

# \* Septic System Location Table 1

Technical Standards Section II  
pg. 15



Connecticut Department of Public Health  
Keeping Connecticut Healthy



## \* Table 1 pg. 16-17

- \* Distances required between items and the subsurface sewage disposal system
- \* SSDS approved piping shall either be exempt or have reduced setback distance requirements
- \* Measured horizontally except for non-vertical geo-exchange bore holes

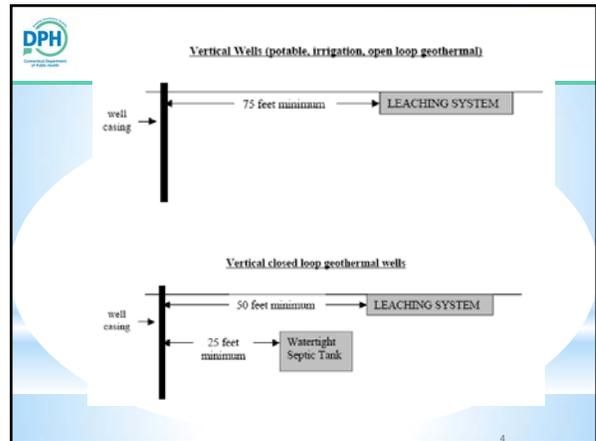
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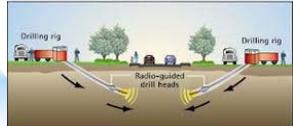
## \* Table 1

- \* Item A - water supply wells (potable, open loop geothermal, irrigation, spring)
  - \* 75, 150 or 200 feet depending on withdrawal rate.
  - \* doubled separating distances only applies to leaching system not to septic tanks




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## \* Table 1

- \* Item B: Building served
  - \* 10 feet from buildings not equipped with ground water control drains
  - \* Includes sewage tanks and leaching system



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**DPH** \* **Table 1**

- \*Item C: Open watercourse
  - \*50 feet
  - \*Reduced to 25 feet if lot was created prior to 8/16/82 and not located on a public water supply watershed
- \*Item D: Public water supply reservoir
  - \*100 feet



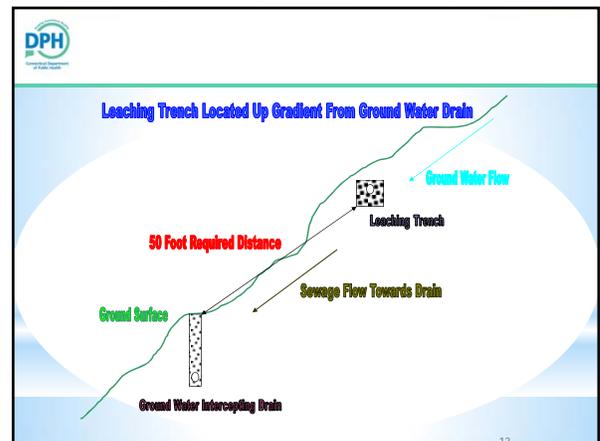
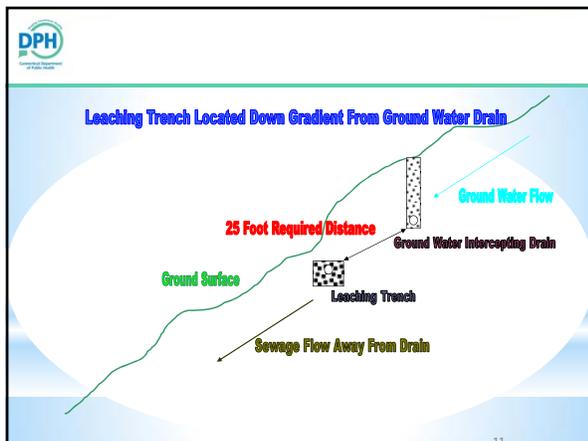
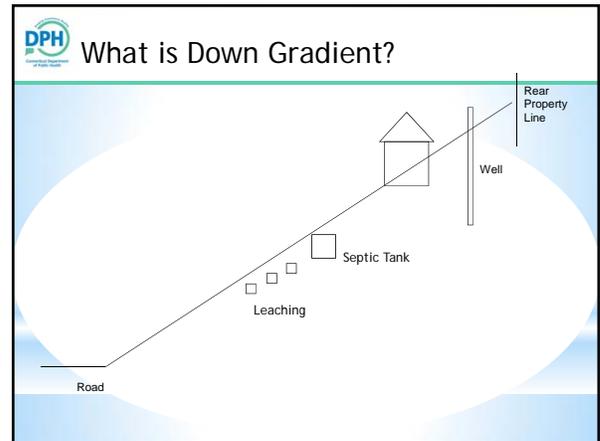
**DPH** \* **Table 1**

