

**Adams Soil Consulting**  
**1676 Mitchell Road**  
**Angier, NC 27501**  
**919-414-6761**

February 20, 2020  
 Project #876

Chuck Krutzke  
 442 Cedar Rock Trail

RE: Preliminary septic design proposal for 442 Cedar Rock Trail in Harnett County.

Mr. Krutzke,

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems the soil/site evaluation was performed using pits that were excavated on the site.

The soil depth was found to be highly variable with a wavy boundary between usable material transitioning to bedrock or rock structure at greater than 50% of the soil profile.

Based on the findings at the pit locations the following primary system type is recommended:

Suggested soil LTAR – 0.3 gallons/day/ft<sup>2</sup>

Suggested Trench Bottom Depth – 12"

Accepted status system (25% reduction)

Approximately 6" of county approved soil fill material is required over the system area after installation

\*The proposed septic lines were flagged on grade at the site in the proposed primary septic area with multi-colored metal stemmed flags.

**442 Cedar Rock Trail**  
**Representative Profile**  
**Description**

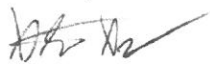
15% Slope, Linear Slope

Horizon	Depth	Color	Texture	Structure	Moist Consistence	Wet Consistence
		10YR				
A	0-15"	4/4 2.5R	Sandy Loam	granular	friable	non sticky, non plastic
Bt1	15-28"	4/6 2.5R	Clay	SBK	V. friable	non sticky, non plastic slightly sticky, slightly
BC/CR	20-36"	4/6	Clay	SBK	firm	plastic

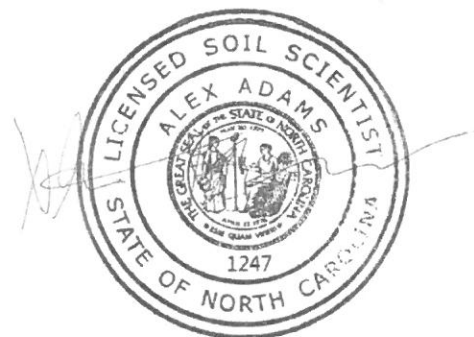
*Jan 25-20*

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime. Thank you allowing me to perform this site evaluation for you.

Sincerely,



Alex Adams  
 NC Licensed Soil Scientist #1247



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Representative Profile**

**Description**

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Sincerely,



Alex Adams  
NC Licensed Soil Scientist #1247



# Chuck Kurtzke

## 4-Bedroom Septic Proposal

### 442 Cedar Rock Trail

#4 Pink 100'  
 #3 Orange 100'  
 #2 Yellow 100'  
 #1 Blue 100'

Pool & Patio  
 Home

Repair Area  
 Drive

Cedar Rock Trail

System: Gravity to D-Box  
 Lines: 1-4, (400')  
 0.3 LTAR  
 12" Trench Bottom  
 ~6" of county approved fill material  
 required over initial septic field  
 Accepted Status System  
 Repair: Pump to D-Box  
 0.3 LTAR  
 18" Trench Bottom  
 Accepted Status System

