



# RoxSol

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

**August 16, 2021**

Lepi & Associates Real Estate Services  
C/o Melissa Riley  
1257 Maple Ave.  
Zanesville, OH 43701  
740-704-7120

**RE: Site and soil evaluation for a proposed residence in Salt Creek Township,  
Muskingum County, Ohio. (Wilhelm Rd. Lot E)**

You requested this site and soil evaluation for a proposed residence. The soil logs and site plan are attached. A layout plan will also be required prior to applying for a permit to install. The information provided in this report is necessary to complete the layout plan.

Test Holes were flagged during the site visit and are in an area proposed to serve a primary and/or secondary leaching site. Disturbance of the proposed leach areas, prior to septic system installation, may negate the validity of this report. This includes, but is not limited to, vehicle traffic, excavations, stump removal, topsoil/earth fill storage or adding permanent structures that will have an adverse impact to natural soil structure and biology. **All surface and groundwater should be diverted away from the leach field.**

The Zanesville-Muskingum County Health Department has regulatory authority over residential onsite wastewater treatment systems and will make the final determination for approval or disapproval in accordance with current rules.

## **LIMITATIONS**

The analyses and recommendations contained in this report are based on the data obtained from limited observation and testing of the encountered materials and our review of data provided by others and published information. Test borings indicate soil conditions only at specific locations and times, and only at the depths penetrated. They do not necessarily reflect strata or variations that may exist between exploration locations. There is no express or implied agreement that uniformity of material exists between explored locations. The information has been obtained solely for the owner's use as an aid for project design. This information is not intended for the contractor's bid development and the contractor shall not rely on the information for bidding purposes. The owner assumes no liability for the contractor's interpretation of the information contained in this report. This report has solely been provided to the contractor for informational purposes only.

This report, including all supporting exploration logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by Roxsol, LLC in connection with this project have been prepared for the exclusive use of Melissa Riley on behalf of Lepi & Associates Real Estate Services, pursuant to our proposal dated July 29, 2021, and in accordance with generally accepted engineering practice. All terms and conditions set forth in the Agreement are incorporated herein by reference. No warranty, express or implied, is made herein. Use and reproduction of this report by any other person without the expressed written permission of Roxsol, LLC and Melissa Riley on behalf of Lepi & Associates Real Estate Services, is unauthorized and such use is at the sole risk of the user.

The analyses and recommendations must be considered preliminary until the subsurface conditions can be verified by direct observation at the time of construction. If variations of subsurface conditions from those described in this report are noted during construction, recommendations in this report may need to be re-evaluated. If any changes in the nature, design, or location of the facilities are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed, and conclusions of this report are verified in writing. Roxsol, LLC. is not responsible for any claims, damages, or liability associated with interpretation of subsurface data or reuse of the subsurface data or engineering analyses without the expressed written authorization of Roxsol, LLC.

This report and the attached logs are instruments of service. The subject matter of this report is limited to the facts and matters stated herein. Absence of a reference to any other conditions or subject matter shall not be construed by the reader to imply approval by the writer.

