MUNICIPALITY OF THE

PERMIT NUMBER:

016806S

ISSUED BY: Mike Gooch

### TOWN OF HUNTSVILLE

37 Main Street East, Huntsville Ont. P1H 1A1

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#### SEWAGE SYSTEM PERMIT

Building Code Act, R.S.O. 1992, Chapter 23, as amended

OWNER:

CONSTRUCTION CO: Green's Haulage

PROPNUM:

444204001804703

ADDRESS:

41 ALLENSVILLE RD

DATE ISSUSE

19-May-06

CLASS: 4

NOTES:

Three bedroom - 15.5 Fix.

This permit is granted on the express condition of full compliance with all provisions of the BUILDING CODE ACT, R.S.O., 1992, Ch.23, and regulations made thereunder, and of any by-law or any amendment thereto of the Municipality, which in part, or in whole, regulates the structural requirements, the erection, alteration, location, use, etc., of buildings, unless otherwise specified, so provided for, and approved of in writing, by the Chief Building Official. This permit is subject to revocation pursuant to SubSection 8(10) of the Building Code Act.

#### REQUIRED SEWAGE SYSTEM INSPECTIONS

Subject to Section 2.4.5 of the Ontario Building Code, the person to whom the permit has been issued, is responsible for arranging the following inspections:

- Readiness to Construct the Sewage System
- \_2. Substantial completion, prior to backfilling
- 3. Completion of Sewage System

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#### **SEWAGE SYSTEM INSTALLATION PROPOSAL**

TOTAL # OF BEDROOMS :	3	TOTAL FLOO	R AREA: /8	C m <sup>2</sup>		
TOTAL PLUMBING FIXTURE UNITS:	15.5	"T" TIME	OF SOIL: 3	0 .		
TOTAL DAILY DESIGN FLOW RATE (Exp	ressed in Litres/day):		Q = /	600		
Septic Tank Size =Q X 2 = //	<u>00</u> x2 = <u>3</u> 2	<u>OO</u> Litres (Minimur				
Absorption Trenches = (length	of distribution pipe	e) = QT/200 =	<u>m</u> (Minimum 40	) meters)		
Filter Bed area = Q/75 (Q< 3000	I) = <u>21.3</u> squa	re meters <u>or</u> Q/50 (	Q>3000I) =	_square mete	ers	
Base of Filter medium + QT/850	Base of Filter medium + QT/850 = 56.5 square meters  T LOADING RATE 1 - 20 10					
Mantle area = Q/ loading rate =	<i>200</i> sqi	uare meters	20 - 35 35 - 50	8 6		
PROPOSE TO CONSTRUCT:			OVER 50	4		
CLASS 4 FILTER BED	PROOF OF APPROVE	D FILTER MATERIAL MUST	BE PROVIDED PRIOR	TO FINALINSPEC	LION	
Dug Into Existing Soil Raised	If Raised, How	Far Above Existing Soils?	/ metres	Mantle Area	200 m²	
Area Of Filter Medium 2/.3m²	Base of Filter 56.	Or total length of tile	e Nun	ber of runs	4	
Use Existing Tank New	CSA Standard	Treatment Unit Other than septic tank	Wor	king Capacity	3600 litres	
CLASS 2 GREY-WATER PIT or ( Wall Structure Concrete Block	CLASS 3 CESSPO					
		Other:				
Dimensions Of Pit Length:  Type Of Class 1 To Be Used Pr	Width:	Height:	- <del></del>	ype Of Cover:		
Type Of Class 1 to be osed Pi	ivy Composti	ing Chemical	Electrical	Other:		
CLASS 5 - HOLDING TANK - PU		CT MUST BE PROVID	ED (District A	oproval Requi	red)	
Concrete	Polyethylene		Other:			
Size (L) Alarm Is -	- Audio And	Visual Describ	e Platform:			
IS A PUMP REQUIRED?						
Yes No Raw Sewage Effluent						
Name of Site Supervisor: ////	1 GREEN S	Supervisor's Licence	#: 1572	2		
Sewage System Designed By:	TIM GRE	ZEU.				
ALL APPLICATIONS MUST INCLUDE A SITE PL	AN WHICH LOCATES ALL F	EATURES AND STRUCTURES	NITH <u>ALL DISTANCES INI</u>	DICATED , PREFERA	BLY	
DRAWN TO SCALE.  INCLUDE THE FOLLOWING ON THE SITE PLAN:						
PROPERTY LINES & TOPOGRAPHIC FEATURE						
Water courses/Water bodies/swamps, c		e & direction.				
<ul> <li>EXISTING &amp; PROPOSED STRUCTURES</li> <li>All buildings, driveways, utility easemel include neighbours). Installer to verify</li> </ul>						
□ EXISTING & PROPOSED SEWAGE SYSTEM						

Sub-surface conditions encountered			
Rock & G.W.T.	Depth (m)	Soil Type	"T" Time
110 Occ 1/ AD	-0- <u>-0.25</u>	TOPSOIL	30
No testing	- 0.50 - - 0.75		-
Grown where	- 1.00 - 1.25 -	CIRY	1
	Rock & G.W.T.	Rock & G.W.T. Depth (m) -00.50 -0.50 -0.75	Rock & G.W.T.  Depth (m)  -0-  1025  -0.50-  -0.75  -1.00  Soil Type  Soil Type  -0.75  -0.500.75  -1.00

# THE CHARTS BELOW ARE FOR GUIDANCE PURPOSES ONLY You should always refer to the Ontario Building Code for current regulations.

