

**\*SEE REVERSE SIDE FOR IMPORTANT INFORMATION**

# PERMIT

for

## INSTALLATION OF SEWAGE DISPOSAL SYSTEM

Pursuant to Application for Sewage Disposal System Number: R 13662  
a permit is hereby issued to:

ED Zoller

NAME OF APPLICANT

68 High Gate Ln Blue Bell PA 19422 <sup>215</sup> 542-9844

ADDRESS OF APPLICANT

TELEPHONE NUMBER

Jug Hollow rd

PROPERTY ADDRESS OF SITE FOR SEWAGE DISPOSAL SYSTEM

This permit issued under the provision of the "Pennsylvania Sewage Facilities Act" the Act of January 24, 1966 (P.L.1535), as amended, is subject to the following conditions:

1. Except as otherwise provided by the Act or Regulations of the Pennsylvania Department of Environmental Resources, no part of the installation shall be covered until inspected by the approving body and approval to cover is granted in writing below as per Section 7(b)(3) of the Act.
2. This Permit may be revoked for the reasons set forth in Section 7(b)(6) of the Act.
3. This Permit expires three (3) years from the date of issuance, unless construction of the building and system has commenced in accordance with Section 7(b)(7) of the Act.
4. Notify this Department (3446242) upon starting construction of house and sewage system.
5. Obtain prior approval from this Department for any changes, revisions, deviations, etc.

**ADDITIONAL CONDITIONS:** This Permit does not remove the necessity for obtaining Municipal building and/or zoning Permits. **THIS PERMIT IS NOT TRANSFERRABLE UNLESS APPROVED BY THE HEALTH DEPARTMENT.**

Approval to Cover

Date of Issuance of Permit 7-28-6

Signature of Enforcement Officer

CHESTER COUNTY HEALTH DEPARTMENT

Approving Body

Ross Fisher

Signature of Enforcement Officer

Date

The basis for the issuance of this Permit is the information supplied in the Application for Sewage Disposal System and other pertinent data concerning soil absorption tests, topography, lot size, and subsoil groundwater table elevations. The Permit only indicates that the issuing authority is satisfied that the installation of the Sewage Disposal System is in accordance with the Rules, Regulations and Standards adopted by the Pennsylvania Department of Environmental Resources under the provisions of the Pennsylvania Sewage Facilities Act, the Act of January 24, 1966 (P.L.1535), as amended. The issuance of a Permit shall not preclude the enforcement of other health laws, ordinances or Regulations in the case of malfunctioning of the system.

Permittee is informed of the requirement to obtain a well permit prior to beginning construction of the well and the structures.

TO BE POSTED AT THE BUILDING SITE

CHESTER COUNTY HEALTH DEPARTMENT  
 Bureau of Environmental Health Protection  
 Division of Water & Sewage

**Inspection Requirements for Drip Irrigation Systems**

Name \_\_\_\_\_

Application # \_\_\_\_\_

Municipality \_\_\_\_\_

Date \_\_\_\_\_

As a condition of the issuance of this permit, a representative of this Department must inspect the sewage disposal system after completion of the following stages of construction:

SEO name \_\_\_\_\_ phone: \_\_\_\_\_

**If item is checked, inspection is required.**

**Date Inspected**

- |   |                |
|---|----------------|
| <input checked="" type="checkbox"/> The primary and replacement absorption area(s) must be roped off prior to the start of any construction. Absorption areas must be protected from vehicles and construction equipment. | _____<br>_____ |
| <input checked="" type="checkbox"/> Prior to installation, drip area must be staked out and laterals must be marked out where drip tubing will be installed.  | _____<br>_____ |
| <input type="checkbox"/> Installation of treatment tank   | _____<br>_____ |
| <input checked="" type="checkbox"/> Installation of aerobic unit  | _____<br>_____ |
| <input type="checkbox"/> Installation of sand/peat filters  | _____<br>_____ |
| <input type="checkbox"/> Sand/peat specifications   | _____<br>_____ |
| <input checked="" type="checkbox"/> Installation of pump station  | _____<br>_____ |
| <input checked="" type="checkbox"/> Installation of hydraulic unit  | _____<br>_____ |
| <input checked="" type="checkbox"/> Control panel/Alarm test, electrical connections and controls   | _____<br>_____ |
| <input checked="" type="checkbox"/> System operation and pressure test field verified & written report submitted by design engineer   | _____<br>_____ |
| <input type="checkbox"/> Inspection by manufacturer or their representative and designer  | _____<br>_____ |

**Failure to comply with the above inspections may result in delay or revocation of your sewage permit.**

Note: Upon notification of completion, this Department has 72 hours from the reported completion time to make inspection. To facilitate inspections the contractor should call this Department 24 hours in advance of completion of above checked stages.

