

Soils for Parcel #1

SOIL EVALUATION DATA SHEET

Ingham County Health Department
P. O. Box 30161 Lansing, Michigan 48909

THIS RECORD SHALL NOT CONSTITUTE A PERMIT

Requested by ROBERT & ANN GOOD

Address 1514 ROSE RD

MASON 48854

Phone # 676-5961

- ☒ Land Owner ☐ Realtor
☐ Prospective Buyer ☐ Builder
☐ Installer ☐ Other:

Township VEVAY Section 27

Road Location NW Corner of Ives Rd
and Rose Rd

Subdivision _____

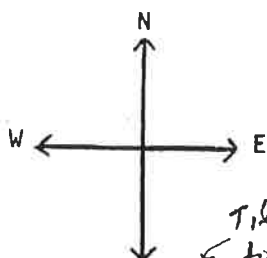
Lot No. _____ Side of Road NW

File Search _____

Parcel No. 33- _____

Soil Survey Sheet No. _____

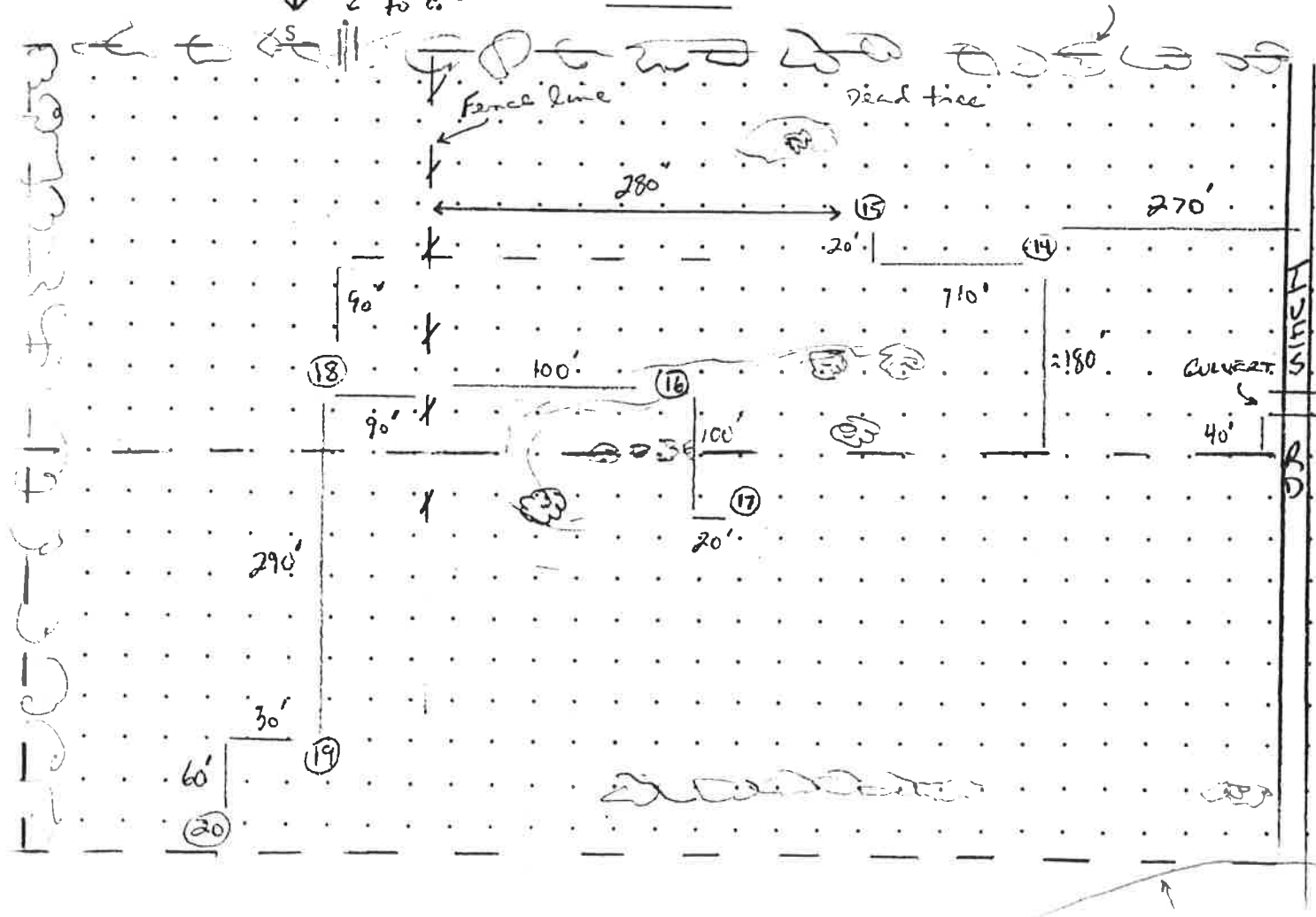
Parcel Size 40 ac



Tile discharge
to open drain

PLOT PLAN

Tree & Fence line



Road Location _____

Permit No. 33-
(after issuance)

Test #	14	15	16	17	18
Type of Test	BH	BH	BH	BH	BH
Depth	4'	3'	3'	3'	3 1/2'
Each test hole located on Plot Plan by number	15" O TS LS S MT 20" 4' - WL 32"	12" O TS LS SL 16" - MT L 28" - Sat S 0 LS 3' - WL 32"	15" O TS SL MT from 20" 3' - Heavily mottled from 2 1/2'	12" O TS gravelly, Rocky LS SL 2' - MT Heavily Gravelly LS SL 3' - WL at 3'	12" O TS MT LS 32" - MT Meads moist 3 1/2' - no face water t.b.c near bay

SOIL TEXTURE

S	Sand	SCL	Sandy Clay Loam	B	Hand Auger Boring
LS	Loamy Sand	SiCL	Silty Clay Loam	BH	Backhoe Cut
SL	Sandy Loam	CL	Clay Loam	TS	Top Soil
L	Loam	C	Clay	(MT)	Seasonal High Water Level (mottling)
SiL	Silty Loam	M	Muck	(WL)	Water Level (saturation)

Limitations of the site that affect use of on-site subsurface sewage disposal:

