Phase I Lot#2

317 Union In

November 16, 2020

Dave Liskany (Countrytyme Land Specialist, Ltd) 3451 Cincinnati-Zanesville Rd, SW Lancaster, OH 43130

Dear Mr. Liskany:

We would like to thank you for requesting our assistance to identify the specific soil properties on your property (**Track #2 Union Pastures**), Chillicothe, in Ross County, Ohio.

Enclosed are the following:

- 1. Location map
- 2. Aerial Photo Sketch Map of Site
- 3. Soil Site Descriptions for the different Soil Areas
- Soil and Site Evaluation and discussion, for the proposed waste water disposal

The information in this report is basic soils information as found on-site. This does not mean that this site is suitable for an STS, that is up to the Ross County Health Department. If I can be of further assistance, in helping to interpret, clarify or add additional information from my notes, please let me know at 304-372-4809 home or 304-532-4711 cell.

Thanks,

Carlos Cole Soil Scientist

Cc: Logan Calhoun, R. S., Director of Environmental Health

## Soil and Site Evaluation Discussion

This soil evaluation is for a new STS (sewage treatment system) for a new 2-3 bedroom home (example that may change) on your property. We mainly evaluated the higher portion of the property near the center of the property and track #3 property for an STS. These soils have developed in mostly weathered glacial till, that over lays siltstone weathered sedimentary bedrock. The higher areas of this property is better drained, so this is the part of the soil we focused on for the leach field area. We flagged this area and dug our test pits, basically on the same elevation, as shown on the sketch map.

This proposed filter field area is large and can serve as both the primary and secondary filter field areas. The soil site descriptions give you a good picture of the soils on site. In general these soils are all very similar, we tried to find some variation in the physical properties but nothing consistent. The upper 11 inches of these soils is loam or silt loam, the following 15 to 20 inches is silty clay loam or clay loam and the remaining portion of the soil is loam or silt loam. The seasonal high water table (depth of depletions) is at a depth of 11 inches. So these soils will allow water to flow, but the water table during wet periods will be at an approximate depth of 11 inches. The STS will require pretreatment and a very shallow leach field.

We have shown the location of the proposed STS leach field on the sketch map. We have located a possible new home location. We have marked the proposed filter field area with pink wire flags along the boundary and/or on the boundary corners. The soil description sites are marked with orange wire flags and the number of the description is marked on the flag. The approximate dominion, of the proposed filter field area, is marked on the sketch map. The proposed filter field area is just an indication of the area that can be used, the installer or the health department will determine where the filter lines will be located. The filter field lines would need to be located level on the contour around the slight slope. This will be a difficult system to install and the installer will have to keep track of his elevations. The depth to the seasonal high water table is totally based on elevation. These soil descriptions were taken at random to show the soil properties at different areas within the proposed filter field area and the sketch map is not to scale. We gave a house site location (example that may change with new owner) on the sketch map to give you a possible reference point, for this report. The new home will probably need to be elevated some, with house foundation in order to get gravity flow to the STS leach field.

## Location Map



## Sketch Map for Countrytyme Property

Union Pastures-Track #2 Ross County 962 ft E P.O.B. 370.96 TRACT 3 7.786P.O.B. Possible Leach Field TRACT 2 5.773115 966 2 Epossible New Home Location 60' WIDE INGRESS, EGRESS 60' WIDE EASEMENT INGRESS, EGRESS UTILITY 324.93 EASEMBNI 371 22 324.93' TOTAL .03' TOTAL To Union Lane-Entrance X1, X2, X3 - Soil Site Descriptions Approximate Driveway Location

These are all Approximate Locations (not to scale)

2 we used the 12-24 Depth For H. Linear Loading Kate Used 1-3 % 5 10 PC Site and Soil Evaluation for Sewage Treatment and Dispersal

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Note: The evaluation should include a complete site plan or site drawing.

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Address: Att: Dave Li Township / Sec.: 35-40+ 26-35 11-16 7-11 16-26 Phone #: 614 - 429-8152 Lot #: "Union Pastures 0-7 Address: County: Depth (inches) 15 ch: 10 YR 5/6 10×19 4/3 1018 5% 1079 5/ 101/15/1/5/1/01 10YA 6/4 +5/6 + 1/3 Matrix Color Union Ross Depth to (in.) L Auger Vicothie, Cincinnati-Zanesville Rd, SW Date 'Drive Listany - Lind Specialist Munsell Color (hue, value, ohroma) 40+ Pastures Track # 2 1 Estimating Soll Saturation 1 L'mer 1078 5/4 Concentrations Redoximorphic Features ١ Probe Real: ty Auger H45601 10×R7/2 Dua 10×17/2 10 × 1/2 10th 6/2 Depletions Descriptive Notes was stopped + grave Land Use / Vegetation: Position on Landform: 0 Shape of Slope: Percent Slope: 1 2,06 30" Sich Class 7,5 1,2 Landform: Evaluator: 12 70 Remarks / Risk Factors: Texture 25-28 25-28 32-36 14.16 29-33 16-20 Approx. Garlos Cole Augered Glácia rop xx Larger Grave CONVEX 1 9 Approx. % Fragments 0-27 5-15 51-5 2-5 5-20 39% 1 1 13/17 Estimating Soil Permeability probably la Remainder - 532 - 4711 cell 2-2-1 2-1 1 Grade 1-2 2 13166 Phone#: Certification Stamp or Certification #: Signature: Structure E Size É 3 T 3 ž C1216 304-372-4809 Coulse Calo Type (shape 795 795 795 495 9 Sbh|Fr-F; Consistence not bedrock At 40" 150 とり F Fr 24835 Infiltration QLoading Ra 6 4. ż 4, 7 0 Home w O 3.0 0,0 w in isi Loading Rate

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ODH - Dec 2008 - Revised Sept 2007