PALO VERDE WATERSHED DETAILED FLOODPLAIN DELINEATION STUDY

HYDRAULICS TECHNICAL DATA NOTEBOOK
VOLUME 3 OF 3

CONTRACT FCD 2008C046

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E.6 HEC-RAS Output

Delaney Wash

HEC-RAS Plan: Current mode

River	Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Delaney Split1	SouthSplit	0.065	1900.00	1106.58	1112.72		1112.97	0.007770	3.83	477.78	298.52	0.42
Delaney Split1	SouthSplit	0.065	1900.00	1106.58	1112.72		1112.97	0.007770	3.83	477.78	298.52	0.42
Delaney Split1	SouthSplit	0.157	1900.00	1111.80	1115.41		1115.61	0.004298	4.26	605.30	450.52	0.47
Delaney Split1	SouthSplit	0.157	1900.00	1111.80	1115.41		1115.61	0.004298	4.26	605.30	450.52	0.47
Delaney Split1	SouthSplit	0.221	1900.00	1113.85	1116.92		1117.07	0.004196	3.53	673.71	564.28	0.45
Delaney Split1	SouthSplit	0.221	1900.00	1113.85	1116.92		1117.07	0.004196	3.53	673.71	564.28	0.45
Delaney Split1	SouthSplit	0.309	1900.00	1117.61	1119.50	1119.10	1119.67	0.007718	3.61	581.91	548.10	0.57
Delaney Split1	SouthSplit	0.309	1900.00	1117.61	1119.50	1119.10	1119.67	0.007718	3.61	581.91	548.10	0.57
Delaney Split1	SouthSplit	0.403	1900.00	1119.66	1121.82		1121.90	0.003009	2.55	868.44	822.96	0.37
Delaney Split1	SouthSplit	0.403	1900.00	1119.66	1121.82		1121.90	0.003009	2.55	868.44	822.96	0.37
Delaney Split1	SouthSplit	0.491	1900.00	1122.02	1123.62		1123.73	0.005334	3.13	751.21	873.63	0.48
Delaney Split1	SouthSplit	0.491	1900.00	1122.02	1123.62		1123.73	0.005334	3.13	751.21	873.63	0.48
Delaney Split1	SouthSplit	0.579	1900.00	1123.99	1125.89		1125.98	0.004720	2.81	814.96	952.08	0.44
Delaney Split1	SouthSplit	0.579	1900.00	1123.99	1125.89		1125.98	0.004720	2.81	814.96	952.08	0.44
Delaney Split1	SouthSplit	0.663	1900.00	1126.46	1127.81		1127.89	0.004339	2.35	808.73	822.04	0.41
Delaney Split1	SouthSplit	0.663	1900.00	1126.46	1127.81		1127.89	0.004339	2.35	808.73	822.04	0.41
Delaney Wash	DelaneyDownstm	0.011	3920.00	1013.21	1018.59	1016.59	1019.00	0.003555	5.15	761.35	171.71	0.43
Delaney Wash	DelaneyDownstm	0.011	3920.00	1013.21	1018.59	1016.59	1019.00	0.003553	5.15	761.47	171.71	0.43
Delaney Wash	DelaneyDownstm	0.086	3920.00	1014.14	1020.26	1018.98	1020.88	0.006110	6.30	630.74	270.76	0.56
Delaney Wash	DelaneyDownstm	0.086	3920.00	1014.14	1020.27	1018.98	1020.89	0.006228	6.33	619.51	155.73	0.56
Delaney Wash	DelaneyDownstm	0.158	3920.00	1013.27	1022.16		1022.97	0.004699	7.30	553.52	100.62	0.52
Delaney Wash	DelaneyDownstm	0.158	3920.00	1013.27	1022.22		1023.08	0.004973	7.42	528.22	83.99	0.52
Delaney Wash	DelaneyDownstm	0.228	3920.00	1015.09	1024.26	1024.26	1026.47	0.016554	12.00	337.13	84.44	0.93
Delaney Wash	DelaneyDownstm	0.228	3920.00	1015.09	1024.30	1024.00	1026.55	0.016858	12.04	325.64	62.02	0.93
Delaney Wash	DelaneyDownstm	0.291	3920.00	1017.04	1027.76		1028.41	0.002587	6.47	605.53	69.97	0.39
Delaney Wash	DelaneyDownstm	0.291	3920.00	1017.04	1027.83		1028.47	0.002527	6.42	610.43	70.11	0.38
Delaney Wash	DelaneyDownstm	0.345	3920.00	1018.29	1028.48		1029.39	0.003918	7.64	513.28	60.89	0.46
Delaney Wash	DelaneyDownstm	0.345	3920.00	1018.29	1028.53		1029.43	0.003849	7.59	516.45	60.99	0.46
Delaney Wash	DelaneyDownstm	0.437	3920.00	1020.57	1030.67		1031.70	0.005713	8.13	482.37	74.08	0.56
Delaney Wash	DelaneyDownstm	0.437	3920.00	1020.57	1030.69		1031.71	0.005676	8.10	483.84	74.28	0.56
Delaney Wash	DelaneyDownstm	0.480	3920.00	1024.99	1031.91		1032.35	0.001496	5.35	738.12	237.85	0.51
Delaney Wash	DelaneyDownstm	0.480	3920.00	1024.99	1031.94		1032.42	0.001727	5.59	701.47	205.09	0.53
Delaney Wash	DelaneyDownstm	0.539	3920.00	1026.81	1032.64		1033.31	0.007522	6.74	629.71	165.08	0.55
Delaney Wash	DelaneyDownstm	0.539	3920.00	1026.81	1032.74		1033.51	0.008128	7.03	557.43	117.93	0.57
Delaney Wash	DelaneyDownstm	0.606	3920.00	1026.99	1035.11		1035.47	0.004885	5.28	974.97	677.52	0.41
Delaney Wash	DelaneyDownstm	0.606	3920.00	1026.99	1035.39		1035.88	0.005466	5.77	751.43	249.57	0.44
Delaney Wash	DelaneyDownstm	0.690	3920.00	1030.02	1037.36	1036.70	1037.73	0.005020	5.44	1031.75	1095.17	0.49
Delaney Wash	DelaneyDownstm	0.690	3920.00	1030.02	1037.73	1036.51	1038.10	0.004300	5.23	922.50	404.79	0.45
Delaney Wash	DelaneyDownstm	0.772	3920.00	1031.65	1038.93		1039.09	0.002876	4.06	1413.97	881.55	0.32
Delaney Wash	DelaneyDownstm	0.772	3920.00	1031.65	1039.39		1039.71	0.004188	5.14	961.16	408.15	0.39
Delaney Wash	DelaneyDownstm	0.864	3920.00	1033.81	1040.24		1040.38	0.002815	3.69	1416.08	809.92	0.32
Delaney Wash	DelaneyDownstm	0.864	3920.00	1033.81	1041.24		1041.42	0.003261	4.00	1194.92	545.28	0.33
Delaney Wash	DelaneyDownstm	0.935	3920.00	1034.95	1041.56		1041.93	0.006320	5.55	962.79	943.21	0.48
Delaney Wash	DelaneyDownstm	0.935	3920.00	1034.95	1042.50		1042.86	0.004352	5.20	919.85	403.16	0.41
Delaney Wash	DelaneyDownstm	1.053	3920.00	1036.78	1044.53		1044.82	0.003422	5.01	1137.04	726.72	0.38
Delaney Wash	DelaneyDownstm	1.053	3920.00	1036.78	1045.11		1045.63	0.004319	5.96	747.63	233.88	0.44
Delaney Wash	DelaneyDownstm	1.151	3920.00	1039.95	1046.43	1044.97	1046.76	0.004388	5.64	1068.37	960.61	0.44
Delaney Wash	DelaneyDownstm	1.151	3920.00	1039.95	1047.32	1046.02	1047.75	0.003964	5.88	856.27	320.43	0.42
Delaney Wash	DelaneyDownstm	1.255	3920.00	1042.18	1048.59		1048.82	0.003311	4.98	1225.23	737.20	0.38
Delaney Wash	DelaneyDownstm	1.255	3920.00	1042.18	1049.43		1049.80	0.003583	5.62	894.04	316.50	0.40
Delaney Wash	DelaneyDownstm	1.339	3920.00	1043.88	1050.28		1050.66	0.005419	5.45	1005.12	901.01	0.45
Delaney Wash	DelaneyDownstm	1.339	3920.00	1043.88	1051.04		1051.36	0.003612	4.81	918.79	285.23	0.37
Delaney Wash	DelaneyDownstm	1.438	3920.00	1044.99	1052.75		1053.02	0.003963	4.78	1161.45	912.18	0.37
Delaney Wash	DelaneyDownstm	1.438	3920.00	1044.99	1053.12		1053.56	0.004911	5.48	766.15	202.45	0.41

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Delaney Wash	DelaneyDownstm	1.515	3920.00	1047.89	1054.13		1054.38	0.003090	4.42	1224.93	845.03	0.35
Delaney Wash	DelaneyDownstm	1.515	3920.00	1047.89	1054.83		1055.21	0.003437	5.03	791.83	147.19	0.37
Delaney Wash	DelaneyDownstm	1.592	3920.00	1049.91	1055.84		1056.42	0.008525	6.50	774.65	659.49	0.55
Delaney Wash	DelaneyDownstm	1.592	3920.00	1049.91	1056.58		1057.22	0.007017	6.40	612.23	121.41	0.50
Delaney Wash	DelaneyDownstm	1.666	3920.00	1051.27	1057.77	1056.69	1057.95	0.002102	3.92	1354.94	1677.62	0.31
Delaney Wash	DelaneyDownstm	1.666	3920.00	1051.27	1058.52	1055.89	1058.81	0.002557	4.67	955.53	261.62	0.35
Delaney Wash	DelaneyDownstm	1.739	3920.00	1052.67	1058.72	1058.38	1058.95	0.003652	4.73	1273.04	1240.39	0.39
Delaney Wash	DelaneyDownstm	1.739	3920.00	1052.67	1059.58	1058.57	1059.85	0.003053	4.74	1039.96	409.80	0.36
Delaney Wash	DelaneyDownstm	1.797	3920.00	1054.32	1059.92		1060.14	0.004807	4.78	1272.03	1099.41	0.44
Delaney Wash	DelaneyDownstm	1.797	3920.00	1054.32	1060.66		1061.10	0.005721	5.75	798.75	320.20	0.49
Delaney Wash	DelaneyDownstm	1.848	3920.00	1054.21	1060.71		1060.90	0.002076	3.86	1423.76	1148.18	0.32
Delaney Wash	DelaneyDownstm	1.848	3920.00	1054.21	1061.59		1061.75	0.001333	3.38	1359.28	462.61	0.27
Delaney Wash	DelaneyDownstm	1.900	3920.00	1055.59	1061.48	1061.28	1062.02	0.008650	6.22	807.79	849.24	0.65
Delaney Wash	DelaneyDownstm	1.900	3920.00	1055.59	1062.02		1062.53	0.006178	5.78	704.24	276.66	0.56
Delaney Wash	DelaneyDownstm	1.947	3920.00	1057.55	1063.31		1063.63	0.004920	5.28	1124.64	908.24	0.45
Delaney Wash	DelaneyDownstm	1.947	3920.00	1057.55	1063.59		1064.34	0.007881	6.93	566.92	124.94	0.57
Delaney Wash	DelaneyDownstm	2.007	3920.00	1059.30	1064.82		1065.26	0.005117	5.89	943.82	730.63	0.50
Delaney Wash	DelaneyDownstm	2.007	3920.00	1059.30	1065.68		1066.26	0.004816	6.12	640.72	137.01	0.50
Delaney Wash	DelaneyDownstm	2.055	3920.00	1059.66	1066.00		1066.58	0.004892	6.57	797.67	558.59	0.54
Delaney Wash	DelaneyDownstm	2.055	3920.00	1059.66	1066.78		1067.42	0.004158	6.40	612.73	127.34	0.51
Delaney Wash	DelaneyDownstm	2.128	3920.00	1062.14	1067.72	1065.36	1067.95	0.002538	3.91	1065.64	567.14	0.34
Delaney Wash	DelaneyDownstm	2.128	3920.00	1062.14	1068.27	1065.36	1068.47	0.001783	3.54	1108.00	232.08	0.29
Delaney Wash	DelaneyDownstm	2.142	3920.00	1064.66	1067.79		1068.10	0.001255	5.30	996.66	645.01	0.55
Delaney Wash	DelaneyDownstm	2.142	3920.00	1064.66	1068.38		1068.54	0.000539	3.94	1442.71	901.02	0.37
Delaney Wash	DelaneyDownstm	2.154	3920.00	1064.24	1068.97	1068.97	1069.42	0.011317	6.81	956.99	1224.31	0.75
Delaney Wash	DelaneyDownstm	2.154	3920.00	1064.24	1068.97	1068.97	1069.42	0.011317	6.81	956.99	1224.31	0.75
Delaney Wash	DelaneyDownstm	2.236	3920.00	1066.52	1071.59	1071.03	1071.72	0.003125	3.89	1520.20	1301.68	0.43
Delaney Wash	DelaneyDownstm	2.236	3920.00	1066.52	1071.59	1071.03	1071.72	0.003125	3.89	1520.20	1301.68	0.43
Delaney Wash	DelaneyDownstm	2.305	3920.00	1067.74	1072.89	1071.77	1073.21	0.005395	4.81	1012.71	891.66	0.49
Delaney Wash	DelaneyDownstm	2.305	3920.00	1067.74	1072.89	1071.77	1073.21	0.005395	4.81	1012.71	891.66	0.49
Delaney Wash	DelaneyDownstm	2.387	3920.00	1070.53	1074.80	1073.66	1074.98	0.003855	4.20	1263.37	1333.94	0.46
Delaney Wash	DelaneyDownstm	2.387	3920.00	1070.53	1074.80	1073.66	1074.98	0.003855	4.20	1263.37	1333.94	0.46
Delaney Wash	DelaneyDownstm	2.458	3920.00	1071.40	1076.73	1076.73	1077.23	0.009698	6.63	799.41	1570.15	0.82
Delaney Wash	DelaneyDownstm	2.458	3920.00	1071.40	1076.73	1076.73	1077.23	0.009698	6.63	799.41	1570.15	0.82
Delaney Wash	DelaneyDownstm	2.519	1540.00	1072.43	1078.61		1078.68	0.001327	2.48	743.62	370.55	0.25
Delaney Wash	DelaneyDownstm	2.519	1540.00	1072.43	1078.61		1078.68	0.001327	2.48	743.62	370.55	0.25
Delaney Wash	DelaneyDownstm	2.584	1540.00	1074.34	1079.26		1079.50	0.004987	4.42	440.30	349.02	0.52
Delaney Wash	DelaneyDownstm	2.584	1540.00	1074.34	1079.26		1079.50	0.004987	4.42	440.30	349.02	0.52
Delaney Wash	DelaneyDownstm	2.676	1540.00	1076.57	1081.51		1081.96	0.005019	5.41	284.67	97.10	0.56
Delaney Wash	DelaneyDownstm	2.676	1540.00	1076.57	1081.51		1081.96	0.005019	5.41	284.67	97.10	0.56
Delaney Wash	DelaneyDownstm	2.727	1540.00	1077.89	1082.91		1083.47	0.006121	6.03	261.51	117.56	0.60
Delaney Wash	DelaneyDownstm	2.727	1540.00	1077.89	1082.91		1083.47	0.006121	6.03	261.51	117.56	0.60
Delaney Wash	DelaneyDownstm	2.792	1540.00	1079.50	1084.70		1084.84	0.002655	3.01	519.46	178.39	0.29
Delaney Wash	DelaneyDownstm	2.792	1540.00	1079.50	1084.70		1084.84	0.002655	3.01	519.46	178.39	0.29
Delaney Wash	DelaneyDownstm	2.858	1540.00	1080.21	1085.69		1086.00	0.003814	4.46	345.28	105.72	0.43
Delaney Wash	DelaneyDownstm	2.858	1540.00	1080.21	1085.69		1086.00	0.003814	4.46	345.28	105.72	0.43
Delaney Wash	DelaneyDownstm	2.951	1540.00	1082.45	1088.44		1089.00	0.010718	6.01	265.12	98.33	0.56
Delaney Wash	DelaneyDownstm	2.951	1540.00	1082.45	1088.44		1089.00	0.010718	6.01	265.12	98.33	0.56
Delaney Wash	DelaneyDownstm	3.033	3920.00	1085.02	1091.86	1091.65	1092.19	0.006450	5.61	1109.14	968.68	0.46
Delaney Wash	DelaneyDownstm	3.033	3920.00	1085.02	1091.86	1091.65	1092.19	0.006450	5.61	1109.14	968.68	0.46
Delaney Wash	DelaneyDownstm	3.073	3920.00	1085.05	1092.81	1091.99	1093.00	0.002894	4.47	1476.91	1198.99	0.33
Delaney Wash	DelaneyDownstm	3.073	3920.00	1085.05	1092.81	1091.99	1093.00	0.002894	4.47	1476.91	1198.99	0.33
Delaney Wash	DelaneyDownstm	3.111	3920.00	1086.08	1093.19	1088.48	1093.27	0.000777	2.51	1737.19	357.19	0.22
Delaney Wash	DelaneyDownstm	3.111	3920.00	1086.08	1093.19	1088.48	1093.27	0.000777	2.51	1737.19	357.19	0.22

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Delaney Wash	DelaneyDownstm	3.139	3920.00	1085.52	1093.11	1091.92	1093.69	0.009004	6.61	702.12	412.82	0.57
Delaney Wash	DelaneyDownstm	3.139	3920.00	1085.52	1093.11	1091.92	1093.69	0.009004	6.61	702.12	412.82	0.57
Delaney Wash	DelaneyDownstm	3.210	3920.00	1086.81	1095.68	1093.95	1095.93	0.004092	4.85	1158.61	981.05	0.36
Delaney Wash	DelaneyDownstm	3.210	3920.00	1086.81	1095.68	1093.95	1095.93	0.004092	4.85	1158.61	981.05	0.36
Delaney Wash	DelaneyDownstm	3.289	3920.00	1088.52	1097.45		1097.79	0.004736	5.59	1040.90	685.42	0.41
Delaney Wash	DelaneyDownstm	3.289	3920.00	1088.52	1097.45		1097.79	0.004736	5.59	1040.90	685.42	0.41
Delaney Wash	DelaneyDownstm	3.371	3920.00	1091.79	1099.56		1099.91	0.005051	5.81	1053.52	779.31	0.45
Delaney Wash	DelaneyDownstm	3.371	3920.00	1091.79	1099.56		1099.91	0.005051	5.81	1053.52	779.31	0.45
Delaney Wash	DelaneyDownstm	3.446	3920.00	1092.58	1101.29		1101.43	0.003080	3.92	1465.04	996.70	0.31
Delaney Wash	DelaneyDownstm	3.446	3920.00	1092.58	1101.29		1101.43	0.003080	3.92	1465.04	996.70	0.31
Delaney Wash	DelaneyDownstm	3.499	3920.00	1093.82	1102.04		1102.39	0.003578	5.49	1097.98	888.90	0.48
Delaney Wash	DelaneyDownstm	3.499	3920.00	1093.82	1102.04		1102.39	0.003578	5.49	1097.98	888.90	0.48
Delaney Wash	DelaneyDownstm	3.560	3920.00	1095.75	1103.46		1103.71	0.004756	4.99	1161.31	915.56	0.40
Delaney Wash	DelaneyDownstm	3.560	3920.00	1095.75	1103.46		1103.71	0.004756	4.99	1161.31	915.56	0.40
Delaney Wash	DelaneyDownstm	3.640	3920.00	1097.74	1105.32		1105.60	0.004286	5.31	1143.34	795.59	0.40
Delaney Wash	DelaneyDownstm	3.640	3920.00	1097.74	1105.32		1105.60	0.004286	5.31	1143.34	795.59	0.40
Delaney Wash	DelaneyDownstm	3.709	3920.00	1098.94	1106.83		1107.05	0.003908	4.78	1310.06	1003.91	0.38
Delaney Wash	DelaneyDownstm	3.709	3920.00	1098.94	1106.83		1107.05	0.003908	4.78	1310.06	1003.91	0.38
Delaney Wash	DelaneyDownstm	3.757	3920.00	1099.79	1107.82		1108.09	0.003967	4.78	1125.06	690.02	0.37
Delaney Wash	DelaneyDownstm	3.757	3920.00	1099.79	1107.82		1108.09	0.003967	4.78	1125.06	690.02	0.37
Delaney Wash	DelaneyDownstm	3.815	3920.00	1102.24	1108.96		1109.29	0.003970	5.15	1011.98	625.54	0.44
Delaney Wash	DelaneyDownstm	3.815	3920.00	1102.24	1108.96		1109.29	0.003970	5.15	1011.98	625.54	0.44
Delaney Wash	DelaneyDownstm	3.871	3920.00	1101.97	1110.20		1110.71	0.005662	6.48	876.33	637.49	0.53
Delaney Wash	DelaneyDownstm	3.871	3920.00	1101.97	1110.20		1110.71	0.005662	6.48	876.33	637.49	0.53
Delaney Wash	DelaneyDownstm	3.946	3920.00	1104.58	1111.99		1112.21	0.002628	4.54	1220.34	674.12	0.39
Delaney Wash	DelaneyDownstm	3.946	3920.00	1104.58	1111.99		1112.21	0.002628	4.54	1220.34	674.12	0.39
Delaney Wash	NorthSplit	4.047	2020.00	1106.95	1112.90		1113.52	0.007964	6.32	323.79	88.19	0.54
Delaney Wash	NorthSplit	4.047	2020.00	1106.95	1112.90		1113.52	0.007964	6.32	323.79	88.19	0.54
Delaney Wash	NorthSplit	4.167	2020.00	1109.85	1116.91		1117.19	0.004342	4.45	509.63	201.34	0.37
Delaney Wash	NorthSplit	4.167	2020.00	1109.85	1116.91		1117.19	0.004342	4.45	509.63	201.34	0.37
Delaney Wash	NorthSplit	4.237	2020.00	1110.69	1118.11		1118.25	0.001952	3.40	712.30	306.57	0.27
Delaney Wash	NorthSplit	4.237	2020.00	1110.69	1118.11		1118.25	0.001952	3.40	712.30	306.57	0.27
Delaney Wash	NorthSplit	4.327	2020.00	1113.22	1119.25		1119.60	0.004013	5.19	507.76	306.20	0.45
Delaney Wash	NorthSplit	4.327	2020.00	1113.22	1119.25		1119.60	0.004013	5.19	507.76	306.20	0.45
Delaney Wash	NorthSplit	4.430	2020.00	1114.03	1121.76	1121.14	1121.94	0.004570	4.17	662.60	491.30	0.37
Delaney Wash	NorthSplit	4.430	2020.00	1114.03	1121.76	1121.14	1121.94	0.004570	4.17	662.60	491.30	0.37
Delaney Wash	NorthSplit	4.519	2020.00	1117.66	1123.58		1123.72	0.003067	3.65	816.04	670.12	0.32
Delaney Wash	NorthSplit	4.519	2020.00	1117.66	1123.58		1123.72	0.003067	3.65	816.04	670.12	0.32
Delaney Wash	NorthSplit	4.605	2020.00	1119.52	1125.52		1125.72	0.006347	4.06	590.54	410.00	0.41
Delaney Wash	NorthSplit	4.605	2020.00	1119.52	1125.52		1125.72	0.006347	4.06	590.54	410.00	0.41
Delaney Wash	NorthSplit	4.693	2020.00	1121.97	1127.78		1127.90	0.003819	3.41	793.00	660.54	0.36
Delaney Wash	NorthSplit	4.693	2020.00	1121.97	1127.78		1127.90	0.003819	3.41	793.00	660.54	0.36
Delaney Wash	DelaneyUpstream	4.777	3920.00	1123.12	1129.12		1129.25	0.004229	4.43	1658.62	1840.53	0.39
Delaney Wash	DelaneyUpstream	4.777	3920.00	1123.12	1129.12		1129.25	0.004229	4.43	1658.62	1840.53	0.39
Delaney Wash	DelaneyUpstream	4.827	3920.00	1123.82	1130.41		1130.56	0.005637	4.32	1494.86	1786.94	0.41
Delaney Wash	DelaneyUpstream	4.827	3920.00	1123.82	1130.41		1130.56	0.005637	4.32	1494.86	1786.94	0.41
Delaney Wash	DelaneyUpstream	4.893	3920.00	1124.24	1132.06		1132.21	0.004133	4.34	1655.44	1999.59	0.37
Delaney Wash	DelaneyUpstream	4.893	3920.00	1124.24	1132.06		1132.21	0.004133	4.34	1655.44	1999.59	0.37
Delaney Wash	DelaneyUpstream	4.957	3920.00	1126.34	1133.48		1133.64	0.004604	4.13	1521.72	1859.97	0.38
Delaney Wash	DelaneyUpstream	4.957	3920.00	1126.34	1133.48		1133.64	0.004604	4.13	1521.72	1859.97	0.38
Delaney Wash	DelaneyUpstream	5.021	3920.00	1128.85	1135.08		1135.28	0.005560	4.96	1495.13	1893.43	0.42
Delaney Wash	DelaneyUpstream	5.021	3920.00	1128.85	1135.08		1135.28	0.005560	4.96	1495.13	1893.43	0.42
Delaney Wash	DelaneyUpstream	5.097	3920.00	1129.64	1137.01		1137.22	0.004219	5.15	1287.52	987.96	0.39
Delaney Wash	DelaneyUpstream	5.097	3920.00	1129.64	1137.01		1137.22	0.004219	5.15	1287.52	987.96	0.39

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Delaney Wash	DelaneyUpstream	5.179	3920.00	1131.48	1138.58		1138.75	0.002963	4.38	1398.32	950.53	0.33
Delaney Wash	DelaneyUpstream	5.179	3920.00	1131.48	1138.58		1138.75	0.002963	4.38	1398.32	950.53	0.33
Delaney Wash	DelaneyUpstream	5.273	3920.00	1133.27	1140.39		1140.71	0.005404	5.78	1016.95	636.61	0.44
Delaney Wash	DelaneyUpstream	5.273	3920.00	1133.27	1140.39		1140.71	0.005404	5.78	1016.95	636.61	0.44
Delaney Wash	DelaneyUpstream	5.316	3920.00	1133.65	1141.67		1142.07	0.006490	6.27	925.64	699.91	0.47
Delaney Wash	DelaneyUpstream	5.316	3920.00	1133.65	1141.67		1142.07	0.006490	6.27	925.64	699.91	0.47
Delaney Wash	DelaneyUpstream	5.357	3920.00	1134.82	1142.88	1142.29	1143.09	0.003423	4.89	1340.73	941.84	0.35
Delaney Wash	DelaneyUpstream	5.357	3920.00	1134.82	1142.88	1142.29	1143.09	0.003423	4.89	1340.73	941.84	0.35
Delaney Wash	DelaneyUpstream	5.440	3920.00	1136.61	1144.70	1144.48	1144.99	0.005501	5.64	1113.75	921.96	0.44
Delaney Wash	DelaneyUpstream	5.440	3920.00	1136.61	1144.70	1144.48	1144.99	0.005501	5.64	1113.75	921.96	0.44
Delaney Wash	DelaneyUpstream	5.510	3920.00	1138.03	1146.12	1143.86	1146.68	0.003558	6.53	855.67	590.15	0.45
Delaney Wash	DelaneyUpstream	5.510	3920.00	1138.03	1146.12	1143.86	1146.68	0.003558	6.53	855.67	590.15	0.45
Delaney Wash	DelaneyUpstream	5.579	3920.00	1139.51	1147.62		1147.91	0.003052	4.99	1080.31	670.60	0.39
Delaney Wash	DelaneyUpstream	5.579	3920.00	1139.51	1147.62		1147.91	0.003052	4.99	1080.31	670.60	0.39