TOTAL DAILY DESIGN FLOW RATES FOR RESIDENTIAL OCCUPANCY "Q" (Litres/Day)			Example of how to determine da design flow rate:	
Dwellings:	-		Using a 4 bedroom, 235 m² home	
a) I bedroom dwelling	750	i	with 22 fixture units.	
b) 2 bedroom dwelling	1100		with 22 lixture wills.	
c) 3 bedroom dwelling	1600		4 bedroom home>200 m <sup>2</sup> or >20	
d) 4 bedroom dwelling	2000	·	fixture units.	
e) 5 bedroom dwelling	2500		1.	
f) Additional flow for:			4 bedrooms = 2000 Uday	
i) each bedroom over 5 ii) A) each 10 m² (or neit thereof)	500		Additional 35 m <sup>2</sup> = 400 Uday	
			Additional fixture units (2)	
over 200 m² up to 400 m²	100		= 100 Uday	
B) each 10 m <sup>2</sup> (or part thereof) over 400 m <sup>2</sup> up to 600 m <sup>2</sup>			Q = 2,400 litres/day	
C) each 10 m <sup>2</sup> (or part thereof)	75	· · · ·	Q - 2,400 iliterally	
over 600 m <sup>2</sup>	**	į.	If, as in the example, there is a	
iii) each fixture unit over 20	50 50		choice in arriving at the flow rate	
	30		(i.e. fixture units vs floor area) use	
		1	the one calculation that provides	
		• .	the greatest daily flow rate value.	

APP The following are estimated typic Soil Type → Clean Medium	ROXIMATELY	SOIL PERCOI	ATION RATES #7	due to an also and a	
Soil Type → Clean Medium - Course Sand	Silty Gravely Sands	Silty Sands Sandy Silts	Sandy Silty Clavs	Silty	Clay
1 3 6	8 10	16 20 25		Clays	

Class 4 Filter Bed (Surface area of filter medium in square metres)	COMPONENTS OF SEPTIC SYSTEMS BASED ON  If daily flow rate is <3000 Uday +75  If daily flow rate is >3000Uday + 50  Minimum area of filter medium = 10 m <sup>2</sup> Maximum area of filter medium = 50 m <sup>2</sup>	Example using the total flow rate from above Flow rate = 2000 Uday Area of Bed (A) = 2,400 + 75 = 32m <sup>2</sup>
Class 4 Trench Bed (Total length of distribution pipe in metres)	Formula for conventional beds without secondary Treatment units: L = QT + 200 Where: L is total length of pipe Q is total daily design flow rate T is soil percolation rate Minimum length of tile = 40 metres	Example using the total flow rate from above  Q = 2,400 l/day  T = 6 min/em (if using typical med-course Sand)  L = (total length of distribution pipe)  = QT + 200
Septic Tank (litres – 6)	Tank(e) must have a minimum working capacity of 2 times the daily design flow rate.  MINIMUM TANK SIZE = 3,600 £	L = $(2.400 \times 6) + 200 = 72$ metres  Example using the total flow rate from above Of 2.400 litres per day then the minimum tank size would be: $2 \times 2.400 \ell = 4.800 \ell$

CLEAR	NCE DIST.	ANCES FO	R COMPON	ents of sev	vage system	IS (metres)	
2 metres for every 1 metre of rise. Class 4 Distribution Pipe	(with 6 m	(no 6 m	Springs (potable)	Springs (not potable)	Surface Water (lake, river, etc)	Property Lines	Dwellings/ Structures
Class 4 Septio Tank Class 5 Holding Tank	3 m	30 m 30 m	30 m	30 m 15 m	15 m	] m	3 m
Class   Privy	15 m	30 m	30 m	15 m 30 m		3 m 3 m	1.5 m 1,5 m
Class 2 Grey-water Pit	15 m	30 m	30 m	15 m	15 m	3 m	

Per Fixture	# of Units Dwellin		ng #1	Dwelli	Dwelling #2		Sleeping Cabin		Other	
	Fixture	# of Fixtures	# of Units	# of Fixtures	# of Units	# of	# of	# of	# of	
Bathroom Group	6	7	6	A IVITAL ES	Units	Fixtures	Units	Fixtures	Units	
Toilet	4	<del>                                     </del>	<del>- ŭ</del> -	·						
Wash Basin (Lavatory)	1 7	<del>  </del>	<del></del>	-					1	
Bathtub or Shower	1.5	<del> </del>								
Bidet	<del>                                     </del>			300	13.					
Kitchen Sink (single or	1.5		<u> </u>		(%					
double)	1.5		1.5							
Bar Sink	1.5	<u> </u>	<del></del>	7						
Washing Machine	1.5		115							
Other	DISHWASHER				,		·			
TOTAL FIXTURE UNITS	Properties Carr	L	./.5							
TINITON TO COLUMN OF THE PARTY			15.5			,		L		
FINISHED FLOOR AREA				· · · · · · · · · · · · · · · · · · ·			L			

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## APPLICATION FOR A BUILDING PERMIT FOR A SEWAGE SYSTEM

MUNICIPAL OFFICIALS WILL NOT COMPLETE THIS FORM THE APPLICATION MUST BE COMPLETED IN INK