- ☐ 1) Severely restrictive soil features.
- ☐ 2) Impervious layer within 48" of ground surface.
- ☐ 3) High seasonal water level.
- ☐ 4) Wet depressions or poor surface drainage.
- ☐ 5) Slope limitations (exceeds %).
- ☐ 6) Overflow of run-off water from adjacent higher areas.
- ☐ 7) Insufficient space for replacement of drainfield.
- ☐ 8) Insufficient isolation distance from _____.

Observations, stipulations: _____

Soils unsuitable for conventional sewage treatment
acceptable for the consideration of alternative sewage treatment
except in vicinity of BH cut # 18 - nothing around 18

Observer: _____

Sanitarian: MP BanghartDate: 4.28.98

Test #	19	20			
Type of Test	BH	BH			
Depth	4'	4 1/2'			
Each test hole located on Plot Plan by number	14" O TS ↓ LS ↓ 22" ↓ (MT) LS ↓ 2' ↓ (MT) S ↓ 4' ↓	13" O TS ↓ LS & SL (MT) from 22" ↓ (WL) 4' ↓ 4 1/2' ↓			

SOIL TEXTURE

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L	Loam	C	Clay	(MT)	Seasonal High Water Level (mottling)
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Limitations of the site that affect use of on-site subsurface sewage disposal:

- ☐ 1) Severely restrictive soil features.
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- ☐ 5) Slope limitations (exceeds %).
- ☐ 6) Overflow of run-off water from adjacent higher areas.
- ☐ 7) Insufficient space for replacement of drainfield.
- ☐ 8) Insufficient isolation distance from _____.