Four Mile Wash

HEC-RAS Plan: Current mode

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 1	13.960	Floodplain	3420.00	1364.67	1375.04		1375.32	0.000909	4.52	867.28	161.79	0.28
Four Mile Wash	Four Mile Wash 1	13.960	Floodway	3420.00	1364.67	1375.04		1375.32	0.000909	4.52	867.28	161.79	0.28
Four Mile Wash	Four Mile Wash 1	13.869	Floodplain	3420.00	1368.17	1374.31		1374.46	0.003756	3.08	1074.59	573.80	0.26
Four Mile Wash	Four Mile Wash 1	13.869	Floodway	3420.00	1368.17	1374.31		1374.46	0.003756	3.08	1074.59	573.80	0.26
Four Mile Wash	Four Mile Wash 1	13.800	Floodplain	3420.00	1366.53	1371.51	1371.29	1371.86	0.014424	4.98	731.37	631.82	0.47
Four Mile Wash	Four Mile Wash 1	13.800	Floodway	3420.00	1366.53	1371.51	1371.29	1371.86	0.014424	4.98	731.37	631.82	0.47
Four Mile Wash	Four Mile Wash 1	13.735	Floodplain	3420.00	1365.31	1368.73		1368.87	0.004561	2.13	1138.17	853.46	0.26
Four Mile Wash	Four Mile Wash 1	13.735	Floodway	3420.00	1365.31	1368.73		1368.87	0.004561	2.13	1138.17	853.46	0.26
Four Mile Wash	Four Mile Wash 1	13.649	Floodplain	3420.00	1363.60	1364.58	1364.58	1364.97	0.022495	1.17	706.86	1037.37	0.41
Four Mile Wash	Four Mile Wash 1	13.649	Floodway	3420.00	1363.60	1364.58	1364.58	1364.97	0.022495	1.17	706.86	1037.37	0.41
Four Mile Wash	Four Mile Wash 1	13.567	Floodplain	3420.00	1359.29	1360.97	1360.46	1361.07	0.004407	0.99	1381.93	1350.48	0.22
Four Mile Wash	Four Mile Wash 1	13.567	Floodway	3420.00	1359.29	1360.97	1360.46	1361.07	0.004407	0.99	1381.93	1350.48	0.22
Four Mile Wash	Four Mile Wash 1	13.497	Floodplain	3420.00	1356.89	1357.43	1357.43	1357.75	0.022481	2.28	772.82	1250.90	0.62
Four Mile Wash	Four Mile Wash 1	13.497	Floodway	3420.00	1356.89	1357.43	1357.43	1357.75	0.022481	2.28	772.82	1250.90	0.62
Four Mile Wash	Four Mile Wash 1	13.408	Floodplain	3420.00	1354.16	1356.06		1356.08	0.000323	0.95	3382.37	1735.29	0.13
Four Mile Wash	Four Mile Wash 1	13.408	Floodway	3420.00	1354.16	1356.06		1356.08	0.000323	0.95	3382.37	1735.29	0.13
Four Mile Wash	Four Mile Wash 1	13.318	Floodplain	3420.00	1354.98	1356.00	1356.00	1356.01	0.000099	0.22	4317.96	1654.73	0.06
Four Mile Wash	Four Mile Wash 1	13.318	Floodway	3420.00	1354.98	1356.00	1356.00	1356.01	0.000099	0.22	4317.96	1654.73	0.06
Four Mile Wash	Four Mile Wash 1	13.305	Floodplain	3420.00	1350.21	1352.07	1352.03	1352.67	0.014443	6.65	559.25	427.28	0.96
Four Mile Wash	Four Mile Wash 1	13.305	Floodway	3420.00	1350.21	1352.07	1352.03	1352.67	0.014443	6.65	559.25	427.28	0.96
Four Mile Wash	Four Mile Wash 1	13.246	Floodplain	3420.00	1348.33	1350.55		1350.76	0.003003	3.82	936.63	509.14	0.46
Four Mile Wash	Four Mile Wash 1	13.246	Floodway	3420.00	1348.33	1350.55		1350.76	0.003003	3.82	936.63	509.14	0.46
Four Mile Wash	Four Mile Wash 1	13.174	Floodplain	3420.00	1346.23	1348.40		1348.92	0.008530	6.24	599.05	358.16	0.78
Four Mile Wash	Four Mile Wash 1	13.174	Floodway	3420.00	1346.23	1348.40		1348.92	0.008530	6.24	599.05	358.16	0.78
Four Mile Wash	Four Mile Wash 1	13.095	Floodplain	3420.00	1342.93	1345.36		1345.72	0.006671	4.98	720.24	451.12	0.67
Four Mile Wash	Four Mile Wash 1	13.095	Floodway	3420.00	1342.93	1345.36		1345.72	0.006671	4.98	720.24	451.12	0.67
Four Mile Wash	Four Mile Wash 1	13.004	Floodplain	3420.00	1339.87	1341.04	1340.99	1341.43	0.014153	4.15	698.08	746.52	0.85
Four Mile Wash	Four Mile Wash 1	13.004	Floodway	3420.00	1339.87	1341.04	1340.99	1341.43	0.014153	4.15	698.08	746.52	0.85
Four Mile Wash	Four Mile Wash 1	12.939	Floodplain	3420.00	1336.32	1338.14		1338.35	0.006501	4.13	941.36	871.09	0.63
Four Mile Wash	Four Mile Wash 1	12.939	Floodway	3420.00	1336.32	1338.14		1338.35	0.006501	4.13	941.36	871.09	0.63
Four Mile Wash	Four Mile Wash 1	12.873	Floodplain	3420.00	1333.75	1336.35		1336.50	0.003590	3.78	1160.14	922.93	0.49
Four Mile Wash	Four Mile Wash 1	12.873	Floodway	3420.00	1333.75	1336.35		1336.50	0.003590	3.78	1160.14	922.93	0.49
Four Mile Wash	Four Mile Wash 1	12.798	Floodplain	3420.00	1332.05	1333.73		1334.17	0.010880	5.86	686.37	630.73	0.84
Four Mile Wash	Four Mile Wash 1	12.798	Floodway	3420.00	1332.05	1333.73		1334.17	0.010880	5.86	686.37	630.73	0.84
Four Mile Wash	Four Mile Wash 1	12.706	Floodplain	3420.00	1327.86	1330.05		1330.28	0.006344	2.85	900.46	707.45	0.43
Four Mile Wash	Four Mile Wash 1	12.706	Floodway	3420.00	1327.86	1330.05		1330.28	0.006344	2.85	900.46	707.45	0.43
Four Mile Wash	Four Mile Wash 1	12.619	Floodplain	3420.00	1321.90	1325.63	1325.63	1326.08	0.014145	5.82	677.75	707.40	0.81
Four Mile Wash	Four Mile Wash 1	12.619	Floodway	3420.00	1321.90	1325.63	1325.63	1326.08	0.014145	5.82	677.75	707.40	0.81
Four Mile Wash	Four Mile Wash 1	12.556	Floodplain	3420.00	1318.52	1323.01		1323.19	0.005013	3.47	1032.49	798.99	0.43
Four Mile Wash	Four Mile Wash 1	12.556	Floodway	3420.00	1318.52	1323.01		1323.19	0.005013	3.47	1032.49	798.99	0.43
Four Mile Wash	Four Mile Wash 1	12.502	Floodplain	3420.00	1316.96	1320.88		1321.27	0.012146	4.81	704.80	600.21	0.72
Four Mile Wash	Four Mile Wash 1	12.502	Floodway	3420.00	1316.96	1320.88		1321.27	0.012146	4.81	704.80	600.21	0.72
Four Mile Wash	Four Mile Wash 1	12.457	Floodplain	3420.00	1315.36	1319.42		1319.60	0.004596	4.36	1023.20	736.61	0.43
Four Mile Wash	Four Mile Wash 1	12.457	Floodway	3420.00	1315.36	1319.42		1319.60	0.004596	4.36	1023.20	736.61	0.43
Four Mile Wash	Four Mile Wash 1	12.403	Floodplain	3420.00	1314.89	1317.69		1318.01	0.007748	4.68	753.40	462.98	0.54
Four Mile Wash	Four Mile Wash 1	12.403	Floodway	3420.00	1314.89	1317.69		1318.01	0.007748	4.68	753.40	462.98	0.54
Four Mile Wash	Four Mile Wash 1	12.342	Floodplain	3420.00	1312.99	1315.70		1315.94	0.005400	4.52	915.50	640.05	0.53
Four Mile Wash	Four Mile Wash 1	12.342	Floodway	3420.00	1312.99	1315.70		1315.94	0.005400	4.52	915.50	640.05	0.53
Four Mile Wash	Four Mile Wash 1	12.282	Floodplain	3420.00	1311.04	1313.97		1314.22	0.006187	4.47	860.76	517.60	0.48
Four Mile Wash	Four Mile Wash 1	12.282	Floodway	3420.00	1311.04	1313.97		1314.22	0.006187	4.47	860.76	517.60	0.48
Four Mile Wash	Four Mile Wash 1	12.238	Floodplain	3420.00	1310.38	1312.30		1312.65	0.008019	2.88	743.22	476.38	0.47
Four Mile Wash	Four Mile Wash 1	12.238	Floodway	3420.00	1310.38	1312.30		1312.65	0.008019	2.88	743.22	476.38	0.47
Four Mile Wash	Four Mile Wash 1	12.154	Floodplain	3420.00	1307.72	1309.52		1309.69	0.005139	2.56	1068.80	849.07	0.39
Four Mile Wash	Four Mile Wash 1	12.154	Floodway	3420.00	1307.72	1309.52		1309.69	0.005139	2.56	1068.80	849.07	0.39
Four Mile Wash	Four Mile Wash 1	12.092	Floodplain	3420.00	1305.51	1306.24	1306.21	1306.62	0.014850	2.20	710.46	837.82	0.55
Four Mile Wash	Four Mile Wash 1	12.092	Floodway	3420.00	1305.51	1306.24	1306.21	1306.62	0.014850	2.20	710.46	837.82	0.55
Four Mile Wash	Four Mile Wash 1	12.030	Floodplain	3420.00	1303.08	1304.00		1304.14	0.005180	1.57	1202.98	1356.45	0.38
Four Mile Wash	Four Mile Wash 1	12.030	Floodway	3420.00	1303.08	1304.00		1304.14	0.005180	1.57	1202.98	1356.45	0.38
Four Mile Wash	Four Mile Wash 1	11.989	Floodplain	3420.00	1301.76	1303.04	1302.72	1303.22	0.007249	2.31	1016.69	1056.08	0.43
Four Mile Wash	Four Mile Wash 1	11.989	Floodway	3420.00	1301.76	1303.04	1302.72	1303.22	0.007249	2.31	1016.69	1056.08	0.43
Four Mile Wash	Four Mile Wash 1	11.954	Floodplain	3420.00	1301.05	1302.01	1301.66	1302.20	0.005925	2.39	1020.99	1073.54	0.47
Four Mile Wash	Four Mile Wash 1	11.954	Floodway	3420.00	1301.05	1302.01	1301.66	1302.20	0.005925	2.39	1020.99	1073.54	0.47

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 1	11.885	Floodplain	3420.00	1299.37	1300.43	1300.08	1300.62	0.005952	2.21	1031.75	951.05	0.41
Four Mile Wash	Four Mile Wash 1	11.885	Floodway	3420.00	1299.37	1300.43	1300.08	1300.62	0.005952	2.21	1031.75	951.05	0.41
Four Mile Wash	Four Mile Wash 1	11.830	Floodplain	3420.00	1297.35	1298.24		1298.46	0.006921	2.42	924.28	818.23	0.50
Four Mile Wash	Four Mile Wash 1	11.830	Floodway	3420.00	1297.35	1298.24		1298.46	0.006921	2.42	924.28	818.23	0.50
Four Mile Wash	Four Mile Wash 1	11.762	Floodplain	3420.00	1295.06	1296.41	1295.95	1296.60	0.005018	3.12	971.82	714.19	0.51
Four Mile Wash	Four Mile Wash 1	11.762	Floodway	3420.00	1295.06	1296.41	1295.95	1296.60	0.005018	3.12	971.82	714.19	0.51
Four Mile Wash	Four Mile Wash 1	11.713	Floodplain	3420.00	1293.44	1295.06		1295.26	0.005620	3.73	974.39	775.96	0.56
Four Mile Wash	Four Mile Wash 1	11.713	Floodway	3420.00	1293.44	1295.06		1295.26	0.005620	3.73	974.39	775.96	0.56
Four Mile Wash	Four Mile Wash 1	11.656	Floodplain	3420.00	1291.32	1294.05		1294.19	0.002380	3.00	1167.30	568.75	0.38
Four Mile Wash	Four Mile Wash 1	11.656	Floodway	3420.00	1291.32	1294.05		1294.19	0.002380	3.00	1167.30	568.75	0.38
Four Mile Wash	Four Mile Wash 1	11.607	Floodplain	3420.00	1290.62	1293.08		1293.37	0.004988	4.47	792.14	405.64	0.56
Four Mile Wash	Four Mile Wash 1	11.607	Floodway	3420.00	1290.62	1293.08		1293.37	0.004988	4.47	792.14	405.64	0.56
Four Mile Wash	Four Mile Wash 1	11.551	Floodplain	3420.00	1289.20	1291.67		1291.96	0.004595	4.56	798.20	405.51	0.55
Four Mile Wash	Four Mile Wash 1	11.551	Floodway	3420.00	1289.20	1291.67		1291.96	0.004595	4.56	798.20	405.51	0.55
Four Mile Wash	Four Mile Wash 1	11.500	Floodplain	3420.00	1286.55	1290.78	1289.20	1290.97	0.002473	3.60	1015.70	660.40	0.33
Four Mile Wash	Four Mile Wash 1	11.500	Floodway	3420.00	1286.55	1290.78	1289.20	1290.97	0.002473	3.60	1015.70	660.40	0.33
Four Mile Wash	Four Mile Wash 1	11.414	Floodplain	3420.00	1285.50	1288.99		1289.30	0.005865	3.66	807.48	354.34	0.37
Four Mile Wash	Four Mile Wash 1	11.414	Floodway	3420.00	1285.50	1288.99		1289.30	0.005865	3.66	807.48	354.34	0.37
Four Mile Wash	Four Mile Wash 1	11.356	Floodplain	3420.00	1283.82	1286.07	1285.97	1286.66	0.013147	6.70	598.53	434.19	0.86
Four Mile Wash	Four Mile Wash 1	11.356	Floodway	3420.00	1283.82	1286.07	1285.97	1286.66	0.013147	6.70	598.53	434.19	0.86
Four Mile Wash	Four Mile Wash 1	11.302	Floodplain	3420.00	1279.02	1284.44		1284.71	0.004240	5.28	934.03	567.06	0.47
Four Mile Wash	Four Mile Wash 1	11.302	Floodway	3420.00	1279.02	1284.44		1284.71	0.004240	5.28	934.03	567.06	0.47
Four Mile Wash	Four Mile Wash 1	11.249	Floodplain	3420.00	1276.65	1282.21	1282.18	1282.76	0.018024	6.81	609.53	844.92	0.72
Four Mile Wash	Four Mile Wash 1	11.249	Floodway	3420.00	1276.65	1282.21	1282.18	1282.76	0.018024	6.81	609.53	844.92	0.72
Four Mile Wash	Four Mile Wash 1	11.180	Floodplain	3420.00	1276.47	1279.17	1278.62	1279.36	0.005447	3.19	1002.03	884.84	0.38
Four Mile Wash	Four Mile Wash 1	11.180	Floodway	3420.00	1276.47	1279.17	1278.62	1279.36	0.005447	3.19	1002.03	884.84	0.38
Four Mile Wash	Four Mile Wash 1	11.144	Floodplain	3420.00	1275.17	1278.00		1278.19	0.006409	3.08	997.13	708.30	0.39
Four Mile Wash	Four Mile Wash 1	11.144	Floodway	3420.00	1275.17	1278.00		1278.19	0.006409	3.08	997.13	708.30	0.39
Four Mile Wash	Four Mile Wash 1	11.092	Floodplain	3420.00	1272.87	1275.75		1275.91	0.007392	2.94	1063.86	890.25	0.40
Four Mile Wash	Four Mile Wash 1	11.092	Floodway	3420.00	1272.87	1275.75		1275.91	0.007392	2.94	1063.86	890.25	0.40
Four Mile Wash	Four Mile Wash 1	11.032	Floodplain	1950.00	1270.93	1273.15		1273.36	0.007174	3.15	596.72	617.36	0.44
Four Mile Wash	Four Mile Wash 1	11.032	Floodway	1950.00	1270.93	1273.15		1273.36	0.007174	3.15	596.72	617.36	0.44
Four Mile Wash	Four Mile Wash 1	10.958	Floodplain	1950.00	1266.26	1269.64	1269.29	1269.88	0.011142	4.45	555.65	768.07	0.50
Four Mile Wash	Four Mile Wash 1	10.958	Floodway	1950.00	1266.26	1269.64	1269.29	1269.88	0.011142	4.45	555.65	768.07	0.50
Four Mile Wash	Four Mile Wash 1	10.881	Floodplain	1950.00	1263.24	1266.08		1266.20	0.007477	3.06	699.70	795.39	0.39
Four Mile Wash	Four Mile Wash 1	10.881	Floodway	1950.00	1263.24	1266.08		1266.20	0.007477	3.06	699.70	795.39	0.39
Four Mile Wash	Four Mile Wash 1	10.806	Floodplain	1950.00	1260.27	1263.21		1263.33	0.007118	3.04	701.14	834.93	0.38
Four Mile Wash	Four Mile Wash 1	10.806	Floodway	1950.00	1260.27	1263.21		1263.33	0.007118	3.04	701.14	834.93	0.38
Four Mile Wash	Four Mile Wash 1	10.727	Floodplain	1950.00	1257.25	1260.36		1260.49	0.006820	3.07	675.02	718.82	0.42
Four Mile Wash	Four Mile Wash 1	10.727	Floodway	1950.00	1257.25	1260.36		1260.49	0.006820	3.07	675.02	718.82	0.42
Four Mile Wash	Four Mile Wash 1	10.663	Floodplain	1950.00	1254.23	1257.99		1258.08	0.006129	2.63	790.12	899.22	0.39
Four Mile Wash	Four Mile Wash 1	10.663	Floodway	1950.00	1254.23	1257.99		1258.08	0.006129	2.63	790.12	899.22	0.39
Four Mile Wash	Four Mile Wash 1	10.572	Floodplain	1950.00	1253.04	1254.61		1254.80	0.008808	2.69	633.39	843.35	0.41
Four Mile Wash	Four Mile Wash 1	10.572	Floodway	1950.00	1253.04	1254.61		1254.80	0.008808	2.69	633.39	843.35	0.41
Four Mile Wash	Four Mile Wash 1	10.513	Floodplain	1950.00	1250.93	1252.26		1252.38	0.006153	3.04	740.96	1030.62	0.53
Four Mile Wash	Four Mile Wash 1	10.513	Floodway	1950.00	1250.93	1252.26		1252.38	0.006153	3.04	740.96	1030.62	0.53
Four Mile Wash	Four Mile Wash 1	10.425	Floodplain	1950.00	1248.04	1249.30		1249.44	0.007572	3.25	649.05	809.97	0.58
Four Mile Wash	Four Mile Wash 1	10.425	Floodway	1950.00	1248.04	1249.30		1249.44	0.007572	3.25	649.05	809.97	0.58
Four Mile Wash	Four Mile Wash 1	10.346	Floodplain	1950.00	1243.95	1246.34	1246.13	1246.46	0.006796	3.57	746.30	1096.02	0.53
Four Mile Wash	Four Mile Wash 1	10.346	Floodway	1950.00	1243.95	1246.34	1246.13	1246.46	0.006796	3.57	746.30	1096.02	0.53
Four Mile Wash	Four Mile Wash 1	10.265	Floodplain	1220.00	1239.11	1242.77		1243.08	0.011271	4.89	285.09	271.21	0.58
Four Mile Wash	Four Mile Wash 1	10.265	Floodway	1220.00	1239.11	1242.77		1243.08	0.011271	4.89	285.09	271.21	0.58
Four Mile Wash	Four Mile Wash 1	10.216	Floodplain	1220.00	1234.04	1241.10	1240.40	1241.24	0.004340	3.07	410.50	322.39	0.43
Four Mile Wash	Four Mile Wash 1	10.216	Floodway	1220.00	1234.04	1241.10	1240.38	1241.24	0.004340	3.07	410.50	322.39	0.43
Four Mile Wash	Four Mile Wash 2	10.183	Floodplain	970.00	1233.27	1239.18	1239.18	1239.84	0.024166	6.49	150.60	130.55	0.98
Four Mile Wash	Four Mile Wash 2	10.183	Floodway	970.00	1233.27	1239.18	1239.18	1239.84	0.024166	6.49	150.60	130.55	0.98
Four Mile Wash	Four Mile Wash 2	10.140	Floodplain	970.00	1232.62	1237.48		1237.65	0.004682	3.01	300.22	208.37	0.39
Four Mile Wash	Four Mile Wash 2	10.140	Floodway	970.00	1232.62	1237.48		1237.65	0.004682	3.01	300.22	208.37	0.39
Four Mile Wash	Four Mile Wash 2	10.099	Floodplain	2760.00	1231.85	1236.22		1236.47	0.005644	3.74	710.18	327.52	0.39
Four Mile Wash	Four Mile Wash 2	10.099	Floodway	2760.00	1231.85	1236.22		1236.47	0.005644	3.74	710.18	327.52	0.39
Four Mile Wash	Four Mile Wash 2	10.028	Floodplain	2760.00	1226.52	1234.48		1234.73	0.003804	4.57	713.31	245.42	0.34

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 2	10.028	Floodway	2760.00	1226.52	1234.48		1234.73	0.003804	4.57	713.31	245.42	0.34
Four Mile Wash	Four Mile Wash 3	9.996	Floodplain	2910.00	1225.29	1233.99		1234.15	0.002839	3.30	924.30	370.29	0.29
Four Mile Wash	Four Mile Wash 3	9.996	Floodway	2910.00	1225.29	1233.99		1234.15	0.002839	3.30	924.30	370.29	0.29
Four Mile Wash	Four Mile Wash 3	9.960	Floodplain	2910.00	1224.04	1231.89	1231.86	1232.78	0.023374	8.39	403.70	212.63	0.77
Four Mile Wash	Four Mile Wash 3	9.960	Floodway	2910.00	1224.04	1231.89	1231.86	1232.78	0.023374	8.39	403.70	212.63	0.77
Four Mile Wash	Four Mile Wash 3	9.875	Floodplain	2910.00	1222.65	1229.26		1229.47	0.003329	3.83	809.24	234.64	0.30
Four Mile Wash	Four Mile Wash 3	9.875	Floodway	2910.00	1222.65	1229.26		1229.47	0.003329	3.83	809.24	234.64	0.30
Four Mile Wash	Four Mile Wash 3	9.796	Floodplain	2910.00	1220.10	1226.27	1226.14	1226.89	0.014792	7.24	528.08	302.28	0.60
Four Mile Wash	Four Mile Wash 3	9.796	Floodway	2910.00	1220.10	1226.27	1226.14	1226.89	0.014792	7.24	528.08	302.28	0.60
Four Mile Wash	Four Mile Wash 3	9.733	Floodplain	2910.00	1218.29	1223.75		1224.05	0.005323	4.69	677.56	216.94	0.40
Four Mile Wash	Four Mile Wash 3	9.733	Floodway	2910.00	1218.29	1223.75		1224.05	0.005323	4.69	677.56	216.94	0.40
Four Mile Wash	Four Mile Wash 3	9.655	Floodplain	2910.00	1215.75	1222.48		1222.63	0.002324	3.35	978.11	400.81	0.25
Four Mile Wash	Four Mile Wash 3	9.655	Floodway	2910.00	1215.75	1222.48		1222.63	0.002324	3.35	978.11	400.81	0.25
Four Mile Wash	Four Mile Wash 3	9.571	Floodplain	2910.00	1211.51	1220.62	1220.32	1221.01	0.006299	6.12	654.39	412.44	0.46
Four Mile Wash	Four Mile Wash 3	9.571	Floodway	2910.00	1211.51	1220.62	1220.32	1221.01	0.006299	6.12	654.39	412.44	0.46
Four Mile Wash	Four Mile Wash 3	9.498	Floodplain	2910.00	1209.62	1217.96		1218.46	0.006694	6.08	537.23	209.59	0.49
Four Mile Wash	Four Mile Wash 3	9.498	Floodway	2910.00	1209.62	1217.96		1218.46	0.006694	6.08	537.23	209.59	0.49
Four Mile Wash	Four Mile Wash 3	9.418	Floodplain	2910.00	1207.68	1215.93		1216.37	0.003859	5.54	580.91	164.35	0.38
Four Mile Wash	Four Mile Wash 3	9.418	Floodway	2910.00	1207.68	1215.93		1216.37	0.003859	5.54	580.91	164.35	0.38
Four Mile Wash	Four Mile Wash 3	9.359	Floodplain	2910.00	1204.93	1213.68	1212.03	1214.46	0.010363	7.68	448.24	182.44	0.52
Four Mile Wash	Four Mile Wash 3	9.359	Floodway	2910.00	1204.93	1213.68	1212.03	1214.46	0.010363	7.68	448.24	182.44	0.52
Four Mile Wash	Four Mile Wash 3	9.266	Floodplain	2910.00	1202.55	1209.59		1210.13	0.007324	6.07	510.96	134.49	0.45
Four Mile Wash	Four Mile Wash 3	9.266	Floodway	2910.00	1202.55	1209.59		1210.13	0.007324	6.07	510.96	134.49	0.45
Four Mile Wash	Four Mile Wash 3	9.184	Floodplain	2910.00	1200.17	1207.22		1207.75	0.004232	6.11	511.86	117.67	0.43
Four Mile Wash	Four Mile Wash 3	9.184	Floodway	2910.00	1200.17	1207.22		1207.75	0.004232	6.11	511.86	117.67	0.43
Four Mile Wash	Four Mile Wash 3	9.123	Floodplain	2910.00	1197.62	1206.08		1206.36	0.004035	4.51	695.53	226.71	0.33
Four Mile Wash	Four Mile Wash 3	9.123	Floodway	2910.00	1197.62	1206.08		1206.36	0.004035	4.51	695.53	226.71	0.33
Four Mile Wash	Four Mile Wash 3	9.046	Floodplain	2910.00	1196.40	1204.23		1204.62	0.004581	5.40	606.12	223.69	0.39
Four Mile Wash	Four Mile Wash 3	9.046	Floodway	2910.00	1196.40	1204.23		1204.62	0.004581	5.40	606.12	223.69	0.39
Four Mile Wash	Four Mile Wash 3	8.957	Floodplain	2910.00	1194.26	1201.44		1201.92	0.007254	6.06	588.97	333.99	0.45
Four Mile Wash	Four Mile Wash 3	8.957	Floodway	2910.00	1194.26	1201.44		1201.92	0.007254	6.06	588.97	333.99	0.45
Four Mile Wash	Four Mile Wash 3	8.871	Floodplain	2910.00	1191.44	1198.49		1198.87	0.006025	5.15	599.22	207.20	0.40
Four Mile Wash	Four Mile Wash 3	8.871	Floodway	2910.00	1191.44	1198.49		1198.87	0.006025	5.15	599.22	207.20	0.40
Four Mile Wash	Four Mile Wash 3	8.815	Floodplain	2910.00	1189.52	1196.64		1196.93	0.007194	4.69	696.24	443.88	0.52
Four Mile Wash	Four Mile Wash 3	8.815	Floodway	2910.00	1189.52	1196.64		1196.93	0.007194	4.69	696.24	443.88	0.52
Four Mile Wash	Four Mile Wash 3	8.736	Floodplain	2250.00	1186.02	1192.88		1193.42	0.010121	6.22	396.04	168.58	0.52
Four Mile Wash	Four Mile Wash 3	8.736	Floodway	2250.00	1186.02	1192.88		1193.42	0.010121	6.22	396.04	168.58	0.52
Four Mile Wash	Four Mile Wash 3	8.645	Floodplain	2250.00	1183.29	1189.28		1189.57	0.006259	4.77	551.37	285.17	0.40
Four Mile Wash	Four Mile Wash 3	8.645	Floodway	2250.00	1183.29	1189.28		1189.57	0.006259	4.77	551.37	285.17	0.40
Four Mile Wash	Four Mile Wash 3	8.557	Floodplain	2910.00	1181.36	1186.18		1186.45	0.007007	4.59	723.46	450.68	0.44
Four Mile Wash	Four Mile Wash 3	8.557	Floodway	2910.00	1181.36	1186.18		1186.45	0.007007	4.59	723.46	450.68	0.44
Four Mile Wash	Four Mile Wash 3	8.483	Floodplain	2910.00	1178.35	1183.13	1182.61	1183.41	0.008437	4.97	759.73	707.44	0.52
Four Mile Wash	Four Mile Wash 3	8.483	Floodway	2910.00	1178.35	1183.13	1182.61	1183.41	0.008437	4.97	759.73	707.44	0.52
Four Mile Wash	Four Mile Wash 3	8.394	Floodplain	2910.00	1176.21	1179.87		1180.04	0.006113	3.28	879.48	597.61	0.39
Four Mile Wash	Four Mile Wash 3	8.394	Floodway	2910.00	1176.21	1179.87		1180.04	0.006113	3.28	879.48	597.61	0.39
Four Mile Wash	Four Mile Wash 3	8.329	Floodplain	2910.00	1173.76	1178.17		1178.34	0.004159	2.77	888.61	454.85	0.32
Four Mile Wash	Four Mile Wash 3	8.329	Floodway	2910.00	1173.76	1178.17		1178.34	0.004159	2.77	888.61	454.85	0.32
Four Mile Wash	Four Mile Wash 3	8.259	Floodplain	2910.00	1172.24	1176.90		1177.05	0.003230	3.02	977.53	542.75	0.33
Four Mile Wash	Four Mile Wash 3	8.259	Floodway	2910.00	1172.24	1176.90		1177.05	0.003230	3.02	977.53	542.75	0.33
Four Mile Wash	Four Mile Wash 3	8.185	Floodplain	2910.00	1170.14	1175.09		1175.36	0.006663	4.35	700.08	371.87	0.47
Four Mile Wash	Four Mile Wash 3	8.185	Floodway	2910.00	1170.14	1175.09		1175.36	0.006663	4.35	700.08	371.87	0.47
Four Mile Wash	Four Mile Wash 3	8.109	Floodplain	2910.00	1167.66	1173.23		1173.37	0.003873	3.12	944.75	596.47	0.32
Four Mile Wash	Four Mile Wash 3	8.109	Floodway	2910.00	1167.66	1173.23		1173.37	0.003873	3.12	944.75	596.47	0.32
Four Mile Wash	Four Mile Wash 3	8.046	Floodplain	2910.00	1166.78	1171.54		1171.76	0.007053	3.94	784.68	553.57	0.43
Four Mile Wash	Four Mile Wash 3	8.046	Floodway	2910.00	1166.78	1171.54		1171.76	0.007053	3.94	784.68	553.57	0.43
Four Mile Wash	Four Mile Wash 3	7.981	Floodplain	2910.00	1165.28	1170.27		1170.36	0.002254	2.58	1212.19	527.12	0.25
Four Mile Wash	Four Mile Wash 3	7.981	Floodway	2910.00	1165.28	1170.27		1170.36	0.002254	2.58	1212.19	527.12	0.25
Four Mile Wash	Four Mile Wash 3	7.903	Floodplain	2910.00	1162.09	1168.82		1169.10	0.004277	4.22	697.56	223.09	0.37
Four Mile Wash	Four Mile Wash 3	7.903	Floodway	2910.00	1162.09	1168.82		1169.10	0.004277	4.22	697.56	223.09	0.37
Four Mile Wash	Four Mile Wash 3	7.840	Floodplain	2910.00	1161.25	1166.92		1167.24	0.007716	4.79	665.91	309.22	0.46
Four Mile Wash	Four Mile Wash 3	7.840	Floodway	2910.00	1161.25	1166.92		1167.24	0.007716	4.79	665.91	309.22	0.46