APPLICATION FOR AN ON-LOT SEWAGE DISPOSAL SYSTEM PERMIT

ER-BWQ-290

**PART I APPLICANT AND SITE INFORMATION**

1. Applicant Name <u>ED ZWILL</u>	2. Site Address <u>JUG HILLOW ROAD</u>
Address <u>65 HICK CREEK LANE</u>	Street, RR, Box No. <u>MACULEN PA 19355</u>
<u>Blue Bell, PA 19422</u>	Post Office <u>Tax Parcel # 27-846</u> State <u>PA</u> Zip <u>19355</u>
Telephone No. Day <u>(215) 912-9844</u>	Subdivision Name <u>Scruboylem</u> Lot No. <u>CHERRY</u>
Evenings ( ) _____	Municipality _____ County <u>CHERRY</u>

Directions to the Site: SOUTH SIDE OF JUG HILLOW ROAD, OFF CHERRY CREEK ROAD.

3. Lot Size <u>5.541</u> sq. ft./acres	4. TYPE OF FACILITY TO BE SERVED BY THIS SYSTEM
Type of System	Single Family Residential <input checked="" type="checkbox"/> Multifamily <input type="checkbox"/>
<input checked="" type="checkbox"/> New	No. of Bedrooms <u>5</u> Commercial <input type="checkbox"/>
<input type="checkbox"/> Repair	gal./day <u>600</u>

5. Facility Water Supply: Public  Well  Spring  Cistern  Surface

6. Distance to the nearest existing or proposed Private Water Supply (on or off the property) 100 ft.

**PART II LOCAL AGENCY USE ONLY**

SEWAGE PLANNING	SITE SUITABILITY ANALYSIS	APPLICATION STATUS
<input type="checkbox"/> Approved Planning Mod. DEP Code No. _____ (date) _____	Soil Series _____	<b>ACTION</b> <b>DATE</b>
<input type="checkbox"/> Area Not Planned (lot created before May 15, 1972)	Slope <u>8-10%</u>	<input checked="" type="checkbox"/> Complete Application
<input type="checkbox"/> Limitations in Effect	Type of Limiting Zone <u>MATERIAL/B.O.P.T.</u>	<input checked="" type="checkbox"/> Received <u>10/19/01</u>
<b>FEES PAID</b> <u>67644</u>	Depth of Limiting Zone <u>50</u> inches	<input checked="" type="checkbox"/> Permit Issued <u>10/26/01</u>
Application \$ <u>25.00</u>	Type of Cover _____	<input type="checkbox"/> Permit Denied _____
Testing <u>350.00</u>	Ag, Grass, Forest _____	<input type="checkbox"/> Interim Inspection _____
Inspection(s) _____		<input type="checkbox"/> Interim Inspection _____
Other _____		<input type="checkbox"/> Final Inspection _____
Total \$ _____		<input type="checkbox"/> Approved _____
		<input type="checkbox"/> Disapproved <u>SEO Initials</u>
		<input type="checkbox"/> Revoked Permit _____