Observations, stipulations: _____

*Soils unsuitable for conventional
OK to consider alternative treatment*

Observer: _____

Sanitarian: _____

M. Barghant 25

Date: _____

4-28-98

Ingham County Health Department

Bruce B. Bragg, M.P.H., Director
Dean G. Sienko, M.D., M.S., Medical Director

Human Services Building
5303 South Cedar Street
P.O. Box 30161
Lansing, Michigan 48909-7661
FAX (517) 887-4560

Bureau of Environmental Health
(517) 887-4312

April 27, 1999

Robert and Ann Good
1514 Rolfe Rd.
Mason, MI 48854

Re: Soil Evaluation of a 40 acre parcel at the northwest corner of Ives Road and Rolfe Road,
Section 27, Vevay Township, Application #3-23-98-113.

Dear Mr. & Mrs. Good:

On April 28, 1998, we met on the above referenced parcel to determine the suitability of the soils for on-site sewage treatment. It is your intention to split this 40 acres into seven parcels, six for single family dwellings, and one 18 ½ acre parcel to contain the existing dwelling. The six building sites were evaluated in the anticipation of the construction of single family dwellings.

All of the parcels have frontage on Ives Road, the first parcel begins approximately 210 feet north of Rolfe Road, and the property extends to a point approximately 1890 feet north of Rolfe Road. A total of 20 backhoe cuts were made on the six proposed splits. The locations of those backhoe cuts, and a description of the soils encountered in each of them, can be found on the attached Soil Evaluation Data Sheets.

In general, the soils consisted of loamy sands, sandy loams, light loams, and coarse sandy and gravelly loams. These soils became wetter as we moved to the north.

Suitable soils for conventional on-site sewage treatment were found in backhoe cuts 1 through 5. Backhoe cuts 1 and 3 were on the first proposed parcel and backhoe cut 4 and 5 on the second proposed parcel. Backhoe cut 6, also made on the second proposed parcel, showed evidence of poorly drained soils, too shallow for the conventional installation of a drainfield.

Backhoe cuts 7 through 13 were made on the third and fourth proposed splits. These backhoe cuts revealed soils unsuitable for conventional on-site sewage treatment due to the evidence of shallow seasonal saturation. The soils in backhoe cuts 7 through 13, as well as in backhoe cuts 6, were found suitable for the consideration of alternative on-site sewage treatment. An engineer should be contacted for guidance in the development of a system to overcome the shallow seasonal saturation on these two proposed splits.



Robert and Ann Good
April 27, 1999
Page 2

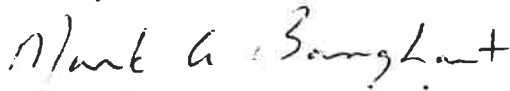
Backhoe cuts 14 through 20 were made on the last two proposed splits, the largest of the six parcels proposed. These backhoe cuts revealed again somewhat permeable loamy sands, sandy loams, and loams, jeopardized by high seasonal water table. These two parcels being the lowest in elevation, revealed the shallowest seasonal saturations, with evidence of saturation from just under top soil to within 32 inches of the ground surface.

Backhoe cuts 14 through 20 revealed soils considered unsuitable for conventional on-site sewage treatment. All the backhoe cuts, with exception of backhoe cut 18, did reveal soils suitable for the consideration of alternative on-site sewage treatment. As before, an engineer should be consulted as to the appropriate type of drainfield system to overcome the limitations to the installation of on-site sewage treatment systems on these two parcels.

Backhoe cut number 18 revealed evidence of seasonal saturation just under top soil. Based on that observation, the soil in the area of backhoe cut number 18 is considered unsuitable for either conventional, or alternative, on-site sewage treatment.

Please feel free to contact me at 887-4509 if you have any questions about this letter, or the attached Soil Evaluation Data Sheets.

Sincerely,

A handwritten signature in dark ink, appearing to read "Mark A. Banghart". The signature is fluid and cursive, with a long horizontal stroke at the end.

Mark A. Banghart, R.S.
Bureau of Environmental Health

MAB:cdm

cc: Vevay Township