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 3	7.758	Floodplain	2910.00	1159.46	1164.79		1164.97	0.003715	3.47	855.97	402.81	0.33
Four Mile Wash	Four Mile Wash 3	7.758	Floodway	2910.00	1159.46	1164.79		1164.97	0.003715	3.47	855.97	402.81	0.33
Four Mile Wash	Four Mile Wash 3	7.707	Floodplain	2910.00	1155.85	1163.21		1163.56	0.007278	4.39	625.79	260.53	0.44
Four Mile Wash	Four Mile Wash 3	7.707	Floodway	2910.00	1155.85	1163.21		1163.56	0.007278	4.39	625.79	260.53	0.44
Four Mile Wash	Four Mile Wash 3	7.622	Floodplain	2910.00	1154.95	1160.84		1161.05	0.004434	3.84	800.52	415.87	0.35
Four Mile Wash	Four Mile Wash 3	7.622	Floodway	2910.00	1154.95	1160.84		1161.05	0.004434	3.84	800.52	415.87	0.35
Four Mile Wash	Four Mile Wash 3	7.535	Floodplain	2910.00	1153.64	1158.85		1159.01	0.004282	3.38	901.70	467.79	0.34
Four Mile Wash	Four Mile Wash 3	7.535	Floodway	2910.00	1153.64	1158.85		1159.01	0.004282	3.38	901.70	467.79	0.34
Four Mile Wash	Four Mile Wash 3	7.470	Floodplain	2910.00	1151.07	1157.14		1157.38	0.005058	4.14	760.41	424.59	0.43
Four Mile Wash	Four Mile Wash 3	7.470	Floodway	2910.00	1151.07	1157.14		1157.38	0.005058	4.14	760.41	424.59	0.43
Four Mile Wash	Four Mile Wash 3	7.389	Floodplain	2910.00	1149.23	1154.99		1155.16	0.005471	3.53	888.21	659.44	0.40
Four Mile Wash	Four Mile Wash 3	7.389	Floodway	2910.00	1149.23	1154.99		1155.16	0.005471	3.53	888.21	659.44	0.40
Four Mile Wash	Four Mile Wash 3	7.339	Floodplain	2910.00	1147.71	1153.50		1153.68	0.006227	3.90	891.23	788.38	0.41
Four Mile Wash	Four Mile Wash 3	7.339	Floodway	2910.00	1147.71	1153.50		1153.68	0.006227	3.90	891.23	788.38	0.41
Four Mile Wash	Four Mile Wash 3	7.253	Floodplain	2910.00	1144.98	1150.93		1151.09	0.004995	2.99	936.30	658.60	0.35
Four Mile Wash	Four Mile Wash 3	7.253	Floodway	2910.00	1144.98	1150.93		1151.09	0.004995	2.99	936.30	658.60	0.35
Four Mile Wash	Four Mile Wash 3	7.180	Floodplain	2910.00	1144.61	1148.99		1149.21	0.004925	3.25	789.60	564.84	0.39
Four Mile Wash	Four Mile Wash 3	7.180	Floodway	2910.00	1144.61	1148.99		1149.21	0.004925	3.25	789.60	564.84	0.39
Four Mile Wash	Four Mile Wash 3	7.106	Floodplain	2910.00	1142.28	1147.20		1147.35	0.004822	3.07	936.92	672.94	0.35
Four Mile Wash	Four Mile Wash 3	7.106	Floodway	2910.00	1142.28	1147.20		1147.35	0.004822	3.07	936.92	672.94	0.35
Four Mile Wash	Four Mile Wash 3	7.041	Floodplain	2910.00	1141.14	1145.49		1145.63	0.005367	3.14	968.52	698.32	0.37
Four Mile Wash	Four Mile Wash 3	7.041	Floodway	2910.00	1141.14	1145.49		1145.63	0.005367	3.14	968.52	698.32	0.37
Four Mile Wash	Four Mile Wash 3	6.973	Floodplain	2910.00	1139.52	1143.83		1143.97	0.003952	2.87	1030.94	577.70	0.33
Four Mile Wash	Four Mile Wash 3	6.973	Floodway	2910.00	1139.52	1143.83		1143.97	0.003952	2.87	1030.94	577.70	0.33
Four Mile Wash	Four Mile Wash 3	6.909	Floodplain	3320.00	1137.48	1141.42		1141.73	0.011440	4.26	786.29	548.68	0.52
Four Mile Wash	Four Mile Wash 3	6.909	Floodway	3320.00	1137.48	1141.42		1141.73	0.011440	4.26	786.29	548.68	0.52
Four Mile Wash	Four Mile Wash 3	6.854	Floodplain	3320.00	1136.39	1139.70		1139.81	0.003696	2.37	1327.72	983.15	0.31
Four Mile Wash	Four Mile Wash 3	6.854	Floodway	3320.00	1136.39	1139.70		1139.81	0.003696	2.37	1327.72	983.15	0.31
Four Mile Wash	Four Mile Wash 3	6.768	Floodplain	3320.00	1133.70	1138.26		1138.34	0.003266	2.39	1462.57	918.07	0.28
Four Mile Wash	Four Mile Wash 3	6.768	Floodway	3320.00	1133.70	1138.26		1138.34	0.003266	2.39	1462.57	918.07	0.28
Four Mile Wash	Four Mile Wash 3	6.700	Floodplain	3320.00	1131.77	1136.86		1136.98	0.004209	3.06	1184.56	561.06	0.33
Four Mile Wash	Four Mile Wash 3	6.700	Floodway	3320.00	1131.77	1136.86		1136.98	0.004209	3.06	1184.56	561.06	0.33
Four Mile Wash	Four Mile Wash 3	6.631	Floodplain	3320.00	1130.31	1135.01		1135.18	0.005280	3.65	992.25	476.78	0.38
Four Mile Wash	Four Mile Wash 3	6.631	Floodway	3320.00	1130.31	1135.01		1135.18	0.005280	3.65	992.25	476.78	0.38
Four Mile Wash	Four Mile Wash 3	6.546	Floodplain	3320.00	1127.63	1132.74		1132.90	0.004881	3.61	1036.30	488.38	0.36
Four Mile Wash	Four Mile Wash 3	6.546	Floodway	3320.00	1127.63	1132.74		1132.90	0.004881	3.61	1036.30	488.38	0.36
Four Mile Wash	Four Mile Wash 3	6.473	Floodplain	3320.00	1126.06	1131.12		1131.25	0.003662	2.96	1138.97	559.93	0.31
Four Mile Wash	Four Mile Wash 3	6.473	Floodway	3320.00	1126.06	1131.12		1131.25	0.003662	2.96	1138.97	559.93	0.31
Four Mile Wash	Four Mile Wash 3	6.387	Floodplain	3320.00	1124.32	1129.45		1129.57	0.003597	3.06	1217.78	606.03	0.31
Four Mile Wash	Four Mile Wash 3	6.387	Floodway	3320.00	1124.32	1129.45		1129.57	0.003597	3.06	1217.78	606.03	0.31
Four Mile Wash	Four Mile Wash 3	6.322	Floodplain	3320.00	1123.70	1127.90		1128.06	0.005325	3.48	1035.92	673.28	0.40
Four Mile Wash	Four Mile Wash 3	6.322	Floodway	3320.00	1123.70	1127.90		1128.06	0.005325	3.48	1035.92	673.28	0.40
Four Mile Wash	Four Mile Wash 3	6.263	Floodplain	3320.00	1121.49	1126.46		1126.60	0.004338	2.80	1133.99	974.22	0.36
Four Mile Wash	Four Mile Wash 3	6.263	Floodway	3320.00	1121.49	1126.46		1126.60	0.004338	2.80	1133.99	974.22	0.36
Four Mile Wash	Four Mile Wash 3	6.171	Floodplain	3320.00	1119.92	1124.14		1124.29	0.005745	2.60	1102.85	895.77	0.36
Four Mile Wash	Four Mile Wash 3	6.171	Floodway	3320.00	1119.92	1124.14		1124.29	0.005745	2.60	1102.85	895.77	0.36
Four Mile Wash	Four Mile Wash 3	6.081	Floodplain	3320.00	1118.16	1121.99	1121.47	1122.09	0.004346	2.29	1343.13	1365.66	0.34
Four Mile Wash	Four Mile Wash 3	6.081	Floodway	3320.00	1118.16	1121.99	1121.47	1122.09	0.004346	2.29	1343.13	1365.66	0.34
Four Mile Wash	Four Mile Wash 3	6.020	Floodplain	3320.00	1116.86	1119.98	1119.83	1120.19	0.008594	2.40	950.88	1224.66	0.46
Four Mile Wash	Four Mile Wash 3	6.020	Floodway	3320.00	1116.86	1119.98	1119.83	1120.19	0.008594	2.40	950.88	1224.66	0.46
Four Mile Wash	Four Mile Wash 3	5.944	Floodplain	3320.00	1116.43	1118.41	1117.79	1118.52	0.002090	1.17	1360.11	1333.95	0.21
Four Mile Wash	Four Mile Wash 3	5.944	Floodway	3320.00	1116.43	1118.41	1117.79	1118.52	0.002090	1.17	1360.11	1333.95	0.21
Four Mile Wash	Four Mile Wash 3	5.879	Floodplain	3320.00	1114.24	1117.77		1117.83	0.001883	1.60	1758.12	1564.53	0.21
Four Mile Wash	Four Mile Wash 3	5.879	Floodway	3320.00	1114.24	1117.77		1117.83	0.001883	1.60	1758.12	1564.53	0.21
Four Mile Wash	Four Mile Wash 3	5.864	Floodplain	3330.00	1115.82	1117.37	1117.37	1117.65	0.004223	5.29	876.60	1412.20	0.87
Four Mile Wash	Four Mile Wash 3	5.864	Floodway	3330.00	1115.82	1117.37	1117.37	1117.65	0.004223	5.29	876.60	1412.20	0.87
Four Mile Wash	Four Mile Wash 3	5.852	Floodplain	3330.00	1114.87	1117.22	1116.78	1117.32	0.003798	1.65	1371.50	1393.47	0.27
Four Mile Wash	Four Mile Wash 3	5.852	Floodway	3330.00	1114.87	1117.22	1116.78	1117.32	0.003798	1.65	1371.50	1393.47	0.27
Four Mile Wash	Four Mile Wash 3	5.801	Floodplain	3330.00	1112.57	1115.20	1115.09	1115.43	0.017306	3.59	868.63	1217.70	0.59
Four Mile Wash	Four Mile Wash 3	5.801	Floodway	3330.00	1112.57	1115.20	1115.09	1115.43	0.017306	3.59	868.63	1217.70	0.59
Four Mile Wash	Four Mile Wash 3	5.716	Floodplain	3330.00	1110.97	1112.29		1112.42	0.003510	0.86	1218.32	1162.84	0.23
Four Mile Wash	Four Mile Wash 3	5.716	Floodway	3330.00	1110.97	1112.29		1112.42	0.003510	0.86	1218.32	1162.84	0.23

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 3	5.642	Floodplain	3330.00	1109.39	1111.29		1111.40	0.002394	1.58	1309.90	929.26	0.23
Four Mile Wash	Four Mile Wash 3	5.642	Floodway	3330.00	1109.39	1111.29		1111.40	0.002394	1.58	1309.90	929.26	0.23
Four Mile Wash	Four Mile Wash 3	5.574	Floodplain	3330.00	1106.61	1110.03	1109.48	1110.20	0.005191	2.93	1017.39	1085.60	0.36
Four Mile Wash	Four Mile Wash 3	5.574	Floodway	3330.00	1106.61	1110.03	1109.48	1110.20	0.005191	2.93	1017.39	1085.60	0.36
Four Mile Wash	Four Mile Wash 3	5.512	Floodplain	3330.00	1101.82	1107.92	1107.33	1108.15	0.007682	4.11	872.69	915.78	0.46
Four Mile Wash	Four Mile Wash 3	5.512	Floodway	3330.00	1101.82	1107.92	1107.33	1108.15	0.007682	4.11	872.69	915.78	0.46
Four Mile Wash	Four Mile Wash 3	5.463	Floodplain	3330.00	1100.41	1106.69	1105.95	1106.86	0.003434	3.67	1006.81	1086.88	0.42
Four Mile Wash	Four Mile Wash 3	5.463	Floodway	3330.00	1100.41	1106.69	1105.95	1106.86	0.003434	3.67	1006.81	1086.88	0.42
Four Mile Wash	Four Mile Wash 3	5.376	Floodplain	3330.00	1097.09	1103.88	1103.65	1104.35	0.010545	5.68	619.82	710.53	0.69
Four Mile Wash	Four Mile Wash 3	5.376	Floodway	3330.00	1097.09	1103.88	1103.65	1104.35	0.010545	5.68	619.82	710.53	0.69
Four Mile Wash	Four Mile Wash 3	5.307	Floodplain	3330.00	1094.47	1101.84	1101.25	1102.05	0.004156	2.64	977.92	731.36	0.31
Four Mile Wash	Four Mile Wash 3	5.307	Floodway	3330.00	1094.47	1101.84	1101.25	1102.05	0.004156	2.64	977.92	731.36	0.31
Four Mile Wash	Four Mile Wash 3	5.248	Floodplain	3330.00	1093.54	1101.70	1099.62	1101.73	0.000361	1.53	2337.49	919.18	0.12
Four Mile Wash	Four Mile Wash 3	5.248	Floodway	3330.00	1093.54	1101.70	1099.62	1101.73	0.000361	1.53	2337.49	919.18	0.12
Four Mile Wash	Four Mile Wash 3	5.165	Floodplain	3330.00	1092.48	1101.39	1096.39	1101.51	0.000618	2.61	1337.81	1980.96	0.16
Four Mile Wash	Four Mile Wash 3	5.165	Floodway	3330.00	1092.48	1101.39	1096.39	1101.51	0.000618	2.61	1337.81	1980.96	0.16
Four Mile Wash	Four Mile Wash 3	5.154		Culvert									
Four Mile Wash	Four Mile Wash 3	5.146	Floodplain	3330.00	1092.38	1100.13	1096.86	1100.57	0.003646	5.39	627.21	921.81	0.36
Four Mile Wash	Four Mile Wash 3	5.146	Floodway	3330.00	1092.38	1100.13	1096.86	1100.57	0.003646	5.39	627.21	921.81	0.36
Four Mile Wash	Four Mile Wash 3	5.106	Floodplain	3330.00	1090.26	1100.14	1094.51	1100.20	0.000378	1.98	1636.18	988.11	0.12
Four Mile Wash	Four Mile Wash 3	5.106	Floodway	3330.00	1090.26	1100.14	1094.51	1100.20	0.000378	1.98	1636.18	988.11	0.12
Four Mile Wash	Four Mile Wash 3	5.066	Floodplain	3330.00	1089.40	1099.55	1094.70	1099.94	0.002294	5.04	669.18	919.06	0.30
Four Mile Wash	Four Mile Wash 3	5.066	Floodway	3330.00	1089.40	1099.55	1094.70	1099.94	0.002294	5.04	669.18	919.06	0.30
Four Mile Wash	Four Mile Wash 3	5.045		Culvert									
Four Mile Wash	Four Mile Wash 3	5.023	Floodplain	3330.00	1089.25	1095.81	1094.84	1097.36	0.007806	10.08	335.94	643.60	0.73
Four Mile Wash	Four Mile Wash 3	5.023	Floodway	3330.00	1089.25	1095.81	1094.84	1097.36	0.007806	10.08	335.94	643.60	0.73
Four Mile Wash	Four Mile Wash 3	4.974	Floodplain	3330.00	1088.54	1096.16	1091.32	1096.26	0.000602	2.80	1322.20	997.99	0.19
Four Mile Wash	Four Mile Wash 3	4.974	Floodway	3330.00	1088.54	1096.16	1091.32	1096.26	0.000602	2.80	1322.20	997.99	0.19
Four Mile Wash	Four Mile Wash 3	4.912	Floodplain	3330.00	1087.16	1095.04	1091.99	1095.71	0.002940	6.60	510.69	1022.17	0.43
Four Mile Wash	Four Mile Wash 3	4.912	Floodway	3330.00	1087.16	1095.04	1091.99	1095.71	0.002940	6.60	510.69	1022.17	0.43
Four Mile Wash	Four Mile Wash 3	4.904		Culvert									
Four Mile Wash	Four Mile Wash 3	4.898	Floodplain	3330.00	1087.06	1092.85	1091.57	1093.67	0.004987	7.36	468.78	506.72	0.59
Four Mile Wash	Four Mile Wash 3	4.898	Floodway	3330.00	1087.06	1092.85	1091.57	1093.67	0.004987	7.36	468.78	506.72	0.59
Four Mile Wash	Four Mile Wash 3	4.835	Floodplain	3330.00	1084.21	1091.23	1090.73	1091.58	0.006308	4.54	700.58	1048.87	0.41
Four Mile Wash	Four Mile Wash 3	4.835	Floodway	3330.00	1084.21	1091.23	1090.73	1091.58	0.006308	4.54	700.58	1048.87	0.41
Four Mile Wash	Four Mile Wash 3	4.778	Floodplain	3330.00	1083.27	1089.76	1089.17	1089.99	0.004712	3.88	877.40	784.85	0.36
Four Mile Wash	Four Mile Wash 3	4.778	Floodway	3330.00	1083.27	1089.76	1089.17	1089.99	0.004712	3.88	877.40	784.85	0.36
Four Mile Wash	Four Mile Wash 3	4.719	Floodplain	3330.00	1080.43	1088.05		1088.27	0.005640	4.42	885.74	693.62	0.42
Four Mile Wash	Four Mile Wash 3	4.719	Floodway	3330.00	1080.43	1088.05		1088.27	0.005640	4.42	885.74	693.62	0.42
Four Mile Wash	Four Mile Wash 3	4.651	Floodplain	3330.00	1079.68	1086.52		1086.67	0.003604	3.27	1077.78	732.49	0.35
Four Mile Wash	Four Mile Wash 3	4.651	Floodway	3330.00	1079.68	1086.52		1086.67	0.003604	3.27	1077.78	732.49	0.35
Four Mile Wash	Four Mile Wash 3	4.569	Floodplain	3330.00	1077.46	1084.65		1084.88	0.004838	4.21	889.47	598.05	0.46
Four Mile Wash	Four Mile Wash 3	4.569	Floodway	3330.00	1077.46	1084.65		1084.88	0.004838	4.21	889.47	598.05	0.46
Four Mile Wash	Four Mile Wash 3	4.508	Floodplain	3330.00	1076.08	1083.43		1083.58	0.003431	3.64	1107.13	760.41	0.31
Four Mile Wash	Four Mile Wash 3	4.508	Floodway	3330.00	1076.08	1083.43		1083.58	0.003431	3.64	1107.13	760.41	0.31
Four Mile Wash	Four Mile Wash 3	4.428	Floodplain	3330.00	1074.68	1081.72		1081.91	0.004733	4.05	1040.89	882.96	0.38
Four Mile Wash	Four Mile Wash 3	4.428	Floodway	3330.00	1074.68	1081.72		1081.91	0.004733	4.05	1040.89	882.96	0.38
Four Mile Wash	Four Mile Wash 3	4.354	Floodplain	3330.00	1072.74	1080.29		1080.43	0.003073	3.09	1188.62	928.10	0.29
Four Mile Wash	Four Mile Wash 3	4.354	Floodway	3330.00	1072.74	1080.29		1080.43	0.003073	3.09	1188.62	928.10	0.29
Four Mile Wash	Four Mile Wash 3	4.295	Floodplain	3330.00	1072.06	1077.85	1077.85	1078.46	0.018069	6.76	556.25	498.09	0.74
Four Mile Wash	Four Mile Wash 3	4.295	Floodway	3330.00	1072.06	1077.85	1077.85	1078.46	0.018069	6.76	556.25	498.09	0.74
Four Mile Wash	Four Mile Wash 3	4.273	Floodplain	3330.00	1072.07	1077.11	1076.50	1077.28	0.003319	3.48	1094.47	1121.30	0.31
Four Mile Wash	Four Mile Wash 3	4.273	Floodway	3330.00	1072.07	1077.11	1076.50	1077.28	0.003319	3.48	1094.47	1121.30	0.31
Four Mile Wash	Four Mile Wash 3	4.249	Floodplain	3330.00	1072.14	1076.66	1076.14	1076.81	0.004193	2.76	1085.83	1141.53	0.33
Four Mile Wash	Four Mile Wash 3	4.249	Floodway	3330.00	1072.14	1076.66	1076.14	1076.81	0.004193	2.76	1085.83	1141.53	0.33
Four Mile Wash	Four Mile Wash 3	4.182	Floodplain	3330.00	1070.09	1075.24	1074.80	1075.38	0.004433	3.48	1104.54	1347.92	0.35
Four Mile Wash	Four Mile Wash 3	4.182	Floodway	3330.00	1070.09	1075.24	1074.80	1075.38	0.004433	3.48	1104.54	1347.92	0.35
Four Mile Wash	Four Mile Wash 3	4.104	Floodplain	3330.00	1066.94	1073.33		1073.54	0.005007	4.09	923.21	665.36	0.44
Four Mile Wash	Four Mile Wash 3	4.104	Floodway	3330.00	1066.94	1073.33		1073.54	0.005007	4.09	923.21	665.36	0.44
Four Mile Wash	Four Mile Wash 3	4.018	Floodplain	3330.00	1065.01	1071.22		1071.42	0.004456	3.48	921.14	533.93	0.35

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 3	4.018	Floodway	3330.00	1065.01	1071.22		1071.42	0.004456	3.48	921.14	533.93	0.35
Four Mile Wash	Four Mile Wash 3	3.930	Floodplain	3330.00	1062.15	1068.66		1068.95	0.006390	4.94	783.09	450.44	0.43
Four Mile Wash	Four Mile Wash 3	3.930	Floodway	3330.00	1062.15	1068.66		1068.95	0.006390	4.94	783.09	450.44	0.43
Four Mile Wash	Four Mile Wash 3	3.848	Floodplain	3330.00	1059.49	1066.33		1066.56	0.004780	4.23	864.89	489.28	0.36
Four Mile Wash	Four Mile Wash 3	3.848	Floodway	3330.00	1059.49	1066.33		1066.56	0.004780	4.23	864.89	489.28	0.36
Four Mile Wash	Four Mile Wash 3	3.763	Floodplain	3330.00	1057.77	1063.93		1064.22	0.005814	4.26	790.59	443.10	0.41
Four Mile Wash	Four Mile Wash 3	3.763	Floodway	3330.00	1057.77	1063.93		1064.22	0.005814	4.26	790.59	443.10	0.41
Four Mile Wash	Four Mile Wash 3	3.690	Floodplain	3330.00	1055.70	1062.19		1062.43	0.003773	3.43	847.78	408.55	0.32
Four Mile Wash	Four Mile Wash 3	3.690	Floodway	3330.00	1055.70	1062.19		1062.43	0.003773	3.43	847.78	408.55	0.32
Four Mile Wash	Four Mile Wash 3	3.604	Floodplain	3330.00	1051.96	1059.91		1060.20	0.006533	4.78	769.85	456.38	0.42
Four Mile Wash	Four Mile Wash 3	3.604	Floodway	3330.00	1051.96	1059.91		1060.20	0.006533	4.78	769.85	456.38	0.42
Four Mile Wash	Four Mile Wash 3	3.525	Floodplain	3330.00	1050.51	1057.72		1058.02	0.004253	5.13	774.60	362.63	0.39
Four Mile Wash	Four Mile Wash 3	3.525	Floodway	3330.00	1050.51	1057.72		1058.02	0.004253	5.13	774.60	362.63	0.39
Four Mile Wash	Four Mile Wash 3	3.462	Floodplain	3330.00	1048.11	1055.93		1056.32	0.006262	5.59	676.65	324.86	0.49
Four Mile Wash	Four Mile Wash 3	3.462	Floodway	3330.00	1048.11	1055.93		1056.32	0.006262	5.59	676.65	324.86	0.49
Four Mile Wash	Four Mile Wash 3	3.387	Floodplain	3330.00	1045.59	1054.38		1054.59	0.003072	4.37	935.20	445.15	0.35
Four Mile Wash	Four Mile Wash 3	3.387	Floodway	3330.00	1045.59	1054.38		1054.59	0.003072	4.37	935.20	445.15	0.35
Four Mile Wash	Four Mile Wash 3	3.299	Floodplain	3330.00	1043.41	1051.39	1051.10	1052.00	0.012463	6.44	535.28	277.31	0.58
Four Mile Wash	Four Mile Wash 3	3.299	Floodway	3330.00	1043.41	1051.39	1051.10	1052.00	0.012463	6.44	535.28	277.31	0.58
Four Mile Wash	Four Mile Wash 3	3.233	Floodplain	3330.00	1042.15	1049.75		1049.96	0.002835	4.48	973.19	529.12	0.38
Four Mile Wash	Four Mile Wash 3	3.233	Floodway	3330.00	1042.15	1049.75		1049.96	0.002835	4.48	973.19	529.12	0.38
Four Mile Wash	Four Mile Wash 3	3.192	Floodplain	3330.00	1040.77	1048.99		1049.23	0.004503	4.30	856.97	414.42	0.36
Four Mile Wash	Four Mile Wash 3	3.192	Floodway	3330.00	1040.77	1048.99		1049.23	0.004503	4.30	856.97	414.42	0.36
Four Mile Wash	Four Mile Wash 3	3.147	Floodplain	3330.00	1039.97	1048.00		1048.26	0.004707	4.47	819.18	432.20	0.37
Four Mile Wash	Four Mile Wash 3	3.147	Floodway	3330.00	1039.97	1048.00		1048.26	0.004707	4.47	819.18	432.20	0.37
Four Mile Wash	Four Mile Wash 3	3.074	Floodplain	3330.00	1038.60	1045.96		1046.29	0.005715	4.88	726.27	339.13	0.41
Four Mile Wash	Four Mile Wash 3	3.074	Floodway	3330.00	1038.60	1045.96		1046.29	0.005715	4.88	726.27	339.13	0.41
Four Mile Wash	Four Mile Wash 3	2.997	Floodplain	3330.00	1036.51	1043.87		1044.13	0.004859	4.63	845.93	529.23	0.38
Four Mile Wash	Four Mile Wash 3	2.997	Floodway	3330.00	1036.51	1043.87		1044.13	0.004859	4.63	845.93	529.23	0.38
Four Mile Wash	Four Mile Wash 3	2.919	Floodplain	3330.00	1033.99	1042.29		1042.47	0.003170	3.59	972.48	487.30	0.31
Four Mile Wash	Four Mile Wash 3	2.919	Floodway	3330.00	1033.99	1042.29		1042.47	0.003170	3.59	972.48	487.30	0.31
Four Mile Wash	Four Mile Wash 3	2.850	Floodplain	3330.00	1032.67	1040.50		1040.82	0.006727	5.67	779.15	526.69	0.45
Four Mile Wash	Four Mile Wash 3	2.850	Floodway	3330.00	1032.67	1040.50		1040.82	0.006727	5.67	779.15	526.69	0.45
Four Mile Wash	Four Mile Wash 3	2.762	Floodplain	3330.00	1031.08	1038.46		1038.61	0.003380	3.29	1099.88	703.55	0.30
Four Mile Wash	Four Mile Wash 3	2.762	Floodway	3330.00	1031.08	1038.46		1038.61	0.003380	3.29	1099.88	703.55	0.30
Four Mile Wash	Four Mile Wash 3	2.683	Floodplain	3330.00	1029.44	1036.68		1036.89	0.004913	3.96	908.79	564.73	0.37
Four Mile Wash	Four Mile Wash 3	2.683	Floodway	3330.00	1029.44	1036.68		1036.89	0.004913	3.96	908.79	564.73	0.37
Four Mile Wash	Four Mile Wash 3	2.618	Floodplain	3330.00	1027.58	1035.12		1035.29	0.004220	3.44	1033.06	586.26	0.34
Four Mile Wash	Four Mile Wash 3	2.618	Floodway	3330.00	1027.58	1035.12		1035.29	0.004220	3.44	1033.06	586.26	0.34
Four Mile Wash	Four Mile Wash 3	2.559	Floodplain	3330.00	1025.87	1033.03		1033.40	0.009025	5.19	681.22	416.74	0.49
Four Mile Wash	Four Mile Wash 3	2.559	Floodway	3330.00	1025.87	1033.03		1033.40	0.009025	5.19	681.22	416.74	0.49
Four Mile Wash	Four Mile Wash 3	2.514	Floodplain	3330.00	1024.98	1032.30		1032.42	0.002032	2.98	1206.83	630.11	0.25
Four Mile Wash	Four Mile Wash 3	2.514	Floodway	3330.00	1024.98	1032.30		1032.42	0.002032	2.98	1206.83	630.11	0.25
Four Mile Wash	Four Mile Wash 3	2.484	Floodplain	3330.00	1024.54	1031.76		1032.01	0.003432	4.52	862.14	438.73	0.35
Four Mile Wash	Four Mile Wash 3	2.484	Floodway	3330.00	1024.54	1031.76		1032.01	0.003432	4.52	862.14	438.73	0.35
Four Mile Wash	Four Mile Wash 3	2.454	Floodplain	3590.00	1022.51	1031.10		1031.36	0.004435	4.73	1025.48	932.26	0.37
Four Mile Wash	Four Mile Wash 3	2.454	Floodway	3590.00	1022.51	1031.10		1031.36	0.004435	4.73	1025.48	932.26	0.37
Four Mile Wash	Four Mile Wash 3	2.420	Floodplain	3590.00	1022.12	1030.55		1030.72	0.002784	4.08	1195.56	754.51	0.30
Four Mile Wash	Four Mile Wash 3	2.420	Floodway	3590.00	1022.12	1030.55		1030.72	0.002784	4.08	1195.56	754.51	0.30
Four Mile Wash	Four Mile Wash 3	2.343	Floodplain	3590.00	1020.42	1029.50	1027.74	1029.63	0.002547	3.73	1308.31	928.35	0.27
Four Mile Wash	Four Mile Wash 3	2.343	Floodway	3590.00	1020.42	1029.50	1027.74	1029.63	0.002547	3.73	1308.31	928.35	0.27
Four Mile Wash	Four Mile Wash 3	2.268	Floodplain	3590.00	1018.87	1028.50	1027.42	1028.66	0.002373	3.97	1279.95	893.18	0.28
Four Mile Wash	Four Mile Wash 3	2.268	Floodway	3590.00	1018.87	1028.50	1027.42	1028.66	0.002373	3.97	1279.95	893.18	0.28
Four Mile Wash	Four Mile Wash 3	2.195	Floodplain	3590.00	1017.64	1026.43		1027.07	0.008181	6.56	570.92	172.42	0.51
Four Mile Wash	Four Mile Wash 3	2.195	Floodway	3590.00	1017.64	1026.43		1027.07	0.008181	6.56	570.92	172.42	0.51
Four Mile Wash	Four Mile Wash 3	2.184	Floodplain	3590.00	1017.48	1026.30	1025.22	1026.62	0.005133	5.35	840.78	639.31	0.40
Four Mile Wash	Four Mile Wash 3	2.184	Floodway	3590.00	1017.48	1026.30	1025.22	1026.62	0.005133	5.35	840.78	639.31	0.40
Four Mile Wash	Four Mile Wash 3	2.132	Floodplain	3590.00	1016.58	1024.61	1024.12	1024.94	0.007775	5.98	851.27	631.07	0.47
Four Mile Wash	Four Mile Wash 3	2.132	Floodway	3590.00	1016.58	1024.61	1024.12	1024.94	0.007775	5.98	851.27	631.07	0.47
Four Mile Wash	Four Mile Wash 3	2.060	Floodplain	3590.00	1015.65	1022.66	1021.55	1022.86	0.003851	3.33	1108.24	515.21	0.32
Four Mile Wash	Four Mile Wash 3	2.060	Floodway	3590.00	1015.65	1022.66	1021.55	1022.86	0.003851	3.33	1108.24	515.21	0.32

