

ROXSOL, LLC

976 McIntire Ave. Zanesville, Ohio 43701 Phone: 740-704-1879 Email: kylebaldwin@roxsol.com

May 12, 2015

Zanesville, Oh 43701

RE: Site and soil evaluation for a proposed 3 bedroom residence in Falls Township, Muskingum County, Ohio. ((SPLIT) 1450 Barkers Run Rd.)

Mr. and Mrs.

You requested this site and soil evaluation for a proposed 3 bedroom residence. The soil logs and site plan are attached. A layout plan, from a registered system installer, sanitarian, or engineer, will also be required prior to applying for a permit to install. The information provided in this report is necessary to complete the plan.

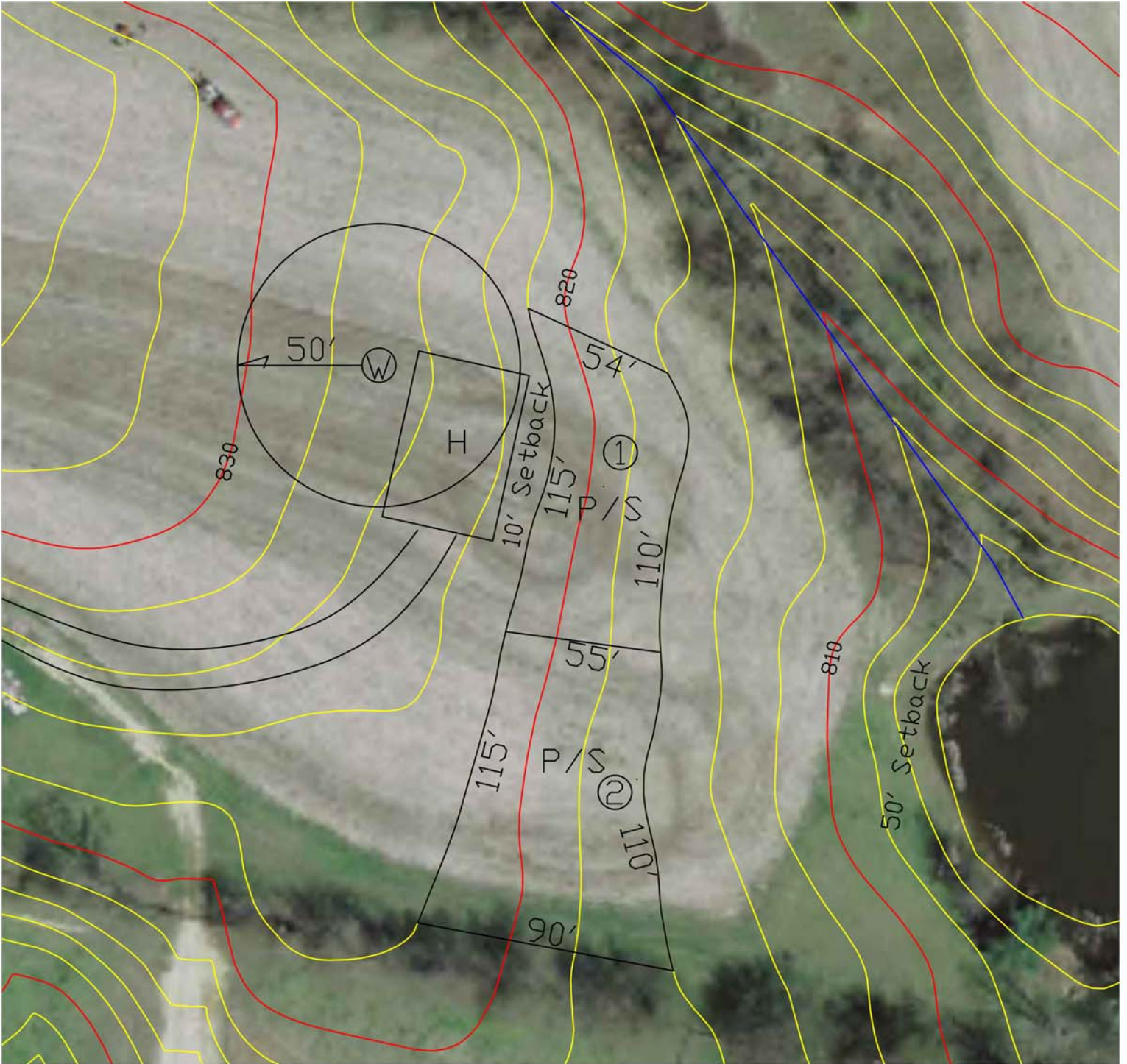
Test Holes 1 and 2 were flagged during the site visit and are located in an area proposed to serve primary and/or secondary leaching sites. Public sewer and water are not available for this parcel. Disturbance of the proposed leach areas, prior to septic system installation, may negate the validity of this evaluation. This includes, but is not limited to, vehicle traffic, excavations, stump removal, topsoil storage or adding permanent structures that will have an adverse impact to natural soil structure and soil biology.

