

Reach	River Sta	Profile	Plan	Q Total (cfs)	W.S. Elev (ft)	Vel Chnl (ft/s)
1	2248	FEMA 100yr	12Mile10C	460.45	197.09	3.17
1	2248	FEMA 100yr	Pr 60%	460.45	197.07	3.2
1	2172	FEMA 100yr	12Mile10C	460.45	196.85	3.16
1	2172	FEMA 100yr	Pr 60%	460.45	196.82	3.22
1	2151	FEMA 100yr	12Mile10C	460.45	196.71	3.45
1	2151	FEMA 100yr	Pr 60%	460.45	196.67	3.57
1	2100			Culvert		
1	2098	FEMA 100yr	12Mile10C	460.45	195.75	3.52
1	2098	FEMA 100yr	Pr 60%	460.45	195.55	3.35
1	2063	FEMA 100yr	12Mile10C	460.45	195.47	3.98
1	2063	FEMA 100yr	Pr 60%	460.45	195.24	4.83
1	1948	FEMA 100yr	12Mile10C	460.45	194.11	6.2
1	1948	FEMA 100yr	Pr 60%	460.45	193.81	5.04
1	1789	FEMA 100yr	12Mile10C	460.45	192.55	4.4
1	1789	FEMA 100yr	Pr 60%	460.45	192.14	4.91
1	1639	FEMA 100yr	12Mile10C	460.45	191.42	4.64
1	1639	FEMA 100yr	Pr 60%	460.45	190.7	4.4
1	1500	FEMA 100yr	12Mile10C	460.45	190.38	5.26
1	1500	FEMA 100yr	Pr 60%	460.45	189.09	5.46
1	1404	FEMA 100yr	12Mile10C	460.45	189.01	7.49
1	1404	FEMA 100yr	Pr 60%	460.45	188.53	4.13
1	1231	FEMA 100yr	12Mile10C	460.45	188.5	1.89
1	1231	FEMA 100yr	Pr 60%	460.45	188.5	1.3
1	1087	FEMA 100yr	12Mile10C	460.45	188.27	2.6
1	1087	FEMA 100yr	Pr 60%	460.45	188.26	3.04
1	986	FEMA 100yr	12Mile10C	803.52	188.02	2.85
1	986	FEMA 100yr	Pr 60%	803.52	188.02	2.85
1	885	FEMA 100yr	12Mile10C	803.52	187.94	2.27
1	885	FEMA 100yr	Pr 60%	803.52	187.94	2.27
1	698	FEMA 100yr	12Mile10C	803.52	187.85	1.76

1	698 FEMA 100yr	Pr 60%	803.52	187.85	1.76
1	548 FEMA 100yr	12Mile10C	803.52	187.81	1.59
1	548 FEMA 100yr	Pr 60%	803.52	187.81	1.59
1	398 FEMA 100yr	12Mile10C	803.52	187.76	1.49
1	398 FEMA 100yr	Pr 60%	803.52	187.76	1.49
1	295 FEMA 100yr	12Mile10C	803.52	187.74	1.19
1	295 FEMA 100yr	Pr 60%	803.52	187.74	1.19
1	257 FEMA 100yr	12Mile10C	803.52	187.56	3.02
1	257 FEMA 100yr	Pr 60%	803.52	187.56	3.02
1	200	Culvert			
1	187 FEMA 100yr	12Mile10C	803.52	183.62	9.12
1	187 FEMA 100yr	Pr 60%	803.52	183.62	9.12
1	145 FEMA 100yr	12Mile10C	803.52	183.39	9.34
1	145 FEMA 100yr	Pr 60%	803.52	183.39	9.34
1	0 FEMA 100yr	12Mile10C	803.52	182.64	9.81
1	0 FEMA 100yr	Pr 60%	803.52	182.64	9.81

