

Channel Report

<Name>

Rectangular

Bottom Width (ft) = 4.50
Total Depth (ft) = 2.67

Invert Elev (ft) = 100.00
Slope (%) = 0.50
N-Value = 0.011

Calculations

Compute by: Q vs Depth
No. Increments = 10

Highlighted

Depth (ft) = 2.40
Q (cfs) = 114.17
Area (sqft) = 10.81
Velocity (ft/s) = 10.56
Wetted Perim (ft) = 9.31
Crit Depth, Yc (ft) = 2.67
Top Width (ft) = 4.50
EGL (ft) = 4.14

Flow in Gallons per Day

$(114.2 \text{ cf/s}) \times (7.48 \text{ gal/1 cf}) \times (60 \text{ s/1 min}) \times (60 \text{ min/1 hr}) \times (24 \text{ hr/1 day})$
Q = 73,804,262.40 gallons per day