**PART III PLOT PLAN AND SYSTEM DESIGN**

1. TANKAGE <u>12500G</u>	2. SOIL ABSORPTION SYSTEM	3. ATTACH THE FOLLOWING DOCUMENTATION
Total Tank Capacity <u>12500</u> gal.	Total Absorption Area <u>4140</u> Sq. Ft.	a. A copy of the Form ER-BWQ-290 Appendix A (and B when required) (See Part II)
<input type="checkbox"/> Septic Tank(s)	<input type="checkbox"/> Standard Trench <input type="checkbox"/> Elev. Sand Trench	b. A detailed plot plan and sewage system design (including plan reviews and cross sections). See the instructions on the reverse side for required details. Indicate the number of attached sheets _____.
<input checked="" type="checkbox"/> Aerobic Tank(s) <u>1</u>	<input type="checkbox"/> Seepage Bed <input type="checkbox"/> Elev. Sand Bed	4. Type of Sand Filter <input type="checkbox"/> Buried <input type="checkbox"/> Free Access
<input type="checkbox"/> Chemical Toilet	<input type="checkbox"/> Pressure Dose <input type="checkbox"/> Subsurf. Sand	5. Type of Disinfection <input type="checkbox"/> Erosion <input type="checkbox"/> Hypo
<input type="checkbox"/> Composting Toilet	<input checked="" type="checkbox"/> Alternate <u>DEEP INCINERATION</u>	Comments: <u>2143 luvv for my 2160 hours provided ✓ 5.2</u>
<input type="checkbox"/> Incinerating Toilet	<input type="checkbox"/> Experimental _____	
<input type="checkbox"/> Recycling Toilet	<input type="checkbox"/> IRSIS _____	
<input type="checkbox"/> Holding Tank		
<input type="checkbox"/> Vault Privy		

**PART IV SIGNATURES**

I am the owner of record (or the authorized agent of the owner) of the lot described in Part I of this application. I intend to install an on-lot sewage system on this property. The information provided as part of this application is true and correct to the best of my knowledge. I understand that providing false information on this application is subject to the penalties of 18 PA C.S.A. §4904, relating to unsworn falsification to authorities. Submission of this form grants authorized representatives from the local agency and/or this Department access to the lot to inspect and conduct tests of 1) the site; 2) the system and structures under construction; 3) the completed sewage system; and, 4) the operational status of the system.

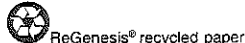
Property Owner's Signature Ed Zwill Date 10-16-01

The information in this application is true and correct to the best of my knowledge.

Enforcement Officer Signature \_\_\_\_\_ Date \_\_\_\_\_ Certification No. 2936



Ed Zwill  
APPLICANT





**TO:** Brent Kunkle  
Chester County Health Department

**FROM:** Ken Cowan  
Roy F. Weston, Inc.

**Date:** 27 July, 2001

**RE:** Zoller Drip  
Schuylkill Township

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On 20 July 2001, a soils investigation was conducted at the Zoller property for a proposed drip irrigation system. The site is located in Schuylkill Township. WESTON soil scientist, Ken Cowan, examined 7 test pits during the investigation to determine whether any soil limitations are present for locating a proposed sewage disposal system. Evans Mills represented the property owner and coordinated test pit activities.

Soil suitability for drip irrigation systems are determined by several factors, including:

- Soil Limitations
- Morphological indicators
- Optional Percolation Rates

Soil interpretations are based on actual soil conditions observed in the test pits and on the soil series mapped by the USDA Natural Resources Conservation Service and published in the Soil Survey of Delaware and Chester Counties, Pennsylvania.

Soil limitations that may inhibit the renovation of sewage effluent include:

- Drainage Mottling
- Fragipan
- Water Table
- High coarse fragment content
- Bedrock



The depth at which a limiting zone is identified in a test pit determines the type of septic system permitted by Chester County Health Department and Pennsylvania Department of Environmental Protection (PADEP) regulations. Test pits that have limiting zones within 20 inches of the ground surface are generally considered unsuitable for the installation of any on-lot subsurface disposal system. Test pits with limiting zones greater than 20 inches below ground surface (bgs) may be considered for placement of some types of subsurface septic systems; however, other requirements, such as slope and percolation rates, must also be considered.

According to PADEP's regulations, sites proposed for drip irrigation technology must be classifiable as either moderately well or well drained soils with a minimum depth to rock or high coarse fragment content greater than 26 inches bgs. In general, these conditions are determined based on field evaluations. The presence of drainage mottling at a depth greater than 20 inches below ground surface (bgs) generally indicates a soil drainage class of at least moderately well drained.

### Results

The property is a wooded lot. Three possible sites were located on the lot. The slope across the site was moderately steep.

Table 1 summarizes the limiting zones observed in the test pits completed at each site. Soil logs for these pits are attached at the end of this report. The location of each test pit is shown on the attached site sketch. Five test pits were limited by the depth of the excavation between 40 and 50 inches bgs. The two remaining test pits were limited by drainage mottling at 20 and 28 inches bgs. Based on the finest soil texture and soil structure a loading rate of 0.28 was chosen for each of the three sites.