Shear Chan (lb/sq ft)	Shear Total (lb/sq ft)	Min Ch El (ft)	Crit E.G. Elev (ft)	E.(Flow Area (ft, (sq ft)	Top Width (ft)	
0.68	0.35	193	## 197.18	0	352.2	193.76
0.69	0.36	193	## 197.16	0	348.5	192.99
0.73	0.36	192.82	196.95	0	306.06	229.68
0.77	0.38	192.82	196.93	0	298.59	228.28
0.89	0.43	192.82	## 196.84	0	275.2	223.83
0.96	0.46	192.82	## 196.81	0	264.87	221.83
0.81	0.47	192.19	195.85	0	320.86	240.61
0.67	0.32	188.7	195.65	0	343	237.24
0.99	0.48	190.27	195.62	0	273.69	210.9
1.61	0.91	192.26	195.41	0	242.88	220.85
2.41	0.64	189.04	## 194.53	0	210.58	307.18
1.61	0.71	189.55	194.07	0	217.12	199.43
1.25	0.6	186.32	192.73	0	264.72	232.68
1.54	0.69	188.36	192.44	0	180.78	170.78
1.3	0.45	186.31	191.65	0	227.62	230.47
1.28	0.78	186.31	## 190.98	0	128.1	97.65
1.34	0.67	184.61	## 190.65	0	220.04	139.19
1.59	0.77	185.2	## 189.55	0	101.83	89.36
3.13	1.59	183.83	## 189.49	0	168.66	158.87
0.88	0.4	184.01	188.78	0	157.92	130.97
0.22	0.09	181.98	## 188.54	0	388.69	218.87
0.11	0.06	181.37	188.52	0	449.52	219.04
0.46	0.13	181.42	## 188.35	0	227.44	310.65
0.63	0.17	181.42	## 188.38	0	225.24	308.72
0.52	0.22	180.58	188.13	0	368.75	220.92
0.52	0.22	180.58	188.13	0	368.75	220.92
0.31	0.15	180.33	187.97	0	851.17	355.64
0.31	0.15	180.33	187.97	0	851.17	355.64
0.12	0.06	179.32	187.87	0	1184.5	385.05

0.12	0.06	179.32	187.87	0	1184.5	385.05
0.14	0.07	178	187.82	0	1153.7	375.04
0.14	0.07	178	187.82	0	1153.7	375.04
0.12	0.04	177.56	187.78	0	1439.5	623.45
0.12	0.04	177.56	187.78	0	1439.5	623.45
0.08	0.04	176.86	187.75	0	1311.42	394.36
0.08	0.04	176.86	187.75	0	1311.42	394.36
0.49	0.47	176.86 ##	187.7	0	265.43	384.88
0.49	0.47	176.86 ##	187.7	0	265.43	384.88
0.9	0.56	177.8 ##	184.88	0	107.47	93.81
0.9	0.56	177.8 ##	184.88	0	107.47	93.81
0.95	0.34	177.62 ##	184.72	0	105.18	65.8
0.95	0.34	177.62 ##	184.72	0	105.18	65.8
1.07	0.52	177.07 ##	184.11	0	95.68	45.14
1.07	0.52	177.07 ##	184.11	0	95.68	45.14

Froude # Chl

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Reach	River Sta	Profile	Plan	Q Total (cfs)	W.S. Elev (ft)	Vel Chnl (ft/s)
1	2248	GSSHA 2	12Mile100	175	196.5	1.71
1	2248	GSSHA 2	Pr 60%	175	196.49	1.72
1	2172	GSSHA 2	12Mile100	175	196.41	1.64
1	2172	GSSHA 2	Pr 60%	175	196.39	1.66
1	2151	GSSHA 2	12Mile100	175	196.37	1.68
1	2151	GSSHA 2	Pr 60%	175	196.36	1.71
1	2100		Culvert			
1	2098	GSSHA 2	12Mile100	175	194.62	3.64
1	2098	GSSHA 2	Pr 60%	175	194.82	2.08
1	2063	GSSHA 2	12Mile100	175	194.25	3.82
1	2063	GSSHA 2	Pr 60%	175	194.47	4.43
1	1948	GSSHA 2	12Mile100	175	192.97	4.89
1	1948	GSSHA 2	Pr 60%	175	192.89	3.75
1	1789	GSSHA 2	12Mile100	175	191.48	3.97
1	1789	GSSHA 2	Pr 60%	175	191.23	3.69
1	1639	GSSHA 2	12Mile100	175	190.27	3.74
1	1639	GSSHA 2	Pr 60%	175	189.62	3.39
1	1500	GSSHA 2	12Mile100	175	189.38	3.6
1	1500	GSSHA 2	Pr 60%	175	187.97	3.95
1	1404	GSSHA 2	12Mile100	175	188.33	5.44
1	1404	GSSHA 2	Pr 60%	175	186.97	3.76
1	1231	GSSHA 2	12Mile100	175	186.74	2.9
1	1231	GSSHA 2	Pr 60%	175	186.61	1.51
1	1087	GSSHA 2	12Mile100	175	186.17	2.92
1	1087	GSSHA 2	Pr 60%	175	186.17	2.92
1	986	GSSHA 2	12Mile100	227	185.34	3.99
1	986	GSSHA 2	Pr 60%	227	185.34	3.99
1	885	GSSHA 2	12Mile100	227	184.64	3.48
1	885	GSSHA 2	Pr 60%	227	184.64	3.48
1	698	GSSHA 2	12Mile100	227	183.96	3.07