- \*Item E: Solid pipe for the conveyance of surface or groundwater drainage
  - \*25 feet
  - \*Pipe can be installed as close as 5 feet if tight pipe with rubber gasketed joints selected from Table 3 (not backfilled with free draining material)



**DPH** \* **Table 1**

- Item G: Groundwater drains (foundation, footing, curtain)
  - 25 feet up gradient or on side
  - 50 feet down gradient

**DPH** \* **Table 1**

\*Item F: Storm water structures

- \*25 feet
- \*10 feet to sewage tanks if storm water structure is watertight and constructed with rubber joint seals (e.g. ASTM C 923)



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**DPH** \* **Table 1**

\*Item H: Storm water systems (e.g., infiltration, retention)

\*Single family residential building lots

- \*50 feet but can be reduced to 25 feet if MLSS not applicable or not located up or down gradient
- \*10 feet for minor infiltration systems (rain gardens)



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**DPH** \* **Table 1**

\*Item H: Storm water systems (e.g., infiltration, retention)

Other lots (e.g., commercial, multi-family)

- \*75 feet but can be reduced to 50 feet if MLSS not applicable or not located up or down gradient
- \*Local director of health may further increase distances if localized groundwater mounding is a concern

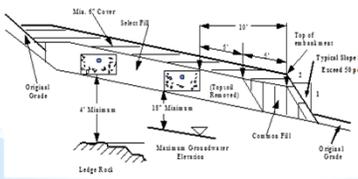


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**DPH** \* **Table 1**

\*Item I: Top of embankment (fill package around perimeter of leaching system)

- \*10 feet
- \*Distance does not apply to sewage tank



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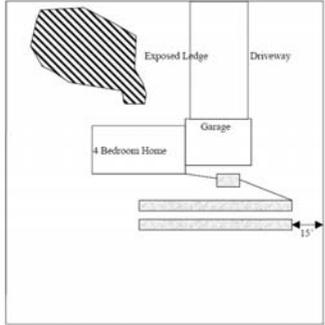
**DPH** \* **Table 1**

\*Item J: Property Line

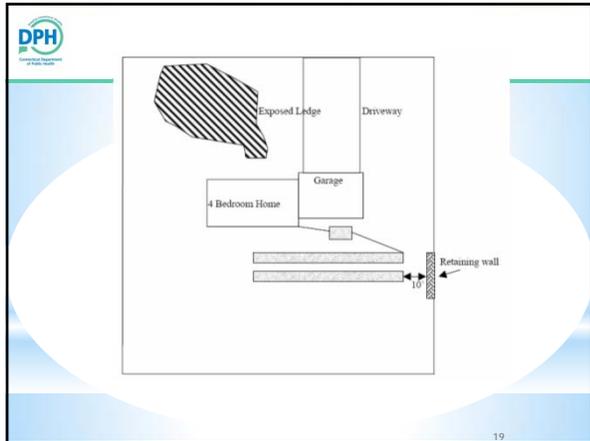
- \*15 feet to up gradient and side property lines
  - Reduced to 10 feet if leaching system is below original grade or grading rights from affected property owner are secured or retaining walls are utilized
- \*25 feet to down gradient property lines when MLSS is applicable

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**DPH**



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**DPH \* Table 1**

- \*Item K: Water piping (e.g., potable or irrigation)
  - \* 10 feet (no backfilling with free draining material)
  - \* 75 feet to water supply suction pipe (25 feet to sewage tank if verified watertight)
- \*Item L: Below ground swimming pool
  - \* 25 feet (if down gradient drains see item G)
- \*Item M: Above ground pool and hot tubs (except on decks)
  - \* 10 feet

