Dept 24 Sample pick up 1 gal/day

3785 cc / 1440 = 2.63 cc/min

$\frac{300}{1{,}000{,}000{,}000} = \frac{x}{3785 \times 3}$

$\frac{(0.3 \times 10^3)(3.785 \times 10^3)}{1 \times 10^9} = 1.1355 \times 10^{-3} = 0.0011$ cc/day

= 0.003 cc total

Assume high speed @ 35 gal/day

0.0011 cc/min × 35 = 0.039 cc/day

= 0.117 cc/total 7 days

@ 240 GPM in 18" Sewer = 0.3 ft/sec

4000 GPM in 24" sewer 2.8 ft/sec

4000 GPM in 30" 1.8 ft/sec

} Turbu Fl

Volume of 24" Sewer

for 15" $(\pi)(0.625^2)(7.48) = 9.2$

for 18" $= (\pi)(0.75)^2(7.48) = 13.2$ gal/ft

for 36" sew $\pi \times 1.5^2 \times 1 \times 7.48 = 52.9$

$(\pi)(r^2)(1)(7.48$ gal/ft$^3)$

$(\pi)(1)^2(1)(7.48) = 23.5$ gallons/ft

4000 gallons / 23.5 = 170 ft

1.25 · 0.625 · 4.375 · 62.50

1.25 · 2.875 · 1.25

Length of 24" sewer back from 2-A = 1100 ft × 23.5 = 25850

Length of 36" Sewer 625 ft × 52.9 = 33063

Length of 18" Sewer 412 ft × 13.2 = 5436

Length of 15" Sewer 113 × 9.2 = 1040

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