1	698	GSSHA 2	Pr 60%	227	183.96	3.07
1	548	GSSHA 2	12Mile100	227	183.37	3.42
1	548	GSSHA 2	Pr 60%	227	183.37	3.42
1	398	GSSHA 2	12Mile100	227	182.95	2.35
1	398	GSSHA 2	Pr 60%	227	182.95	2.35
1	295	GSSHA 2	12Mile100	292	182.39	3.56
1	295	GSSHA 2	Pr 60%	292	182.39	3.56
1	257	GSSHA 2	12Mile100	292	181.87	4.49
1	257	GSSHA 2	Pr 60%	292	181.87	4.49
1	200		Culvert			
1	187	GSSHA 2	12Mile100	292	181.31	6.28
1	187	GSSHA 2	Pr 60%	292	181.31	6.28
1	145	GSSHA 2	12Mile100	292	181.13	6.36
1	145	GSSHA 2	Pr 60%	292	181.13	6.36
1	0	GSSHA 2	12Mile100	292	180.49	6.66
1	0	GSSHA 2	Pr 60%	292	180.49	6.66

Shear (lb/sq ft)	Chan (lb/sq ft)	Shear Total (lb/sq ft)	Min Ch (ft)	El (ft)	Crit W.S (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Flow Area (sq ft)	Top Width (ft)
0.21	0.1		193	194.79	196.53	0.00116	241.53	179.45	
0.21	0.1		193	194.79	196.51	0.00119	239.28	179.18	
0.21	0.09		192.82		196.44	0.00149	209.58	210.84	
0.21	0.09		192.82		196.43	0.00154	206.33	210.18	
0.22	0.1		192.82	194.58	196.41	0.00161	202.13	209.32	
0.23	0.1		192.82	194.58	196.39	0.00167	198.62	208.59	
0.96	0.37		192.19		194.77	0.00915	102.15	156.98	
0.28	0.1		188.7		194.87	0.00184	184.25	198.62	
0.98	0.32		190.27		194.46	0.00748	70.13	100.39	
1.57	0.72		192.26	194.39	194.67	0.02038	90.36	160.03	
1.61	0.55		189.04	192.01	193.33	0.01266	48.06	65.76	
1.03	0.48		189.55		193.07	0.01045	82.98	110.76	
1.06	0.28		186.32	189.43	191.71	0.00807	70.32	121.88	
1.01	0.43		188.36		191.44	0.0104	59.92	89.91	
0.99	0.47		186.31		190.47	0.00883	68.67	77.72	
0.91	0.88		186.31		189.8	0.01145	51.57	40.2	
0.7	0.29		184.61		189.54	0.00501	98.75	102.57	
0.99	0.99		185.2		188.21	0.01131	44.34	31.09	
1.83	0.74		183.83	188.33	188.68	0.01964	73.85	119.39	
0.89	0.89		184.01		187.19	0.00992	46.51	31.73	
0.59	0.17		181.98	184.47	186.85	0.0032	91.26	105.9	
0.18	0.1		181.37		186.64	0.00134	133.57	104.89	
0.66	0.66		181.42	184.17	186.3	0.00469	59.93	71.54	
0.66	0.66		181.42	184.17	186.3	0.00469	59.93	71.54	
1.27	1.27		180.58		185.59	0.0099	56.86	25.23	
1.27	1.27		180.58		185.59	0.0099	56.86	25.23	
0.92	0.41		180.33		184.78	0.00618	135.73	125.07	
0.92	0.41		180.33		184.78	0.00618	135.73	125.07	
0.47	0.15		179.32		184.07	0.00251	127.24	128.56	