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 3	1.970	Floodplain	3590.00	1014.33	1020.68		1020.83	0.004946	3.14	1193.47	606.23	0.35
Four Mile Wash	Four Mile Wash 3	1.970	Floodway	3590.00	1014.33	1020.68		1020.83	0.004946	3.14	1193.47	606.23	0.35
Four Mile Wash	Four Mile Wash 3	1.882	Floodplain	3590.00	1012.97	1018.09		1018.28	0.006439	4.00	1108.61	899.09	0.40
Four Mile Wash	Four Mile Wash 3	1.882	Floodway	3590.00	1012.97	1018.09		1018.28	0.006439	4.00	1108.61	899.09	0.40
Four Mile Wash	Four Mile Wash 3	1.792	Floodplain	3590.00	1011.39	1016.23		1016.32	0.002869	2.26	1464.08	861.45	0.29
Four Mile Wash	Four Mile Wash 3	1.792	Floodway	3590.00	1011.39	1016.23		1016.32	0.002869	2.26	1464.08	861.45	0.29
Four Mile Wash	Four Mile Wash 3	1.723	Floodplain	3590.00	1009.51	1015.39		1015.47	0.001909	2.16	1683.45	713.95	0.23
Four Mile Wash	Four Mile Wash 3	1.723	Floodway	3590.00	1009.51	1015.39		1015.47	0.001909	2.16	1683.45	713.95	0.23
Four Mile Wash	Four Mile Wash 3	1.682	Floodplain	3590.00	1009.76	1015.08	1013.13	1015.15	0.001665	2.77	1740.69	1053.58	0.23
Four Mile Wash	Four Mile Wash 3	1.682	Floodway	3590.00	1009.76	1015.08	1013.13	1015.15	0.001665	2.77	1740.69	1053.58	0.23
Four Mile Wash	Four Mile Wash 3	1.635	Floodplain	3590.00	1004.91	1013.65	1013.65	1014.24	0.011302	7.60	643.57	485.67	0.59
Four Mile Wash	Four Mile Wash 3	1.635	Floodway	3590.00	1004.91	1013.65	1013.65	1014.24	0.011302	7.60	643.57	485.67	0.59
Four Mile Wash	Four Mile Wash 3	1.624	Floodplain	3590.00	1008.50	1012.56		1012.61	0.001466	1.87	2094.83	1297.96	0.20
Four Mile Wash	Four Mile Wash 3	1.624	Floodway	3590.00	1008.50	1012.56		1012.61	0.001466	1.87	2094.83	1297.96	0.20
Four Mile Wash	Four Mile Wash 3	1.574	Floodplain	3590.00	1006.47	1012.02		1012.09	0.003083	2.23	1678.22	1493.81	0.27
Four Mile Wash	Four Mile Wash 3	1.574	Floodway	3590.00	1006.47	1012.02		1012.09	0.003083	2.23	1678.22	1493.81	0.27
Four Mile Wash	Four Mile Wash 3	1.531	Floodplain	3590.00	1005.76	1011.05		1011.16	0.005299	2.37	1415.60	1418.08	0.34
Four Mile Wash	Four Mile Wash 3	1.531	Floodway	3590.00	1005.76	1011.05		1011.16	0.005299	2.37	1415.60	1418.08	0.34
Four Mile Wash	Four Mile Wash 3	1.515	Floodplain	3590.00	1008.64	1010.68		1010.89	0.001155	3.89	1057.68	788.82	0.50
Four Mile Wash	Four Mile Wash 3	1.515	Floodway	3590.00	1008.64	1010.68		1010.89	0.001155	3.89	1057.68	788.82	0.50
Four Mile Wash	Four Mile Wash 3	1.491	Floodplain	5520.00	1004.48	1010.30		1010.61	0.003360	3.26	1386.62	757.72	0.41
Four Mile Wash	Four Mile Wash 3	1.491	Floodway	5520.00	1004.48	1010.30		1010.61	0.003360	3.26	1386.62	757.72	0.41
Four Mile Wash	Four Mile Wash 3	1.443	Floodplain	5520.00	1003.20	1009.72		1009.88	0.002641	2.92	1716.83	952.06	0.29
Four Mile Wash	Four Mile Wash 3	1.443	Floodway	5520.00	1003.20	1009.72		1009.88	0.002641	2.92	1716.83	952.06	0.29
Four Mile Wash	Four Mile Wash 4	1.412	Floodplain	3200.00	1002.57	1009.27		1009.41	0.003084	3.63	1094.12	741.27	0.32
Four Mile Wash	Four Mile Wash 4	1.412	Floodway	3200.00	1002.57	1009.27		1009.41	0.003084	3.63	1094.12	741.27	0.32
Four Mile Wash	Four Mile Wash 4	1.353	Floodplain	3200.00	1001.31	1007.72		1008.01	0.006925	4.58	742.17	479.86	0.47
Four Mile Wash	Four Mile Wash 4	1.353	Floodway	3200.00	1001.31	1007.72		1008.01	0.006925	4.58	742.17	479.86	0.47
Four Mile Wash	Four Mile Wash 4	1.310	Floodplain	3200.00	1000.36	1006.87		1007.03	0.002621	3.36	1038.18	567.94	0.28
Four Mile Wash	Four Mile Wash 4	1.310	Floodway	3200.00	1000.36	1006.87		1007.03	0.002621	3.36	1038.18	567.94	0.28
Four Mile Wash	Four Mile Wash 4	1.243	Floodplain	3200.00	998.07	1005.44		1005.69	0.005917	4.70	804.41	556.94	0.39
Four Mile Wash	Four Mile Wash 4	1.243	Floodway	3200.00	998.07	1005.44		1005.69	0.005917	4.70	804.41	556.94	0.39
Four Mile Wash	Four Mile Wash 5	1.187	Floodplain	5520.00	995.93	1005.02		1005.13	0.001089	2.11	2154.75	794.38	0.21
Four Mile Wash	Four Mile Wash 5	1.187	Floodway	5520.00	995.93	1005.02		1005.13	0.001089	2.11	2154.75	794.38	0.21
Four Mile Wash	Four Mile Wash 5	1.154	Floodplain	5520.00	996.19	1004.78		1004.92	0.001501	2.81	1844.06	527.31	0.25
Four Mile Wash	Four Mile Wash 5	1.154	Floodway	5520.00	996.19	1004.78		1004.92	0.001501	2.81	1844.06	527.31	0.25
Four Mile Wash	Four Mile Wash 5	1.120	Floodplain	5520.00	994.62	1003.79		1004.40	0.006728	6.10	881.38	230.23	0.46
Four Mile Wash	Four Mile Wash 5	1.120	Floodway	5520.00	994.62	1003.79		1004.40	0.006728	6.10	881.38	230.23	0.46
Four Mile Wash	Four Mile Wash 5	1.036	Floodplain	5520.00	993.09	1001.40		1001.70	0.004653	4.35	1267.16	622.67	0.41
Four Mile Wash	Four Mile Wash 5	1.036	Floodway	5520.00	993.09	1001.40		1001.70	0.004653	4.35	1267.16	622.67	0.41
Four Mile Wash	Four Mile Wash 5	0.963	Floodplain	5520.00	992.09	999.76		1000.02	0.003988	4.21	1366.18	677.27	0.36
Four Mile Wash	Four Mile Wash 5	0.963	Floodway	5520.00	992.09	999.76		1000.02	0.003987	4.21	1366.26	677.28	0.36
Four Mile Wash	Four Mile Wash 5	0.885	Floodplain	5520.00	990.46	998.64		998.83	0.002417	3.76	1580.29	685.57	0.32
Four Mile Wash	Four Mile Wash 5	0.885	Floodway	5520.00	990.46	998.64		998.83	0.002406	3.75	1582.55	686.17	0.32
Four Mile Wash	Four Mile Wash 5	0.798	Floodplain	5520.00	988.43	997.44	996.06	997.70	0.002573	3.69	1355.92	779.64	0.28
Four Mile Wash	Four Mile Wash 5	0.798	Floodway	5520.00	988.43	997.47	996.06	997.72	0.002482	3.64	1370.68	780.89	0.28
Four Mile Wash	Four Mile Wash 5	0.722	Floodplain	5520.00	987.50	995.46		995.87	0.008053	5.82	1106.46	497.82	0.46
Four Mile Wash	Four Mile Wash 5	0.722	Floodway	5520.00	987.50	995.27		995.77	0.010409	6.45	1013.45	491.66	0.52
Four Mile Wash	Four Mile Wash 5	0.645	Floodplain	5520.00	985.46	993.46		993.65	0.003564	4.17	1724.62	796.52	0.31
Four Mile Wash	Four Mile Wash 5	0.645	Floodway	5520.00	985.46	993.96		994.08	0.001923	3.24	2129.17	823.92	0.23
Four Mile Wash	Four Mile Wash 5	0.579	Floodplain	5520.00	983.93	992.24		992.40	0.003438	4.37	1909.85	1085.70	0.31
Four Mile Wash	Four Mile Wash 5	0.579	Floodway	5520.00	983.93	992.73		993.04	0.004725	5.40	1309.85	339.25	0.37
Four Mile Wash	Four Mile Wash 5	0.505	Floodplain	5520.00	982.48	990.32		990.63	0.006512	5.60	1404.30	658.42	0.42
Four Mile Wash	Four Mile Wash 5	0.505	Floodway	5520.00	982.48	991.13		991.38	0.003967	4.67	1475.61	400.37	0.33
Four Mile Wash	Four Mile Wash 5	0.428	Floodplain	5520.00	980.59	988.49	987.47	988.62	0.003781	3.61	1938.43	1803.32	0.31
Four Mile Wash	Four Mile Wash 5	0.428	Floodway	5520.00	980.59	989.16	987.54	989.45	0.005799	4.93	1327.44	460.75	0.39
Four Mile Wash	Four Mile Wash 5	0.371	Floodplain	5520.00	977.62	987.63	985.44	987.79	0.002157	4.14	2027.15	1576.95	0.26
Four Mile Wash	Four Mile Wash 5	0.371	Floodway	5520.00	977.62	988.30	985.21	988.49	0.001987	4.20	1823.93	544.59	0.25
Four Mile Wash	Four Mile Wash 5	0.325	Floodplain	5520.00	976.54	987.09	984.70	987.26	0.002351	3.95	1880.83	1932.22	0.27
Four Mile Wash	Four Mile Wash 5	0.325	Floodway	5520.00	976.54	987.85	984.56	988.02	0.001932	3.73	1763.56	494.60	0.24
Four Mile Wash	Four Mile Wash 5	0.253	Floodplain	5520.00	974.54	984.72	984.52	985.51	0.014257	8.11	891.40	1032.01	0.62
Four Mile Wash	Four Mile Wash 5	0.253	Floodway	5520.00	974.54	985.45	985.45	986.49	0.015248	8.72	776.78	388.54	0.65

HEC-RAS Plan: Current mode (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Four Mile Wash	Four Mile Wash 5	0.163	Floodplain	5520.00	972.25	983.01	981.33	983.14	0.002233	3.70	2056.12	1103.69	0.27
Four Mile Wash	Four Mile Wash 5	0.163	Floodway	5520.00	972.25	984.00	981.25	984.16	0.001883	3.78	1843.76	412.95	0.25
Four Mile Wash	Four Mile Wash 5	0.079	Floodplain	5520.00	971.27	981.29	979.37	981.70	0.004706	5.92	1282.43	900.56	0.42
Four Mile Wash	Four Mile Wash 5	0.079	Floodway	5520.00	971.27	982.27	979.59	982.84	0.004701	6.37	951.05	151.18	0.42
Four Mile - W2	Four Mile - W2	0.259	Floodplain	2320.00	1004.60	1008.98		1009.41	0.004730	5.36	460.66	177.47	0.52
Four Mile - W2	Four Mile - W2	0.259	Floodway	2320.00	1004.60	1008.98		1009.41	0.004730	5.36	460.66	177.47	0.52
Four Mile - W2	Four Mile - W2	0.181	Floodplain	2320.00	1001.83	1007.31		1007.54	0.004094	4.41	633.76	463.45	0.52
Four Mile - W2	Four Mile - W2	0.181	Floodway	2320.00	1001.83	1007.31		1007.54	0.004094	4.41	633.76	463.45	0.52
Four Mile - W2	Four Mile - W2	0.138	Floodplain	2320.00	1000.78	1006.84		1006.97	0.001575	3.45	900.98	523.60	0.32
Four Mile - W2	Four Mile - W2	0.138	Floodway	2320.00	1000.78	1006.84		1006.97	0.001575	3.45	900.98	523.60	0.32
Four Mile - W2	Four Mile - W2	0.084	Floodplain	2320.00	999.63	1005.37		1006.05	0.008966	7.28	359.94	165.68	0.71
Four Mile - W2	Four Mile - W2	0.084	Floodway	2320.00	999.63	1005.37		1006.05	0.008966	7.28	359.94	165.68	0.71
Four Mile - W1	Four Mile - W1	0.175	Floodplain	250.00	1237.91	1239.59	1239.48	1239.89	0.010480	4.50	62.34	96.33	0.74
Four Mile - W1	Four Mile - W1	0.175	Floodway	250.00	1237.91	1239.59	1239.48	1239.89	0.010480	4.50	62.34	96.33	0.74
Four Mile - W1	Four Mile - W1	0.112	Floodplain	250.00	1234.90	1237.32	1236.89	1237.44	0.005351	2.76	90.91	105.26	0.51
Four Mile - W1	Four Mile - W1	0.112	Floodway	250.00	1234.90	1237.32	1236.89	1237.44	0.005351	2.76	90.91	105.26	0.51
Four Mile - W1	Four Mile - W1	0.077	Floodplain	250.00	1233.38	1235.24	1235.24	1235.58	0.024941	4.67	53.61	86.15	1.03
Four Mile - W1	Four Mile - W1	0.077	Floodway	250.00	1233.38	1235.24	1235.24	1235.58	0.024941	4.67	53.61	86.15	1.03
Four Mile - W1	Four Mile - W1	0.030	Floodplain	250.00	1231.39	1234.42		1234.43	0.000119	0.81	322.93	159.71	0.09
Four Mile - W1	Four Mile - W1	0.030	Floodway	250.00	1231.39	1234.42		1234.43	0.000119	0.81	322.93	159.71	0.09

T1N-R6W-S17 FW

HEC-RAS Plan: S17 FW Analysis River: T1N-R6W-S17 Reach: T1N-R6W-S17

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T1N-R6W-S17	2.156	PF 1	1114.15	1026.19	1029.81		1030.06	0.004187	4.04	291.38	138.24	0.43
T1N-R6W-S17	2.156	PF 2	1114.15	1026.19	1030.04		1030.28	0.003685	3.91	285.23	97.76	0.40
T1N-R6W-S17	2.091	PF 1	1114.15	1025.41	1028.25		1028.48	0.005074	3.99	300.93	164.32	0.46
T1N-R6W-S17	2.091	PF 2	1114.15	1025.41	1029.24		1029.38	0.001839	3.02	373.16	114.48	0.29
T1N-R6W-S17	2.016	PF 1	1114.15	1023.33	1026.38		1026.56	0.004491	3.76	337.84	207.47	0.44
T1N-R6W-S17	2.016	PF 2	1114.15	1023.33	1027.25		1027.92	0.009549	6.52	170.79	53.65	0.64
T1N-R6W-S17	1.962	PF 1	1114.15	1022.27	1025.08		1025.28	0.004451	3.86	310.42	167.53	0.44
T1N-R6W-S17	1.962	PF 2	1114.15	1022.27	1026.02		1026.28	0.003377	4.06	274.35	81.80	0.39
T1N-R6W-S17	1.891	PF 1	1114.15	1021.00	1023.96		1024.07	0.002467	3.00	425.81	233.19	0.33
T1N-R6W-S17	1.891	PF 2	1114.15	1021.00	1024.77		1025.02	0.003349	4.13	277.68	84.32	0.39
T1N-R6W-S17	1.824	PF 1	1114.15	1019.08	1022.83		1023.03	0.003584	3.87	336.75	193.36	0.40
T1N-R6W-S17	1.824	PF 2	1114.15	1019.08	1023.82		1024.04	0.002325	3.71	299.98	77.90	0.33
T1N-R6W-S17	1.734	PF 1	1114.15	1017.30	1021.46	1020.59	1021.55	0.002730	2.77	496.35	486.20	0.33
T1N-R6W-S17	1.734	PF 2	1114.15	1017.30	1022.07	1021.30	1022.37	0.005890	4.77	265.68	131.24	0.51
T1N-R6W-S17	1.670	PF 1	1114.15	1016.30	1019.15	1019.03	1019.64	0.019780	5.68	200.94	168.32	0.85
T1N-R6W-S17	1.670	PF 2	1114.15	1016.30	1019.50	1019.02	1019.84	0.010142	4.68	238.26	135.96	0.62
T1N-R6W-S17	1.660	PF 1	1114.15	1016.95	1019.27	1018.28	1019.44	0.000701	3.34	338.10	428.40	0.40
T1N-R6W-S17	1.660	PF 2	1114.15	1016.95	1019.51	1018.37	1019.70	0.000699	3.49	318.80	129.76	0.39
T1N-R6W-S17	1.646	PF 1	1114.15	1014.66	1019.20		1019.35	0.001852	3.20	362.87	150.97	0.30
T1N-R6W-S17	1.646	PF 2	1114.15	1014.66	1019.47		1019.61	0.001610	3.04	367.01	97.03	0.28
T1N-R6W-S17	1.563	PF 1	1114.15	1012.98	1017.92		1018.24	0.003530	4.73	272.88	147.94	0.42
T1N-R6W-S17	1.563	PF 2	1114.15	1012.98	1018.26		1018.60	0.003340	4.68	238.12	55.73	0.40
T1N-R6W-S17	1.483	PF 1	1114.15	1009.92	1016.11		1016.57	0.004483	5.44	205.70	52.45	0.47
T1N-R6W-S17	1.483	PF 2	1114.15	1009.92	1016.16		1016.77	0.005789	6.28	177.43	35.69	0.50
T1N-R6W-S17	1.436	PF 1	1114.15	1010.54	1014.15		1014.85	0.011522	6.72	166.51	64.02	0.72
T1N-R6W-S17	1.436	PF 2	1114.15	1010.54	1014.77		1015.24	0.006135	5.48	203.25	60.55	0.53
T1N-R6W-S17	1.383	PF 1	1114.15	1009.64	1013.68		1013.76	0.001468	2.48	502.40	245.77	0.27
T1N-R6W-S17	1.383	PF 2	1114.15	1009.64	1014.12		1014.26	0.001872	3.06	367.14	122.40	0.31
T1N-R6W-S17	1.301	PF 1	1114.15	1007.77	1012.93	1010.80	1013.09	0.001721	3.19	362.71	322.60	0.30
T1N-R6W-S17	1.301	PF 2	1114.15	1007.77	1013.52	1010.80	1013.64	0.001117	2.79	399.84	98.30	0.24
T1N-R6W-S17	1.255	PF 1	1114.15	1005.93	1012.24	1010.42	1012.55	0.002783	4.68	268.58	302.86	0.38
T1N-R6W-S17	1.255	PF 2	1114.15	1005.93	1012.81	1010.34	1013.19	0.003147	4.93	225.88	43.27	0.38
T1N-R6W-S17	1.205	PF 1	1114.15	1005.17	1011.44	1009.23	1011.78	0.003005	4.90	291.77	833.51	0.39
T1N-R6W-S17	1.205	PF 2	1114.15	1005.17	1012.02	1009.23	1012.39	0.002850	4.89	227.68	41.88	0.37
T1N-R6W-S17	1.137	PF 1	1114.15	1003.87	1009.67	1008.64	1010.24	0.006474	6.45	238.20	291.59	0.56
T1N-R6W-S17	1.137	PF 2	1114.15	1003.87	1010.25	1008.58	1010.92	0.006106	6.53	170.55	36.21	0.53
T1N-R6W-S17	1.097	PF 1	1114.15	1003.96	1009.07		1009.18	0.003183	3.31	472.10	416.47	0.38
T1N-R6W-S17	1.097	PF 2	1114.15	1003.96	1009.38		1009.63	0.005105	4.47	286.76	146.90	0.49
T1N-R6W-S17	1.050	PF 1	1114.15	1002.92	1008.17	1006.82	1008.37	0.002799	3.63	329.48	160.02	0.37
T1N-R6W-S17	1.050	PF 2	1114.15	1002.92	1008.66	1006.81	1008.82	0.001941	3.26	341.73	100.34	0.31
T1N-R6W-S17	1.037	PF 1	1114.15	1003.23	1007.94	1006.84	1008.16	0.003299	4.13	341.83	432.95	0.40
T1N-R6W-S17	1.037	PF 2	1114.15	1003.23	1008.26	1006.71	1008.62	0.004168	4.78	233.31	63.31	0.44
T1N-R6W-S17	1.020	PF 1	1114.15	1003.13	1006.57	1006.57	1007.50	0.019891	7.85	149.74	83.96	0.92
T1N-R6W-S17	1.020	PF 2	1114.15	1003.13	1007.38		1008.07	0.008681	6.64	168.23	49.70	0.63
T1N-R6W-S17	0.959	PF 1	1114.15	1000.61	1006.04		1006.09	0.001075	2.25	618.91	337.92	0.23
T1N-R6W-S17	0.959	PF 2	1114.15	1000.61	1006.74		1006.89	0.001610	3.12	366.89	105.06	0.29
T1N-R6W-S17	0.892	PF 1	1114.15	1000.17	1005.04		1005.40	0.004732	5.19	278.60	232.65	0.49
T1N-R6W-S17	0.892	PF 2	1114.15	1000.17	1005.55		1005.99	0.004371	5.31	209.79	52.18	0.47
T1N-R6W-S17	0.812	PF 1	1114.15	998.80	1003.23		1003.46	0.004279	4.12	308.18	162.53	0.45
T1N-R6W-S17	0.812	PF 2	1114.15	998.80	1003.63		1003.98	0.004976	4.76	234.11	76.40	0.48
T1N-R6W-S17	0.727	PF 1	1114.15	997.80	1001.32		1001.59	0.004230	4.36	282.18	134.75	0.45
T1N-R6W-S17	0.727	PF 2	1114.15	997.80	1001.52		1001.86	0.004565	4.64	240.37	76.15	0.46

HEC-RAS Plan: S17 FW Analysis River: T1N-R6W-S17 Reach: T1N-R6W-S17 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T1N-R6W-S17	0.659	PF 1	1114.15	995.71	1000.46		1000.56	0.001907	2.71	447.18	225.52	0.29
T1N-R6W-S17	0.659	PF 2	1114.15	995.71	1000.68		1000.80	0.001839	2.78	400.98	138.17	0.29
T1N-R6W-S17	0.581	PF 1	1114.15	994.80	999.59		999.75	0.002050	3.37	355.33	124.35	0.32
T1N-R6W-S17	0.581	PF 2	1114.15	994.80	999.71		999.92	0.002425	3.65	305.41	83.69	0.34
T1N-R6W-S17	0.526	PF 1	1114.15	993.91	997.93		998.63	0.008782	6.83	174.33	67.64	0.65
T1N-R6W-S17	0.526	PF 2	1114.15	993.91	998.24		998.81	0.006405	6.18	190.75	59.32	0.56
T1N-R6W-S17	0.437	PF 1	1114.15	991.71	995.82		996.03	0.003427	3.77	307.46	129.70	0.40
T1N-R6W-S17	0.437	PF 2	1114.15	991.71	996.40		996.69	0.003118	4.28	260.55	66.17	0.38
T1N-R6W-S17	0.392	PF 1	1114.15	990.24	995.53		995.60	0.001024	2.44	554.88	249.33	0.23
T1N-R6W-S17	0.392	PF 2	1114.15	990.24	996.04		996.18	0.001379	2.99	372.62	89.43	0.26
T1N-R6W-S17	0.310	PF 1	1114.15	988.64	994.77		994.98	0.002104	3.89	319.63	108.44	0.34
T1N-R6W-S17	0.310	PF 2	1114.15	988.64	995.05		995.35	0.002677	4.39	253.84	58.61	0.37
T1N-R6W-S17	0.243	PF 1	1114.15	986.75	993.44		993.84	0.005289	5.14	248.98	188.51	0.46
T1N-R6W-S17	0.243	PF 2	1114.15	986.75	993.58		994.00	0.005637	5.19	214.51	52.73	0.45
T1N-R6W-S17	0.161	PF 1	1114.15	985.52	990.09	989.15	990.68	0.010403	6.21	184.65	448.48	0.61
T1N-R6W-S17	0.161	PF 2	1114.15	985.52	990.12	989.15	990.71	0.010629	6.19	180.04	55.52	0.61
T1N-R6W-S17	0.112	PF 1	1114.15	982.83	987.47	986.67	988.05	0.009920	6.09	183.89	331.86	0.63
T1N-R6W-S17	0.112	PF 2	1114.15	982.83	987.53	986.69	988.09	0.009676	5.97	186.55	62.98	0.61
T1N-R6W-S17	0.083	PF 1	1114.15	981.28	985.49	985.09	986.29	0.013238	7.25	162.69	211.55	0.76
T1N-R6W-S17	0.083	PF 2	1114.15	981.28	985.58	985.05	986.38	0.012705	7.20	154.83	53.45	0.75
T1N-R6W-S17	0.024	PF 1	1114.15	979.37	984.32	982.61	984.54	0.002677	3.81	309.37	204.59	0.36
T1N-R6W-S17	0.024	PF 2	1114.15	979.37	984.42	982.61	984.65	0.002677	3.82	291.59	82.53	0.36

T1N-R6W-S17 & S18 FP

HEC-RAS Plan: FP Analysis

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T1N-R6W-S18	S18 - NORTH	2.237	PF 1	5902.00	1051.46	1058.39	1057.54	1058.60	0.002624	4.93	1832.48	1361.77	0.37
T1N-R6W-S18	S18 - NORTH	2.236		Lat Struct									
T1N-R6W-S18	S18 - NORTH	2.163	PF 1	5868.07	1049.71	1056.92		1057.30	0.004826	6.68	1413.55	966.25	0.58
T1N-R6W-S18	S18 - NORTH	2.162		Lat Struct									
T1N-R6W-S18	S18 - NORTH	2.161		Lat Struct									
T1N-R6W-S18	S18 - NORTH	2.097	PF 1	5232.48	1048.89	1055.10		1055.46	0.005330	6.43	1244.72	833.32	0.51
T1N-R6W-S18	S18 - NORTH	2.096		Lat Struct									
T1N-R6W-S18	S18 - NORTH	2.095		Lat Struct									
T1N-R6W-S18	S18 - NORTH	2.021	PF 1	4173.20	1047.28	1053.31		1053.49	0.003919	3.91	1234.18	799.23	0.37
T1N-R6W-S18	S18 - NORTH	2.020		Lat Struct									
T1N-R6W-S18	S18 - NORTH	1.953	PF 1	3914.28	1046.16	1052.27	1051.43	1052.40	0.002300	3.53	1398.50	871.17	0.31
T1N-R6W-S18	S18 - NORTH	1.888	PF 1	3913.80	1044.68	1050.13		1050.87	0.010013	8.64	653.90	427.10	0.72
T1N-R6W-S18	S18 - NORTH	1.819	PF 1	3913.80	1043.42	1048.90	1048.32	1049.05	0.002578	4.19	1329.74	1104.12	0.37
T1N-R6W-S18	S18 - NORTH	1.754	PF 1	4768.20	1041.15	1047.25	1047.15	1047.53	0.008181	5.82	1216.23	1770.80	0.58
T1N-R6W-S18	S18 - NORTH	1.694	PF 1	4768.20	1040.17	1045.98	1045.45	1046.09	0.002785	3.49	1819.68	1732.54	0.33
T1N-R6W-S18	S18 - NORTH	1.632	PF 1	4768.20	1038.69	1044.43		1044.72	0.007299	6.03	1292.79	1406.58	0.55
T1N-R6W-S18	S18 - NORTH	1.552	PF 1	4768.20	1036.88	1042.76		1042.88	0.002810	4.20	1940.02	1766.00	0.36
T1N-R6W-S18	S18 - NORTH	1.471	PF 1	4768.20	1035.68	1040.89	1040.66	1041.12	0.006325	5.77	1433.86	1511.60	0.51
T1N-R6W-S18	S18 - NORTH	1.411	PF 1	4768.20	1034.32	1039.11	1038.41	1039.36	0.004580	5.50	1398.32	1444.17	0.51
T1N-R6W-S18	S18 - NORTH	1.360	PF 1	4768.20	1033.07	1038.12	1037.32	1038.23	0.003172	3.43	1816.27	1727.88	0.33
T1N-R6W-S18	S18 - NORTH	1.274	PF 1	1507.20	1030.70	1035.72		1036.42	0.007319	6.72	234.11	119.25	0.61
T1N-R6W-S18	S18 - NORTH	1.208	PF 1	1507.20	1028.95	1034.41	1033.72	1034.59	0.003371	3.89	489.58	283.93	0.37
T1N-R6W-S18	S18 - NORTH	1.177	PF 1	1320.20	1028.49	1032.28	1032.28	1033.45	0.020853	8.71	155.67	73.25	0.94
T1N-R6W-S18	S18 - NORTH	1.152	PF 1	1320.20	1027.94	1031.56		1031.68	0.002852	2.86	463.88	229.68	0.31
T1N-R6W-S18	S18 - SOUTH	1.097	PF 1	206.05	1027.22	1029.97		1030.08	0.002713	2.58	79.84	37.15	0.31
T1N-R6W-S18	S18 - SOUTH	1.036	PF 1	206.05	1026.47	1028.81		1028.93	0.004803	2.88	71.54	38.54	0.37
T1N-R6W-S18	S18 - SOUTH	0.994	PF 1	206.05	1025.35	1027.76		1027.90	0.004587	2.95	69.82	39.09	0.39
T1N-R6W-S18	S18 - SOUTH	0.948	PF 1	206.05	1024.28	1026.75		1026.89	0.003687	2.99	70.68	39.43	0.37
T1N-R6W-S18	S18 - SOUTH	0.916	PF 1	206.05	1023.64	1026.12		1026.23	0.004251	2.63	78.32	45.08	0.35
T1N-R6W-S18	S18 - SOUTH	0.877	PF 1	206.05	1022.76	1025.50		1025.58	0.002341	2.26	91.23	48.28	0.29
T1N-R6W-S18	S18 - SOUTH	0.832	PF 1	206.05	1022.28	1024.92	1023.66	1025.02	0.002350	2.63	82.23	45.82	0.31
T1N-R6W-S18	S18 - SOUTH	0.741	PF 1	206.05	1020.23	1021.65	1021.65	1022.21	0.030742	5.97	34.72	33.17	1.00
T1N-R6W-S18	S18 - SOUTH	0.691	PF 1	206.05	1019.70	1021.09	1020.41	1021.15	0.000507	1.96	105.93	334.15	0.31
T1N-R6W-S18	S18 - SOUTH	0.679	PF 1	356.05	1017.39	1020.83	1019.56	1021.05	0.003755	3.73	97.94	42.23	0.41
T1N-R6W-S18	S18 - SOUTH	0.606	PF 1	356.05	1015.80	1019.77		1019.94	0.002186	3.32	114.39	42.02	0.32
T1N-R6W-S18	S18 - SOUTH	0.522	PF 1	356.05	1014.50	1018.09		1018.35	0.006871	4.19	91.21	45.66	0.45
T1N-R6W-S18	S18 - SOUTH	0.493	PF 1	356.05	1014.63	1017.52		1017.60	0.003265	2.21	162.85	84.00	0.27
T1N-R6W-S18	S18 - SOUTH	0.421	PF 1	356.05	1012.96	1015.86		1015.98	0.005883	2.93	130.91	92.75	0.35
T1N-R6W-S18	S18 - SOUTH	0.339	PF 1	356.05	1010.80	1014.45	1012.80	1014.48	0.002208	1.64	280.33	1494.04	0.21
T1N-R6W-S18	S18 - SOUTH	0.256	PF 1	356.05	1007.79	1012.81	1011.42	1012.99	0.005633	3.60	121.22	922.66	0.36
T1N-R6W-S18	S18 - SOUTH	0.165	PF 1	356.05	1003.06	1005.99	1005.99	1006.79	0.053874	7.14	49.85	126.48	1.00
T1N-R6W-S18	S18 - SOUTH	0.068	PF 1	356.05	1000.00	1002.59	1001.54	1002.68	0.002534	2.48	149.58	94.20	0.32
T1N-R6W-S18	S18 - SOUTH	0.011	PF 1	356.05	999.53	1001.17	1000.72	1001.38	0.008604	3.66	98.46	79.01	0.55
T1N-R6W-S17	T1N-R6W-S17	2.156	PF 1	1114.15	1026.19	1029.81		1030.06	0.004187	4.04	291.38	138.24	0.43
T1N-R6W-S17	T1N-R6W-S17	2.091	PF 1	1114.15	1025.41	1028.25		1028.48	0.005074	3.99	300.93	164.32	0.46

