

Vacant Land Soil Evaluation for Mr. Larry & Kathleen Terpstra

Located at the south east corner of Sunfield Hwy & East Tupper Lake Road

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East Tupper Lake Road East of "King & Wolcott" drain 550 feet east of drainage ditch Sebewa Township, Section #35, County of Ionia August 07, 2017 Field notes of evaluation & restrictions

- Located 140 feet east of the center of Sunfield Hwy and 200 feet south of the center of Tupper Soil Boring #01 Lake Road. Soils consist of 0-12 inches loam top soil, 12-16 inches of sandy clay loam, 16-21 inches sandy silt loam with mottling @ 24 inches, 21-72 inches clay soils. Seasonal water table encountered at 24 inches.
 - This soil boring location for a sewage disposal system will consist of removing the sod layer and placing 28 inches of clean coarse sand fill or 2NS washed sand fill in drainfield. area. The bottom of drainfield stone must be no less than 24 inches above existing grade. Further details will be noted on the sewage disposal permit at the time of issuance.

Soil Boring #02

- Located 194 feet east of the center of Sunfield Hwy and 155 feet south of the center of Tupper Lake Road. Soils consist of 0-12 inches loam, 12-18 inches sandy silt loam, 18-24 inches sandy clay loam, 24-30 inches silt loam, 30-72 inches clay. Seasonal water table encountered @ 24 inches.
 - This soil boring location for a sewage disposal system will be the same as stated above in the Soil Boring #01 location.

Soil boring #01 & #02 (above), drainfield must be in these location(s). Soil borings conducted on the high ground of the area. Drainfield and septic tank will need to be 100 feet from the ditch drain. Due to the limited room at this southeast corner and the lower ground surrounding the higher ground, a new dwelling will be limited to 2 bedroom without a garbage disposal to successfully meet soil condition criteria and isolation distances. Address is needed prior to permit issuance. Drainfield would be a 1300 square feet in size.

Soil Boring #03

Located 221 feet south of the center of Tupper Lake Road and 550 east of the "King & Wolcott" drain. Soils consist of 0-12 inches sandy loam top soil, 12-30 inches sandy clay loam, 30-60 inches of medium sands (some fines) 60-72 inches clay soils. Seasonal water table encountered @ 24 inches.



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o The sewage disposal system will consist of the same criteria as stated above, with the exception of the number of bedroom(s) and or garbage disposal not limited. System would be sized accordingly to the Ionia County Department of Public Health "Sanitary Code" requirements.

Soil Boring #04

Located 284 feet south of the center of Tupper Lake and 550 feet east of the "King & Wolcott" drain. Soils consist of 0-16 inches of loam top soil, 16-24 inches clay (blocky structure), 24-48 inches sandy silt loam, 48-60 medium sands, 60-72 inches of clay. Seasonal water table encountered @ 24 inches. Sewage disposal system will be 24 inches above existing grade.

Soil Boring #05

Located 284 feet south of the center of Tupper Lake Road and 585 feet east of the "King & Wolcott" drain. Soils consist of 0-12 inches of sandy loam top soil, 12-24 inches of sandy clay loam, 24-60 inches of sandy silt loam, 60-112 inches of fine to medium sands. Seasonal water table encountered @ 24 inches. Sewage disposal system will be 24 inches above existing grade.

Further sewage disposal system details will be noted on the permit when applied for. Address is needed prior to permit issuance. System must be installed in the soil boring locations as indicated above. Dwelling may need to be elevated to maintain gravity flow to avoid a pump system in all soil boring locations.

Any questions, please contact me at <u>majoraka fioniarounty org</u> or (616) 527-5341 ext. 493 regarding sizing and placement of such system.

IONIA COUNTY HEALTH DEPARTMENT VACANT LAND ENVIRONMENTAL HEALTH DIV			TAL HEALTH DIV	
175 E. ADAMS STREET, IONIA, MI 48846 SOIL EVALUATION		616-527-5341 Date:		
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(Application expires in 12 months)	Water table depth: 24" Water table depth: 24" Boring 3: 0 - 12 "SAJOY LOAN T." Boring 4: 0 - 16 "CLAY LIAN T."			
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A THIS IS NOT MY ENGAGE	30"-60" MED SAND, 60"- 72014) 48"-60" MED SAND - 72" CITY			
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