0.47	0.15	179.32		184.07	0.00251	127.24	128.56
0.86	0.29	178		183.54	0.00517	97.44	103.85
0.86	0.29	178		183.54	0.00517	97.44	103.85
0.4	0.2	177.56		183.02	0.00224	142.41	96.6
0.4	0.2	177.56		183.02	0.00224	142.41	96.6
1	0.91	176.86		182.59	0.00766	82.33	39.71
1	0.91	176.86		182.59	0.00766	82.33	39.71
1.62	1.62	176.86	180.69	182.19	0.01279	65.06	29.77
1.62	1.62	176.86	180.69	182.19	0.01279	65.07	29.77
0.52	0.5	177.8	180.58	181.92	0.00354	46.65	18.05
0.52	0.5	177.8	180.58	181.92	0.00354	46.65	18.05
0.54	0.53	177.62		181.76	0.00368	45.94	17.13
0.54	0.53	177.62		181.76	0.00368	45.94	17.14
0.6	0.6	177.07	179.89	181.17	0.0042	43.88	16.72
0.6	0.6	177.07	179.89	181.17	0.0042	43.88	16.72

Froude # Chl

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Reach	River Sta	Profile	Plan	Q Total (cfs)	W.S. Elev (ft)	Vel Chnl (ft/s)
1	2248	GSSHA 10	12Mile100	368	196.93	2.76
1	2248	GSSHA 10	Pr 60%	368	196.92	2.78
1	2172	GSSHA 10	12Mile100	368	196.73	2.72
1	2172	GSSHA 10	Pr 60%	368	196.72	2.75
1	2151	GSSHA 10	12Mile100	368	196.63	2.92
1	2151	GSSHA 10	Pr 60%	368	196.62	2.95
1	2100		Culvert			
1	2098	GSSHA 10	12Mile100	368	195.47	3.4
1	2098	GSSHA 10	Pr 60%	368	195.34	3.04
1	2063	GSSHA 10	12Mile100	368	195.17	3.98
1	2063	GSSHA 10	Pr 60%	368	195.01	4.74
1	1948	GSSHA 10	12Mile100	368	193.85	5.81
1	1948	GSSHA 10	Pr 60%	368	193.58	4.69
1	1789	GSSHA 10	12Mile100	368	192.33	4.22
1	1789	GSSHA 10	Pr 60%	368	191.92	4.59
1	1639	GSSHA 10	12Mile100	368	191.13	4.57
1	1639	GSSHA 10	Pr 60%	368	190.42	4.13
1	1500	GSSHA 10	12Mile100	368	190.14	4.76
1	1500	GSSHA 10	Pr 60%	368	188.81	5.03
1	1404	GSSHA 10	12Mile100	368	188.8	7.2
1	1404	GSSHA 10	Pr 60%	368	187.98	4.38
1	1231	GSSHA 10	12Mile100	368	187.95	2.22
1	1231	GSSHA 10	Pr 60%	368	187.88	1.45
1	1087	GSSHA 10	12Mile100	368	187.48	3.53
1	1087	GSSHA 10	Pr 60%	368	187.49	3.62
1	986	GSSHA 10	12Mile100	492	186.43	5.12
1	986	GSSHA 10	Pr 60%	492	186.43	5.12
1	885	GSSHA 10	12Mile100	492	186	3.34
1	885	GSSHA 10	Pr 60%	492	186.01	3.34
1	698	GSSHA 10	12Mile100	492	185.74	2.4

1	698 GSSHA 10 Pr 60%	492	185.75	2.4
1	548 GSSHA 10 12Mile100	492	185.6	2.19
1	548 GSSHA 10 Pr 60%	492	185.61	2.19
1	398 GSSHA 10 12Mile100	492	185.5	1.69
1	398 GSSHA 10 Pr 60%	492	185.51	1.69
1	295 GSSHA 10 12Mile100	625	185.41	2.04
1	295 GSSHA 10 Pr 60%	625	185.41	2.04
1	257 GSSHA 10 12Mile100	625	185.16	3.57
1	257 GSSHA 10 Pr 60%	625	185.16	3.56
1	200	Culvert		
1	187 GSSHA 10 12Mile100	625	182.89	8.41
1	187 GSSHA 10 Pr 60%	625	182.89	8.4
1	145 GSSHA 10 12Mile100	625	182.7	8.52
1	145 GSSHA 10 Pr 60%	625	182.7	8.52
1	0 GSSHA 10 12Mile100	625	182	8.9
1	0 GSSHA 10 Pr 60%	625	182	8.9