Based on these soil characterization results the soils observed meet PADEP's requirements for installation of a standard drip irrigation sewage disposal system.

Sincerely,  
Roy F. Weston, Inc.



Kenneth J. Cowan, CPSSc

**TABLE 1**  
**Zoller Drip**  
**Schuylkill Township**

TEST PIT NUMBER	LIMITING ZONE	DEPTH
Site 1		
1	DEPTH OF THE EXCAVATION	40"
2	DEPTH OF THE EXCAVATION	40"
3	DRAINAGE MOTTLING	20"
Site 2		
4	DRAINAGE MOTTLING	28"
Site 2 & 3		
5	DEPTH OF THE EXCAVATION	50"
6	DEPTH OF THE EXCAVATION	50"
Site 3		
7	DEPTH OF THE EXCAVATION	50"

# Field Worksheet for Proposed Drip Irrigation System

Site Name/Lot #: Zoller Drip

Township: Schuylkill

People On-Site: Jeff Miller

## Input Parameters

1) GPD 600 (provided by developer/representative) 5 BR

2) Loading Rate 0.28 (maximum of 0.34 gals/day) (determined by soil scientist) based on failed perc

## Linear Feet of Tubing

1) Linear ft. of Tubing = GPD / Loading Rate

$$\underline{600} / \underline{0.28} = \underline{2143} \text{ Linear ft. of Tubing}$$

2) Linear ft. of Tubing per Zone = Linear ft. of Tubing / # of zones (minimum of 2)

$$\underline{2143} / \underline{2} = \underline{1072} \text{ Linear ft. of Tubing per Zone}$$

Average Daily Gallons of Flow per Day = GPD/0.5

$$\underline{600} \times 0.5 = \underline{300} \text{ gals per day (average daily flow)}$$

## Minimum Horizontal Length of Lateral

1) Minimum Horizontal Length = Average Daily Flow / 4.6 (Maximum Gallons per Day)

$$\underline{300} / 4.6 = \underline{66} \text{ ft (Minimum Horizontal Length)}$$

## Horizontal Linear Load

1) Horizontal Linear Load = gals per day (average daily flow) / Minimum Horizontal Length or larger length assigned by the developer

$$\underline{300} / \underline{66} = \underline{4.54} \text{ gals per day (horizontal linear load)}$$

## Absorption Area

1) Number of Laterals Per Zone = Linear ft. of Tubing per Zone / Minimum Horizontal Length

$$\underline{\quad} / \underline{\quad} = \underline{\quad} \text{ (Number of Laterals Per Zone) [must be an even \#]}$$

2) Width of the Zone = Number of Laterals per zone X Lateral Spacing

$$\underline{\quad} \times \underline{\quad} = \underline{\quad} \text{ ft (Width of the Zone)}$$