The Muskingum County Health Department has regulatory authority over residential onsite septic systems and will make the final determination for approval or disapproval in accordance with current rules. **All surface and groundwater shall be diverted away from the leach field. Roxsol, LLC is not responsible for errors in installation, maintenance of the septic system and climate conditions that may adversely affect system performance.**

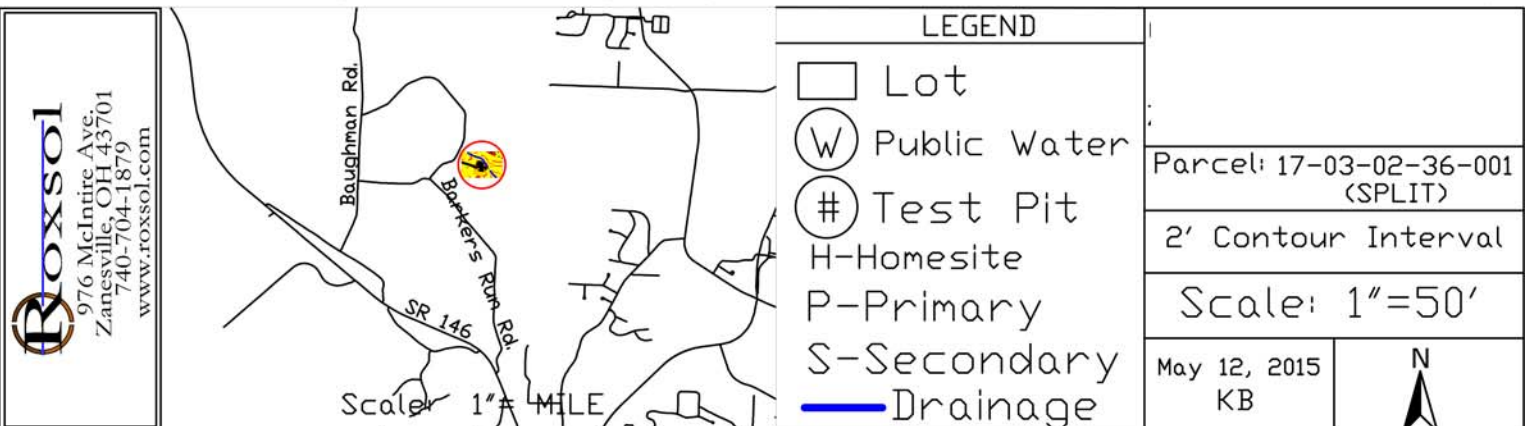
Sincerely,

Kyle Baldwin, Geologist

Att: Site plan, Soil test hole logs



Note: Site Plan prepared using Garmin GPS and Muskingum County GIS data. Data shown is assumed correct, but has not been surveyed.



Site and Soil Evaluation for Sewage Treatment and Dispersal

County: MUSKINGUM
 Township / Sec.: FALLS
 Property Address/Location: ZANESVILLE, OH 43701
 Applicant Name: _____
 Address: ZANESVILLE, OH 43701
 Phone #: _____
 Lot #: _____
 Test Hole #: 2
 Latitude/Longitude: X: 2092763.3451 Y: 729789.9025
 Method: Pit Auger Probe

Land Use / Vegetation: CROPLAND CORN
 Landform: UPLAND
 Position on Landform: HILLSLOPE
 Percent Slope: 10
 Shape of Slope: LINEAR
 Date: May 7, 2015
 Evaluator: KYLE BALDWIN, GEOLOGIST
JOE STEIGER, SOIL SCIENTIST