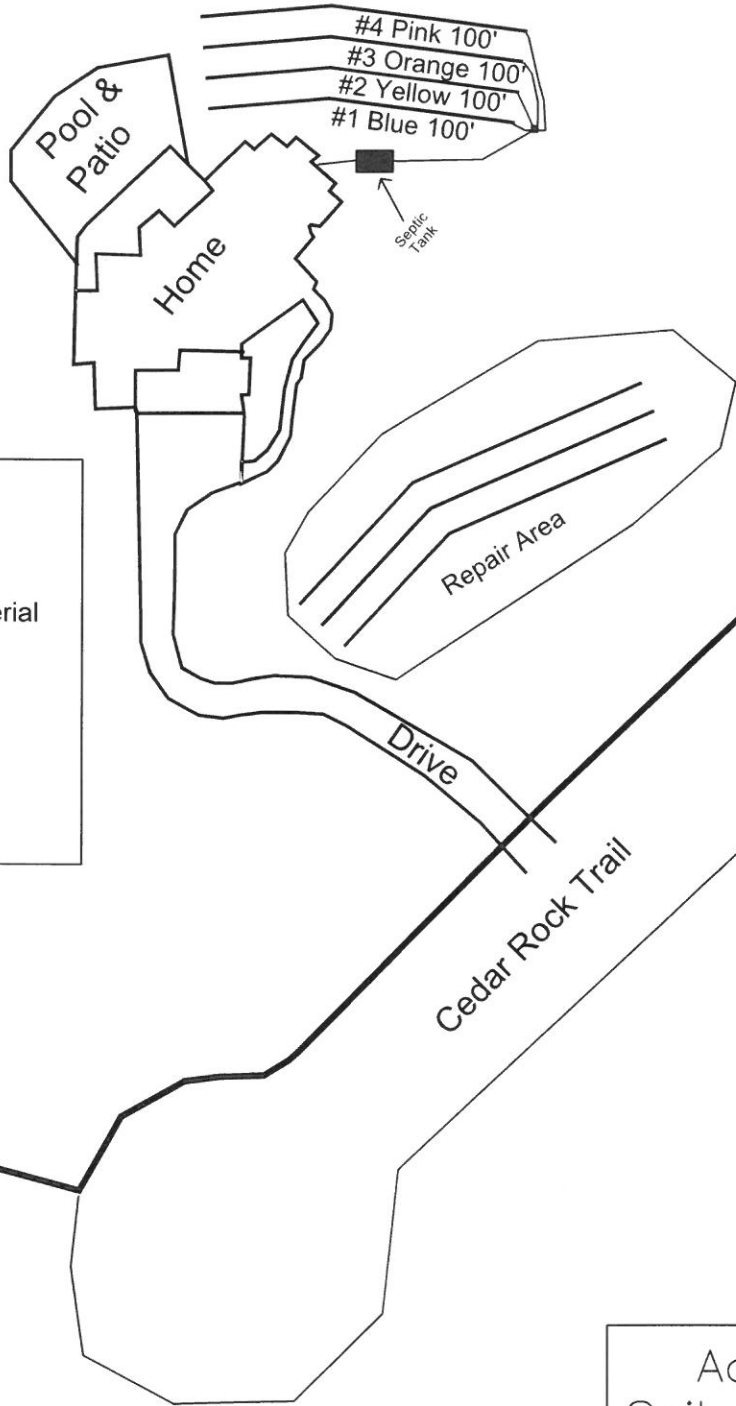


GRAPHIC SCALE  
 1" = 100'



Adams  
 Soil Consulting  
 919-414-6761  
 Job #876

Chuck Kurtzke  
4-Bedroom Septic Proposal  
442 Cedar Rock Trail



System: Gravity to D-Box  
Lines: 1-4, (400')  
0.3 LTAR  
12" Trench Bottom  
~6" of county approved fill material  
required over initial septic field  
Accepted Status System  
Repair: Pump to D-Box  
0.3 LTAR  
18" Trench Bottom  
Accepted Status System

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Soil Consulting  
919-414-6761  
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**442 Cedar Rock Trail**

1512 Holland Road

4-Bedroom Home (480 gal./day)

<u>LINE #</u>	<u>COLOR</u>	<u>BS</u>	<u>HI</u>	<u>FS</u>	<u>ELEVATION</u>	<u>LINE LENGTH</u>	<u>Design Length</u>
TBM		0.0		100.0		<u>in field</u>	<u>installation</u>
INST. 1			100.0				
1	Blue			4.4	95.6	112	100
2	Yellow			5.6	94.4	100	100
3	Orange			7	93	100	100
4	Pink			8.5	91.5	100	100
5	Red			10	90	95	not used
Total						507	400

**System**

Lines 1-4

**System Type**

Accepted Status System

EZ-FLOW

Soil LTAR

0.30

**Total Line Length**

400

**Square Footage**

1200

**Proposed Trench Bottom**

12"

**Distribution Method**

Gravity to D-Box