3) Absorption Area = Minimum Length of the Zone X Width of the Zone

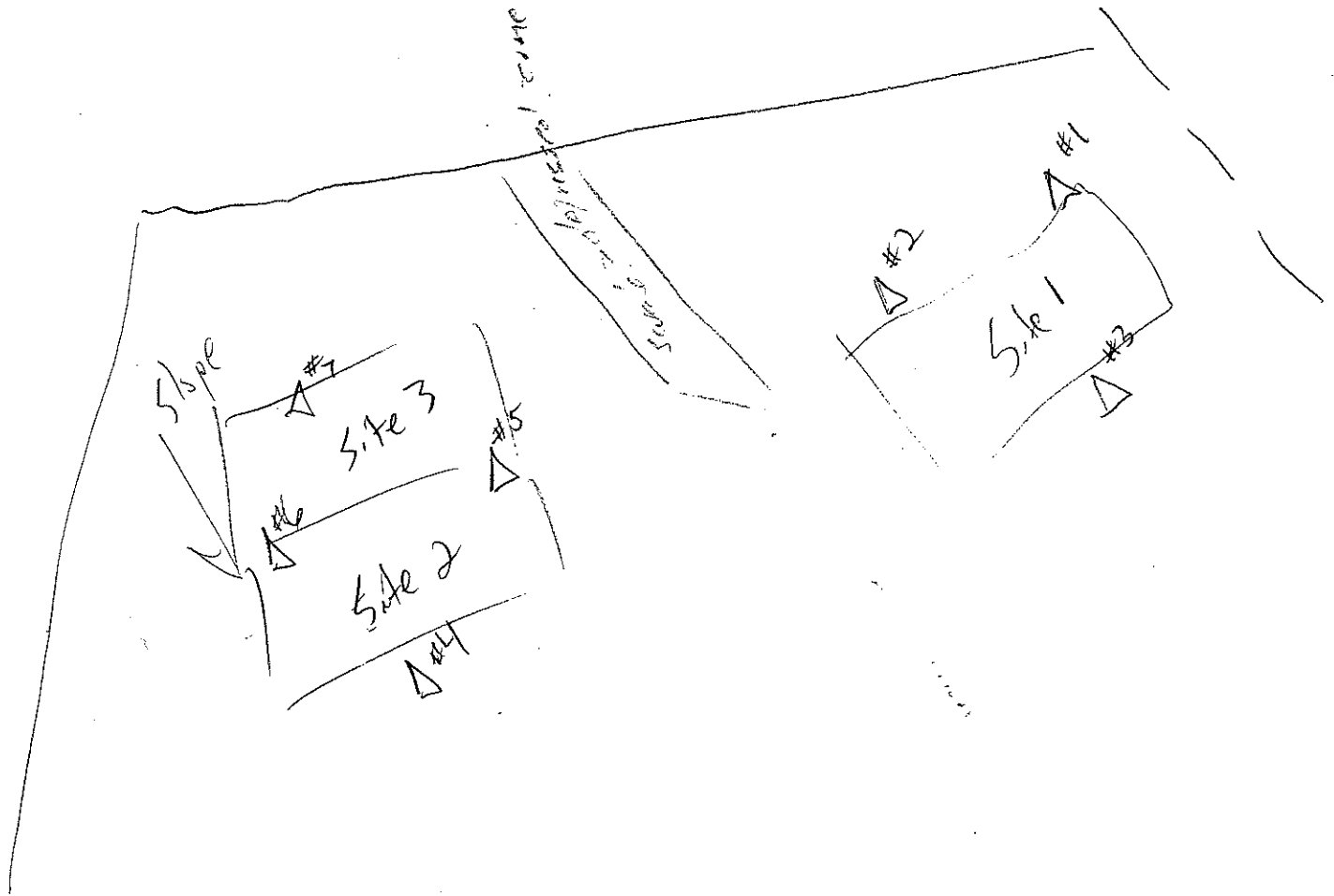
$$\underline{\quad} \times \underline{\quad} = \underline{\quad} \text{ ft}^2 \text{ (Absorption Area)}$$

The loading rate and the horizontal linear load identified above for this site meet PADEP requirements for drip irrigation.

[Signature]  
Soil Scientist representing CCHD

7/20/01 Date

# Site Sketch



## Site Description

New lot; wooded lot > 2 Ac. (5.6 Ac.)  
3 sites identified





**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of rock at a depth less than 26" b.g.s.

Soil Scientist

Township: Schuylkill

Described By: Ken Cowan

Drip Site: Zolier Drip

Test Pit Number: 7-20-1

Date: 7/20/01

Lot: Site 1

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	5	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	5	12	clear	loam	-	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	
EB	12	16	clear	loam	-	10 YR 5/6 yellowish brown	-	-	sbk	weak	friable	
Bt	16	33	clear	loam	10	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	
B	33	40	-	sandy loam	10	10 YR 6/6 yellowish brown	-	-	sbk	weak	friable	moist

Limiting Zone Depth: 40"

Weather:

Determined By: bottom of test pit

Additional Comments: adjacent to TP 2-7-1, wooded lot

Slope:

Soil Drainage Class: well drained



**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of rock at a depth less than 26" b.g.s.

Township: Schuylkill

Drip Site: Zoller Drip

Date: 7/20/01

Described By: Ken Cowan

Test Pit Number: 7-20-2

Lot: Site 1

Soil Scientist

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	5	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	5	14	abrupt	loam	-	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	
Bt	14	37	clear	heavy silt loam	10	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	
B	37	40	-	sandy loam	10	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	

