



LIVINGSTON COUNTY HEALTH DEPARTMENT

Environmental Health Division

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www.lchd.org

APPLICATION TO INSTALL A GEOTHERMAL HEAT PUMP SYSTEM

Residential Commercial Geothermal Permit # _____

GEOTHERMAL TYPE: Closed Loop Vertical Closed Loop Horizontal Open Loop

LOCATION OF PROPERTY			<i>Please Print or Type</i>	
Address	City/Village	Zip		
Township	Tax Code#	Section		
Subdivision	Lot/Parcel#	Acreage		
Directions				

A. OWNER	
Name	Phone
Address	
City/State/Zip	E-Mail

B. MECHANICAL CONTRACTOR	
Name	Phone
Address	
City/State/Zip	E-Mail

SUB-CONTRACTOR (Excavator or Well Driller)	
Name	Phone
Address	
City/State/Zip	E-Mail

PROJECT DESCRIPTION: (include as applicable: feet of pipe, number of loops, depth of boreholes, borehole grouting material, heat transfer fluid (type, etc).)

I hereby apply for this permit and have authorization to do so. I understand this is a construction permit only and the geothermal heat pump system is not to be put into service until final written approval has been granted. I further state the information given herein is accurate and complete.

_____ Applicant's Signature (Printed) _____ Signature _____ Date

***** *For Office Use Only* *****

Receipt # _____ Amount \$ _____ Check/Appv # _____ Payer _____

Section 301.08 Application for Permit – “Application for a permit to construct, alter or replace a private or semi-public sewage disposal system shall be made in writing by the property owner, a licensed building contractor, a licensed sewage disposal system installer or their representatives, to the Health Officer. The application shall include the name and address of the applicant and property owner, location of the property, and a survey (on property less than 15 acres) or a recorded platted lot showing lot dimensions on which said construction is proposed. Each application shall be accompanied by a copy of a scaled plot plan showing the proposed sewage disposal system and all relevant isolation distances. The actual or proposed use of the property shall be indicated in all instances.

At his discretion, the Health Officer may require substantiating engineered data including but not limited to: soil analysis test borings, percolation tests, hydrogeological information and flood elevations.

The Health Officer may, at his discretion, require that the design plans and specifications for a sewage disposal system be prepared by a registered professional engineer or registered architect.”

The sewage disposal facilities and water supply system shall be constructed in accordance with the Approved plot plan, restrictions stated on the permit and the requirements of the Livingston County Sanitary Code. It shall be the responsibility of the applicant to provide the sewage disposal system installation contractor and water well driller with a copy of the approved plot plan and information regarding any restrictions stated on the permit. If a situation arises that might result in any alteration of the proposed plot plan, the Livingston County Health Department shall be immediately notified. The applicant shall receive **written approval** of any changes prior to commencing construction.

If the onsite sewage disposal system or water well is for an existing dwelling a good quality sketch shall be submitted detailing the same information as required in a scaled plot plan for new construction. All work shall be performed in accordance with the approved sketch and permit requirements. Prior to any system being placed in operation, approval shall be obtained from the Livingston County Health Department.

Section 301.09/401.16 Posting of Permit – Once a sewage treatment system and/or well construction permit is issued, the permit and approved site plan is required to be maintained onsite at all times. The permit and approved site plan shall be posted in conspicuous location at the work site.

Section 300.38 Scaled plot plan – “A drawing of accurate representation to a specified scale which shall include but not be limited to: (1) property boundaries and dimensions, (2) house, structure or building locations and dimensions, (3) location and distances of neighboring well, septic systems, underground fuel oil tanks and storm drains within 100 feet of property boundaries, (4) location of proposed well and onsite sewage disposal system including area designated for replacement systems, (5) location of acceptable soil boring, (6) location of surface water, wetlands and flood plains if applicable, (7) location of proposed or existing underground utilities, if applicable (e.g. telephone cable, electric, water supply, sewers, gas, (8) all easements located on the proposed building site, (9) location of proposed existing underground facilities, if applicable, (10) location of proposed or existing above or below ground swimming pools, decks, detached garages, storage structures and facilities which may impact water supply and/or sewage disposal systems or construction of same.”

The approval of plans for a proposed sewage disposal system and/or water well supply is not a permit to proceed without first getting the necessary building permits as may be required by county and/or township ordinances. For any new construction or alteration, including the installation of plumbing, it is required that a permit be obtained from the appropriate county and/or township building official. Any new construction or alteration which may affect the sewage disposal and water supply system shall also require approval of the Livingston County Health Department.

Upon installation, the sewage disposal facilities shall be inspected and approved by the Livingston County Health Department prior to backfill. The dwelling shall not be occupied until written approval has been issued by the Livingston County Health Department.

Written approval for your proposed septic tank-tile field sewage disposal system is in no way a guarantee that this system will provide indefinite trouble-free service. Since many interrelating factors contribute to a failure of a sewage disposal system and/or changes in water quality, approval cannot be considered as a guarantee by the Health Department that successful operation or quality of drinking water is assured. Even with proper installation, as outlined for proposed construction, there remain many uncertainties and difficulties that can still arise in the operation of an onsite sewage disposal system.

The Livingston County Health Department recommends that the septic tank be pumped every three to five years and that no additives be placed in the system. The placing of additional loads on a system, such as garbage disposals, other plumbing fixtures, more persons, etc., without first providing the necessary enlargements are also important points to be remembered in the operation of a private sewage disposal system. Proper design, construction and maintenance can assist in minimizing these uncertainties but, cannot entirely eliminate them. Onsite sewage disposal systems under the best of installation conditions and practices are in no way the equivalent of municipal sanitary sewer collection and treatment facilities.

Construction of both the water supply and sewage disposal facilities shall be completed before the permit expires. If not, a new permit shall be obtained. It is also a requirement that a satisfactory water sample analysis be submitted along with a copy of the approved well log for review by the Livingston County Health Department. When satisfactory well log and sample analyses are received, approval can be granted for use of the water supply system. The water system shall not be utilized for drinking or cooking until approval is secured from the Livingston County Health Department.

Any person shall have the right of appeal from the decisions of the officials charged with the enforcement of these regulations as provided for in Chapter II of the Livingston County Sanitary Code