HEC-RAS Plan: FP Analysis (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T1N-R6W-S17	T1N-R6W-S17	2.016	PF 1	1114.15	1023.33	1026.38		1026.56	0.004491	3.76	337.84	207.47	0.44
T1N-R6W-S17	T1N-R6W-S17	1.962	PF 1	1114.15	1022.27	1025.08		1025.28	0.004451	3.86	310.42	167.53	0.44
T1N-R6W-S17	T1N-R6W-S17	1.891	PF 1	1114.15	1021.00	1023.96		1024.07	0.002467	3.00	425.81	233.19	0.33
T1N-R6W-S17	T1N-R6W-S17	1.824	PF 1	1114.15	1019.08	1022.83		1023.03	0.003584	3.87	336.75	193.36	0.40
T1N-R6W-S17	T1N-R6W-S17	1.734	PF 1	1114.15	1017.30	1021.46	1020.59	1021.55	0.002730	2.77	496.35	486.20	0.33
T1N-R6W-S17	T1N-R6W-S17	1.670	PF 1	1114.15	1016.30	1019.15	1019.03	1019.64	0.019780	5.68	200.94	168.32	0.85
T1N-R6W-S17	T1N-R6W-S17	1.660	PF 1	1114.15	1016.95	1019.27	1018.28	1019.44	0.000701	3.34	338.10	428.40	0.40
T1N-R6W-S17	T1N-R6W-S17	1.646	PF 1	1114.15	1014.66	1019.20		1019.35	0.001852	3.20	362.87	150.97	0.30
T1N-R6W-S17	T1N-R6W-S17	1.563	PF 1	1114.15	1012.98	1017.92		1018.24	0.003530	4.73	272.88	147.94	0.42
T1N-R6W-S17	T1N-R6W-S17	1.483	PF 1	1114.15	1009.92	1016.11		1016.57	0.004483	5.44	205.70	52.45	0.47
T1N-R6W-S17	T1N-R6W-S17	1.436	PF 1	1114.15	1010.54	1014.15		1014.85	0.011522	6.72	166.51	64.02	0.72
T1N-R6W-S17	T1N-R6W-S17	1.383	PF 1	1114.15	1009.64	1013.68		1013.76	0.001468	2.48	502.40	245.77	0.27
T1N-R6W-S17	T1N-R6W-S17	1.301	PF 1	1114.15	1007.77	1012.93	1010.80	1013.09	0.001721	3.19	362.70	322.60	0.30
T1N-R6W-S17	T1N-R6W-S17	1.255	PF 1	1114.15	1005.93	1012.24	1010.44	1012.55	0.002783	4.68	268.57	302.86	0.38
T1N-R6W-S17	T1N-R6W-S17	1.205	PF 1	1114.15	1005.17	1011.44	1009.23	1011.78	0.003005	4.90	291.75	833.49	0.39
T1N-R6W-S17	T1N-R6W-S17	1.137	PF 1	1114.15	1003.87	1009.67	1008.63	1010.24	0.006474	6.45	238.20	291.59	0.56
T1N-R6W-S17	T1N-R6W-S17	1.097	PF 1	1114.15	1003.96	1009.07		1009.18	0.003183	3.31	472.10	416.47	0.38
T1N-R6W-S17	T1N-R6W-S17	1.050	PF 1	1114.15	1002.92	1008.17	1006.82	1008.37	0.002799	3.63	329.49	160.03	0.37
T1N-R6W-S17	T1N-R6W-S17	1.037	PF 1	1114.15	1003.23	1007.94	1006.84	1008.16	0.003299	4.13	341.84	432.96	0.40
T1N-R6W-S17	T1N-R6W-S17	1.020	PF 1	1114.15	1003.13	1006.57	1006.57	1007.50	0.019893	7.85	149.73	83.96	0.92
T1N-R6W-S17	T1N-R6W-S17	0.959	PF 1	1114.15	1000.61	1006.04		1006.09	0.001075	2.25	618.91	337.92	0.23
T1N-R6W-S17	T1N-R6W-S17	0.892	PF 1	1114.15	1000.17	1005.04		1005.40	0.004732	5.19	278.60	232.65	0.49
T1N-R6W-S17	T1N-R6W-S17	0.812	PF 1	1114.15	998.80	1003.23		1003.46	0.004279	4.12	308.18	162.53	0.45
T1N-R6W-S17	T1N-R6W-S17	0.727	PF 1	1114.15	997.80	1001.32		1001.59	0.004230	4.36	282.18	134.75	0.45
T1N-R6W-S17	T1N-R6W-S17	0.659	PF 1	1114.15	995.71	1000.46		1000.56	0.001907	2.71	447.18	225.52	0.29
T1N-R6W-S17	T1N-R6W-S17	0.581	PF 1	1114.15	994.80	999.59		999.75	0.002050	3.37	355.33	124.35	0.32
T1N-R6W-S17	T1N-R6W-S17	0.526	PF 1	1114.15	993.91	997.93		998.63	0.008782	6.83	174.33	67.64	0.65
T1N-R6W-S17	T1N-R6W-S17	0.437	PF 1	1114.15	991.71	995.82		996.03	0.003427	3.77	307.46	129.70	0.40
T1N-R6W-S17	T1N-R6W-S17	0.392	PF 1	1114.15	990.24	995.53		995.60	0.001024	2.44	554.88	249.33	0.23
T1N-R6W-S17	T1N-R6W-S17	0.310	PF 1	1114.15	988.64	994.77		994.98	0.002104	3.89	319.63	108.44	0.34
T1N-R6W-S17	T1N-R6W-S17	0.243	PF 1	1114.15	986.75	993.44		993.84	0.005289	5.14	248.98	188.51	0.46
T1N-R6W-S17	T1N-R6W-S17	0.161	PF 1	1114.15	985.52	990.09	989.16	990.68	0.010403	6.21	184.65	448.48	0.61
T1N-R6W-S17	T1N-R6W-S17	0.112	PF 1	1114.15	982.83	987.47	986.67	988.05	0.009920	6.09	183.89	331.86	0.63
T1N-R6W-S17	T1N-R6W-S17	0.083	PF 1	1114.15	981.28	985.49	985.08	986.29	0.013238	7.25	162.69	211.55	0.76
T1N-R6W-S17	T1N-R6W-S17	0.024	PF 1	1114.15	979.37	984.32	982.61	984.54	0.002677	3.81	309.37	204.59	0.36

T1N-R6W-S05S

HEC-RAS Plan: Plan 01 River: T1S_R6W_S05S Reach: Reach 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach 1	1.726	Floodplain	3950.00	955.20	962.68		962.82	0.005052	3.30	1405.21	1018.69	0.34
Reach 1	1.726	Floodway	3950.00	955.20	963.61		963.85	0.004950	3.89	1015.65	313.67	0.35
Reach 1	1.647	Floodplain	3950.00	954.92	960.54		960.70	0.005091	4.12	1323.28	1022.61	0.36
Reach 1	1.647	Floodway	3950.00	954.92	961.45		961.75	0.005119	4.65	903.14	301.08	0.37
Reach 1	1.564	Floodplain	3950.00	952.58	958.21		958.38	0.005633	3.81	1270.72	985.74	0.37
Reach 1	1.564	Floodway	3950.00	952.58	959.18		959.46	0.005270	4.32	943.92	311.13	0.37
Reach 1	1.490	Floodplain	3950.00	951.92	956.18		956.32	0.004547	3.40	1343.63	946.49	0.33
Reach 1	1.490	Floodway	3950.00	951.92	957.12		957.37	0.005010	4.11	997.57	422.34	0.35
Reach 1	1.399	Floodplain	3950.00	949.34	954.05		954.19	0.004360	3.34	1360.31	934.78	0.32
Reach 1	1.399	Floodway	3950.00	949.34	955.04		955.25	0.003929	3.66	1086.17	439.86	0.31
Reach 1	1.313	Floodplain	3950.00	947.04	952.11		952.25	0.004235	3.48	1357.93	959.07	0.32
Reach 1	1.313	Floodway	3950.00	947.04	953.04		953.31	0.004664	4.16	945.03	346.13	0.34
Reach 1	1.244	Floodplain	3950.00	946.10	950.77	949.98	950.89	0.003185	3.05	1471.99	1296.22	0.28
Reach 1	1.244	Floodway	3950.00	946.10	951.73	950.39	951.93	0.002986	3.40	1122.21	391.24	0.28
Reach 1	1.138	Floodplain	3950.00	943.56	948.64	947.99	948.81	0.006190	3.46	1261.51	1134.02	0.39
Reach 1	1.138	Floodway	3950.00	943.56	949.55	948.28	949.83	0.006137	4.22	925.34	303.75	0.40
Reach 1	1.054	Floodplain	3950.00	940.45	945.94		946.10	0.005733	3.93	1364.07	1270.52	0.37
Reach 1	1.054	Floodway	3950.00	940.45	946.93		947.20	0.005102	4.39	968.80	360.65	0.37
Reach 1	0.994	Floodplain	3950.00	938.34	943.95		944.05	0.004715	3.26	1564.51	1444.65	0.33
Reach 1	0.994	Floodway	3950.00	938.34	944.89		945.16	0.005135	4.01	955.83	357.31	0.36
Reach 1	0.884	Floodplain	3950.00	936.10	941.47		941.56	0.003643	2.78	1691.98	1313.03	0.29
Reach 1	0.884	Floodway	3950.00	936.10	942.43		942.62	0.003427	3.21	1157.66	365.27	0.29
Reach 1	0.805	Floodplain	3950.00	934.29	939.47	938.75	939.65	0.005549	3.25	1207.90	842.40	0.35
Reach 1	0.805	Floodway	3950.00	934.29	940.36	939.07	940.66	0.006247	4.18	904.14	294.28	0.39
Reach 1	0.715	Floodplain	3950.00	932.03	937.31		937.46	0.003864	3.01	1272.54	683.70	0.30
Reach 1	0.715	Floodway	3950.00	932.03	938.03		938.28	0.003960	3.50	993.44	341.42	0.31
Reach 1	0.626	Floodplain	3950.00	929.94	935.18		935.38	0.005215	3.90	1121.60	625.14	0.36
Reach 1	0.626	Floodway	3950.00	929.94	936.03		936.29	0.004653	4.23	966.89	342.80	0.35
Reach 1	0.554	Floodplain	3950.00	927.69	933.75		933.90	0.003543	2.81	1322.88	814.23	0.28
Reach 1	0.554	Floodway	3950.00	927.69	934.62		934.86	0.003715	3.36	1017.90	344.49	0.30
Reach 1	0.465	Floodplain	3950.00	926.48	931.64		931.98	0.006149	3.99	884.84	409.86	0.38
Reach 1	0.465	Floodway	3950.00	926.48	932.52		932.96	0.005555	4.33	757.13	218.05	0.37
Reach 1	0.387	Floodplain	3950.00	925.28	929.50	928.79	929.67	0.004748	2.62	1260.92	1049.06	0.31
Reach 1	0.387	Floodway	3950.00	925.28	930.40	929.26	930.73	0.004913	3.33	892.86	308.34	0.34
Reach 1	0.320	Floodplain	3950.00	923.62	927.54	927.28	927.80	0.005545	6.12	1303.17	3917.73	0.71
Reach 1	0.320	Floodway	3950.00	923.62	928.45	927.93	928.94	0.004812	6.99	888.02	370.78	0.69
Reach 1	0.258	Floodplain	3950.00	922.71	926.11	925.38	926.23	0.003749	2.53	1471.16	4128.61	0.29
Reach 1	0.258	Floodway	3950.00	922.71	926.99	925.86	927.20	0.005005	3.58	1063.35	415.60	0.35
Reach 1	0.197	Floodplain	3950.00	921.52	924.93	924.15	925.05	0.003884	2.46	1441.73	4021.57	0.29
Reach 1	0.197	Floodway	3950.00	921.52	925.81	924.25	925.98	0.003017	2.70	1228.31	412.01	0.27
Reach 1	0.132	Floodplain	3950.00	920.50	923.63	922.62	923.77	0.004336	2.67	1336.71	3559.07	0.31
Reach 1	0.132	Floodway	3950.00	920.50	924.54	923.17	924.75	0.004934	3.53	1125.76	385.47	0.34
Reach 1	0.066	Floodplain	3950.00	919.66	922.53	921.38	922.62	0.003004	2.03	1681.72	3595.43	0.25
Reach 1	0.066	Floodway	3950.00	919.66	923.36	921.68	923.48	0.003001	2.54	1424.08	481.23	0.26

T1N-R6W-S08

HEC-RAS Plan: Plan1 River: T1S_R6W_S08 Reach: T1S_R6W_S08 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T1S_R6W_S08	5.334	Floodplain	1030.00	998.74	1001.01		1001.11	0.005546	3.66	488.39	1055.56	0.58
T1S_R6W_S08	5.273	Floodplain	1030.00	997.23	999.38		999.46	0.004363	3.22	465.87	713.64	0.51
T1S_R6W_S08	5.203	Floodplain	1030.00	992.19	996.94	996.94	997.59	0.005211	6.93	206.69	201.55	0.64
T1S_R6W_S08	5.121	Floodplain	1030.00	990.15	994.95	993.45	995.24	0.002170	4.67	342.05	767.67	0.42
T1S_R6W_S08	5.047	Floodplain	1030.00	988.36	993.37	993.37	993.94	0.005073	6.63	231.28	694.07	0.63
T1S_R6W_S08	4.961	Floodplain	1030.00	986.83	991.45	990.01	991.78	0.002413	4.79	275.22	715.70	0.45
T1S_R6W_S08	4.897	Floodplain	1030.00	985.30	990.66	990.19	990.92	0.002629	4.89	315.54	767.07	0.46
T1S_R6W_S08	4.829	Floodplain	1030.00	984.92	989.18	988.60	989.53	0.006102	5.17	254.86	1002.56	0.65
T1S_R6W_S08	4.763	Floodplain	1030.00	983.43	987.02	987.02	987.48	0.005521	5.93	240.78	776.41	0.65
T1S_R6W_S08	4.696	Floodplain	1030.00	981.84	985.83	984.63	985.94	0.002570	3.75	424.32	689.89	0.43
T1S_R6W_S08	4.621	Floodplain	1030.00	980.15	983.82	983.76	984.22	0.008317	6.02	232.72	388.08	0.75
T1S_R6W_S08	4.546	Floodplain	1030.00	978.10	981.93		982.15	0.003614	4.77	329.29	309.57	0.52
T1S_R6W_S08	4.484	Floodplain	1030.00	976.40	980.75		980.95	0.004235	5.46	357.02	388.41	0.54
T1S_R6W_S08	4.404	Floodplain	1030.00	974.75	978.48	978.23	978.73	0.007970	4.30	261.82	271.21	0.68
T1S_R6W_S08	4.321	Floodplain	1030.00	973.78	976.05		976.25	0.004615	4.06	302.59	246.82	0.55
T1S_R6W_S08	4.239	Floodplain	770.00	973.29	974.34		974.41	0.003366	2.47	362.50	469.29	0.43
T1S_R6W_S08	4.162	Floodplain	770.00	971.42	972.42		972.56	0.006785	3.23	263.85	359.15	0.60
T1S_R6W_S08	4.070	Floodplain	770.00	968.80	970.04		970.15	0.003834	2.86	327.30	471.45	0.47
T1S_R6W_S08	3.980	Floodplain	770.00	967.56	968.64		968.69	0.002423	2.10	429.90	597.15	0.37
T1S_R6W_S08	3.888	Floodplain	770.00	965.72	966.50	966.36	966.64	0.009154	3.10	265.83	455.06	0.67
T1S_R6W_S08	3.798	Floodplain	770.00	963.25	964.60		964.65	0.002329	2.20	417.91	530.48	0.37
T1S_R6W_S08	3.710	Floodplain	770.00	961.11	961.88	961.88	962.12	0.023984	4.07	197.61	436.13	1.03
T1S_R6W_S08	3.631	Floodplain	770.00	958.39	960.51		960.55	0.001354	1.63	501.66	535.05	0.28
T1S_R6W_S08	3.558	Floodplain	1080.00	957.92	959.45	959.20	959.56	0.004596	3.18	443.31	1010.42	0.52
T1S_R6W_S08	3.471	Floodplain	1080.00	956.20	957.69	957.42	957.77	0.003563	3.08	527.24	812.97	0.47
T1S_R6W_S08	3.394	Floodplain	1080.00	954.84	956.40	955.91	956.45	0.002619	2.11	655.49	928.25	0.38
T1S_R6W_S08	3.300	Floodplain	1080.00	953.28	954.95		955.02	0.003283	2.92	652.76	833.66	0.45
T1S_R6W_S08	3.216	Floodplain	1080.00	952.24	953.77		953.80	0.002239	1.59	802.97	994.29	0.25
T1S_R6W_S08	3.149	Floodplain	1080.00	950.84	952.48		952.53	0.007108	1.90	656.89	1043.84	0.36
T1S_R6W_S08	3.077	Floodplain	1080.00	949.18	951.18	950.50	951.21	0.002068	1.68	860.53	1095.11	0.25
T1S_R6W_S08	3.001	Floodplain	1080.00	947.95	948.85		949.00	0.036258	3.38	367.47	792.75	0.76
T1S_R6W_S08	2.916	Floodplain	1080.00	946.05	948.09		948.10	0.000619	0.66	1445.83	1890.24	0.11
T1S_R6W_S08	2.836	Floodplain	5000.00	945.33	947.09		947.19	0.003315	2.18	2020.38	2059.04	0.34
T1S_R6W_S08	2.783	Floodplain	5000.00	943.80	946.18		946.29	0.003137	1.50	1901.60	1679.18	0.29
T1S_R6W_S08	2.725	Floodplain	5000.00	942.90	945.13		945.25	0.003626	1.49	1813.74	1729.03	0.30
T1S_R6W_S08	2.653	Floodplain	5000.00	941.09	943.91		944.04	0.003684	2.43	1754.77	1576.45	0.38
T1S_R6W_S08	2.568	Floodplain	5000.00	940.72	942.37		942.51	0.003453	2.71	1726.08	1469.02	0.40
T1S_R6W_S08	2.515	Floodplain	5000.00	939.86	941.42		941.54	0.003234	1.86	1889.81	1783.45	0.31
T1S_R6W_S08	2.443	Floodplain	5000.00	939.07	940.39		940.50	0.002380	1.42	1999.55	1439.31	0.23
T1S_R6W_S08	2.381	Floodplain	5000.00	936.48	939.32		939.48	0.004909	2.09	1636.48	1321.07	0.32
T1S_R6W_S08	2.319	Floodplain	5000.00	935.93	938.07		938.19	0.003012	2.83	1819.49	1358.34	0.38
T1S_R6W_S08	2.251	Floodplain	5000.00	933.65	936.72		936.87	0.003638	2.82	1625.71	1273.22	0.44
T1S_R6W_S08	2.195	Floodplain	5000.00	933.40	935.81		935.93	0.002488	2.18	1881.92	1564.47	0.34
T1S_R6W_S08	2.142	Floodplain	5000.00	932.54	934.97		935.10	0.003361	2.78	1793.43	1572.40	0.43
T1S_R6W_S08	2.083	Floodplain	5000.00	930.42	933.91		934.04	0.003461	3.53	1821.10	1689.97	0.45
T1S_R6W_S08	2.016	Floodplain	5000.00	929.85	932.62		932.74	0.004169	3.16	1797.73	1761.97	0.48
T1S_R6W_S08	1.936	Floodplain	5000.00	928.61	930.86		931.01	0.004517	3.23	1634.10	1423.59	0.50
T1S_R6W_S08	1.860	Floodplain	5000.00	927.79	929.45		929.55	0.003361	2.84	1911.06	1697.41	0.41
T1S_R6W_S08	1.812	Floodplain	5000.00	926.20	928.43		928.56	0.004608	3.44	1783.75	1761.40	0.46
T1S_R6W_S08	1.770	Floodplain	5000.00	923.20	927.46		927.58	0.004005	3.24	1842.36	1689.26	0.43
T1S_R6W_S08	1.696	Floodplain	5000.00	921.34	925.91		926.04	0.003935	3.48	1804.37	1542.95	0.46
T1S_R6W_S08	1.638	Floodplain	5000.00	920.58	924.63		924.77	0.004198	3.30	1677.14	1272.40	0.44
T1S_R6W_S08	1.562	Floodplain	5000.00	920.35	923.40		923.51	0.002344	2.41	1973.55	1281.12	0.33
T1S_R6W_S08	1.492	Floodplain	5000.00	919.97	922.48		922.61	0.002540	2.65	1746.13	1077.35	0.35
T1S_R6W_S08	1.447	Floodplain	5000.00	919.14	922.06		922.16	0.001685	2.36	2063.24	1160.61	0.29
T1S_R6W_S08	1.363	Floodplain	5000.00	917.85	920.74		921.15	0.012421	3.65	987.52	821.70	0.58
T1S_R6W_S08	1.310	Floodplain	5000.00	916.32	919.51		919.68	0.003579	2.56	1537.47	927.08	0.30
T1S_R6W_S08	1.270	Floodplain	5000.00	915.45	918.92		919.09	0.002778	2.96	1554.10	823.09	0.35
T1S_R6W_S08	1.198	Floodplain	5000.00	915.26	917.93		918.08	0.002277	2.23	1599.96	724.28	0.24
T1S_R6W_S08	1.111	Floodplain	6760.00	913.13	916.53		916.75	0.003177	3.92	1792.45	849.92	0.43
T1S_R6W_S08	1.043	Floodplain	6760.00	911.77	915.60		915.74	0.002140	3.24	2259.17	1162.41	0.36
T1S_R6W_S08	0.977	Floodplain	6760.00	910.58	914.61		914.78	0.003564	3.32	2047.95	1223.15	0.39
T1S_R6W_S08	0.893	Floodplain	7630.00	909.98	913.39		913.53	0.002470	2.74	2534.97	1376.64	0.30
T1S_R6W_S08	0.821	Floodplain	7630.00	908.02	912.29		912.48	0.003127	3.37	2241.08	1202.36	0.36
T1S_R6W_S08	0.748	Floodplain	7630.00	906.62	910.61		910.90	0.005614	4.15	1844.25	1149.52	0.45
T1S_R6W_S08	0.692	Floodplain	7630.00	905.35	910.14		910.22	0.001067	1.99	3370.01	1472.96	0.21
T1S_R6W_S08	0.620	Floodplain	7630.00	905.25	909.74		909.81	0.001028	1.91	3506.23	1304.92	0.19
T1S_R6W_S08	0.558	Floodplain	7630.00	904.89	909.28		909.37	0.001732	2.33	3296.29	1251.21	0.22
T1S_R6W_S08	0.468	Floodplain	7630.00	905.21	908.40		908.48	0.001953	2.28	3248.15	1153.68	0.23
T1S_R6W_S08	0.421	Floodplain	7630.00	904.31	907.72		907.87	0.003586	3.22	2458.78	1042.45	0.32
T1S_R6W_S08	0.352	Floodplain	7630.00	902.88	907.00	905.63	907.09	0.001517	1.87	3241.35	3249.79	0.19
T1S_R6W_S08	0.301	Floodplain	7630.00	901.73	906.63	904.92	906.72	0.001184	1.85	3290.93	2852.09	0.17
T1S_R6W_S08	0.234	Floodplain	7630.00	898.87	906.33	904.06	906.40	0.000718	1.92	3912.65	2614.05	0.14
T1S_R6W_S08	0.180	Floodplain	7630.00	900.80	906.07	903.76	906.16	0.000891	1.77	3277.51	2193.47	0.15
T1S_R6W_S08	0.142	Floodplain	7630.00	899.78	905.83	903.71	905.96	0.001237	2.19	2708.35	2091.19	0.19
T1S_R6W_S08	0.106	Floodplain	7630.00	898.98	905.52	903.10	905.70	0.001501	2.46	2359.97	1938.44	0.20
T1S_R6W_S08	0.053	Floodplain	7630.00	893.46	904.96	900.81	905.18	0.002003	4.09	2072.70	578.54	0.25

