

#### LMAS DISTRICT HEALTH DEPARTMENT

Environmental Health A Personal & Family Health Emergency Preparedness www.lmasdhd.org

Luce County
& Administrative Office
14150 Hamilton Lake Road

Newberry, MI 49868 Ph: (906) 293-5107 Fax: (906) 293-5453 **Mackinac County** 

749 Hombach Street St. Ignace, MI 49781 Ph: (906) 643-1100 Fax: (906) 643-0239 **Alger County** 

E9526 Prospect Street Munising, MI 49862 Ph: (906) 387-2297 Fax: (906) 387-2224 **Schoolcraft County** 

300 Walnut Street, Room 155 Manistique, MI 49854 Ph: (906) 341-6951 Fax: (906) 341-5230

## Onsite Sewage Disposal System Construction Permit Application

(Other than single family residential and less than 10,000 gallons/day capacity)

Note: There is a \$26.00 additional charge, per request, for services requiring travel to an island.

## To obtain a construction permit, submit the following:

1. Detailed site and system construction plans;

- 2. Enclosed requested details (information on plans need not be duplicated in this application);
- 3. Other if applicable
- 4. Application fee: < 2000 gallons/day \$458.00

> 2000 gallons/day \$577.00

#### Important Notes:

- 1. Sewage volume determination, site condition requirements and minimum disposal system specifications are contained in "Michigan Guidelines for Subsurface Sewage Disposal", Michigan Department of Public Health, publication D-48, Rev. 6/89.
- 2. For systems exceeding 10,000 gallons/day, submit plans to Michigan Department of Environmental Quality (DEQ) for review and approval.

For systems with flows of 2,000-10,000 gallons/day including systems with a sewage output less than 2,000 gallons/day, detailed construction plans, prepared by a Michigan registered professional engineer, are required. The requirement for submittal of plans may be waived at the discretion of the health officer for small systems with flows less than 1,000 gallons per day (provided the cost of such system is less than \$15,000).

3. It is recommended that your consultant make a preliminary site evaluation before any extensive engineering design work commences. If the site is unsuitable, such identification will eliminate unnecessary costs for engineering planning and design. If you desire, this department can conduct a pre-preliminary site evaluation to help identify unsuitable building sites. There is a \$182.00 site evaluation fee for this purpose and the applicant must provide backhoe cut(s) to a depth of 6' for soil evaluation. Note that site evaluations are generally conducted weather permitting (i.e., no snow on the ground), usually May through October.

# Commercial Sewage System Application

Office	Use Only
CLIENT ID #:	
Fees Paid Date Dheck # Receipt#	

I. PROJECT IDENTIFICATION	
Type:vacant land existing development	
2. Establishment name	
3. Business type (use)	
4. ApplicantAddress	
Phone  5. Location:	
CountyN, RW, Section Property Description number	
6. Detailed directions to project site:	
II. SITE REPORT	
1. Lot/parcel: length, width, # of acres	_
<ol> <li>Soil profile data – record on plans or attach addition sheets. Use United States De Agriculture soil classification scheme. Record to six feet. Include actual and seaso table elevation if less than six feet below grade.</li> </ol>	epartment of onal high water
3. Percent (%) slope of steepest grades on property of filling of land anticipated? yes no  Type of fill material to be used  Fill depth (feet); Fill area: width (feet); length (feet)  Mound side slope ratio (vertical dimension); (herizontal) No (herizontal)	 eet)
Mound side slope ratio (vertical dimension): (horizontal) Mini distance provided to: well(s) (feet), surface water (feet), lot line.	mum isolation nes (feet).

			Si	te Evalua	ation			
Propert Owners Propert	y ID: Name y Size:		-	-	T R	SEC.		)
Utilities Distances between all of the above Test Hole Location(s) Replacement Area (RA)								
Soils consistent across site: Y N Topography:SlightModerateSevere Existing well? Y N  Replacement area available: Y N Benchmark(s): Municipal Water? Y N								
GPS: XY	Excavation #1	-	GPS: XY	Excavation #2	_	GPS: XY	Excavation #3	_
Depth to Bottom of Stratum	Thickness of Stratum	Soil Texture	Depth to Bottom of Stratum	Thickness of Stratum	Soil Texture	Depth to Bottom of Stratum	Thickness of Stratum	Soil Texture
Depth to Limiting Layerft.  No Evidence of water table				g Layerft. water table [		Depth to Limitin No Evidence of N	g Layerft. water table [	

III.	DES	SIGN DATA
	1.	Volume of flow (gallons/day)
		Basis for flow determination
		Loading rate gal./sq. ft./day
	4.	Use: year-round seasonal (from to)
IV.	SEF	PTIC TANK
	1.	Number and size of tanks
		Material construction
	3.	Effluent filter yes no
٧.	GRE	EASE TRAP (REQUIRED AT FOOD SERVICE ESTABLISHMENTS)
	1.	Tank material
	2.	Fank size
	3. ‡	t of tanks
VI.	OTH	IER TREATMENT DEVICES (ATTACH SPECIFICATIONS)
• • •	• 1.	THE TIME AT DEVIOLO (ATTAON OF LONG 10AS)
VII.	EFF	LUENT DOSING
	Note	Systems exceeding 2,000 gallons/day shall be dosed.
	1. [	Dose volume = sewage flow (gpd) / 4 doses per day = gal./dose
	2. F	Pump design: total dynamic head (TDH) = elevation head + friction head loss
	a	elevation head: <u>Elevation</u>
		drain tile ft. pump ft.
		total ft.
	b	. friction head loss:
		fittings: # elbows (size') X ft./elbow (equivalent length of straight pipe) =ft.
		pipe:ft. pipe length (size") Xft. friction loss/100' pipe =ft.
		friction head loss = ft. (fittings equivalent length of straight pipe) + ft. pipe = ft.
		Total dynamic head loss = ft. elevation head + ft. pipe =ft.

	a. dosing volume (gal./dose) b. dosing time (min.) c. pump duty point gpm at feet TDH (attach copy of pump performance) d. pump make pump model hp f. pump/pump chamber – misc.					
	yes no dual alternating pumps? audio/visual alarm? pumps accessible? explosive proof design? emergency power source provided? each pump sized for peak flow? waterproof junction box for disconnect? wet well vented?					
/111.	DRAINFIELD					
	1. Type: bed trench other (list)					
	2. Amount of Fill inches. Fill Type:					
	3. Linear feet of pipe					
	4. Pipe material					
	5. Pipe: diameter in. volume (gal./ft.)					
	Note: total pipe volume must equal or exceed the dose volume					
	6. Effective seepage area (square feet)					
	7. Pipe spacing (feet on center)					
	8. Aggregate: size; depth (inches)					
	9. Aggregate cover type – geotextile material required					
	10. Depth of earth cover (inches)					
	11. Berm beyond the edge of stone ft					
	12. Side slopes from berm edge on					

3. Pumping specifications

IX.		DNSULTANT CERTIFICATION Prepared by	
		Address	
		Discourse	
	6.		
		Signature	Date
OFF	ICE U	SE ONL !	
1. <i>A</i>	Applica	ation is approved, not appro	oved
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3			<del></del>
S	anitar	ian	Date
4. S	ewage	e disposal construction permit number	
V	Vell co	nstruction permit number	