**DPH \* Table 1**

- \*Item N: Accessory structure
  - \* 10 feet
  - \* No full wall frost footing (deck) reduced to 5 feet
- \*Item O: Utility service trench
  - \* 5 feet (not backfilled with free draining material)
- \*Item P: Buried fuel tanks
  - \* 25 feet unless not located down gradient then 10 feet is acceptable

**DPH \* Table 1**

- \*Item Q: Water treatment wastewater dispersal structure
  - \* 10 feet to sewage tank
  - \* 25 feet if small discharge system (<150 GPD)
  - \* 50 feet if med. discharge system (150-500 GPD)
  - \* 75 feet if large discharge system (>500 GPD)
  - \* Distances can be reduced to 10 feet if MLSS is not applicable or not located up or down gradient

**DPH \* Table 1**

**DPH \* Table 1**

- \*Item R: (Closed loop Geothermal Systems)
  - \* 50 feet to bore hole & trench unless not located down gradient then 25 feet is acceptable
  - \* 10 feet to geothermal piping to bore hole / trench
  - \* Geothermal piping excavations shall not be backfilled with free draining material if located less than 25 feet to SSDS

### DPH Vertical Closed Loop Systems

### DPH Horizontal Closed Loop Systems

### DPH Open Loop Systems

### DPH Table 1

- \*Item S: Grade cuts or soil disturbance down gradient of leaching system
- \*50 feet where bleed-out from cut is a concern
- \*Reduction allowed if design engineer demonstrates that the cut/soil disturbance does not diminish the receiving soil necessary for proper operation of the leaching system

### DPH Section II Location of Septic System

### DPH Record Plan or As-built

- \*After system installed a record plan or as-built drawing must be prepared by the installer unless Local Health requires an engineered plan
- \*Building sewer exit location
- \*Tank cleanouts
- \*Distribution boxes and access ports
- \*Ends of rows

**DPH** \* **As-Built**

- \* Locates the system and components as installed
- \* Could differ slightly from the plan
- \* Must be accurate
  - \* Scale Plan
    - \* Drawn to a particular scale, i.e., 1" = 10'
  - \* Tie Plan
    - \* Uses fixed points to identify a distance

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**SEPTIC SYSTEM AS-BUILT**

Distances:  
 AC=42'  
 BC=20'  
 AD=48'  
 BD=25'

3-45' LONG x 2' WIDE x 2' DEEP LEACHING TRENCHES WITH 100% EXPANSION BETWEEN TRENCHES.

Tie Plan

Fixed points

| ELEVATIONS      |         |
|-----------------|---------|
| SILL            | =130.37 |
| BLDG OUT        | =127.00 |
| SEPTIC TANK IN  | =126.69 |
| SEPTIC TANK OUT | =126.49 |
| D-BOX IN        | =125.57 |
| D-BOX OUT       | =125.39 |
| TRENCH 1 BEGIN  | =125.30 |
| TRENCH 3 BEGIN  | =125.30 |
| TRENCH 1 END    | =125.04 |
| TRENCH 2 END    | =125.04 |
| TRENCH 3 END    | =125.04 |

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Distances:  
 AC=42'  
 BC=20'  
 AD=48'  
 BD=25'

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**DPH**

**AS-BUILT**

ROAD

WELL

100 ft

(Treasure Map)

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**DPH** \* **Plan Adherence**

- \* The licensed installer is responsible for installing the system in accordance with the approved plan
- \* Any deviations from approved plan due to unforeseen site conditions must be reported by the licensed installer to the local health department and, if applicable, the design engineer

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**DPH** \* **System Abandonment**

- \* Eliminate danger of system components from collapsing
- \* Property owner's responsibility
- \* Proper abandonment procedure
  - \* Pump
  - \* Crush
  - \* Backfill

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**DPH** \* **Benchmarks**



- \* A point of reference for a measurement
- \* Usually set by the engineer in a permanent location such as top of catch basin or foundation (nail in tree is not recommended)
- \* Plans prepared by a Professional Engineer must have vertical and horizontal controls
- \* Field staking is acceptable
- \* Plans must have accurate topography

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The following pictures (and a few others in the presentation) have been provided by Andrew Colman of Wastewater Services.



An extensive photo gallery can be found on their website.

<http://www.wastewaterllc.com>