T1S-R6W-S27

HEC-RAS Plan: Current mode Profile: Floodplain

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R6W-S22S	T2N-R6W-S22S	0.353	Floodplain	550.00	1136.25	1137.12	1136.86	1137.19	0.004526	2.16	270.64	531.74	0.47
T2N-R6W-S22S	T2N-R6W-S22S	0.281	Floodplain	550.00	1134.38	1135.07		1135.13	0.006733	2.07	290.24	745.17	0.54
T2N-R6W-S22S	T2N-R6W-S22S	0.201	Floodplain	550.00	1132.38	1133.07		1133.10	0.003347	1.72	356.17	717.92	0.40
T2N-R6W-S22S	T2N-R6W-S22S	0.106	Floodplain	550.00	1130.14	1130.57		1130.63	0.007402	1.87	268.07	639.34	0.54
T1S-R6W-S27	T1S-R6W-S27	13.620	Floodplain	780.00	1127.08	1128.55	1128.20	1128.58	0.002425	1.61	549.76	940.51	0.31
T1S-R6W-S27	T1S-R6W-S27	13.539	Floodplain	780.00	1125.41	1126.21	1126.18	1126.35	0.020039	2.72	262.04	755.88	0.74
T1S-R6W-S27	T1S-R6W-S27	13.474	Floodplain	780.00	1123.90	1125.53	1124.56	1125.54	0.000775	0.84	918.86	1010.59	0.13
T1S-R6W-S27	T1S-R6W-S27	13.468	Floodplain	780.00	1124.69	1125.29	1125.29	1125.45	0.033112	2.31	272.38	928.39	0.67
T1S-R6W-S27	T1S-R6W-S27	13.461	Floodplain	780.00	1123.98	1124.51	1124.51	1124.71	0.006469	3.66	224.65	723.42	0.93
T1S-R6W-S27	T1S-R6W-S27	13.453	Floodplain	780.00	1123.48	1124.36	1124.07	1124.43	0.004313	2.17	372.32	578.98	0.46
T1S-R6W-S27	T1S-R6W-S27	13.369	Floodplain	780.00	1121.56	1122.56	1122.25	1122.62	0.004047	2.23	374.69	696.35	0.43
T1S-R6W-S27	T1S-R6W-S27	13.279	Floodplain	780.00	1118.66	1119.74		1119.88	0.008718	3.25	264.96	435.10	0.65
T1S-R6W-S27	T1S-R6W-S27	13.189	Floodplain	780.00	1116.07	1117.51	1117.12	1117.57	0.003131	2.08	390.83	573.56	0.35
T1S-R6W-S27	T1S-R6W-S27	13.105	Floodplain	780.00	1114.54	1115.29		1115.40	0.008290	2.60	284.12	464.33	0.58
T1S-R6W-S27	T1S-R6W-S27	13.018	Floodplain	780.00	1112.42	1113.27		1113.32	0.002786	1.32	464.33	753.98	0.32
T1S-R6W-S27	T1S-R6W-S27	12.952	Floodplain	830.00	1111.01	1112.16	1111.67	1112.20	0.003963	1.51	537.26	852.28	0.27
T1S-R6W-S27	T1S-R6W-S27	12.944	Floodplain	830.00	1110.88	1111.92		1111.97	0.007470	1.94	447.35	583.73	0.37
T1S-R6W-S27	T1S-R6W-S27	12.857	Floodplain	830.00	1108.59	1109.65		1109.69	0.003284	1.65	525.08	726.98	0.32
T1S-R6W-S27	T1S-R6W-S27	12.769	Floodplain	830.00	1106.16	1107.38		1107.44	0.007204	1.85	411.14	703.64	0.39
T1S-R6W-S27	T1S-R6W-S27	12.687	Floodplain	830.00	1103.80	1105.63		1105.67	0.002658	1.48	549.53	654.96	0.27
T1S-R6W-S27	T1S-R6W-S27	12.597	Floodplain	830.00	1101.69	1103.33		1103.42	0.010739	2.39	343.51	526.27	0.46
T1S-R6W-S27	T1S-R6W-S27	12.508	Floodplain	830.00	1099.26	1101.40	1100.91	1101.44	0.002269	1.74	534.36	755.58	0.30
T1S-R6W-S27	T1S-R6W-S27	12.426	Floodplain	830.00	1096.51	1099.83	1098.44	1100.00	0.004993	3.32	252.26	257.80	0.36
T1S-R6W-S27	T1S-R6W-S27	12.422		Culvert									
T1S-R6W-S27	T1S-R6W-S27	12.408	Floodplain	850.00	1096.18	1099.54	1098.18	1099.88	0.002823	4.66	182.38	55.46	0.45
T1S-R6W-S27	T1S-R6W-S27	12.405	Floodplain	850.00	1096.38	1099.51		1099.80	0.003315	4.35	195.53	81.41	0.49
T1S-R6W-S27	T1S-R6W-S27	12.403	Floodplain	850.00	1096.29	1099.32	1098.33	1099.72	0.003883	5.10	166.70	60.38	0.54
T1S-R6W-S27	T1S-R6W-S27	12.398		Culvert									
T1S-R6W-S27	T1S-R6W-S27	12.386	Floodplain	850.00	1095.66	1098.32	1098.10	1099.13	0.015356	7.24	117.44	53.46	0.86
T1S-R6W-S27	T1S-R6W-S27	12.350	Floodplain	850.00	1095.23	1097.12	1096.73	1097.23	0.004605	2.85	331.37	450.26	0.44
T1S-R6W-S27	T1S-R6W-S27	12.267	Floodplain	850.00	1092.73	1095.16	1094.80	1095.24	0.004688	2.52	375.01	455.64	0.43
T1S-R6W-S27	T1S-R6W-S27	12.202	Floodplain	850.00	1091.13	1093.39	1093.10	1093.49	0.005479	2.55	346.71	620.11	0.46
T1S-R6W-S27	T1S-R6W-S27	12.119	Floodplain	850.00	1089.36	1091.30	1091.00	1091.37	0.004428	1.95	411.47	596.32	0.39
T1S-R6W-S27	T1S-R6W-S27	12.043	Floodplain	850.00	1087.52	1089.43		1089.51	0.005207	2.29	388.67	522.95	0.42
T1S-R6W-S27	T1S-R6W-S27	11.957	Floodplain	850.00	1085.36	1087.35	1086.99	1087.41	0.004077	1.97	449.99	1079.46	0.36
T1S-R6W-S27	T1S-R6W-S27	11.879	Floodplain	850.00	1083.21	1085.17	1084.90	1085.24	0.007475	2.38	409.66	803.78	0.46
T1S-R6W-S27	T1S-R6W-S27	11.787	Floodplain	850.00	1080.84	1082.76	1082.31	1082.80	0.003528	1.46	542.01	865.28	0.28
T1S-R6W-S27	T1S-R6W-S27	11.699	Floodplain	850.00	1079.20	1080.76	1080.42	1080.81	0.005669	1.95	449.34	656.26	0.40
T1S-R6W-S27	T1S-R6W-S27	11.609	Floodplain	850.00	1077.34	1078.75		1078.80	0.003336	1.90	450.57	473.92	0.33
T1S-R6W-S27	T1S-R6W-S27	11.525	Floodplain	850.00	1075.57	1077.17		1077.22	0.003840	1.80	472.82	414.18	0.28
T1S-R6W-S27	T1S-R6W-S27	11.429	Floodplain	850.00	1073.66	1074.87		1074.93	0.005454	1.81	422.61	518.00	0.34
T1S-R6W-S27	T1S-R6W-S27	11.349	Floodplain	850.00	1071.26	1073.04		1073.09	0.003639	1.62	484.89	521.75	0.28
T1S-R6W-S27	T1S-R6W-S27	11.262	Floodplain	850.00	1068.61	1071.16		1071.27	0.004355	2.76	320.20	308.16	0.44
T1S-R6W-S27	T1S-R6W-S27	11.170	Floodplain	850.00	1065.52	1069.00		1069.12	0.004395	2.99	300.04	277.52	0.47
T1S-R6W-S27	T1S-R6W-S27	11.099	Floodplain	850.00	1063.99	1067.03		1067.17	0.006637	2.51	287.03	318.77	0.40
T1S-R6W-S27	T1S-R6W-S27	11.018	Floodplain	850.00	1062.20	1065.21		1065.27	0.003166	1.93	426.48	425.77	0.27
T1S-R6W-S27	T1S-R6W-S27	10.966	Floodplain	850.00	1061.48	1064.12		1064.21	0.004837	2.46	338.68	233.02	0.33
T1S-R6W-S27	T1S-R6W-S27	10.917	Floodplain	850.00	1060.46	1062.59		1062.70	0.007232	2.68	318.37	251.96	0.40
T1S-R6W-S27	T1S-R6W-S27	10.824	Floodplain	850.00	1058.15	1060.10		1060.15	0.003827	1.69	476.02	500.08	0.28
T1S-R6W-S27	T1S-R6W-S27	10.742	Floodplain	850.00	1056.35	1058.35		1058.40	0.004146	1.81	502.37	633.92	0.29
T1S-R6W-S27	T1S-R6W-S27	10.665	Floodplain	850.00	1054.90	1056.82		1056.87	0.003359	1.59	468.42	486.91	0.26
T1S-R6W-S27	T1S-R6W-S27	10.611	Floodplain	850.00	1053.22	1055.62		1055.68	0.005722	1.93	433.46	477.19	0.33
T1S-R6W-S27	T1S-R6W-S27	10.539	Floodplain	850.00	1050.99	1053.62		1053.70	0.004189	2.21	381.12	385.16	0.37
T1S-R6W-S27	T1S-R6W-S27	10.497	Floodplain	850.00	1049.69	1052.89	1051.99	1052.97	0.002753	2.24	385.24	253.07	0.30
T1S-R6W-S27	T1S-R6W-S27	10.422	Floodplain	850.00	1048.19	1050.44		1050.67	0.019119	3.65	223.59	333.41	0.74
T1S-R6W-S27	T1S-R6W-S27	10.338	Floodplain	850.00	1046.73	1049.30	1048.40	1049.34	0.001071	1.55	543.42	444.19	0.22
T1S-R6W-S27	T1S-R6W-S27	10.280	Floodplain	850.00	1044.21	1048.99	1047.26	1049.02	0.000966	1.43	575.29	749.43	0.16
T1S-R6W-S27	T1S-R6W-S27	10.270	Floodplain	850.00	1047.05	1048.64	1048.29	1048.92	0.002094	4.23	198.79	822.25	0.63
T1S-R6W-S27	T1S-R6W-S27	10.258	Floodplain	850.00	1044.67	1047.74	1047.62	1048.54	0.037155	7.17	118.52	99.23	0.92
T1S-R6W-S27	T1S-R6W-S27	10.214	Floodplain	850.00	1044.84	1045.93	1045.48	1046.01	0.004008	2.27	379.40	1881.65	0.40
T1S-R6W-S27	T1S-R6W-S27	10.163	Floodplain	850.00	1043.81	1044.79	1044.41	1044.86	0.004313	2.07	421.86	1583.27	0.40
T1S-R6W-S27	T1S-R6W-S27	10.093	Floodplain	850.00	1042.70	1043.47	1043.16	1043.51	0.003332	1.45	564.84	2289.57	0.33
T1S-R6W-S27	T1S-R6W-S27	9.998	Floodplain	850.00	1040.29	1041.29	1040.96	1041.34	0.005017	1.63	471.61	1887.96	0.40
T1S-R6W-S27	T1S-R6W-S27	9.941	Floodplain	850.00	1039.17	1039.81	1039.57	1039.88	0.005973	1.54	433.11	1183.32	0.42
T1S-R6W-S27	T1S-R6W-S27	9.886	Floodplain	850.00	1037.51	1038.53	1038.16	1038.57	0.003530	1.22	562.33	1243.24	0.32
T1S-R6W-S27	T1S-R6W-S27	9.826	Floodplain	850.00	1036.42	1037.31	1037.07	1037.35	0.004416	1.74	593.56	1570.63	0.38
T1S-R6W-S27	T1S-R6W-S27	9.783	Floodplain	850.00	1035.83	1036.51	1036.23	1036.53	0.003053	1.31	717.98	1847.01	0.31
T1S-R6W-S27	T1S-R6W-S27	9.742	Floodplain	850.00	1035.11	1036.04	1035.57	1036.05	0.001878	0.75	922.17	1730.53	0.18
T1S-R6W-S27	T1S-R6W-S27	9.736	Floodplain	850.00	1035.19	1035.76	1035.76	1035.91	0.015121	1.73	296.48	980.89	0.61
T1S-R6W-S27	T1S-R6W-S27	9.722	Floodplain	850.00	1034.44	1034.94	1034.76	1034.98	0.004124	1.23	557.71	1856.10	0.34
T1S-R6W-S27	T1S-R6W-S27	9.664	Floodplain	850.00	1032.80	1033.59	1033.31	1033.64	0.004587	1.57	478.18	1263.95	0.38
T1S-R6W-S27	T1S-R6W-S27	9.581	Floodplain	850.00	1030.96	1031.34	1031.11	1031.40	0.005641	1.20	473.18	1103.94	0.38
T1S-R6W-S27	T1S-R6W-S27	9.488	Floodplain	850.00	1029.12	1029.30		1029.33	0.003020	0.46	712.41	1846.50	0.24
T1S-R6W-S27	T1S-R6W-S27	9.397	Floodplain	850.00	1026.89	1027.33	1027.18	1027.37	0.005891	1.23	576.63	1988.16	0.39
T1S-R6W-S27	T1S-R6W-S27	9.318	Floodplain	850.00	1024.74	1025.54	1025.30	1025.58	0.003350	1.68	620.88	1889.00	0.34
T1S-R6W-S27	T1S-R6W-S27	9.234	Floodplain	850.00	1022.97	1024.06	1023.77	1024.09	0.003290	1.49	586.43	1473.85	0.33
T1S-R6W-S27	T1S-R6W-S27	9.229	Floodplain	850.00	1023.17	1023.80	1023.80	1023.96	0.005745	3.58	281.39	847.92	0.89
T1S-R6W-S27	T1S-R6W-S27	9.218	Floodplain	850.00	1022.50	1023.27	1023.03	1023.33	0.005722	2.05	468.33	1041.70	0.44
T1S-R6W-S27	T1S-R6W-S27	9.150	Floodplain	850.00	1020.56	1021.46		1021.50	0.004468	1.65	509.98	1057.29	0.39
T1S-R6W-S27	T1S-R6W-S27	9.071	Floodplain	850.00	1018.18	1019.32	1019.11	1019.38	0.005741	2.12	450.43	922.73	0.48
T1S-R6W-S27	T1S-R6W-S27	9.011	Floodplain	850.00	1016.45	1017.79		1017.84	0.004000	1.99	507.43	980.12	0.42
T1S-R6W-S27	T1S-R6W-S27	8.932	Floodplain	850.00	1014.75	1016.06		1016.11	0.004423	1.89	521.29	1096.55	0.39
T1S-R6W-S27	T1S-R6W-S27	8.879	Floodplain	850.00	1013.82	1014.84		1014.89	0.004171	2.03	550.62	1132.51	0.39
T1S-R6W-S27	T1S-R6W-S27	8.829	Floodplain	850.00	1012.63	1013.75		1013.79	0.004611	1.59	565.63	927.79	0.30
T1S-R6W-S27	T1S-R6W-S27	8.774	Floodplain	850.00	1011.27	1012.70		1012.75	0.003128	1.89	524.24	717.44	0.33
T1S-R6W-S27	T1S-R6W-S27	8.725	Floodplain	850.00	1010.34	1011.76		1011.82	0.004291	1.98	438.80	502.08	0.36
T1S-R6W-S27	T1S-R6W-S27	8.667	Floodplain	850.00	1009.29	1010.51		1010.59	0.003684	2.40	380.20	486.46	0.45
T1S-R6W-S27	T1S-R6W-S27	8.606	Floodplain	850.00	1007.60	1009.26		1009.31	0.004234	1.86	468.99	488.44	0.29
T1S-R6W-S27	T1S-R6W-S27	8.526	Floodplain	850.00	1006.04	1007.55		1007.59	0.003958	1.80	492.88	514.85	0.28
T1S-R6W-S27	T1S-R6W-S27	8.467	Floodplain	850.00	1004.33	1006.06	1005.48	1006.14	0.005980	2.16	367.73	445.68	0.36
T1S-R6W-S27	T1S-R6W-S27	8.421	Floodplain	850.00	1003.88	1004.93	1004.48	1004.98	0.004741	1.59	467.23	834.94	0.30
T1S-R6W-S27	T1S-R6W-S27	8.326	Floodplain	850.00	1001.42	1002.54		1002.61	0.004850	2.32	427.93	689.04	0.43

HEC-RAS Plan: Current mode Profile: Floodplain (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T1S-R6W-S27	T1S-R6W-S27	8.261	Floodplain	850.00	1000.09	1001.31		1001.35	0.002911	1.86	534.69	800.54	0.32
T1S-R6W-S27	T1S-R6W-S27	8.171	Floodplain	850.00	998.53	999.50	999.43	999.66	0.004308	3.26	282.71	726.60	0.78
T1S-R6W-S27	T1S-R6W-S27	8.135	Floodplain	850.00	997.21	998.63		998.69	0.005859	2.01	439.12	700.50	0.42
T1S-R6W-S27	T1S-R6W-S27	8.074	Floodplain	850.00	995.62	997.50		997.52	0.002432	1.26	673.71	796.41	0.22
T1S-R6W-S27	T1S-R6W-S27	8.016	Floodplain	850.00	994.00	996.90	996.17	996.93	0.001584	1.39	778.61	859.28	0.20
T1S-R6W-S27	T1S-R6W-S27	7.920	Floodplain	1090.00	992.33	993.98	993.98	994.20	0.042712	4.08	315.92	675.97	0.85
T1S-R6W-S27	T1S-R6W-S27	7.886	Floodplain	1090.00	992.14	993.55		993.57	0.000236	1.22	907.81	843.39	0.20
T1S-R6W-S27	T1S-R6W-S27	7.874	Floodplain	570.00	991.65	993.48		993.54	0.005309	1.99	291.93	484.96	0.43
T1S-R6W-S27	T1S-R6W-S27	7.844	Floodplain	570.00	991.19	992.80		992.85	0.003507	1.96	343.91	607.65	0.39
T1S-R6W-S27	T1S-R6W-S27	7.774	Floodplain	570.00	990.04	991.67	991.16	991.70	0.002811	1.38	435.15	677.78	0.25
T1S-R6W-S27	T1S-R6W-S27	7.703	Floodplain	570.00	988.60	990.34	990.06	990.43	0.004233	2.47	252.61	573.05	0.47
T1S-R6W-S27	T1S-R6W-S27	7.630	Floodplain	570.00	987.44	988.85	988.60	988.90	0.003913	1.86	347.00	910.52	0.40
T1S-R6W-S27	T1S-R6W-S27	7.542	Floodplain	570.00	985.92	986.99	986.75	987.02	0.004533	1.11	423.96	905.56	0.27
T1S-R6W-S27	T1S-R6W-S27	7.458	Floodplain	570.00	983.79	984.88		984.92	0.005149	1.20	392.89	919.86	0.29
T1S-R6W-S27	T1S-R6W-S27	7.374	Floodplain	570.00	982.32	982.90		982.95	0.003398	2.67	381.99	911.60	0.68
T1S-R6W-S27	T1S-R6W-S27	7.293	Floodplain	570.00	979.90	981.52		981.54	0.003561	1.32	418.50	771.12	0.26
T1S-R6W-S27	T1S-R6W-S27	7.229	Floodplain	570.00	979.07	980.04	979.86	980.10	0.006187	1.02	324.85	820.51	0.29
T1S-R6W-S27	T1S-R6W-S27	7.155	Floodplain	570.00	976.45	978.21	977.85	978.25	0.003794	1.12	369.96	988.47	0.33
T1S-R6W-S27	T1S-R6W-S27	7.110	Floodplain	570.00	975.65	976.98	976.81	977.03	0.008888	2.12	301.13	845.90	0.56
T1S-R6W-S27	T1S-R6W-S27	7.081	Floodplain	570.00	975.21	976.65	976.17	976.66	0.001119	0.83	650.18	1103.57	0.16
T1S-R6W-S27	T1S-R6W-S27	7.039	Floodplain	570.00	974.18	976.61	974.93	976.61	0.000077	0.40	1508.80	903.41	0.05
T1S-R6W-S27	T1S-R6W-S27	6.954	Floodplain	570.00	973.19	976.53		976.55	0.000454	1.07	629.49	517.60	0.11
T1S-R6W-S27	T1S-R6W-S27	6.886	Floodplain	990.00	972.78	976.47		976.48	0.000159	0.72	1334.06	682.44	0.07
T1S-R6W-S27	T1S-R6W-S27	6.812	Floodplain	990.00	970.70	976.32		976.35	0.001049	1.73	681.09	563.20	0.17
T1S-R6W-S27	T1S-R6W-S27	6.725	Floodplain	990.00	970.17	975.66		975.79	0.001414	3.37	434.65	374.71	0.34
T1S-R6W-S27	T1S-R6W-S27	6.667	Floodplain	990.00	969.10	974.65		975.14	0.003077	5.62	178.29	53.81	0.50
T1S-R6W-S27	T1S-R6W-S27	6.613	Floodplain	990.00	968.44	973.12	972.26	973.92	0.006005	7.17	137.99	40.90	0.69

T2N-R6W-S02

HEC-RAS Plan: S02 River: T2N-R6W-S02 Reach: T2N-R6W-S02 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R6W-S02	2.437	Floodplain	1010.00	1314.80	1318.16		1318.44	0.006932	3.82	242.44	145.45	0.49
T2N-R6W-S02	2.342	Floodplain	1010.00	1312.01	1315.49		1315.63	0.004495	3.07	347.34	207.96	0.37
T2N-R6W-S02	2.257	Floodplain	1010.00	1309.77	1312.59		1312.81	0.009531	3.78	276.25	171.76	0.48
T2N-R6W-S02	2.174	Floodplain	1010.00	1306.19	1310.17		1310.29	0.003858	2.86	371.53	213.93	0.33
T2N-R6W-S02	2.076	Floodplain	1010.00	1302.09	1306.62		1306.95	0.012472	4.71	226.53	123.78	0.56
T2N-R6W-S02	2.003	Floodplain	1010.00	1299.77	1303.74		1303.89	0.005395	3.19	322.40	156.16	0.37
T2N-R6W-S02	1.907	Floodplain	1050.00	1295.28	1300.91		1301.09	0.005846	3.51	306.78	159.65	0.40
T2N-R6W-S02	1.811	Floodplain	1050.00	1292.56	1296.74		1296.97	0.011718	3.81	273.34	181.50	0.51
T2N-R6W-S02	1.718	Floodplain	1050.00	1289.04	1292.53	1291.84	1292.67	0.006931	3.16	345.96	255.82	0.40
T2N-R6W-S02	1.634	Floodplain	1050.00	1285.65	1288.84		1289.10	0.009627	4.23	259.19	182.97	0.52
T2N-R6W-S02	1.550	Floodplain	1050.00	1283.42	1285.60	1285.10	1285.70	0.006131	2.69	419.74	407.82	0.43
T2N-R6W-S02	1.475	Floodplain	1050.00	1280.59	1282.22		1282.33	0.013356	2.91	398.77	545.04	0.53
T2N-R6W-S02	1.428	Floodplain	1050.00	1278.90	1280.71	1280.05	1280.78	0.003634	1.93	527.50	698.24	0.28
T2N-R6W-S02	1.360	Floodplain	1050.00	1275.94	1277.58	1277.58	1277.90	0.033326	3.85	257.01	701.91	0.77
T2N-R6W-S02	1.356	Floodplain	1050.00	1275.80	1277.21	1276.79	1277.30	0.001055	2.61	448.09	895.24	0.43
T2N-R6W-S02	1.351	Floodplain	1050.00	1274.87	1277.04	1276.88	1277.23	0.014144	3.53	321.97	812.53	0.55
T2N-R6W-S02	1.284	Floodplain	260.00	1272.12	1273.39		1273.42	0.005015	1.49	176.08	323.71	0.30
T2N-R6W-S02	1.194	Floodplain	260.00	1269.58	1270.77	1270.33	1270.85	0.005831	1.95	118.64	481.92	0.34
T2N-R6W-S02	1.143	Floodplain	260.00	1267.52	1268.38	1268.19	1268.44	0.011161	1.78	136.24	592.99	0.42
T2N-R6W-S02	1.091	Floodplain	260.00	1265.46	1266.86	1266.32	1266.90	0.003339	1.54	172.84	814.08	0.27
T2N-R6W-S02	1.041	Floodplain	260.00	1263.55	1264.28	1264.28	1264.52	0.067795	3.88	67.07	146.16	1.01
T2N-R6W-S02	0.977	Floodplain	260.00	1260.63	1261.66		1261.69	0.002059	1.33	196.28	270.39	0.27
T2N-R6W-S02	0.922	Floodplain	1050.00	1258.84	1260.97		1261.01	0.002298	1.67	641.99	522.15	0.24
T2N-R6W-S02	0.878	Floodplain	1050.00	1258.77	1260.26		1260.33	0.004031	2.13	519.46	573.29	0.34
T2N-R6W-S02	0.821	Floodplain	1050.00	1256.00	1258.08		1258.29	0.013495	3.95	288.33	412.99	0.72
T2N-R6W-S02	0.774	Floodplain	1050.00	1253.37	1256.69		1256.81	0.003588	2.22	387.67	316.80	0.29
T2N-R6W-S02	0.705	Floodplain	1050.00	1247.99	1252.86	1252.49	1253.83	0.029633	7.89	133.25	48.20	0.83
T2N-R6W-S02	0.661	Floodplain	1050.00	1246.89	1251.50		1251.62	0.003848	2.86	369.12	143.11	0.30
T2N-R6W-S02	0.612	Floodplain	1050.00	1245.44	1250.46		1250.65	0.003627	3.57	305.43	111.63	0.33
T2N-R6W-S02	0.532	Floodplain	1050.00	1242.80	1248.80		1249.01	0.004160	3.75	291.95	113.87	0.33
T2N-R6W-S02	0.442	Floodplain	1050.00	1239.52	1245.05		1245.60	0.015325	5.93	178.75	79.75	0.64
T2N-R6W-S02	0.379	Floodplain	1050.00	1238.10	1244.05		1244.14	0.001740	2.46	433.95	183.44	0.23
T2N-R6W-S02	0.279	Floodplain	1050.00	1235.80	1241.62		1242.10	0.014189	5.65	195.98	106.54	0.56
T2N-R6W-S02	0.200	Floodplain	1050.00	1233.66	1238.93		1239.06	0.004215	2.86	371.48	222.76	0.30
T2N-R6W-S02	0.148	Floodplain	1050.00	1232.26	1237.04	1236.50	1237.32	0.011261	4.08	254.50	273.57	0.48
T2N-R6W-S02	0.101	Floodplain	1050.00	1228.96	1235.10		1235.24	0.006435	3.34	373.95	264.64	0.50
T2N-R6W-S02	0.031	Floodplain	1050.00	1226.52	1232.50	1230.80	1232.67	0.007505	3.28	325.09	168.23	0.39

T2N-R6W-S05E

HEC-RAS Plan: Plan1 River: T2N_R6W_S05E Reach: Reach1 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach1	4.806	Floodplain	1500.00	1349.15	1352.63	1352.37	1352.79	0.011269	2.01	484.06	810.37	0.36
Reach1	4.769	Floodplain	1500.00	1348.62	1350.67	1350.34	1350.75	0.008333	1.28	673.12	949.63	0.29
Reach1	4.715	Floodplain	1500.00	1347.22	1348.65		1348.73	0.007041	1.87	730.72	1189.19	0.33
Reach1	4.670	Floodplain	1500.00	1345.71	1346.75		1346.86	0.008794	2.32	571.81	804.49	0.45
Reach1	4.625	Floodplain	1500.00	1343.18	1344.81		1344.90	0.007301	2.20	646.42	789.47	0.40
Reach1	4.548	Floodplain	1500.00	1338.97	1341.74		1341.84	0.007772	3.21	595.72	725.45	0.45
Reach1	4.502	Floodplain	1500.00	1337.58	1339.90		1340.01	0.009368	2.81	569.08	620.34	0.47
Reach1	4.434	Floodplain	1500.00	1335.49	1337.29		1337.38	0.005825	2.32	639.58	705.08	0.39
Reach1	4.366	Floodplain	1500.00	1330.81	1333.96		1334.21	0.014187	4.52	385.89	398.01	0.64
Reach1	4.300	Floodplain	1500.00	1328.74	1331.57		1331.65	0.004471	2.77	664.96	626.86	0.36
Reach1	4.232	Floodplain	1530.00	1326.86	1328.78		1328.93	0.012254	3.54	513.27	716.82	0.58
Reach1	4.173	Floodplain	1530.00	1324.06	1326.73	1326.31	1326.78	0.004690	2.12	816.33	1036.38	0.36
Reach1	4.111	Floodplain	1530.00	1323.53	1324.65	1324.29	1324.76	0.007794	2.66	564.93	611.00	0.49
Reach1	4.049	Floodplain	1230.00	1320.72	1321.87		1322.00	0.010822	3.12	440.91	594.10	0.58
Reach1	4.000	Floodplain	1230.00	1318.80	1320.03		1320.09	0.005184	2.28	617.46	842.58	0.41
Reach1	3.920	Floodplain	1230.00	1315.46	1316.57	1316.41	1316.69	0.013077	3.04	445.92	959.58	0.62
Reach1	3.861	Floodplain	1230.00	1312.61	1313.89	1313.55	1313.97	0.006056	2.25	562.18	1016.77	0.43
Reach1	3.800	Floodplain	1230.00	1310.56	1311.60		1311.71	0.007299	2.37	487.93	589.33	0.47
Reach1	3.724	Floodplain	1490.00	1308.13	1309.32		1309.40	0.005476	2.18	684.56	772.07	0.38
Reach1	3.668	Floodplain	1490.00	1306.32	1307.59		1307.67	0.006526	2.46	672.85	825.37	0.40
Reach1	3.627	Floodplain	1490.00	1303.82	1306.13		1306.21	0.006870	3.00	708.33	1074.68	0.46
Reach1	3.561	Floodplain	1490.00	1300.92	1303.84		1303.92	0.006365	2.32	673.26	969.20	0.39
Reach1	3.498	Floodplain	1530.00	1298.83	1301.98		1302.03	0.005368	1.96	837.27	1293.49	0.35
Reach1	3.422	Floodplain	1530.00	1297.10	1299.59		1299.67	0.006958	2.64	671.08	917.46	0.41
Reach1	3.366	Floodplain	1530.00	1294.15	1297.43		1297.54	0.007287	2.56	575.83	662.28	0.42
Reach1	3.299	Floodplain	1530.00	1292.71	1294.82	1294.47	1294.92	0.007288	2.71	604.90	885.47	0.42
Reach1	3.242	Floodplain	1530.00	1289.83	1292.77		1292.86	0.006301	2.60	679.28	1008.03	0.41
Reach1	3.176	Floodplain	1530.00	1287.75	1290.38		1290.48	0.007563	3.02	654.76	985.46	0.44
Reach1	3.103	Floodplain	1530.00	1285.38	1287.94		1288.02	0.005368	2.31	705.59	902.58	0.36
Reach1	3.040	Floodplain	1530.00	1283.50	1286.06	1285.64	1286.14	0.006176	2.65	693.69	1011.58	0.39
Reach1	2.947	Floodplain	1530.00	1279.93	1283.45		1283.53	0.004975	2.78	694.60	798.98	0.42
Reach1	2.865	Floodplain	3130.00	1278.23	1281.27	1280.74	1281.38	0.005191	2.65	1217.43	1874.37	0.37
Reach1	2.797	Floodplain	3130.00	1276.14	1279.35	1278.82	1279.43	0.005166	2.47	1333.30	1662.66	0.40
Reach1	2.727	Floodplain	3130.00	1274.75	1277.37	1276.86	1277.47	0.005374	2.43	1259.92	1324.44	0.37
Reach1	2.644	Floodplain	3130.00	1271.54	1274.80		1274.92	0.006951	2.62	1153.74	1171.37	0.41
Reach1	2.576	Floodplain	3130.00	1269.58	1272.46		1272.56	0.005800	2.50	1250.91	1309.96	0.40
Reach1	2.499	Floodplain	1820.00	1267.74	1269.88		1269.98	0.006743	2.65	717.78	825.10	0.45
Reach1	2.428	Floodplain	1820.00	1265.11	1267.65		1267.74	0.005360	2.36	783.57	888.30	0.38
Reach1	2.344	Floodplain	1820.00	1262.82	1265.28		1265.39	0.005317	2.81	752.84	749.79	0.42
Reach1	2.261	Floodplain	1820.00	1260.23	1263.00		1263.11	0.005150	2.82	737.88	645.62	0.38
Reach1	2.181	Floodplain	1820.00	1257.89	1260.70		1260.79	0.005677	2.84	775.59	846.56	0.40
Reach1	2.091	Floodplain	1820.00	1254.40	1257.75		1257.85	0.006941	2.53	718.25	805.54	0.42
Reach1	2.015	Floodplain	1820.00	1253.29	1255.42		1255.51	0.005268	2.38	765.68	763.83	0.36
Reach1	1.931	Floodplain	1820.00	1250.61	1252.67		1252.78	0.007522	3.04	734.68	868.85	0.45
Reach1	1.853	Floodplain	1820.00	1247.62	1250.11		1250.21	0.005257	2.82	776.71	760.95	0.40
Reach1	1.770	Floodplain	1820.00	1246.11	1248.17		1248.24	0.003961	2.40	871.75	882.86	0.35
Reach1	1.696	Floodplain	1820.00	1243.67	1246.18		1246.31	0.006138	2.77	667.32	654.02	0.42
Reach1	1.615	Floodplain	1820.00	1238.41	1243.31		1243.51	0.007539	4.10	531.16	438.07	0.47
Reach1	1.556	Floodplain	1820.00	1235.28	1241.20		1241.53	0.005492	5.37	463.26	311.38	0.46
Reach1	1.480	Floodplain	1820.00	1232.76	1239.35		1239.66	0.004071	5.05	513.53	461.94	0.44
Reach1	1.418	Floodplain	1820.00	1232.30	1237.71		1237.93	0.006661	4.61	545.28	518.73	0.49
Reach1	1.367	Floodplain	1820.00	1229.14	1236.31	1235.79	1236.51	0.004385	4.22	549.97	483.43	0.44
Reach1	1.314	Floodplain	1820.00	1227.83	1234.13	1233.22	1234.75	0.008668	6.37	292.45	301.15	0.62
Reach1	1.272	Floodplain	1820.00	1227.07	1232.84	1231.04	1233.28	0.004757	5.38	363.12	165.42	0.45
Reach1	1.191	Floodplain	1820.00	1225.28	1231.26	1230.55	1231.43	0.003792	4.17	610.81	498.57	0.37
Reach1	1.112	Floodplain	1820.00	1223.27	1228.04	1228.04	1228.62	0.016295	7.16	329.52	283.81	0.82
Reach1	1.085	Floodplain	1820.00	1223.14	1227.67		1227.71	0.000545	1.86	1094.95	382.04	0.16
Reach1	1.054	Floodplain	1820.00	1221.70	1227.49	1226.32	1227.57	0.001625	2.59	830.26	508.97	0.25
Reach1	1.008	Floodplain	1820.00	1220.77	1227.41		1227.43	0.000259	1.24	1809.57	779.32	0.10
Reach1	0.918	Floodplain	1820.00	1225.91	1226.74	1226.74	1227.02	0.029577	4.07	431.79	791.31	0.95
Reach1	0.902	Floodplain	1210.00	1218.05	1221.73	1221.73	1222.35	0.014629	6.54	216.88	260.54	0.75
Reach1	0.830	Floodplain	1210.00	1214.20	1219.73		1219.86	0.002708	3.10	442.72	282.21	0.34
Reach1	0.757	Floodplain	1210.00	1212.40	1216.88	1216.88	1217.49	0.023789	6.44	201.11	167.82	0.88
Reach1	0.698	Floodplain	1210.00	1210.08	1215.04		1215.22	0.002551	3.46	372.27	143.27	0.32
Reach1	0.618	Floodplain	1210.00	1208.91	1213.08		1213.42	0.008399	4.82	258.60	134.94	0.58
Reach1	0.550	Floodplain	1210.00	1206.94	1211.18		1211.34	0.003885	3.68	390.90	237.86	0.39
Reach1	0.468	Floodplain	1210.00	1204.84	1209.13	1208.38	1209.34	0.006163	4.49	361.95	313.63	0.46
Reach1	0.420	Floodplain	1210.00	1204.04	1208.61	1207.09	1208.67	0.001254	2.15	639.86	551.23	0.21
Reach1	0.349	Floodplain	1210.00	1205.00	1207.91	1206.83	1208.01	0.002678	2.82	496.27	301.51	0.29
Reach1	0.288	Floodplain	920.00	1204.71	1205.98	1205.98	1206.23	0.036057	3.46	230.66	585.89	0.71
Reach1	0.226	Floodplain	920.00	1202.16	1205.17		1205.18	0.000291	0.89	1053.09	627.94	0.10
Reach1	0.172	Floodplain	920.00	1201.74	1204.99	1203.80	1205.03	0.001110	1.29	569.66	348.67	0.16
Reach1	0.106	Floodplain	920.00	1201.12	1204.04	1203.36	1204.33	0.004318	5.43	257.31	211.45	0.62
Reach1	0.076	Floodplain	920.00	1199.15	1202.51	1202.51	1203.11	0.015375	8.17	161.26	257.65	0.96
Reach1	0.062	Floodplain	920.00	1195.79	1199.78	1199.78	1200.52	0.021793	7.99	136.99	266.86	0.76