Shear Chan (lb/sq ft)	Shear Total (lb/sq ft)	Min Ch E (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. ! (ft/ft)	Flow Area (sq ft)	Top Width (ft)
0.52	0.27	193	195.76	196.99	0	320.68	188.48
0.53	0.27	193	195.76	196.98	0	318.93	188.29
0.55	0.27	192.82		196.81	0	279.76	224.7
0.56	0.27	192.82		196.8	0	276.59	224.09
0.64	0.3	192.82	195.63	196.73	0	257.71	220.44
0.66	0.31	192.82	195.63	196.71	0	253.8	219.68
0.77	0.44	192.19		195.57	0	259.2	210.87
0.56	0.25	188.7		195.43	0	294.97	226.25
1	0.44	190.27		195.33	0	212.19	191.44
1.6	0.87	192.26		195.19	0	195.26	209.11
2.15	0.71	189.04	193.63	194.24	0	144.01	174.66
1.44	0.67	189.55		193.81	0	173.74	166.9
1.17	0.5	186.32		192.52	0	215.69	224.09
1.4	0.6	188.36		192.19	0	143.91	154.61
1.31	0.38	186.31		191.38	0	161.77	215.49
1.19	0.77	186.31		190.67	0	103.16	83.31
1.12	0.55	184.61	189.44	190.38	0	188.18	130.94
1.4	0.82	185.2		189.2	0	79.19	64.92
2.97	1.43	183.83	188.8	189.28	0	135.9	147.93
1.06	0.49	184.01		188.28	0	95.12	98.38
0.32	0.12	181.98	185.81	188	0	279.34	187.39
0.14	0.07	181.37		187.91	0	327.35	184.49
0.9	0.46	181.42	185.32	187.66	0	111.23	133.06
0.95	0.48	181.42	185.32	187.68	0	111.76	133.61
1.96	0.96	180.58		186.82	0	104.67	82.83
1.96	0.96	180.58		186.82	0	104.72	82.88
0.77	0.51	180.33		186.1	0	316.48	141.71
0.76	0.51	180.33		186.1	0	316.66	141.73
0.25	0.1	179.32		185.79	0	496.21	273.51

0.25	0.1	179.32		185.79	0	496.72	273.62
0.3	0.14	178		185.64	0	489.59	229.33
0.3	0.14	178		185.65	0	490.1	229.46
0.17	0.08	177.56		185.53	0	597.11	252.64
0.17	0.08	177.56		185.53	0	597.73	252.73
0.26	0.11	176.86		185.45	0	525.09	267.95
0.26	0.11	176.86		185.46	0	525.81	268.4
0.78	0.74	176.86	182.06	185.35	0	176.65	244.7
0.78	0.74	176.86	182.06	185.36	0	176.76	244.95
0.81	0.56	177.8	182.09	183.97	0	83.01	28.87
0.8	0.56	177.8	182.09	183.97	0	83.09	28.91
0.83	0.61	177.62	181.92	183.82	0	80.17	26.85
0.83	0.61	177.62	181.92	183.82	0	80.26	26.87
0.92	0.68	177.07	181.4	183.22	0	76.17	26.19
0.92	0.68	177.07	181.4	183.22	0	76.17	26.19

Froude # Chl

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Reach	River Sta	Profile	Plan	Q Total (cfs)	W.S. Elev (ft)	Vel Chnl (ft/s)	Shear Chan (lb/sq ft)	Shear Total (lb/sq ft)
1	2248	GSSHA 25	12Mile100	504	197.17	3.33	0.74	0.39
1	2248	GSSHA 25	Pr 60%	504	197.15	3.37	0.76	0.4
1	2172	GSSHA 25	12Mile100	504	196.91	3.33	0.81	0.41
1	2172	GSSHA 25	Pr 60%	504	196.87	3.41	0.85	0.43
1	2151	GSSHA 25	12Mile100	504	196.76	3.67	1	0.49
1	2151	GSSHA 25	Pr 60%	504	196.69	3.83	1.1	0.53
1	2100			Culvert				
1	2098	GSSHA 25	12Mile100	504	195.84	3.66	0.87	0.5
1	2098	GSSHA 25	Pr 60%	504	195.66	3.43	0.69	0.33
1	2063	GSSHA 25	12Mile100	504	195.55	4.14	1.06	0.53
1	2063	GSSHA 25	Pr 60%	504	195.39	4.68	1.47	0.85
1	1948	GSSHA 25	12Mile100	504	194.22	6.12	2.33	0.63
1	1948	GSSHA 25	Pr 60%	504	193.94	5.4	1.82	0.62
1	1789	GSSHA 25	12Mile100	504	192.64	4.5	1.3	0.65
1	1789	GSSHA 25	Pr 60%	504	192.25	5.03	1.6	0.72
1	1639	GSSHA 25	12Mile100	504	191.55	4.64	1.28	0.47
1	1639	GSSHA 25	Pr 60%	504	190.82	4.5	1.32	0.78
1	1500	GSSHA 25	12Mile100	504	190.5	5.41	1.41	0.71
1	1500	GSSHA 25	Pr 60%	504	189.2	5.67	1.69	0.81
1	1404	GSSHA 25	12Mile100	504	189.05	7.94	3.49	1.8
1	1404	GSSHA 25	Pr 60%	504	188.6	4.37	0.97	0.44

