



Information for the Installer/Applicant

The design plan/sketch of the proposed WTW dispersal system minimum requirements
(This is not all inclusive)

Provide the following:

- **Property Lines;**
- **Building(s);**
- **Septic System(s);**
- **Well(s);**
- **Water Courses/Bodies;**
- **Driveway(s);**
- **WTW Location(s);**
- **Additional requirements maybe requested after review;**

The Applicant shall submit an As-built drawing to the Chatham Health District in a timely manner that includes distances from two or more permanent reference points to the WTW disposal system along with system type, size, length, and depth into grade.

Additional Compliance Requirements:

- WTW solid conveyance pipe shall be approved by the DOH and be protected from freezing. Solid pipe listed in Table 2-A is acceptable for gravity WTW conveyance pipe, and pipe listed in Table 2-B is acceptable for pressure WTW conveyance pipe;
- WTW dispersal systems shall meet the separation distances cited in Table 1 (Item Q), and WTW dispersal system receiving structures shall meet the minimum separation distances cited in Table 9. Air gaps/breaks in WTW conveyance pipes that are outside of the building foundation shall meet the minimum separation distances cited in Table 9, unless otherwise authorized by the Commissioner;
- WTW holding tanks, including piping, shall be located at least 10 feet from SSDSs;
- WTW dispersal systems and WTW holding tanks shall be H-20 load rated in vehicular travel areas;
- The bottom of the WTW dispersal system shall be located a minimum 12 inches above maximum groundwater and 24 inches above ledge rock;
- WTW dispersal systems shall have a minimum storage volume of 1.5 times of either the anticipated discharge per cycle or daily average, whichever is greater;
- Stone aggregate used shall be free of silt, dirt and debris and covered with approved filter fabric;
- WTW holding tanks shall provide an access cleanout to grade and be equipped with a high-level alarm;
- The installer shall provide twenty-four (24) hour minimum notice to the DOH prior to commencement of installation, unless otherwise agreed upon;
- All applicable permits (electrical, plumbing, etc.) shall be obtained from the local building official;
- An as-built drawing shall be submitted to the DOH that includes distances from two or more permanent reference points to the WTW disposal system.



Definitions and Requirements:

1. **WTW:** Water treatment wastewater

2. **Water Treatment Wastewater;** is wastewater generated by a device used for the treatment of well water that enhances the quality of water and/or provides for the removal of iron, manganese, radionuclide's or other substances.

3. **Water Treatment Wastewater Dispersal System;** means a system of a solid conveyance pipe, followed by a structure designed to receive water treatment wastewater and allow it to percolate into the underlying soil. Such systems may include a filter or an intermediate settling structure. Receiving structures include stone filled excavations, drywells, galleries, pits, plastic chambers, or other structures approved by the Commissioner of Public Health.

4. Water treatment wastewater (WTW) dispersal system, Table 1 (Item Q):

Distance to sewage tank shall be reduced to 10 feet. Distance to WTW dispersal system non-discharging settling or filtration structures and solid piping shall be reduced to 10 feet; however solid piping excavations shall not backfilled with FDM.

Small discharge (<150 GPD) 25' Distance to leaching system shall be reduced to 10 feet if MLSS is not applicable or the WTW dispersal system does not discharge up-gradient or down-gradient of the leaching system.

Med. discharge (150 – 500 GPD) 50' Distance to leaching system shall be reduced to 25 feet if MLSS is not applicable or the WTW dispersal system does not discharge up-gradient or down-gradient of the leaching system.

Large discharge (>500 GPD) 75' The DOH may require an increased distance or an engineered assessment on the impacts of localized groundwater mounding in the vicinity of a SSDS.

5. Table 9: Item Separation Distance (feet) Special Provisions:

Public or private water supply well with required withdrawal rate of:

< 10 GPM:	75'
10 to 50 GPM:	150'
> 50 GPM:	200'
Open watercourse:	25'
Public water supply reservoir:	100'
Property line:	10'

Subsurface sewage disposal system See Table 1 (Item Q) (Above)

The DOH may allow certain separation distance reductions on existing developed properties if compliance cannot be met due to site limitations. (1)(2)(3):

(1) Reductions cannot be granted to public water supply reservoirs or public water supply wells.

(2) Reductions to private wells shall not be reduced to less than 25 feet. WTW discharges less than 75 feet up-gradient of a private well shall be avoided, whenever possible.

(3) The DOH may not allow reduced setback distances if there is a concern that the WTW may negatively impact the quality of the groundwater.



Volume Provided by Various Structures

Examples:

Infiltrator:

Standard Quick4 Infiltrator (12"):	43 Gal/unit
Hi Cap Quick4:	62 Gal/unit
Quick4 Plus Standard (8"):	47 Gal/unit
Quick4 Plus HI Cap (12"):	54 Gal/unit

Stone Trench:

$\frac{3}{4}$ " – 1 $\frac{1}{4}$ " stone trench 3'w x 1'h :	9 Gal/linear ft
$\frac{3}{4}$ " – 1 $\frac{1}{4}$ " stone trench 4'w x 1'h:	12 Gal/linear ft
$\frac{3}{4}$ " – 1 $\frac{1}{4}$ " stone trench 3'w x 2'h:	18 Gal/linear ft
$\frac{3}{4}$ " – 1 $\frac{1}{4}$ " stone trench 4'w x 2'h:	24 Gal/linear ft