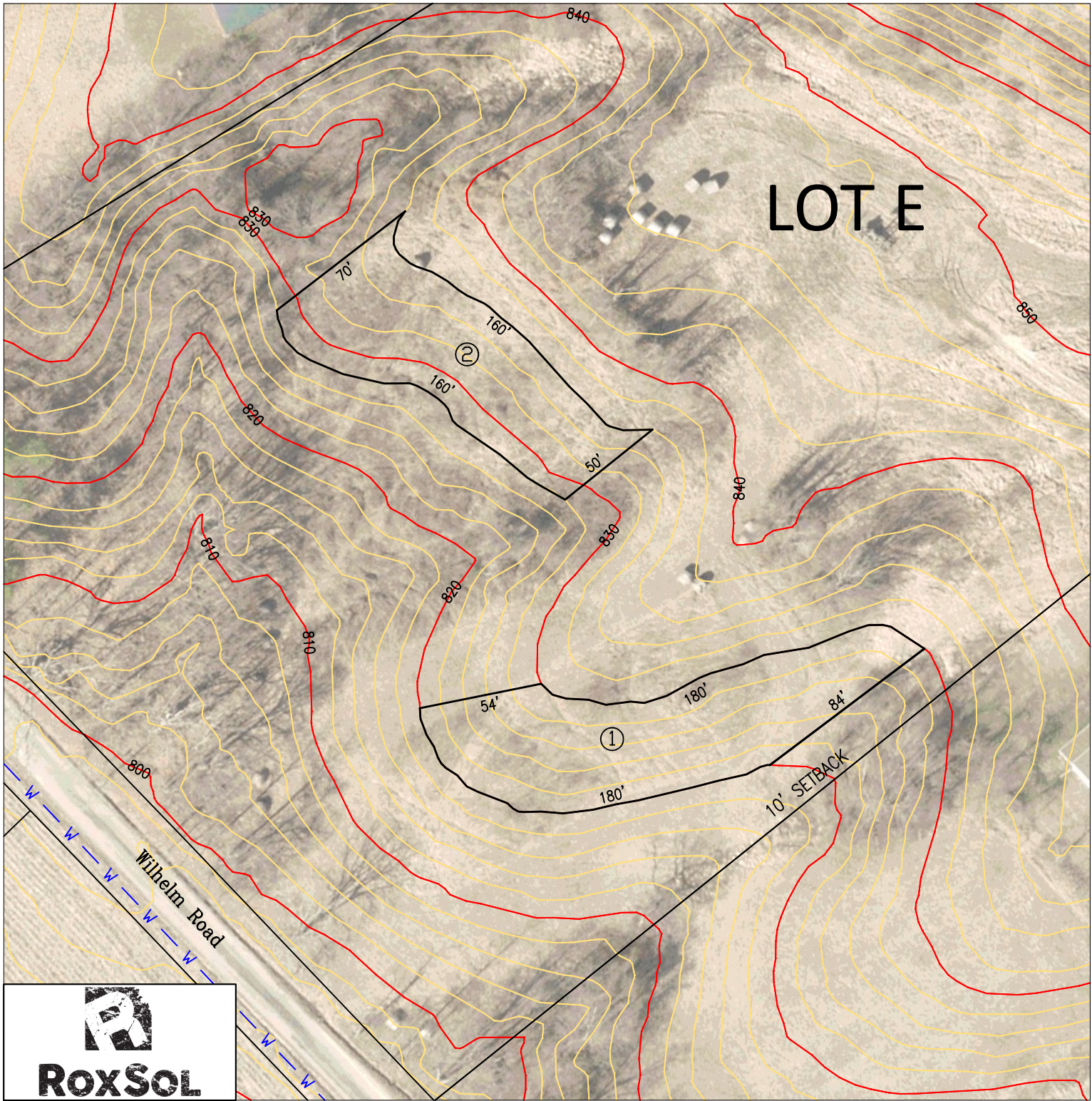
Sincerely,



**Kyle Baldwin, Geologist**

**Att:** Site plan, Soil test hole logs





NOTE: SITE PLAN PREPARED USING GARMIN GPS, MUSKINGUM CO., AND OGRIP GIS DATA. DATA SHOWN IS ASSUMED CORRECT, BUT HAS NOT BEEN SURVEYED. HOUSE LOCATION IS NOT FINAL. DRIVEWAY AND HOUSE LOCATION SHOULD BE LOCATED ON THE LOT TO ALLOW FOR A LEACH SYSTEM THAT MEETS, OR EXCEEDS, THE MINIMUM LENGTH OF TRENCH REQUIRED.

<p>976 McIntire Ave. Zanesville, OH 43701 740-704-1879 www.roxsol.com</p>		<b>LEGEND</b>		Melissa Riley 2990 Wilhelm Road, Chandlersville, OH	
		□ Lot		PARCEL: 60-40-17-01-000 SPLIT - LOT E	
		(#) Test Pit		2' CONTOUR INTERVAL	
		(W) Water Well		SCALE: 1"=60'	
		-w- Public Water ->- Drainage H-Homesite P-Primary Leach S-Secondary Leach		August 16, 2021 KB	





# Site and Soil Evaluation for Sewage Treatment and Dispersal

County: MUSKINGUM  
 Township / Sec.: SALT CREEK  
 Property Address/Location: 2990 WILHELM RD-LOT E  
CHANDLERSVILLE, OH 43727  
 Applicant Name: MELISSA RILEY  
 Address: 1257 MAPLE AVE  
ZANESVILLE, OH 43701  
 Phone #: 740-704-7120  
 Lot #: 60-40-17-01-000 (SPLIT)  
 Test Hole #: 1  
 Latitude/Longitude: 39.90595, -81.88871  
 Method: ☐ Pit ☐ Auger ☒ Probe

Land Use / Vegetation: UNDEVELOPED WEEDS-BRUSH  
 Landform: UPLAND  
 Position on Landform: HILLSLOPE  
 Percent Slope: 12%  
 Shape of Slope: LINEAR  
 Date: August 16, 2021  
 Evaluator: KYLE BALDWIN, GEOLOGIST

**AOP SOILS PROFESSIONAL**  
**ODH APPROVED SOIL EVALUATOR**

Certification # \_\_\_\_\_  
 Signature: KYLE BALDWIN  
 Phone#: 740-704-1879

Soil Profile		Estimating Soil Saturation			Estimating Soil Permeability							Loading Rates		
		Munsell Color (hue, value, chroma)												
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Texture			Structure			Consistence	Infiltration		Linear
			Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)		>30BOD	<30BOD	g/d/ft
Ap	4	10YR 4/3			SIL	20	0	2	M	GR	FR	0.6	0.8	3.3
Bt1	20	10YR 5/6	10YR 5/4		SIL	20	0	2	F	SBK	FR	0.6	0.8	3.3
Bt2	36	10YR 5/4	10YR 3/2 5/6	10YR 6/2	SICL	30	0	2	M	SBK	FI	0.4	0.6	3.0
2BC	48	2.5Y 5/4	10YR 3/2 5/6	10YR 6/1	SICL	30	0	2	CO	SBK	FI	0.4	0.6	3.0
2C	60	2.5Y 5/4	10YR 3/2	10YR 6/1	SICL	35	0	2	M	PL	FI	0.0	0.0	0.0