HEC-RAS Plan: Plan1 River: T2N_R6W_S05E Reach: Reach1 Profile: Floodplain (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach1	0.031	Floodplain	920.00	1193.88	1198.59	1196.99	1198.67	0.001065	1.58	494.26	354.69	0.15

T2N-R6W-S05N

HEC-RAS Plan: T2N-R6W-S05N River: T2N-R6W-S05N Reach: T2N-R6W-S05N

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R6W-S05N	3.831	Floodplain	900.00	1365.76	1374.95	1372.22	1375.65	0.009184	7.44	146.44	48.88	0.43
T2N-R6W-S05N	3.831	Floodway	900.00	1365.76	1374.95	1372.22	1375.65	0.009184	7.44	146.44	48.88	0.43
T2N-R6W-S05N	3.763	Floodplain	900.00	1364.48	1369.69	1369.43	1370.39	0.027209	6.98	137.54	70.62	0.71
T2N-R6W-S05N	3.763	Floodway	900.00	1364.48	1369.69	1369.43	1370.39	0.027209	6.98	137.54	70.62	0.71
T2N-R6W-S05N	3.721	Floodplain	900.00	1361.63	1366.60		1366.90	0.009450	4.45	203.65	80.66	0.49
T2N-R6W-S05N	3.721	Floodway	900.00	1361.63	1366.60		1366.90	0.009450	4.45	203.65	80.66	0.49
T2N-R6W-S05N	3.675	Floodplain	900.00	1359.42	1363.74		1364.11	0.014491	4.94	185.20	85.89	0.56
T2N-R6W-S05N	3.675	Floodway	900.00	1359.42	1363.74		1364.11	0.014491	4.94	185.20	85.89	0.56
T2N-R6W-S05N	3.635	Floodplain	900.00	1355.88	1361.95		1362.19	0.005894	3.94	233.26	68.04	0.34
T2N-R6W-S05N	3.635	Floodway	900.00	1355.88	1361.95		1362.19	0.005894	3.94	233.26	68.04	0.34
T2N-R6W-S05N	3.592	Floodplain	900.00	1354.16	1358.44	1358.34	1359.34	0.040689	7.79	120.44	61.33	0.85
T2N-R6W-S05N	3.592	Floodway	900.00	1354.16	1358.44	1358.34	1359.34	0.040689	7.79	120.44	61.33	0.85
T2N-R6W-S05N	3.546	Floodplain	900.00	1351.09	1356.50		1356.67	0.004669	3.05	276.94	113.09	0.30
T2N-R6W-S05N	3.546	Floodway	900.00	1351.09	1356.50		1356.67	0.004669	3.05	276.94	113.09	0.30
T2N-R6W-S05N	3.487	Floodplain	900.00	1348.79	1353.35		1353.89	0.023180	6.15	163.00	110.10	0.65
T2N-R6W-S05N	3.487	Floodway	900.00	1348.79	1353.35		1353.89	0.023180	6.15	163.00	110.10	0.65
T2N-R6W-S05N	3.402	Floodplain	900.00	1343.69	1348.90		1349.11	0.005892	3.77	262.72	106.97	0.34
T2N-R6W-S05N	3.402	Floodway	900.00	1343.69	1348.90		1349.11	0.005892	3.77	262.72	106.97	0.34
T2N-R6W-S05N	3.350	Floodplain	900.00	1341.22	1346.36		1346.72	0.013837	5.04	192.87	84.72	0.51
T2N-R6W-S05N	3.350	Floodway	900.00	1341.22	1346.36		1346.72	0.013837	5.04	192.87	84.72	0.51
T2N-R6W-S05N	3.291	Floodplain	900.00	1338.87	1343.56		1343.73	0.006824	3.54	275.96	143.16	0.36
T2N-R6W-S05N	3.291	Floodway	900.00	1338.87	1343.56		1343.73	0.006824	3.54	275.96	143.16	0.36
T2N-R6W-S05N	3.225	Floodplain	900.00	1336.11	1342.26		1342.37	0.002493	2.90	359.33	147.67	0.23
T2N-R6W-S05N	3.225	Floodway	900.00	1336.11	1342.26		1342.37	0.002493	2.90	359.33	147.67	0.23
T2N-R6W-S05N	3.184	Floodplain	900.00	1335.08	1341.56		1341.70	0.003908	3.64	340.52	176.04	0.29
T2N-R6W-S05N	3.184	Floodway	900.00	1335.08	1341.56		1341.70	0.003909	3.64	340.50	176.04	0.29
T2N-R6W-S05N	3.106	Floodplain	2270.00	1333.41	1338.77		1339.06	0.007994	5.08	566.84	211.69	0.45
T2N-R6W-S05N	3.106	Floodway	2270.00	1333.41	1338.77		1339.06	0.007990	5.07	566.91	211.70	0.45
T2N-R6W-S05N	3.045	Floodplain	2270.00	1332.13	1335.90		1336.18	0.010503	5.34	545.68	216.10	0.55
T2N-R6W-S05N	3.045	Floodway	2270.00	1332.13	1335.89		1336.18	0.010527	5.34	545.28	216.08	0.55
T2N-R6W-S05N	3.004	Floodplain	2270.00	1329.72	1334.25		1334.41	0.005662	3.51	704.53	299.10	0.38
T2N-R6W-S05N	3.004	Floodway	2270.00	1329.72	1334.25		1334.42	0.005601	3.50	707.12	299.59	0.38
T2N-R6W-S05N	2.951	Floodplain	2270.00	1328.97	1331.81		1332.14	0.012841	5.01	497.53	245.43	0.59
T2N-R6W-S05N	2.951	Floodway	2270.00	1328.97	1331.80		1332.13	0.013117	5.05	494.21	245.27	0.59
T2N-R6W-S05N	2.878	Floodplain	2270.00	1324.06	1328.59		1328.72	0.005994	2.77	804.08	478.19	0.37
T2N-R6W-S05N	2.878	Floodway	2270.00	1324.06	1328.61		1328.73	0.005840	2.75	810.45	478.42	0.36
T2N-R6W-S05N	2.808	Floodplain	2270.00	1321.76	1324.89		1325.19	0.017138	4.38	519.75	375.01	0.65
T2N-R6W-S05N	2.808	Floodway	2270.00	1321.76	1324.86		1325.17	0.018315	4.47	508.82	374.22	0.67
T2N-R6W-S05N	2.726	Floodplain	1480.00	1316.75	1320.65	1320.12	1320.79	0.005802	3.32	512.77	409.84	0.41
T2N-R6W-S05N	2.726	Floodway	1480.00	1316.75	1320.68	1320.12	1320.81	0.005382	3.23	525.55	411.43	0.40
T2N-R6W-S05N	2.651	Floodplain	1480.00	1313.51	1316.04	1315.98	1316.40	0.025348	5.36	306.23	332.50	0.77
T2N-R6W-S05N	2.651	Floodway	1480.00	1313.51	1315.98	1315.98	1316.40	0.030264	5.81	287.40	325.27	0.84
T2N-R6W-S05N	2.581	Floodplain	1480.00	1309.65	1313.19	1312.72	1313.30	0.004401	3.10	614.20	568.93	0.37
T2N-R6W-S05N	2.581	Floodway	1480.00	1309.65	1313.24		1313.34	0.003879	2.95	642.80	579.09	0.35
T2N-R6W-S05N	2.485	Floodplain	1810.00	1305.87	1309.36	1309.28	1309.63	0.017758	5.05	494.57	744.55	0.67
T2N-R6W-S05N	2.485	Floodway	1810.00	1305.87	1309.30	1309.30	1309.62	0.022750	5.58	445.14	702.78	0.76
T2N-R6W-S05N	2.400	Floodplain	1810.00	1301.58	1304.57	1304.16	1304.65	0.006931	2.58	767.83	970.44	0.40
T2N-R6W-S05N	2.400	Floodway	1810.00	1301.58	1304.76		1304.82	0.003466	1.95	964.03	1011.00	0.29
T2N-R6W-S05N	2.316	Floodplain	1810.00	1297.67	1300.22		1300.45	0.016007	4.82	537.73	965.82	0.65
T2N-R6W-S05N	2.316	Floodway	1810.00	1297.67	1301.03		1301.79	0.020557	6.98	259.98	103.70	0.78
T2N-R6W-S05N	2.296	Floodplain	1810.00	1296.42	1299.05	1298.83	1299.17	0.008603	3.64	688.03	928.47	0.50
T2N-R6W-S05N	2.296	Floodway	1810.00	1296.42	1299.73		1300.06	0.011172	5.11	398.90	254.67	0.59
T2N-R6W-S05N	2.239	Floodplain	1810.00	1293.44	1295.70	1295.53	1295.85	0.013694	3.82	597.69	876.70	0.57
T2N-R6W-S05N	2.239	Floodway	1810.00	1293.44	1296.65		1296.92	0.009298	4.41	435.30	259.21	0.51

HEC-RAS Plan: T2N-R6W-S05N River: T2N-R6W-S05N Reach: T2N-R6W-S05N (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R6W-S05N	2.160	Floodplain	1810.00	1289.10	1291.57		1291.68	0.007559	3.17	692.91	792.83	0.43
T2N-R6W-S05N	2.160	Floodway	1810.00	1289.10	1292.21		1292.55	0.011835	4.87	391.09	220.29	0.56
T2N-R6W-S05N	2.074	Floodplain	1810.00	1285.01	1287.82	1287.60	1287.99	0.009926	4.38	605.58	765.93	0.58
T2N-R6W-S05N	2.074	Floodway	1810.00	1285.01	1288.72		1288.97	0.005974	4.42	453.79	228.02	0.48
T2N-R6W-S05N	2.012	Floodplain	1810.00	1282.28	1285.02		1285.15	0.008540	3.28	621.27	647.97	0.45
T2N-R6W-S05N	2.012	Floodway	1810.00	1282.28	1285.95		1286.34	0.012247	5.26	363.41	181.26	0.58
T2N-R6W-S05N	1.970	Floodplain	850.00	1280.19	1282.67		1282.96	0.014006	4.87	222.17	285.54	0.71
T2N-R6W-S05N	1.970	Floodway	850.00	1280.19	1282.99		1283.47	0.014579	5.55	153.20	85.26	0.73
T2N-R6W-S05N	1.965	Floodplain	850.00	1279.56	1282.37		1282.57	0.010611	3.87	241.34	255.26	0.54
T2N-R6W-S05N	1.965	Floodway	850.00	1279.56	1282.72		1283.03	0.011774	4.57	193.11	117.35	0.58
T2N-R6W-S05N	1.876	Floodplain	850.00	1275.39	1278.60		1278.75	0.006404	3.28	290.58	309.63	0.46
T2N-R6W-S05N	1.876	Floodway	850.00	1275.39	1278.66		1278.85	0.006883	3.46	245.58	146.60	0.47
T2N-R6W-S05N	1.800	Floodplain	850.00	1272.15	1274.67		1274.91	0.015493	4.43	250.21	397.51	0.63
T2N-R6W-S05N	1.800	Floodway	850.00	1272.15	1275.40		1275.68	0.009122	4.27	199.08	88.53	0.50
T2N-R6W-S05N	1.713	Floodplain	850.00	1268.98	1270.58	1270.16	1270.67	0.006113	2.00	379.41	494.91	0.35
T2N-R6W-S05N	1.713	Floodway	850.00	1268.98	1271.40		1271.56	0.008832	3.57	264.14	173.99	0.47
T2N-R6W-S05N	1.609	Floodplain	850.00	1263.23	1265.63		1265.86	0.016322	4.13	226.27	282.94	0.68
T2N-R6W-S05N	1.609	Floodway	850.00	1263.23	1266.41		1266.69	0.009675	4.27	199.11	102.52	0.54
T2N-R6W-S05N	1.543	Floodplain	850.00	1259.62	1262.65		1262.74	0.005174	2.69	351.92	340.36	0.39
T2N-R6W-S05N	1.543	Floodway	850.00	1259.62	1263.40		1263.67	0.007438	4.09	203.13	94.96	0.48
T2N-R6W-S05N	1.473	Floodplain	850.00	1256.62	1259.19		1259.44	0.019368	4.38	219.65	279.57	0.65
T2N-R6W-S05N	1.473	Floodway	850.00	1256.62	1259.95	1259.22	1260.26	0.011952	4.52	188.04	87.48	0.54
T2N-R6W-S05N	1.410	Floodplain	850.00	1253.63	1255.31		1255.41	0.008121	2.43	349.30	450.61	0.43
T2N-R6W-S05N	1.410	Floodway	850.00	1253.63	1256.07		1256.34	0.011503	4.20	202.27	116.32	0.56
T2N-R6W-S05N	1.369	Floodplain	850.00	1251.75	1253.58		1253.70	0.007599	2.74	317.48	339.53	0.41
T2N-R6W-S05N	1.369	Floodway	850.00	1251.75	1254.55		1254.71	0.005194	3.15	265.03	118.68	0.36
T2N-R6W-S05N	1.288	Floodplain	850.00	1247.71	1249.31		1249.48	0.013355	3.16	266.99	337.98	0.54
T2N-R6W-S05N	1.288	Floodway	850.00	1247.71	1249.85		1250.40	0.025882	5.72	144.16	91.56	0.80
T2N-R6W-S05N	1.222	Floodplain	850.00	1244.62	1246.46		1246.53	0.005682	1.83	388.84	458.16	0.35
T2N-R6W-S05N	1.222	Floodway	850.00	1244.62	1247.36		1247.47	0.003799	2.44	325.71	191.95	0.33
T2N-R6W-S05N	1.144	Floodplain	850.00	1240.76	1242.72		1242.90	0.016434	3.33	257.50	386.44	0.63
T2N-R6W-S05N	1.144	Floodway	850.00	1240.76	1243.22	1243.22	1243.85	0.037029	6.43	133.49	103.16	0.97
T2N-R6W-S05N	1.033	Floodplain	1880.00	1233.38	1238.16		1238.40	0.005912	4.08	498.92	248.46	0.45
T2N-R6W-S05N	1.033	Floodway	1880.00	1233.38	1238.92		1239.15	0.003945	3.88	484.82	145.49	0.37
T2N-R6W-S05N	0.962	Floodplain	1880.00	1230.66	1235.62		1235.88	0.008108	4.46	470.47	300.51	0.52
T2N-R6W-S05N	0.962	Floodway	1880.00	1230.66	1236.36		1236.89	0.010179	5.73	321.75	108.80	0.58
T2N-R6W-S05N	0.895	Floodplain	1880.00	1228.58	1233.69		1233.86	0.004190	3.42	576.97	322.95	0.35
T2N-R6W-S05N	0.895	Floodway	1880.00	1228.58	1234.35		1234.57	0.004314	3.81	494.05	132.98	0.35
T2N-R6W-S05N	0.807	Floodplain	1880.00	1226.43	1230.73		1231.04	0.009886	4.88	448.54	306.40	0.53
T2N-R6W-S05N	0.807	Floodway	1880.00	1226.43	1231.49		1231.88	0.008173	5.06	371.26	110.11	0.49
T2N-R6W-S05N	0.751	Floodplain	1880.00	1224.21	1228.39		1228.57	0.007088	3.27	554.00	379.52	0.39
T2N-R6W-S05N	0.751	Floodway	1880.00	1224.21	1229.37		1229.70	0.006666	3.88	419.14	140.54	0.38
T2N-R6W-S05N	0.665	Floodplain	1940.00	1222.07	1226.31	1225.21	1226.41	0.003357	2.47	790.91	513.82	0.27
T2N-R6W-S05N	0.665	Floodway	1940.00	1222.07	1227.12	1225.48	1227.36	0.003998	3.14	522.52	157.44	0.30
T2N-R6W-S05N	0.631	Floodplain	1940.00	1220.88	1225.63	1224.77	1225.75	0.003814	2.92	710.64	545.41	0.31
T2N-R6W-S05N	0.631	Floodway	1940.00	1220.88	1226.17	1224.88	1226.46	0.006071	4.07	453.43	149.35	0.39
T2N-R6W-S05N	0.591	Floodplain	1940.00	1219.92	1224.98	1223.31	1225.12	0.002278	2.84	659.78	438.29	0.26
T2N-R6W-S05N	0.591	Floodway	1940.00	1219.92	1225.52	1223.41	1225.68	0.002242	3.08	602.70	157.91	0.26
T2N-R6W-S05N	0.581	Floodplain	1940.00	1218.88	1224.88	1222.59	1225.02	0.001562	3.01	663.67	211.23	0.27
T2N-R6W-S05N	0.581	Floodway	1940.00	1218.88	1225.47	1222.58	1225.58	0.001051	2.67	726.84	168.74	0.23
T2N-R6W-S05N	0.568	Floodplain	2240.00	1219.19	1224.50	1223.60	1224.78	0.005396	4.34	531.35	448.54	0.43
T2N-R6W-S05N	0.568	Floodway	2240.00	1219.19	1225.06	1223.83	1225.37	0.004938	4.59	504.41	160.71	0.42
T2N-R6W-S05N	0.499	Floodplain	2240.00	1217.04	1222.02		1222.32	0.008314	4.87	524.37	302.79	0.51
T2N-R6W-S05N	0.499	Floodway	2240.00	1217.04	1222.97		1223.34	0.006018	4.81	462.01	143.38	0.43

HEC-RAS Plan: T2N-R6W-S05N River: T2N-R6W-S05N Reach: T2N-R6W-S05N (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R6W-S05N	0.411	Floodplain	2240.00	1214.29	1219.76	1218.92	1219.90	0.003847	3.17	733.49	500.08	0.33
T2N-R6W-S05N	0.411	Floodway	2240.00	1214.29	1220.64	1219.07	1220.95	0.004793	3.98	511.83	145.39	0.36
T2N-R6W-S05N	0.341	Floodplain	2240.00	1213.43	1217.41		1217.70	0.010142	4.98	541.66	408.91	0.58
T2N-R6W-S05N	0.341	Floodway	2240.00	1213.43	1218.25		1218.69	0.007989	5.37	420.26	143.48	0.54
T2N-R6W-S05N	0.260	Floodplain	2240.00	1211.53	1215.57	1214.61	1215.65	0.002535	1.90	1032.95	1490.51	0.22
T2N-R6W-S05N	0.260	Floodway	2240.00	1211.53	1216.50	1214.88	1216.68	0.002774	2.43	688.40	219.96	0.24
T2N-R6W-S05N	0.175	Floodplain	2240.00	1207.28	1213.16	1212.38	1213.30	0.004400	2.74	764.15	1040.63	0.31
T2N-R6W-S05N	0.175	Floodway	2240.00	1207.28	1214.15	1212.86	1214.37	0.004515	3.44	602.33	215.60	0.33
T2N-R6W-S05N	0.095	Floodplain	2240.00	1204.71	1211.17	1210.51	1211.36	0.005937	3.82	653.43	759.35	0.42
T2N-R6W-S05N	0.095	Floodway	2240.00	1204.71	1212.12	1210.81	1212.39	0.005685	4.20	539.32	172.72	0.39
T2N-R6W-S05N	0.005	Floodplain	2240.00	1203.40	1208.97	1208.29	1209.12	0.004407	3.62	782.90	923.35	0.35
T2N-R6W-S05N	0.005	Floodway	2240.00	1203.40	1209.91	1208.24	1210.16	0.004402	4.02	563.78	157.13	0.34

T2N-R6W-S05S

HEC-RAS Plan: Plan1 River: T2N_R6W_S05S Reach: Reach1 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach1	0.702	Floodplain	680.00	1201.91	1204.79	1204.65	1205.10	0.015479	5.25	160.37	159.52	0.70
Reach1	0.620	Floodplain	140.00	1199.00	1203.64		1203.65	0.000230	0.60	311.18	291.89	0.06
Reach1	0.552	Floodplain	140.00	1199.79	1203.57		1203.58	0.000176	0.50	324.75	251.19	0.06
Reach1	0.472	Floodplain	750.00	1199.00	1203.29		1203.32	0.000856	1.47	590.91	373.35	0.16
Reach1	0.416	Floodplain	750.00	1198.30	1202.45		1202.72	0.008123	4.29	192.03	127.36	0.48
Reach1	0.343	Floodplain	750.00	1197.98	1201.36		1201.40	0.001737	1.33	500.68	414.65	0.17
Reach1	0.286	Floodplain	750.00	1196.49	1200.87		1200.92	0.001467	2.08	466.64	334.72	0.20
Reach1	0.221	Floodplain	750.00	1195.38	1200.30		1200.37	0.001743	2.38	407.38	296.12	0.22
Reach1	0.142	Floodplain	750.00	1194.32	1199.51		1199.57	0.002117	2.34	385.36	244.61	0.22
Reach1	0.093	Floodplain	750.00	1192.93	1198.78		1198.97	0.002324	3.18	217.57	111.07	0.29
Reach1	0.076	Floodplain	750.00	1193.09	1198.59	1197.96	1198.76	0.002345	2.41	242.35	162.11	0.21

T2N-R6W-S05W

HEC-RAS Plan: Plan1 River: T2N_R6W_S05W Reach: T2N_R6W_S05W Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N_R6W_S05W	0.919	Floodplain	3280.00	1223.12	1226.43		1226.61	0.008492	3.86	958.26	786.98	0.46
T2N_R6W_S05W	0.845	Floodplain	3280.00	1220.12	1223.98	1223.25	1224.13	0.005327	3.23	1073.63	1082.40	0.36
T2N_R6W_S05W	0.815	Floodplain	4200.00	1219.04	1222.61		1222.83	0.011292	4.62	1141.36	1008.22	0.55
T2N_R6W_S05W	0.768	Floodplain	4200.00	1216.82	1220.44		1220.58	0.007688	2.93	1482.61	1658.32	0.43
T2N_R6W_S05W	0.704	Floodplain	4200.00	1214.10	1217.83		1218.01	0.008904	4.11	1291.60	1341.15	0.51
T2N_R6W_S05W	0.651	Floodplain	6040.00	1211.12	1215.66	1215.15	1215.83	0.007025	3.44	1862.02	1520.28	0.42
T2N_R6W_S05W	0.584	Floodplain	6040.00	1208.89	1213.63		1213.80	0.004502	3.23	1896.44	1108.37	0.34
T2N_R6W_S05W	0.523	Floodplain	6040.00	1206.63	1211.86		1212.09	0.006521	4.34	1613.06	1001.70	0.45
T2N_R6W_S05W	0.436	Floodplain	6040.00	1203.40	1209.32		1209.52	0.005718	4.29	1706.16	950.34	0.41
T2N_R6W_S05W	0.365	Floodplain	6040.00	1201.31	1207.08		1207.31	0.007135	4.35	1617.96	979.28	0.40
T2N_R6W_S05W	0.309	Floodplain	6040.00	1199.81	1205.63		1205.82	0.004344	3.83	1724.96	821.49	0.36
T2N_R6W_S05W	0.237	Floodplain	6040.00	1197.73	1203.66		1203.92	0.006350	4.54	1483.11	624.38	0.40
T2N_R6W_S05W	0.206	Floodplain	6040.00	1196.72	1202.86		1203.06	0.004127	4.29	1737.07	779.73	0.33
T2N_R6W_S05W	0.142	Floodplain	6040.00	1194.20	1201.17		1201.44	0.005306	4.98	1510.79	533.72	0.39
T2N_R6W_S05W	0.075	Floodplain	6040.00	1191.53	1199.33		1199.62	0.005129	5.31	1436.24	557.07	0.37
T2N_R6W_S05W	0.042	Floodplain	6040.00	1190.10	1198.59		1198.79	0.004380	4.92	1900.61	638.04	0.33
T2N_R6W_S05W	0.015	Floodplain	6040.00	1189.99	1197.74	1196.55	1198.05	0.005609	5.52	1494.71	952.98	0.40

T2N-R6W-S28N

HEC-RAS Plan: Plan1 River: T2N-R6W-S22 Reach: T2N-R6W-S22 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R6W-S22	2.274	Floodplain	810.00	1199.95	1200.25		1200.41	0.003570	1.62	263.45	511.38	0.61
T2N-R6W-S22	2.196	Floodplain	810.00	1197.47	1198.63		1198.69	0.005426	1.61	445.48	932.43	0.38
T2N-R6W-S22	2.126	Floodplain	810.00	1196.04	1197.02		1197.07	0.004046	2.07	471.28	873.99	0.42
T2N-R6W-S22	2.031	Floodplain	810.00	1192.31	1194.65	1194.32	1194.77	0.005428	2.87	315.89	441.33	0.48
T2N-R6W-S22	1.941	Floodplain	810.00	1188.43	1191.54		1191.67	0.008218	3.01	285.42	293.98	0.44
T2N-R6W-S22	1.886	Floodplain	810.00	1187.97	1190.03		1190.09	0.003664	1.87	419.73	392.01	0.28
T2N-R6W-S22	1.829	Floodplain	810.00	1186.54	1188.34		1188.45	0.008828	2.65	307.93	374.81	0.50
T2N-R6W-S22	1.749	Floodplain	810.00	1184.72	1186.45		1186.49	0.002953	1.45	542.59	576.72	0.24
T2N-R6W-S22	1.657	Floodplain	810.00	1182.19	1183.57		1183.68	0.015845	2.63	308.32	547.27	0.53
T2N-R6W-S22	1.617	Floodplain	810.00	1180.89	1182.48		1182.53	0.002805	1.35	499.53	565.99	0.25
T2N-R6W-S22	1.538	Floodplain	810.00	1177.34	1180.65		1180.76	0.006189	2.61	302.13	226.01	0.39
T2N-R6W-S22	1.482	Floodplain	810.00	1176.12	1178.92		1179.04	0.005321	2.81	292.42	207.42	0.38
T2N-R6W-S22	1.411	Floodplain	810.00	1173.30	1176.94	1176.21	1177.04	0.005356	2.75	316.73	211.43	0.36
T2N-R6W-S22	1.299	Floodplain	810.00	1170.21	1172.60	1172.43	1172.74	0.009916	2.97	275.06	451.73	0.48
T2N-R6W-S22	1.219	Floodplain	810.00	1167.97	1170.16	1169.84	1170.25	0.003804	2.31	354.06	470.96	0.37
T2N-R6W-S22	1.129	Floodplain	810.00	1165.01	1166.50	1166.50	1166.86	0.017797	2.76	192.54	256.30	0.56
T2N-R6W-S22	1.049	Floodplain	810.00	1161.38	1163.92	1163.35	1163.99	0.003019	1.20	376.75	551.46	0.23
T2N-R6W-S22	0.952	Floodplain	810.00	1159.10	1161.65		1161.75	0.006793	2.19	336.18	354.28	0.37
T2N-R6W-S22	0.890	Floodplain	810.00	1156.56	1159.92		1160.03	0.004208	1.99	317.26	353.70	0.31
T2N-R6W-S22	0.821	Floodplain	810.00	1154.18	1158.17	1157.77	1158.28	0.006352	2.66	303.11	352.64	0.38
T2N-R6W-S22	0.761	Floodplain	810.00	1151.59	1155.76	1155.51	1155.94	0.007600	3.30	249.62	281.38	0.50
T2N-R6W-S22	0.709	Floodplain	810.00	1150.91	1153.75		1153.91	0.007361	3.24	259.78	318.13	0.56
T2N-R6W-S22	0.654	Floodplain	810.00	1149.51	1152.28		1152.39	0.003956	2.71	319.54	287.24	0.38
T2N-R6W-S22	0.584	Floodplain	810.00	1147.86	1150.73		1150.84	0.004313	2.38	318.60	288.04	0.32
T2N-R6W-S22	0.548	Floodplain	810.00	1146.54	1149.81		1149.95	0.005014	3.09	268.72	160.43	0.39
T2N-R6W-S22	0.456	Floodplain	810.00	1144.42	1147.25		1147.40	0.005520	3.12	267.23	183.98	0.41
T2N-R6W-S22	0.367	Floodplain	810.00	1143.16	1144.92		1145.07	0.004525	2.64	269.74	279.37	0.43
T2N-R6W-S22	0.316	Floodplain	810.00	1141.52	1143.94		1144.01	0.003430	2.21	385.10	231.74	0.28
T2N-R6W-S22	0.274	Floodplain	810.00	1139.58	1142.83		1143.04	0.005560	3.69	224.76	88.95	0.39
T2N-R6W-S22	0.220	Floodplain	810.00	1138.20	1141.31		1141.46	0.005322	3.20	255.30	112.46	0.37
T2N-R6W-S22	0.161	Floodplain	810.00	1135.89	1140.12		1140.20	0.003101	2.28	367.42	233.59	0.27
T2N-R6W-S22	0.084	Floodplain	810.00	1134.63	1138.80	1138.05	1138.87	0.003498	1.97	394.99	633.49	0.29
T2N-R6W-S22	0.000	Floodplain	810.00	1133.70	1137.21	1136.43	1137.26	0.004222	1.69	437.79	672.07	0.29

