

| Route Centre St Stream Rapid C | reek | MRM | Da | ite 4/4/2 | 0// Ini | itials Ch |
|--|------------------|---------------|----------|-------------------|---------|-----------|
| Bridge Structure No. 52424302 Location Centre St. over Rapid Creek | | | | | | |
| GPS coordinates: $\sqrt{44^{\circ} 04' 45.6''}$ taken from: USL abutment centerline of $\hat{1}$ MRM end | | | | | | |
| | | oordinates: W | GS84 | NAD27_ | | |
| Drainage area = $\frac{421.21}{}$ sq. mi. | | | | rac |) | 0.1 |
| The average bottom of the main channel was 13.5 ft below top of guardrail at a point 52.0 ft from left abutment. | | | | | | |
| Method used to determine flood flows:Freq. Analdrainage area ratioregional regression equations. | | | | | | |
| MISCELLANEOUS CONSIDERATIONS | | | | | | |
| Flows | $Q_{100} = 4810$ | | | $Q_{500} = 18100$ | | |
| Estimated flow passing through bridge | 4520 | | | 4520 | | |
| Estimated road overflow & overtopping | 290 | | | 13540 | | |
| Consideration | Yes | No | Possibly | Yes | No | Possibly |
| Chance of overtopping | X. | | | X | | |
| Chance of Pressure flow | X | | | X | | |
| Armored appearance to channel | | X | | | X | |
| Lateral instability of channel | | X | | | X | |
| Riprap at abutments?YesNoMarginal | | | | | | |
| Evidence of past Scour? Yes No Don't know | | | | | | |
| Debris Potential? | | | | | | |
| | | | | | | |
| Does scour countermeasure(s) appear to have been designed? | | | | | | |
| Riprap Yes No Don't know NA | | | | | | |
| Spur Dike Yes No Don't know NA | | | | | | |
| | | | | | | |
| Other YesNoDon't knowNA | | | | | | |
| Ded Material Classification Develop Matter Bestide Class (D.) | | | | | | |
| Bed Material Classification Based on Median Particle Size (D ₅₀) | | | | | | |
| Material Silt/Clay Sand | | | | Cobbles | | Boulders |
| Size range, in mm <0.062 0.062-2. | .00 | 2.00-64 | | 64-250 | | >250 |
| Comments Diagrams & scientation of distributes | | | | | | |
| Comments, Diagrams & orientation of digital photos | | | | | | |
| Thotos 11-115/1. 124/1 | | | | | | |
| | | | | | | |
| 1560-ID 61-15Porpendicular to bridge 66-US R. Abut 62-US 63-US Face of bridge 63-US Face of bridge | | | | | | |
| 17 116 Tran of Widae | | | | | | |
| 17-115 RB | | | | | | |
| 68-115 Face of bridge | | | | | | |
| 64-U3LB | | | 0 | | | |
| Summary of Results | | | | | | • |
| | Q100 | | | Q500 | | |
| Bridge flow evaluated | 4520 | | | 4520 | | |
| Flow depth at left abutment (yaLT), in feet | 0,7 | | | 0.7 | | |
| Flow depth at right abutment (yaRT), in feet | 4.65 | | | 4,65 | | |
| Contraction scour depth (ycs), in feet | 0.0 | | | 0.0 | | |
| Pier scour depth (yps), in feet | 9.9 | | | 3.1 | | |
| Left abutment scour depth (yas), in feet | 3.1 | | | 3.1 | | |
| Right abutment scour depth (yas), in feet 14, 4 | | | | | | |
| 1Flow angle of attack | | | | | 7.6 | |