

Worksheet
Worksheet for Trapezoidal Channel

Project Description

Project File	untitled.fm2
Worksheet	Trinity Point
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Discharge

Input Data

Mannings Coefficient	0.030
Channel Slope	0.2500 %
Depth	3.50 ft
Left Side Slope	4.000000 H : V
Right Side Slope	4.000000 H : V
Bottom Width	5.00 ft

Results

Discharge	258.27	cfs
Flow Area	66.50	ft ²
Wetted Perimeter	33.86	ft
Top Width	33.00	ft
Critical Depth	2.49	ft
Critical Slope	0.011848	ft/ft
Velocity	3.88	ft/s
Velocity Head	0.23	ft
Specific Energy	3.73	ft
Froude Number	0.48	

Flow is subcritical.