residential Sewage Disposal System

Name:	Address:	Tel: /
1. Sewage Flow		
a) Number of bedrooms:	_ =	[:h(4)
b) Living Space: Each 10 m ² over 200 m ² up to 400 m ² : Each 10 m ² over 400 m ² up to 600 m ² :	x 100 =	Litres (1) Litres Litres
c) Total Fixture Units: Each Fixture Unit over 20:	OR ADD (whichever is the larger flow) x 50 =	Total:Litres(2)Litres (3)
	Total Sewage F	Flow: (Q)(Add 1 + 2 or 3)Litres
2. Septic Tank Size		Litres
Residential Occupancy: Sewage	Flow: x 2 =	Litres (Minimum - 3600 Litres)
3. Leaching Bed Size		Litres (Minimum - 3600 Litres)
Length of Pipe = Sewage Flow x Pe	rcolation Time	
$L = \frac{QT}{200} = \frac{x}{200}$	=m. or Rounded to:m. or	f trenchft. of trench trenchft. of trench
4. Loading Rate for Fill-Based Absorption	Trenches and Filter Beds	
Loading Rates Percolation Time 1-20 20-35 35-50 > 50 Sewage Flow + Loading Rate = + =	10 8 6 4	SOIL CONDITION Depth (metres) Soil Type 0 0.5
5. Filter Bed Size		1.0
Sewage Flow > 3000 Litres/Day: Se	ewage Flow \div 75 = m ² m ² of filter bed ewage Flow \div 50 = m ² m ² of filter bed	Show Rock Elevation Show Water Table W
		Show water rable
6. Filter Bed Contact Area of Filter Sand	2-6	
Area = Sewage Flow x Percolation Ra 850		
$A = QT = x \\ 850 850$	_ =m² of contact area	
Expanded contact area is to be no less	than the filter bed size.	
Owner/Contractor/Designer's Name:		
		- Date:
		Date:

Ontario Building Code & Guides

Table 7.9.4.3.
Minimum Permitted Size of Fixture Outlet Pipe and Hydraulic Loads for Fixtures

Fixture	Min. Size of Fixture Outlet Pipe, in.	Hydraulic Load, fixture units
Autopsy table	1½	2
Bathroom group		
a) with flush tank		6
b) with direct flush valve Bathtub (with or without shower)		8
Bathtub: foot, sitz, or slab	1½	1½
Bed pan washer	1½ 3	11/2
Beer cabinet	3 1½	6
Bidet	11/4	1½ 1
Chinese range	11/2	3
Clothes washer		J
a) domestic	N/A	11/2 with 11/2 in. trap
b) commercial	N/A	2 with 1½ in. trap
Dental unit or cuspidor	11/4	1
Dishwasher		1/2
a) domestic	1½	no load when connecte to garbage grinder
b) commercial type	2	or domestic sink
Drinking fountain	11/4	3 ½
Fish tank or tray	11/2	/2 1½
Floor drain	2	2 with 2 in. trap
	-	3 with 3 in. trap
Garbage grinder	2	3
cebox	11/4	Ĭ
aundry tray		
a) single or double units or	11/2	11/2
2 single units with common trap		
b) 3 compartments avatory	1½	2
a) barber or beauty parlor	1½	447
b) dental	11/2	1½
c) domestic type single, or	11/4	1 1 with 1¼ in. trap
2 single with common trap	11/4	1½ with 1½ in. trap
d) multiple or industrial type	11/2	3
otato Peeler	2	3
hower drain		v
a) from 1 head	11/2	11/2
b) from 2 or 3 heads	2	3
c) from 4 to 6 heads	3	6
ink		
a) domestic and other small type	11/2	1½
with or without garbage grinders, single, double, or 2 single with		
a common trap		
b) other sinks	1½	417
o, suid onnie	1/2	1½ with 1½ in. trap
		2 with 2 in. trap 3 with 3 in. trap
rinal		o wiui o in. trap
pedestal, siphon jet or blowout type	2	4
o) stall, washout type c) wall	2 .	2
i) washout type	1½	1½
ii) other types	2	3
All Control of Physics and SE 20	100	•
ater closet		
ater closet) with flush tank) with direct flush	3	4

Table 8.2.1.3.A. Residential Occupancy

Residential Occupancy	Volume (litres)
Apartments, Condominiums, Other Multi-family Dwellings - per person ¹ . Boarding Houses a) Per person,	275
i) with meals and laundry facilities, or.	200
ii) without meals or laundry facilities, and	150
b) Per non-resident staff per 8 hour shift	40
Boarding School - per person	300
Dwellings a) 1 Bedroom Dwelling b) 2 Bedroom Dwelling c) 3 Bedroom Dwelling d) 4 Bedroom Dwelling e) 5 Bedroom Dwelling f) Additional flow for [®] i) each bedroom over 5, ii) A) each 10 m² (or part thereof) over 200 m² up to 400 m² m, B) each 10 m² (or part thereof) over 400 m² up to 600 m² m, and C) each 10 m² (or part thereof) over 600 m² m, or iii) each fixture unit over 20 fixture units	750 1100 1600 2000 2500 500 100 75
Hotels and Motels (excluding bars and restaurants)	50
a) Regular, per room b) Resort hotel, cottage, per person c) Self-service laundry, add per machine	250 500 2500
Nork Camp/Construction Camp, semi-permanent per worker	250

