

Wastewater Disposal System Design

Philo Ridge Farm Mound Site

22-Oct-18

790 Design Flow (GPD)
0.82 Average Daily Flow (GPM)

4.0 Allowable application per linear foot (GPD/LF)
197 Linear feet of Trench Required (FT)
280 Equivalent Linear feet of Trench Proposed (FT)

Dosing Requirements

1.5 Diameter of Distribution Pipe (Inches)
1 Number of Distribution Pipes
193 Length of Distribution Pipe (FT)
18 Distribution System Volume (Gallons)
5.00 Required Dose Volume Factor
89 Required Minimum Dose Volume (Gallons)
4.00 Minimum Required Doses per Day
197 Maximum Dose Allowed (Gallons)
200 Chosen Dose Volume (Gallons)
5.00 Recommended Pumping Duration per Dose (Minutes)
40.00 Recommended Pumping Rate w/o Inflow (GPM)
40.82 Recommended Pumping Rate with Inflow (GPM)
47.75 Chosen Flow Rate (GPM)

Distribution Requirements

4 Trench width (FT)
1,120 Total Trench Area (SF)
25 Maximum Area per orifice Hole (SF)
45 Required Number of Orifice Holes
70 Number of Orifice Holes Proposed
0.57 Avg. Flow per Orifice (GPM)

346.75 Effluent Elevation Head

TRENCH 1

70 Total # of orifices
790 Total Design Flow (GPD)
280 Total Length of Trench (FT)

47.8 Chosen Design Flow (GPM)
44.66 Total Actual Design Flow (GPM)
-6.91% Percent Delta from Design