SSDS Location Table 1
Technical Standards Section II
pg. 14-15

Table 1

*Distances required between items and the subsurface sewage disposal system
*Piping associated with the sewage disposal system are either exempt from these requirements or have reduced setback distance requirements
*Measured horizontally except for non-vertical geo-exchange bore holes

<table>
<thead>
<tr>
<th>Item</th>
<th>Distance (Feet)</th>
</tr>
</thead>
</table>
| A. Water supply wells (potable, open loop geothermal, irrigation, spring) | 75, 150 or 200 feet depending on withdrawal rate of well
| B. Building served | 10 |
| C. Open watercourse | 25 |
| D. Public water supply reservoir | 100 |
| E. Storm water structure | 25 |
| F. Solid piping for the conveyance of surface or groundwater drainage | 25 |
| G. Groundwater drain (e.g., catch basins, manholes) | 25 |
| H. Vertical Wells (potable, irrigation, open loop geothermal) | 30 |
| I. Top of embankment (i.e., fill (SWIS)) | 15 |
| J. Property line | 5 |
| K. Water Piping | 5 |
| L. Below ground swimming pool | 25 |
| M. Above ground swimming pool | 10 |
| N. Accessory structure | 10 |

MLSS is not applicable or on flat groundwater table lots; further reduction may be allowed as cited in footnote 1 if affected property owner are secured, or retaining walls are utilized (See Section VIII A for retaining wall provisions).

Table 1 pg. 14-15

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Distance (Feet)</th>
</tr>
</thead>
</table>
| A. Water supply wells (potable, open loop geothermal, irrigation, spring) | 75, 150 or 200 feet depending on withdrawal rate of well
| B. Building served | 10 |
| C. Open watercourse | 25 |
| D. Public water supply reservoir | 100 |
| E. Storm water structure | 25 |
| F. Solid piping for the conveyance of surface or groundwater drainage | 25 |
| G. Groundwater drain (e.g., catch basins, manholes) | 25 |
| H. Vertical Wells (potable, irrigation, open loop geothermal) | 30 |
| I. Top of embankment (i.e., fill (SWIS)) | 15 |
| J. Property line | 5 |
| K. Water Piping | 5 |
| L. Below ground swimming pool | 25 |
| M. Above ground swimming pool | 10 |
| N. Accessory structure | 10 |

MLSS is not applicable or on flat groundwater table lots; further reduction may be allowed as cited in footnote 1 if affected property owner are secured, or retaining walls are utilized (See Section VIII A for retaining wall provisions).
**Item B:** Building served
*10 feet from buildings not equipped with ground water control drains (foundation drain)*
*Includes sewage tanks and leaching system*

**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*

**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)*

**Item F:** Storm water structure (e.g. catch basins)
*25 feet*
*Distance shall be reduced to 10 feet to sewage tank if watertight and constructed with rubber joint seals (e.g. ASTM C 923)*
*Shall not be designed to collect groundwater*

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

---

**What is Down Gradient?**

[Diagram showing the concept of down gradient with example scenarios such as septic tank and leaching areas.]
*Item H: Storm water infiltration systems (SWIS) (e.g., infiltration, retention)*

- Sewage tanks reduced to 25 feet
- 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 storm water infiltration systems (rain gardens)

*Item H: SWIS - 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

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

- 10 feet
- Distance does not apply to sewage tank

*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 (when leaching system in select fill)
- 25 feet to down gradient property lines when MLSS is applicable
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 pool equipped with subsurface drain and is down gradient see item G)

Item M: Above ground pool and hot tubs (except on decks)
- 10 feet

Item N: Accessory structure
- 10 feet
- No full frost wall footing 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

Item Q: Water treatment wastewater (WTW) dispersal structure
- 10 feet to sewage tank
- 25 feet if small discharge system (<150 GPD)
- 50 feet if medium 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

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
- Distance to sewage tank shall be reduced to 25 feet
- Geothermal piping excavations shall not be backfilled with free draining material if located less than 25 feet to sewage disposal system
**Horizontal Closed Loop Systems**

- Grade cuts or soil disturbance down gradient of leaching system
- Reduction allowed if design engineer demonstrates that the cut/soil disturbance preserves the leaching system’s receiving soil

**Open Loop Systems**

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

**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 preserves the leaching system’s receiving soil

**Record Plan or As-built**
**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

**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

**System Abandonment**

- Eliminate danger of system components from collapsing
- Property owner is responsible
- Proper abandonment procedure
  - Pump
  - Crush
  - Backfill
Benchmarks

* A point of reference for a measurement
* Usually set by the engineer in a permanent location such as the top of a catch basin or building 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

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

http://www.wastewaterllc.com

An extensive photo gallery can be found on their website.
12" Concrete Galleries

1 foot of stone surrounding the gallery

Distribution Box