1	1231	GSSHA 25	12Mile100	504	188.55	2	0.25	0.1
1	1231	GSSHA 25	Pr 60%	504	188.57	1.38	0.12	0.06
1	1087	GSSHA 25	12Mile100	504	188.3	2.77	0.52	0.14
1	1087	GSSHA 25	Pr 60%	504	188.3	3.24	0.72	0.2
1	986	GSSHA 25	12Mile100	667	188.17	2.18	0.3	0.13
1	986	GSSHA 25	Pr 60%	667	188.17	2.18	0.3	0.13
1	885	GSSHA 25	12Mile100	667	188.12	1.74	0.18	0.09
1	885	GSSHA 25	Pr 60%	667	188.12	1.74	0.18	0.09
1	698	GSSHA 25	12Mile100	667	188.07	1.39	0.07	0.03
1	698	GSSHA 25	Pr 60%	667	188.08	1.39	0.07	0.03
1	548	GSSHA 25	12Mile100	667	188.05	1.23	0.08	0.04
1	548	GSSHA 25	Pr 60%	667	188.05	1.23	0.08	0.04
1	398	GSSHA 25	12Mile100	667	188.02	1.12	0.07	0.02
1	398	GSSHA 25	Pr 60%	667	188.02	1.12	0.07	0.02
1	295	GSSHA 25	12Mile100	823	188	1.14	0.07	0.03
1	295	GSSHA 25	Pr 60%	823	188.01	1.14	0.07	0.03
1	257	GSSHA 25	12Mile100	823	187.82	2.97	0.47	0.46
1	257	GSSHA 25	Pr 60%	823	187.83	2.97	0.47	0.46
1	200		Culvert					
1	187	GSSHA 25	12Mile100	823	183.68	9.21	0.91	0.57
1	187	GSSHA 25	Pr 60%	823	183.68	9.21	0.91	0.56
1	145	GSSHA 25	12Mile100	823	183.46	9.41	0.96	0.31
1	145	GSSHA 25	Pr 60%	823	183.47	9.4	0.96	0.31

1	0 GSSHA 25 12Mile100l	823	182.7	9.9	1.08	0.45
1	0 GSSHA 25 Pr 60%	823	182.7	9.9	1.08	0.45

Min Ch El (ft)	Crit \ (ft)	E.G. Elev (ft)	E.G. (ft/f	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl
193	196	197.26	0	367.54	196.93	0.31	
193	196	197.24	0	363.01	196	0.31	
192.82		197.02	0	320	232.27	0.35	
192.82		196.99	0	310.53	230.51	0.36	
192.82	196	196.9	0	285.31	225.76	0.4	
192.82	196	196.85	0	271	223.02	0.42	
192.19		195.94	0	342.89	255.83	0.41	
188.7		195.76	0	370.68	244.97	0.31	
190.27		195.71	0	289.16	215.52	0.43	
192.26		195.54	0	276.84	228.86	0.57	
189.04	194	194.61	0	248.42	350.41	0.6	
189.55		194.24	0	247.78	280.53	0.58	
186.32	192	192.81	0	284.92	235.83	0.45	
188.36		192.55	0	198.38	177.98	0.56	
186.31		191.77	0	256.74	236.79	0.45	
186.31	190	191.11	0	140.51	104.06	0.52	
184.61	190	190.78	0	237.65	144.81	0.49	
185.2	189	189.68	0	111.59	94.52	0.63	
183.83	189	189.58	0	174.84	160.02	0.87	
184.01		188.87	0	167.02	135.41	0.47	

