

# Reference Reach Analysis

Reference Reach Characteristics	Units
<i>Slope</i>	0.0153
<i>Low Radius of Curvature (ROC)</i>	32.180 ft
<i>High ROC</i>	50.360
<i>meander wave length</i>	150.000 ft
<i>Channel Roughness</i>	0.030
<i>Floodplane Roughness</i>	0.035
<i>Willow Corridor Roughness</i>	0.080
<i>Side slope</i>	0.109 rise/run
<i>channel depth</i>	0.860 ft
<i>Flood plane width</i>	76.29 ft

Existing Channel Characteristics	
<i>Slope at 222'</i>	0.02731
<i>Slope at 350'</i>	0.02255
<i>Slope at 450'</i>	0.01643
<i>Slope at 500'</i>	0.01581
<i>Slope at 570'</i>	0.01233

Side Slope Averaging	
Cross-section	rise over run
265	0.247
165	0.021
145	0.041
135	0.056
100	0.052
90	0.090
80	0.253
Average	0.109

Channel Depth Averaging	
Cross-section	Depth (ft)
310	0.72
285	0.33
260	0.55
235	0.99
210	0.93
185	1.11
160	0.88
135	1.22
110	1.08
80	0.53
55	0.57
30	1.66
5	0.55
Average=	0.86