Limiting Zone Depth: 40"

Weather:

Determined By: bottom of test pit

Additional Comments:

Slope:

Soil Drainage Class: well drained



**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of rock at a depth less than 26" b.g.s.

Soil Scientist

Township: Schuylkill

Described By: Ken Cowan

Drip Site: Zoller Drip

Test Pit Number: 7-20-3

Date: 7/20/01

Lot: Site 1

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	6	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	6	20	clear	sandy loam	-	variegated gray/brown orange	-	-	platy	weak	friable	
EB	20	27	clear	sandy loam	-	7.5 YR 5/6 strong brown	many	distinct	platy	weak	friable	dense
Bt	27	40	-	silt loam	-	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	dense

Limiting Zone Depth: 20"

Weather:

Determined By: drainage mottling

Additional Comments:

Slope:

Soil Drainage Class: moderately well drained



**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of ~~rock~~ at a depth less than 26" b.g.s.

Soil Scientist

Township: Schuylkill

Described By: Ken Cowan

Drip Site: Zoller Drip

Test Pit Number: 7-20-4

Date: 7/20/01

Lot: Site 2

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	4	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	4	17	clear	loam/silt loam	-	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	
Bt1	17	28	clear	silt loam	-	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	
Bt2	28	40	-	silt loam	-	7.5 YR 5/6 strong brown	many	distinct	sbk	weak	friable	

Limiting Zone Depth: 28"

Weather:

Determined By: drainage mottling

Additional Comments:

Slope:

Soil Drainage Class: moderately well drained



**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of rock at a depth less than 26" b.g.s.

Soil Scientist

Township: Schuylkill

Drip Site: Zoller Drip

Date: 7/20/01

Described By: Ken Cowan

Test Pit Number: 7-20-5

Lot: Site 2 & 3

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	3	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	3	15	clear	loam	-	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	
Bt	15	32	clear	loam	-	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	
BC	32	40	clear	loam	10	variegated orange tan	-	-	sbk	weak	friable	
C	40	50	-	fine sandy loam	10	10 YR 6/6 brownish yellow	-	-	massive	str less	loose	

Limiting Zone Depth: 50"

Determined By: bottom of test pit

Slope:

Soil Drainage Class: well drained

Weather:

Additional Comments:



**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of rock at a depth less than 26" b.g.s.

*[Signature]*  
Soil Scientist

Township: Schuylkill  
Drip Site: Zoller Drip  
Date: 7/20/01

Described By: Ken Cowan  
Test Pit Number: 7-20-6  
Lot: Site 2 & 3

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	4	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	4	12	clear	loam	-	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	
Bt	12	26	clear	silt loam	-	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	dense
B	26	50	-	loam	-	variegated tan org brown	-	-	sbk	weak	friable	

Limiting Zone Depth: 50"

Weather:

Determined By: bottom of test pit

Additional Comments:

Slope:

Soil Drainage Class: well drained



**SOIL SUITABILITY for ON-LOT SEPTIC SYSTEMS  
for CHESTER COUNTY HEALTH DEPARTMENT**

I have observed this test pit and have determined the soils to be at least moderately well drained and not limited by the presence of rock at a depth less than 26" b.g.s.

Township: Schuylkill

Drip Site: Zoller Drip

Date: 7/20/01

Described By: Ken Cowan

Test Pit Number: 7-20-7

Lot: Site 3

Soil Scientist

Horizon	Depth (inches)		Distinctness of Boundary	Texture	% Coarse Fragment	Color	Drainage Mottling		Structure		Consistence	Comments
	Upper	Lower					Abundance	Contrast	Type	Grade		
A	0	4	abrupt	loam	-	10 YR 3/3 dark brown	-	-	granular	weak	friable	
E	4	17	clear	loam	-	10 YR 6/6 brownish yellow	-	-	sbk	weak	friable	
Bt	17	46	clear	silt loam	-	7.5 YR 5/6 strong brown	-	-	sbk	weak	friable	
C	46	50	-	sandy loam	-	10 YR 6/6 brownish yellow	-	-	massive	str less	loose	

Limiting Zone Depth: 50"

Weather:

Determined By: bottom of test pit

Additional Comments:

Slope:

Soil Drainage Class: well drained