181.98	187	188.6	0	401.53	223.45	0.15
181.37		188.59	0	464.65	224.12	0.12
181.42	186	188.4	0	235.45	317.56	0.26
181.42	186	188.44	0	235.39	317.5	0.3
180.58		188.23	0	401.75	228.65	0.18
180.58		188.24	0	402.26	228.77	0.18
180.33		188.14	0	917.89	363.22	0.13
180.33		188.14	0	918.76	363.31	0.13
179.32		188.08	0	1272.02	413.07	0.09
179.32		188.09	0	1273.04	413.39	0.09
178		188.06	0	1245.48	391.96	0.08
178		188.06	0	1246.47	392.14	0.08
177.56		188.03	0	1604.4	643.41	0.07
177.56		188.03	0	1606.05	643.61	0.07
176.86		188.01	0	1416.73	408.98	0.07
176.86		188.02	0	1417.79	409.12	0.07
176.86	183	187.96	0	275.3	398.96	0.19
176.86	183	187.97	0	275.4	399.11	0.19
177.8	183	184.97	0	109.78	96.3	0.72
177.8	183	184.97	0	109.88	96.38	0.72
177.62	183	184.81	0	110.43	76.3	0.74
177.62	183	184.81	0	110.78	76.96	0.74

177.07	182	184.2	0	98.89	53.93	0.8
177.07	182	184.2	0	98.89	53.94	0.8

Reach	River Sta	Profile	Plan	Q Total (cfs)	W.S. Elev (ft)
1	2248	GSSHA 100	12Mile100	643	197.38
1	2248	GSSHA 100	Pr 60%	643	197.4
1	2172	GSSHA 100	12Mile100	643	197.05
1	2172	GSSHA 100	Pr 60%	643	197.08
1	2151	GSSHA 100	12Mile100	643	196.82
1	2151	GSSHA 100	Pr 60%	643	196.88
1	2100			Culvert	
1	2098	GSSHA 100	12Mile100	643	196.11
1	2098	GSSHA 100	Pr 60%	643	195.93
1	2063	GSSHA 100	12Mile100	643	195.76
1	2063	GSSHA 100	Pr 60%	643	195.66
1	1948	GSSHA 100	12Mile100	643	194.45
1	1948	GSSHA 100	Pr 60%	643	194.17
1	1789	GSSHA 100	12Mile100	643	192.89
1	1789	GSSHA 100	Pr 60%	643	192.61
1	1639	GSSHA 100	12Mile100	643	191.9
1	1639	GSSHA 100	Pr 60%	643	191.08
1	1500	GSSHA 100	12Mile100	643	190.68
1	1500	GSSHA 100	Pr 60%	643	190.05
1	1404	GSSHA 100	12Mile100	643	189.91
1	1404	GSSHA 100	Pr 60%	643	189.92
1	1231	GSSHA 100	12Mile100	643	189.92
1	1231	GSSHA 100	Pr 60%	643	189.93
1	1087	GSSHA 100	12Mile100	643	189.92
1	1087	GSSHA 100	Pr 60%	643	189.91
1	986	GSSHA 100	12Mile100	826	189.89
1	986	GSSHA 100	Pr 60%	826	189.88
1	885	GSSHA 100	12Mile100	826	189.87
1	885	GSSHA 100	Pr 60%	826	189.87
1	698	GSSHA 100	12Mile100	826	189.85

1	698 GSSHA 100	Pr 60%	826	189.85
1	548 GSSHA 100	12Mile100	826	189.84
1	548 GSSHA 100	Pr 60%	826	189.84
1	398 GSSHA 100	12Mile100	826	189.83
1	398 GSSHA 100	Pr 60%	826	189.83
1	295 GSSHA 100	12Mile100	990	189.82
1	295 GSSHA 100	Pr 60%	990	189.82
1	257 GSSHA 100	12Mile100	990	189.82
1	257 GSSHA 100	Pr 60%	990	189.81
1	200	Culvert		
1	187 GSSHA 100	12Mile100	990	184.33
1	187 GSSHA 100	Pr 60%	990	184.29
1	145 GSSHA 100	12Mile100	990	184.29
1	145 GSSHA 100	Pr 60%	990	184.24
1	0 GSSHA 100	12Mile100	990	183.2
1	0 GSSHA 100	Pr 60%	990	183.2