Table 8.2.1.5.
Clearance Distances for Sewage Systems

5 · · · · · · · · · · · · · · · · · · ·						
	Clearance Distances for Class 1, 2 and 3 Sewage Systems					
	Minimum horizontal distance in metres from a well with watertight casing to a depth of at least 6 m.	Minimum horizontal distance in metres from a spring used as a source of potable water or well other than a well with a watertight casing to a depth of at least 6 m.	Minimum horizontal distance in metres from a lake, river, pond, stream, reservoir, or a spring not used as as source of potable water.	Minimum horizontal distance in metres from a Property Line.		
Earth Pit Privy	15	30	15	3		
Privy Vault Pail Privy	10	15	10	3		
Greywater System	10	15	15	3		
Cesspool	30	60	15	3		

Table 8.2.1.6.A. **Minimum Clearances for Treatment Units**

Structure	45
	1.5 m
Well	15 m
Lake	15 m
Pond	15 m
Reservoir	15 m
River	15 m
Spring	15 m
Stream	15 m
Property Line	3 m

Note:

- 1. All clearance distances are increased by twice the height that the leaching bed/filter bed is raised above the originial ground.
 2. Clearances may be increased to to municipal bylaws.

Table 8.2.1.6.B. Minimum Clearances for Distribution Pipe

	_
Structure	5 m
Well with a watertight casing to a depth of 6 m	15 m
Any other well	30 m
Lake	15 m
Pond	15 m
Reservoir	15 m
River	15 m
A spring not used as a source of potable water	15 m
Stream	15 m
Property Line	3 m
500 884	*****

Table 8.2.1.6.C. Minimum Clearances for Holding Tanks

Structure	1.5 m
Well with a watertight casing to a depth of at least 6 m	15 m
Any other well	15 m
A spring	15 m
Property Line	3 m

NOTE: Greywater systems must be maintained at least 5 metres from any structure.

Table 2. Soil Percolation Rates

Soil Type (unified soil classification) Coarse Grained -	Coefficient of Permeability K - cm/sec.	Percolation Time - T mins/cm.	Comment	
More than 50% larger than #200				
G.W Well graded gravels, gravel-sand mixtures, little or no fines.	10-1	<1	very permeable unacceptable	
G.P Poorly graded gravels, gravel-sand mixtures, little or no fines.	10-1	<1	very permeable unacceptable	
G.M Silty gravels, gravel sand- silt mixtures.	10 ⁻² -10 ⁻⁴	4-12	Permeable to medium permeable depending on amount of silt.	
G.C Clayey gravels, gravel-sand-clay mixtures.	10⁴-10⁴	12-50	Important to estimate amount of silt and clay.	
S.W Well-graded soils, gravelly sands, little or no fines,	10-1-10-4	2-12	medium permeability	
S.P Poorly graded sands, gravelly sand, little or no fines.	10-1-10-3	2-8	medium permeability	
S.M Silty sands, sand-silt mixtures.	10-3-10-5	8-20	medium to low permeability	
S.C Clayey sands, sand-clay mixtures.	10-4-10-8	12-50	medium to low permeability (depends on amount of clay)	

Table 3. Approximate Relationship of Soil Types to Permeability and Percolation Time

Soil Type (unified soil classification) Fine Grained - More than 50% passing #200	Coefficient of Permeability K - cm/sec.	Percolation Time - T mins/cm.	Comment
M.L Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, clayey silts with slight plasticity.	10 ⁻⁵ - 10 ⁻⁸	20 - 50	medium to low permeability
C.L Inorganic clays of low to medium plasticity gravelly clays, sandy clays, silty clays, lean clays.	10 ⁻⁶ and less	over 50	unacceptable
O.L Organic silts, organic silty clays of low plasticity; liquid limit less than 50	10 ⁻⁵ and less	20 - over 50	acceptable depends on clay content
M.H Inorganic silts, micareaous or diatomageous fine sandy soil or silty soils, elastic silts	10 ⁻⁸ and less	over 50	unacceptable
C.H Inorganic clays of medium to high plasticity, organic silts	10 ⁻⁷ and less	over 50	unacceptable
O.H Organic clays of medium to high plasticity- organic silt; liquid limit over 50	10 ⁻⁵ and less	over 50	unacceptable