Certification Stamp or Certification #: ODH APPROVED
 Signature: KYLE BALDWIN
 Phone#: 740-704-1879

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Loading Rates		
		Munsell Color (hue, value, chroma)			Redoximorphic Features		Texture			Structure				
Horizon	Depth (inches)	Matrix Color	Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Infiltration >30	Infiltration <30	Linear g/d/ft
Ap	6	10 YR 4/3			SIL	20	0	2	M	GR	FR	0.6	0.8	3.8
Bt1	16	10YR 5/4			SIL	20	0	2	F	SBK	FR	0.6	0.8	3.8
Bt2	30	10 YR 5/4			SIL	20	0	2	M	SBK	FR	0.6	0.8	3.8
BC	54	10YR 5/4	10YR 5/6	10YR 5/2	SIL	20	0	2	CO	SBK	FI	0.6	0.8	3.8
C	60	10YR 5/4	10YR 5/6	10YR 6/2	SICL	20	0	0	0	0	VFI	0.0	0.0	0.0

Limiting Conditions	Depth to (in.)	CALCULATIONS	Remarks / Risk Factors:
Perched Seasonal Water Table	30	3 BR X 120 = 360 GPD	
Apparent Water Table	N/A	360 ÷ 0.6 = 600 SQFT	WATER WELL
Highly Permeable Material	N/A	360 ÷ 3.8 = 95 FT	
Bedrock	> 54	600 ÷ 95 X 5 = 32 FT	
Restrictive Layer	54	BASED ON A 12" WIDE TRENCH	TEST HOLES LOCATED USING HANDHELD GARMIN GPS AND SPCS/NAD 83/OH SOUTH

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

Site and Soil Evaluation for Sewage Treatment and Dispersal

County: MUSKINGUM
 Township / Sec.: FALLS
 Property Address/Location: ZANESVILLE, OH 43701
 Applicant Name: _____
 Address: ZANESVILLE, OH 43701
 Phone #: _____
 Lot #: _____
 Test Hole #: 1
 Latitude/Longitude: X: 2092765.2977 Y: 729910.0383
 Method: Pit Auger Probe

Land Use / Vegetation: CROPLAND CORN
 Landform: UPLAND
 Position on Landform: HILLSLOPE
 Percent Slope: 10
 Shape of Slope: LINEAR
 Date: May 7, 2015
 Evaluator: KYLE BALDWIN, GEOLOGIST
JOE STEIGER, SOIL SCIENTIST

Certification Stamp or Certification #: ODH APPROVED
 Signature: KYLE BALDWIN
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Soil Profile		Estimating Soil Saturation				Estimating Soil Permeability						Loading Rates		
		Munsell Color (hue, value, chroma)				Texture			Structure					
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)	Consistence	Infiltration	Linear	
			Concentrations	Depletions								>30	<30	g/d/ft
Ap	8	10 YR 4/3			SIL	20	0	2	M	GR	FR	0.6	0.8	4.3
Bt1	30	10YR 5/6			SIL	20	0	2	F	SBK	FR	0.6	0.8	4.3
Bt2	44	10 YR 5/4			SIL	20	0	2	M	SBK	FR	0.6	0.8	4.3
2BC	54	10YR 5/4	10YR 5/6		SICL	30	0	2	CO	SBK	FI	0.4	0.6	4.0
2C1	60	10YR 5/4	10YR 5/6	10YR 6/2	SICL	30	0	0	0	0	FI	0.0	0.0	0.0
2C2	76	10YR 5/4	10YR 5/6	10YR 6/1	SIL	25	0	0	0	0	FI	0.0	0.0	0.0

Limiting Conditions	Depth to (in.)	CALCULATIONS	Remarks / Risk Factors:
Perched Seasonal Water Table	54	3 BR X 120 = 360 GPD	
Apparent Water Table	N/A	360 ÷ 0.6 = 600 SQFT	WATER WELL
Highly Permeable Material	N/A	360 ÷ 4.3 = 84 FT	
Bedrock	> 76	600 ÷ 84 X 5 = 36 FT	
Restrictive Layer	54	BASED ON A 12" WIDE TRENCH	TEST HOLES LOCATED USING HANDHELD GARMIN GPS AND SPCS/NAD 83/OH SOUTH

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