Vel Chnl (ft/s)	Shear Chan (lb/sq ft)	Shear Total (lb/sq ft)	Min Ch El (ft)	Crit W.S. (ft)	E.G. Elev (ft)
3.84	0.97	0.51		193	197.5
3.81	0.95	0.51		193	197.51
3.89	1.08	0.56	192.82		197.2
3.82	1.04	0.53	192.82		197.23
4.49	1.49	0.74	192.82	196.32	197.03
4.33	1.37	0.69	192.82	196.32	197.07
3.94	0.98	0.57	192.19		196.22
3.82	0.84	0.41	188.7		196.05
4.67	1.34	0.68	190.27		195.95
4.9	1.55	0.92	192.26		195.82
6.14	2.32	0.74	189.04	194.37	194.78
5.91	2.12	0.65	189.55	193.65	194.52
4.76	1.42	0.73	186.32		193.08
5.11	1.58	0.66	188.36		192.9
4.65	1.25	0.51	186.31		192.1
5.21	1.71	0.59	186.31	190.41	191.47
6.36	1.91	0.93	184.61		191.05
4.95	1.16	0.57	185.2		190.39
5.66	1.61	0.99	183.83		190.12
3.2	0.46	0.23	184.01		190.04
1.18	0.08	0.04	181.98		189.95
0.95	0.05	0.03	181.37		189.94
0.62	0.02	0.01	181.42	186.6	189.92
0.79	0.04	0.02	181.42	186.6	189.92
1.22	0.09	0.04	180.58		189.91
1.23	0.09	0.04	180.58		189.9
1.21	0.08	0.04	180.33		189.88
1.21	0.08	0.04	180.33		189.87
1.06	0.04	0.02	179.32		189.86

1.06	0.04	0.02	179.32		189.85
0.96	0.05	0.02	178		189.85
0.96	0.05	0.02	178		189.84
0.78	0.03	0.01	177.56		189.84
0.79	0.03	0.01	177.56		189.83
0.89	0.04	0.02	176.86		189.83
0.89	0.04	0.02	176.86		189.82
0.89	0.04	0.02	176.86	183	189.83
0.9	0.04	0.02	176.86	183	189.82
9.65	0.96	0.64	177.8	183.43	185.71
9.72	0.98	0.65	177.8	183.43	185.7
9.2	0.87	0.28	177.62	183.23	185.51
9.31	0.9	0.29	177.62	183.23	185.49
10.57	1.19	0.36	177.07	183.03	184.87
10.57	1.19	0.36	177.07	183.03	184.87

E.G. S	Flow Area (ft/ft) (sq ft)	Top Width (ft)	Froude #	Chl
	0	410.48	205.55	0.34
	0	413.8	206.2	0.34
	0.01	354.12	240.08	0.4
	0.01	361.65	242.35	0.39
	0.01	299.45	228.44	0.48
	0.01	312.43	230.87	0.46
	0.01	416.48	287.83	0.43
	0	440.44	268.96	0.33
	0.01	337	241.85	0.48
	0.01	341.98	245.19	0.56
	0.01	330.32	376.53	0.59
	0.01	325.49	378.02	0.6
	0.01	349.15	258.55	0.46
	0.01	276.37	233.45	0.53
	0.01	344.18	254.83	0.43
	0.01	174.12	200.58	0.57
	0.01	264.28	158.54	0.57
	0.01	207.11	127.78	0.48
	0.01	323.54	186.97	0.54
	0	384.52	187.17	0.28
	0	744.55	270.17	0.08
	0	806.18	270.26	0.07
	0	1026.12	405.11	0.05
	0	1024.5	405.07	0.06
	0	884.83	339.15	0.09
	0	882.49	338.79	0.09
	0	1635.72	459.96	0.08
	0	1632.48	459.79	0.08
	0	2162.17	550.88	0.06

0	2158.23	550.84	0.06
0	2113.29	549.57	0.05
0	2109.32	549.49	0.06
0	2955.33	807.2	0.04
0	2949.47	807.2	0.04
0	2251	501.39	0.05
0	2247.35	501.31	0.05
0	2249.56	501.36	0.05
0	2245.89	501.28	0.05
0	133.74	117.85	0.71
0	132.4	116.76	0.72
0	194.42	116.62	0.67
0	189.07	115.02	0.68
0	140.23	99.86	0.81
0	140.23	99.86	0.81