Limiting Conditions	Depth to (in.)	Descriptive Notes	Remarks / Risk Factors:	Calculations(ESTIMATE ONLY)					
Perched Seasonal Water Table	20	33% REDOX.		4	BR	X	120	=	480
Apparent Water Table	N/O	NOT OBSERVED		480	÷	0.4	=	1200	ESTIMATED GALLONS PER DAY
Highly Permeable Material	N/O	NOT OBSERVED		480	÷	3.0	=	160	BOTTOM OF TRENCH (FT)
Bedrock	N/O	NOT OBSERVED		1200	÷	160	X	3	MINIMUM TRENCH LENGTH (FT)
Restrictive Layer	48	PARALITHIC / PLATY	TEST HOLES LOCATED USING GARMIN GPS(GEO/ NAD 83 / OH SOUTH)						LEACHFIELD WIDTH (FT)
				LEACH FIELD WIDTH BASED ON A 24" WIDE TRENCH					

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

# Site and Soil Evaluation for Sewage Treatment and Dispersal

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CHANDLERSVILLE, OH 43727  
 Applicant Name: MELISSA RILEY  
 Address: 1257 MAPLE AVE  
ZANESVILLE, OH 43701  
 Phone #: 740-704-7120  
 Lot #: 60-40-17-01-000 (SPLIT)  
 Test Hole #: 2  
 Latitude/Longitude: 39.9064, -81.88896  
 Method: ☐ Pit ☐ Auger ☒ Probe

Land Use / Vegetation: UNDEVELOPED WEEDS-BRUSH  
 Landform: UPLAND  
 Position on Landform: HILLSLOPE  
 Percent Slope: 12%  
 Shape of Slope: LINEAR  
 Date: August 16, 2021  
 Evaluator: KYLE BALDWIN, GEOLOGIST

**AOP SOILS PROFESSIONAL**  
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Soil Profile		Estimating Soil Saturation		Estimating Soil Permeability								Loading Rates		
		Munsell Color (hue, value, chroma)												
Horizon	Depth (inches)	Matrix Color	Redoximorphic Features		Texture			Structure			Consistence	Infiltration		Linear g/d/ft
			Concentrations	Depletions	Class	Approx. % Clay	Approx. % Fragments	Grade	Size	Type (shape)		>30BOD	<30BOD	
<b>Ap</b>	<b>4</b>	<b>10YR 4/3</b>			<b>SIL</b>	<b>20</b>	<b>0</b>	<b>2</b>	<b>M</b>	<b>GR</b>	<b>FR</b>	<b>0.6</b>	<b>0.8</b>	<b>3.3</b>
<b>Bt1</b>	<b>22</b>	<b>10YR 5/6</b>	<b>10YR 5/4</b>		<b>SIL</b>	<b>20</b>	<b>0</b>	<b>2</b>	<b>F</b>	<b>SBK</b>	<b>FR</b>	<b>0.6</b>	<b>0.8</b>	<b>3.3</b>
<b>Bt2</b>	<b>34</b>	<b>10YR 5/4</b>	<b>10YR 3/2 5/6</b>	<b>10YR 6/2</b>	<b>SICL</b>	<b>30</b>	<b>0</b>	<b>2</b>	<b>M</b>	<b>SBK</b>	<b>FI</b>	<b>0.4</b>	<b>0.6</b>	<b>3.0</b>
<b>2BC</b>	<b>48</b>	<b>2.5Y 5/4</b>	<b>10YR 3/2 5/6</b>	<b>10YR 6/1</b>	<b>SICL</b>	<b>30</b>	<b>0</b>	<b>2</b>	<b>CO</b>	<b>SBK</b>	<b>FI</b>	<b>0.4</b>	<b>0.6</b>	<b>3.0</b>
<b>2C</b>	<b>60</b>	<b>2.5Y 5/4</b>	<b>10YR 3/2</b>	<b>10YR 6/1</b>	<b>SICL</b>	<b>35</b>	<b>0</b>	<b>2</b>	<b>M</b>	<b>PL</b>	<b>FI</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Limiting Conditions	Depth to (in.)	Descriptive Notes	Remarks / Risk Factors:	Calculations (ESTIMATE ONLY)						
Perched Seasonal Water Table	22	33% REDOX.		4	BR	X	120	=	480	ESTIMATED GALLONS PER DAY
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Highly Permeable Material	N/O	NOT OBSERVED		480	÷	3.0	=	160	MINIMUM TRENCH LENGTH (FT)	
Bedrock	N/O	NOT OBSERVED		1200	÷	160	X	3	=	23
Restrictive Layer	48	PARALITHIC / PLATY	TEST HOLES LOCATED USING GARMIN GPS(GEO/ NAD 83 / OH SOUTH)	LEACH FIELD WIDTH BASED ON A 24" WIDE TRENCH						

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