T2N-R6W-S28N

HEC-RAS Plan: Plan1 River: T2N_R6W_S28N Reach: T2N_R6W_S28N Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N_R6W_S28N	4.118	Floodplain	380.00	1216.19	1217.48		1217.53	0.005472	1.93	206.47	244.65	0.33
T2N_R6W_S28N	4.043	Floodplain	400.00	1213.07	1214.52	1214.25	1214.61	0.010501	2.37	171.44	269.30	0.44
T2N_R6W_S28N	3.963	Floodplain	400.00	1210.10	1211.30		1211.37	0.005698	2.14	190.45	282.13	0.43
T2N_R6W_S28N	3.892	Floodplain	400.00	1208.08	1209.28		1209.33	0.005279	1.87	231.26	291.23	0.32
T2N_R6W_S28N	3.825	Floodplain	400.00	1206.07	1207.00		1207.07	0.007868	2.12	195.28	381.68	0.44
T2N_R6W_S28N	3.755	Floodplain	400.00	1203.43	1204.39		1204.45	0.006352	1.96	195.42	285.38	0.39
T2N_R6W_S28N	3.700	Floodplain	400.00	1199.93	1202.22		1202.35	0.009068	2.71	141.51	224.76	0.54
T2N_R6W_S28N	3.612	Floodplain	400.00	1198.20	1199.83		1199.91	0.003444	2.19	188.53	202.69	0.36
T2N_R6W_S28N	3.525	Floodplain	400.00	1195.76	1197.16	1196.82	1197.28	0.011431	2.72	150.20	191.69	0.47
T2N_R6W_S28N	3.441	Floodplain	400.00	1191.74	1194.03		1194.10	0.004871	2.16	191.19	179.06	0.32
T2N_R6W_S28N	3.371	Floodplain	400.00	1189.61	1191.72	1191.11	1191.84	0.007641	2.78	151.12	123.59	0.41
T2N_R6W_S28N	3.289	Floodplain	400.00	1186.69	1188.21	1187.98	1188.36	0.008523	3.18	129.41	167.54	0.61
T2N_R6W_S28N	3.209	Floodplain	400.00	1183.32	1185.51		1185.59	0.005170	2.30	175.17	153.48	0.36
T2N_R6W_S28N	3.134	Floodplain	400.00	1181.45	1183.00		1183.09	0.007824	2.40	167.13	162.41	0.41
T2N_R6W_S28N	3.064	Floodplain	400.00	1179.44	1180.90		1180.96	0.004329	2.05	203.57	236.02	0.33
T2N_R6W_S28N	3.004	Floodplain	400.00	1177.53	1178.97		1179.08	0.008811	2.70	149.75	127.54	0.43
T2N_R6W_S28N	2.941	Floodplain	400.00	1175.39	1177.07		1177.13	0.004108	1.97	214.52	195.07	0.30
T2N_R6W_S28N	2.870	Floodplain	400.00	1173.59	1175.08		1175.18	0.006822	2.54	160.21	143.20	0.40
T2N_R6W_S28N	2.802	Floodplain	400.00	1169.45	1172.48	1171.79	1172.59	0.007453	2.76	145.01	104.19	0.41
T2N_R6W_S28N	2.732	Floodplain	400.00	1168.58	1169.82		1169.89	0.007205	1.99	201.54	270.89	0.40
T2N_R6W_S28N	2.658	Floodplain	400.00	1165.60	1167.85		1167.92	0.003678	2.28	183.32	200.37	0.38
T2N_R6W_S28N	2.576	Floodplain	400.00	1163.47	1165.23		1165.34	0.011204	2.96	155.53	312.24	0.54
T2N_R6W_S28N	2.504	Floodplain	400.00	1160.92	1163.09		1163.16	0.003517	2.16	190.33	197.93	0.36
T2N_R6W_S28N	2.431	Floodplain	400.00	1159.49	1160.63		1160.72	0.014422	2.51	159.38	210.24	0.50
T2N_R6W_S28N	2.350	Floodplain	400.00	1156.63	1158.09		1158.13	0.003307	1.50	268.64	280.87	0.26
T2N_R6W_S28N	2.287	Floodplain	400.00	1155.40	1156.42		1156.48	0.008341	2.07	193.75	288.23	0.44
T2N_R6W_S28N	2.203	Floodplain	400.00	1152.81	1154.18		1154.26	0.003295	2.20	182.92	218.70	0.42
T2N_R6W_S28N	2.129	Floodplain	400.00	1151.05	1151.99	1151.89	1152.13	0.010759	3.14	135.67	270.25	0.71
T2N_R6W_S28N	2.064	Floodplain	400.00	1148.62	1150.06		1150.12	0.003619	1.99	201.82	228.29	0.37
T2N_R6W_S28N	1.986	Floodplain	400.00	1146.47	1147.78		1147.85	0.009585	1.92	198.04	314.33	0.41
T2N_R6W_S28N	1.922	Floodplain	400.00	1144.54	1145.68	1145.22	1145.71	0.004383	1.51	261.12	384.75	0.29
T2N_R6W_S28N	1.841	Floodplain	400.00	1141.26	1143.40		1143.50	0.006235	2.53	161.52	241.65	0.51
T2N_R6W_S28N	1.752	Floodplain	400.00	1138.72	1140.82		1140.89	0.004895	2.19	185.30	185.77	0.37
T2N_R6W_S28N	1.675	Floodplain	400.00	1137.16	1138.73		1138.79	0.005476	2.04	197.50	197.11	0.35
T2N_R6W_S28N	1.589	Floodplain	400.00	1134.80	1136.47		1136.52	0.004622	1.69	237.53	341.74	0.33
T2N_R6W_S28N	1.505	Floodplain	400.00	1132.63	1134.15		1134.22	0.005665	2.11	198.13	237.75	0.36
T2N_R6W_S28N	1.434	Floodplain	400.00	1130.52	1131.75		1131.83	0.007314	2.38	172.41	221.39	0.44
T2N_R6W_S28N	1.347	Floodplain	400.00	1128.24	1129.38	1128.87	1129.41	0.003904	1.40	289.99	435.73	0.27
T2N_R6W_S28N	1.264	Floodplain	400.00	1126.11	1127.35		1127.39	0.005510	1.69	236.38	303.52	0.33
T2N_R6W_S28N	1.191	Floodplain	400.00	1123.45	1125.35		1125.42	0.004656	1.86	198.88	298.80	0.35
T2N_R6W_S28N	1.146	Floodplain	400.00	1122.46	1124.24		1124.30	0.004979	2.01	203.66	359.11	0.42
T2N_R6W_S28N	1.085	Floodplain	400.00	1121.17	1122.79		1122.85	0.004073	2.01	206.57	306.83	0.38
T2N_R6W_S28N	1.013	Floodplain	400.00	1119.91	1120.97		1121.02	0.005753	1.78	227.36	279.33	0.34
T2N_R6W_S28N	0.944	Floodplain	400.00	1118.05	1119.12		1119.20	0.004333	2.22	180.41	256.68	0.47
T2N_R6W_S28N	0.878	Floodplain	400.00	1116.73	1117.70		1117.75	0.003950	1.97	215.37	383.60	0.44
T2N_R6W_S28N	0.806	Floodplain	400.00	1115.96	1117.31		1117.32	0.000500	1.01	395.55	435.00	0.17
T2N_R6W_S28N	0.758	Floodplain	400.00	1116.00	1117.23		1117.23	0.000243	0.77	569.81	600.35	0.14
T2N_R6W_S28N	0.751	Floodplain	400.00	1116.31	1117.04	1117.04	1117.17	0.005292	3.27	155.67	560.20	0.84
T2N_R6W_S28N	0.741	Floodplain	400.00	1114.86	1116.29	1116.04	1116.38	0.009189	1.86	177.31	335.51	0.39
T2N_R6W_S28N	0.668	Floodplain	400.00	1113.92	1115.07		1115.10	0.001927	1.43	298.98	435.02	0.27
T2N_R6W_S28N	0.623	Floodplain	400.00	1112.00	1114.45	1113.98	1114.50	0.003257	1.83	223.04	562.15	0.36
T2N_R6W_S28N	0.598	Floodplain	400.00	1109.59	1113.15	1113.15	1113.43	0.049050	4.24	94.49	173.45	1.01
T2N_R6W_S28N	0.554	Floodplain	400.00	1108.82	1109.50	1109.17	1109.55	0.002716	1.70	236.69	710.36	0.36
T2N_R6W_S28N	0.480	Floodplain	400.00	1106.00	1109.46	1106.47	1109.46	0.000062	0.48	831.36	262.79	0.05
T2N_R6W_S28N	0.460	Floodplain	400.00	1105.28	1108.97	1108.97	1109.40	0.013492	5.30	80.10	103.36	0.88
T2N_R6W_S28N	0.412	Floodplain	400.00	1104.09	1106.75	1106.33	1106.93	0.003894	3.46	121.86	113.46	0.55
T2N_R6W_S28N	0.351	Floodplain	400.00	1103.17	1105.19		1105.47	0.005339	4.29	96.03	90.91	0.69
T2N_R6W_S28N	0.301	Floodplain	400.00	1101.75	1104.51		1104.66	0.001848	3.10	130.03	80.89	0.41
T2N_R6W_S28N	0.219	Floodplain	400.00	1099.00	1102.46	1102.37	1102.80	0.018332	4.62	86.84	103.36	0.65
T2N_R6W_S28N	0.153	Floodplain	400.00	1097.26	1100.64	1099.98	1100.75	0.002723	2.30	165.84	199.23	0.28
T2N_R6W_S28N	0.095	Floodplain	400.00	1095.65	1098.92	1098.46	1099.08	0.015537	3.27	125.74	365.53	0.56
T2N_R6W_S28N	0.003	Floodplain	400.00	1092.48	1094.83	1093.99	1094.93	0.005301	2.57	158.83	120.63	0.36

T2N-R7W-S20W

HEC-RAS Plan: Current mode River: T2N_R7W_S20W Reach: T2N_R7W_S20W

Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N_R7W_S20W	2.035	1400.00	1266.28	1271.78		1271.98	0.007848	3.66	401.46	181.66	0.38
T2N_R7W_S20W	2.035	1400.00	1266.28	1272.50		1272.67	0.005065	3.36	417.29	116.22	0.31
T2N_R7W_S20W	1.962	1400.00	1264.38	1268.95		1269.16	0.006942	3.97	401.47	258.67	0.38
T2N_R7W_S20W	1.962	1400.00	1264.38	1269.62		1270.04	0.009662	5.15	269.74	70.58	0.45
T2N_R7W_S20W	1.883	1400.00	1260.98	1265.96		1266.16	0.007509	3.70	403.92	204.54	0.38
T2N_R7W_S20W	1.883	1400.00	1260.98	1266.72		1266.93	0.005723	3.65	383.04	101.65	0.33
T2N_R7W_S20W	1.789	1400.00	1256.94	1262.54		1262.81	0.006132	4.20	339.35	137.24	0.41
T2N_R7W_S20W	1.789	1400.00	1256.94	1263.52		1263.91	0.006397	5.07	279.13	67.20	0.43
T2N_R7W_S20W	1.704	1400.00	1253.47	1258.90	1258.40	1259.19	0.011113	4.64	336.38	208.05	0.46
T2N_R7W_S20W	1.704	1400.00	1253.47	1259.77		1260.20	0.011138	5.28	264.94	65.88	0.46
T2N_R7W_S20W	1.618	1400.00	1250.85	1255.31		1255.47	0.006298	3.67	445.61	295.93	0.35
T2N_R7W_S20W	1.618	1400.00	1250.85	1256.26		1256.50	0.006109	4.16	363.16	132.96	0.35
T2N_R7W_S20W	1.547	1400.00	1247.48	1253.02		1253.21	0.006156	3.78	422.30	241.37	0.35
T2N_R7W_S20W	1.547	1400.00	1247.48	1253.66		1253.97	0.007658	4.70	317.80	85.62	0.40
T2N_R7W_S20W	1.508	1400.00	1246.01	1251.64		1251.88	0.006775	4.07	357.46	141.31	0.39
T2N_R7W_S20W	1.508	1400.00	1246.01	1252.44		1252.68	0.005008	3.93	355.96	84.37	0.34
T2N_R7W_S20W	1.442	1400.00	1243.28	1248.61		1249.00	0.010582	5.29	285.22	123.54	0.48
T2N_R7W_S20W	1.442	1400.00	1243.28	1249.59		1250.13	0.011366	5.94	235.81	50.31	0.48
T2N_R7W_S20W	1.366	1400.00	1240.52	1245.71		1245.87	0.005847	3.31	436.25	241.00	0.33
T2N_R7W_S20W	1.366	1400.00	1240.52	1246.59		1246.83	0.006096	3.93	361.84	116.79	0.35
T2N_R7W_S20W	1.303	1400.00	1238.54	1244.26		1244.41	0.003584	3.57	477.54	211.50	0.29
T2N_R7W_S20W	1.303	1400.00	1238.54	1244.65		1244.97	0.005224	4.55	315.27	64.48	0.35
T2N_R7W_S20W	1.223	1400.00	1234.84	1240.02		1241.07	0.027201	8.25	170.17	48.85	0.76
T2N_R7W_S20W	1.223	1400.00	1234.84	1240.98	1239.34	1241.64	0.012915	6.54	215.35	47.32	0.53
T2N_R7W_S20W	1.136	1400.00	1230.34	1234.54		1234.75	0.007774	3.91	386.66	213.48	0.43
T2N_R7W_S20W	1.136	1400.00	1230.34	1234.90		1235.38	0.014039	5.68	255.09	87.31	0.58
T2N_R7W_S20W	1.092	1400.00	1228.60	1232.84		1233.04	0.007418	3.63	390.56	172.50	0.41
T2N_R7W_S20W	1.092	1400.00	1228.60	1233.15		1233.33	0.005613	3.38	414.36	148.96	0.36
T2N_R7W_S20W	1.046	1400.00	1226.33	1230.52		1230.76	0.012615	3.77	359.57	222.41	0.49
T2N_R7W_S20W	1.046	1400.00	1226.33	1230.66		1231.03	0.019120	4.85	288.59	145.41	0.61
T2N_R7W_S20W	0.990	1400.00	1223.89	1229.98		1230.02	0.000934	1.54	894.20	285.60	0.15
T2N_R7W_S20W	0.990	1400.00	1223.89	1230.05		1230.09	0.001086	1.67	836.97	254.30	0.16
T2N_R7W_S20W	0.925	1400.00	1222.26	1228.92	1225.95	1229.28	0.005583	4.84	299.18	66.09	0.35
T2N_R7W_S20W	0.925	1400.00	1222.26	1228.92	1225.95	1229.28	0.005583	4.84	299.18	66.09	0.35
T2N_R7W_S20W	0.913	Culvert									
T2N_R7W_S20W	0.902	1400.00	1221.82	1226.91	1225.13	1227.51	0.007734	6.22	228.45	48.68	0.50
T2N_R7W_S20W	0.902	1400.00	1221.82	1226.91	1225.13	1227.51	0.007734	6.22	228.45	48.68	0.50
T2N_R7W_S20W	0.888	1400.00	1221.09	1227.07	1224.03	1227.12	0.000616	1.93	738.86	475.78	0.15
T2N_R7W_S20W	0.888	1400.00	1221.09	1227.07	1224.03	1227.12	0.000616	1.93	738.86	475.34	0.15
T2N_R7W_S20W	0.879	1400.00	1219.83	1226.62	1223.79	1226.97	0.003997	4.80	294.40	57.61	0.35
T2N_R7W_S20W	0.879	1400.00	1219.83	1226.62	1223.79	1226.97	0.003997	4.80	294.40	57.61	0.35
T2N_R7W_S20W	0.868	Culvert									
T2N_R7W_S20W	0.855	1400.00	1219.88	1223.50	1222.96	1224.38	0.011448	7.52	188.16	66.97	0.74
T2N_R7W_S20W	0.855	1400.00	1219.88	1223.85	1222.96	1224.55	0.008090	6.77	210.31	65.02	0.64
T2N_R7W_S20W	0.788	1400.00	1215.97	1220.61		1220.98	0.007028	5.34	303.84	161.49	0.58
T2N_R7W_S20W	0.788	1400.00	1215.97	1221.06		1221.63	0.008114	6.04	231.60	73.94	0.60
T2N_R7W_S20W	0.710	1400.00	1213.13	1217.41		1217.79	0.008810	5.26	300.60	166.40	0.53
T2N_R7W_S20W	0.710	1400.00	1213.13	1218.11		1218.52	0.006740	5.14	272.62	72.67	0.47
T2N_R7W_S20W	0.655	1400.00	1211.44	1215.70		1215.90	0.004875	3.86	392.09	196.83	0.41
T2N_R7W_S20W	0.655	1400.00	1211.44	1216.64		1216.93	0.004434	4.33	323.61	86.97	0.40
T2N_R7W_S20W	0.608	1400.00	1209.26	1213.93		1214.34	0.008660	5.71	303.50	193.10	0.56

HEC-RAS Plan: Current mode River: T2N_R7W_S20W Reach: T2N_R7W_S20W (Continued)

Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N_R7W_S20W	0.608	1400.00	1209.26	1214.67		1215.33	0.009686	6.51	214.96	53.57	0.57
T2N_R7W_S20W	0.540	1400.00	1207.48	1211.74	1210.97	1211.99	0.004810	4.28	367.28	210.81	0.43
T2N_R7W_S20W	0.540	1400.00	1207.48	1212.04	1210.78	1212.44	0.006354	5.09	275.23	82.44	0.49
T2N_R7W_S20W	0.445	1400.00	1202.91	1208.38		1208.95	0.008027	6.20	244.88	132.04	0.63
T2N_R7W_S20W	0.445	1400.00	1202.91	1208.86		1209.35	0.006051	5.57	251.15	72.47	0.53
T2N_R7W_S20W	0.392	1400.00	1201.52	1206.68	1206.15	1207.00	0.005712	4.92	338.93	260.84	0.56
T2N_R7W_S20W	0.392	1400.00	1201.52	1207.53	1205.99	1207.86	0.004388	4.64	301.75	92.32	0.45
T2N_R7W_S20W	0.312	1400.00	1199.18	1204.56	1203.55	1204.76	0.004818	3.70	398.74	251.42	0.37
T2N_R7W_S20W	0.312	1400.00	1199.18	1205.26	1203.68	1205.62	0.006485	4.84	294.90	82.09	0.44
T2N_R7W_S20W	0.238	1400.00	1197.36	1201.92	1201.36	1202.28	0.008877	5.18	312.50	286.26	0.53
T2N_R7W_S20W	0.238	1400.00	1197.36	1202.79	1201.19	1203.17	0.006134	4.92	284.30	74.12	0.44
T2N_R7W_S20W	0.189	1400.00	1194.95	1199.99	1199.67	1200.19	0.007007	4.21	423.42	512.07	0.44
T2N_R7W_S20W	0.189	1400.00	1194.95	1200.56	1199.52	1201.08	0.010811	5.81	242.80	73.76	0.55
T2N_R7W_S20W	0.135	1400.00	1193.37	1197.99	1196.82	1198.32	0.006209	4.95	349.41	315.86	0.47
T2N_R7W_S20W	0.135	1400.00	1193.37	1198.62	1196.71	1198.99	0.005212	4.92	284.79	69.50	0.43
T2N_R7W_S20W	0.073	1400.00	1191.21	1196.10	1195.67	1196.38	0.005591	4.74	370.62	295.87	0.54
T2N_R7W_S20W	0.073	1400.00	1191.21	1196.97	1195.66	1197.34	0.004823	4.86	288.20	89.25	0.48
T2N_R7W_S20W	0.008	1400.00	1189.24	1194.13	1193.47	1194.32	0.006603	3.94	419.71	319.82	0.43
T2N_R7W_S20W	0.008	1400.00	1189.24	1195.08	1193.56	1195.40	0.006608	4.60	306.65	94.72	0.44

T2N-R7W-S32E

HEC-RAS Plan: Floodplain River: T2N_R7W_S32E Reach: T2N_R7W_S32E Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N_R7W_S32E	2.386	Floodplain	6380.00	1215.71	1221.85	1221.85	1224.53	0.034442	13.24	488.25	989.71	0.98
T2N_R7W_S32E	2.374	Floodplain	6380.00	1214.89	1220.67	1219.66	1221.72	0.014160	8.22	785.85	1035.89	0.63
T2N_R7W_S32E	2.287	Floodplain	6970.00	1209.88	1216.18	1215.63	1216.53	0.008142	5.33	1526.00	1210.96	0.46
T2N_R7W_S32E	2.221	Floodplain	6970.00	1207.66	1213.63	1213.34	1213.95	0.007575	5.69	1645.34	1618.12	0.55
T2N_R7W_S32E	2.150	Floodplain	6970.00	1205.16	1210.10	1209.69	1210.45	0.010908	4.62	1497.03	1343.45	0.54
T2N_R7W_S32E	2.095	Floodplain	6970.00	1205.20	1207.63	1206.78	1207.89	0.006648	3.04	1754.58	1603.87	0.47
T2N_R7W_S32E	2.020	Floodplain	6970.00	1201.64	1204.09	1203.64	1204.53	0.010245	2.93	1344.69	940.24	0.60
T2N_R7W_S32E	1.955	Floodplain	6970.00	1198.20	1202.00		1202.20	0.003790	2.91	2012.94	1168.32	0.41
T2N_R7W_S32E	1.862	Floodplain	6970.00	1193.37	1200.22		1200.51	0.005330	4.89	1805.98	1111.16	0.43
T2N_R7W_S32E	1.798	Floodplain	6970.00	1191.21	1198.34		1198.69	0.005441	5.81	1667.21	1022.31	0.49
T2N_R7W_S32E	1.730	Floodplain	6970.00	1189.24	1195.99		1196.40	0.007734	5.70	1363.31	591.98	0.49
T2N_R7W_S32E	1.663	Floodplain	6970.00	1187.43	1193.26		1193.65	0.007572	5.81	1469.62	752.44	0.52
T2N_R7W_S32E	1.579	Floodplain	6970.00	1184.92	1190.34	1189.88	1190.63	0.006121	5.53	1771.02	1121.06	0.55
T2N_R7W_S32E	1.529	Floodplain	6970.00	1183.26	1188.10		1188.46	0.010794	6.24	1563.72	1269.22	0.66
T2N_R7W_S32E	1.471	Floodplain	6970.00	1181.68	1186.48	1185.74	1186.60	0.003676	3.13	2491.11	1650.02	0.35
T2N_R7W_S32E	1.405	Floodplain	6970.00	1179.78	1183.28	1183.28	1183.81	0.019020	7.68	1257.29	1150.73	1.04
T2N_R7W_S32E	1.393	Floodplain	6970.00	1179.92	1181.84		1182.05	0.001919	3.96	1900.11	1472.66	0.60
T2N_R7W_S32E	1.381	Floodplain	6970.00	1179.14	1181.43		1181.84	0.007304	3.76	1360.61	1054.78	0.53
T2N_R7W_S32E	1.326	Floodplain	2590.00	1177.64	1181.06		1181.14	0.003020	2.58	1197.14	953.12	0.33
T2N_R7W_S32E	1.237	Floodplain	2590.00	1176.27	1179.31		1179.42	0.005444	3.06	976.51	734.14	0.42
T2N_R7W_S32E	1.171	Floodplain	2590.00	1174.55	1177.55		1177.68	0.004947	3.33	886.00	543.33	0.42
T2N_R7W_S32E	1.088	Floodplain	2590.00	1171.45	1175.68		1175.84	0.003999	3.33	808.33	444.82	0.36
T2N_R7W_S32E	1.002	Floodplain	2590.00	1169.06	1173.22		1173.46	0.007243	4.55	678.03	443.53	0.47
T2N_R7W_S32E	0.935	Floodplain	2590.00	1166.89	1171.00		1171.16	0.005686	3.86	834.50	646.24	0.42
T2N_R7W_S32E	0.862	Floodplain	2590.00	1163.81	1169.30		1169.42	0.003530	3.54	975.48	681.33	0.32
T2N_R7W_S32E	0.785	Floodplain	2590.00	1161.61	1167.49		1167.64	0.005367	4.06	941.91	904.09	0.37
T2N_R7W_S32E	0.713	Floodplain	2590.00	1159.91	1165.23		1165.45	0.006197	4.74	796.73	680.65	0.43
T2N_R7W_S32E	0.626	Floodplain	2590.00	1158.05	1163.68		1163.79	0.002255	3.37	1046.72	594.32	0.29
T2N_R7W_S32E	0.515	Floodplain	2590.00	1154.48	1161.44		1161.80	0.005459	6.09	693.55	531.22	0.51
T2N_R7W_S32E	0.438	Floodplain	2590.00	1150.67	1159.80		1160.01	0.003499	4.56	868.82	635.50	0.35
T2N_R7W_S32E	0.347	Floodplain	2590.00	1148.28	1156.66	1156.66	1157.24	0.010606	6.95	516.19	410.89	0.62
T2N_R7W_S32E	0.300	Floodplain	2590.00	1147.52	1155.66		1155.85	0.002195	3.70	809.58	357.68	0.30
T2N_R7W_S32E	0.255	Floodplain	2590.00	1146.84	1154.68		1155.11	0.004284	5.69	572.36	310.93	0.51
T2N_R7W_S32E	0.197	Floodplain	2700.00	1144.19	1153.01		1153.49	0.006665	6.37	581.03	357.80	0.48
T2N_R7W_S32E	0.144	Floodplain	2700.00	1142.63	1151.15		1151.60	0.006772	6.43	612.73	404.99	0.53
T2N_R7W_S32E	0.081	Floodplain	3920.00	1141.45	1149.51		1149.83	0.004125	5.71	940.28	570.51	0.53
T2N_R7W_S32E	0.000	Floodplain	3920.00	1139.50	1147.43	1145.85	1147.80	0.004562	5.50	931.10	566.47	0.42

T2N-R7W-S35W

HEC-RAS Plan: S35W River: T2N-R7W-S35W Reach: T2N-R7W-S35W Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T2N-R7W-S35W	3.752	Floodplain	6970.00	1178.44	1180.84		1181.36	0.005670	2.85	1628.20	1377.91	0.48
T2N-R7W-S35W	3.663	Floodplain	6970.00	1176.63	1178.41		1178.61	0.006001	3.70	2012.33	1999.13	0.52
T2N-R7W-S35W	3.608	Floodplain	6970.00	1174.72	1175.80	1175.80	1176.20	0.010929	3.26	1522.71	1850.91	0.63
T2N-R7W-S35W	3.563	Floodplain	6970.00	1173.29	1173.86		1174.04	0.003729	0.98	2176.74	2287.27	0.31
T2N-R7W-S35W	3.499	Floodplain	6970.00	1171.30	1172.07		1172.22	0.006292	2.04	2385.43	2792.18	0.46
T2N-R7W-S35W	3.446	Floodplain	6970.00	1169.20	1170.20		1170.35	0.007213	2.49	2393.82	2846.99	0.51
T2N-R7W-S35W	3.385	Floodplain	6970.00	1166.41	1168.09	1167.71	1168.21	0.006284	3.14	2622.41	3012.36	0.51
T2N-R7W-S35W	3.336	Floodplain	6970.00	1164.15	1165.79	1165.47	1165.95	0.008043	2.84	2259.84	3289.13	0.54
T2N-R7W-S35W	3.243	Floodplain	6970.00	1160.76	1162.34	1161.99	1162.50	0.007304	2.86	2266.34	3367.62	0.53
T2N-R7W-S35W	3.179	Floodplain	4380.00	1158.65	1159.92	1159.61	1160.06	0.007436	2.26	1483.64	1600.54	0.50
T2N-R7W-S35W	3.127	Floodplain	4380.00	1155.08	1158.31	1157.77	1158.41	0.004759	2.68	1753.12	2205.25	0.42
T2N-R7W-S35W	3.037	Floodplain	4380.00	1152.69	1155.64	1155.32	1155.78	0.007142	3.46	1557.58	2147.23	0.51
T2N-R7W-S35W	2.924	Floodplain	4380.00	1147.39	1151.89	1151.52	1152.00	0.005920	3.11	1747.76	2228.99	0.47
T2N-R7W-S35W	2.842	Floodplain	4380.00	1144.41	1149.20		1149.33	0.007040	3.31	1565.91	1805.07	0.45
T2N-R7W-S35W	2.768	Floodplain	4380.00	1140.79	1146.75		1146.88	0.005729	3.34	1557.47	1499.60	0.45
T2N-R7W-S35W	2.694	Floodplain	4380.00	1138.51	1144.60		1144.75	0.005754	3.32	1415.45	1229.81	0.44
T2N-R7W-S35W	2.639	Floodplain	4380.00	1137.95	1142.72		1142.86	0.006725	2.79	1480.27	1369.43	0.51
T2N-R7W-S35W	2.562	Floodplain	4380.00	1135.63	1141.04		1141.16	0.004509	2.98	1575.65	1217.66	0.33
T2N-R7W-S35W	2.486	Floodplain	4380.00	1133.34	1139.04		1139.17	0.005482	3.25	1522.77	1294.35	0.41
T2N-R7W-S35W	2.411	Floodplain	4380.00	1131.68	1137.47		1137.57	0.003055	2.82	1778.65	1198.25	0.27
T2N-R7W-S35W	2.333	Floodplain	4380.00	1129.19	1135.02	1134.97	1135.39	0.013682	5.58	985.71	1055.92	0.62
T2N-R7W-S35W	2.258	Floodplain	4380.00	1127.69	1132.67		1132.75	0.003501	2.24	1954.42	1900.36	0.28
T2N-R7W-S35W	2.152	Floodplain	4380.00	1126.96	1130.25	1129.77	1130.35	0.006088	2.50	1743.02	1962.77	0.35
T2N-R7W-S35W	2.084	Floodplain	4380.00	1125.36	1127.89		1127.97	0.005012	1.62	1944.11	2151.32	0.29
T2N-R7W-S35W	1.989	Floodplain	4380.00	1123.79	1125.37		1125.44	0.005192	2.24	1983.42	2309.53	0.35
T2N-R7W-S35W	1.895	Floodplain	4380.00	1121.32	1123.03	1122.59	1123.12	0.004338	2.76	1901.41	2340.54	0.43
T2N-R7W-S35W	1.779	Floodplain	4380.00	1118.33	1119.94	1119.65	1120.07	0.006281	2.40	1604.43	2314.09	0.48
T2N-R7W-S35W	1.713	Floodplain	4570.00	1115.65	1118.13		1118.24	0.004272	3.01	1793.33	1874.40	0.44
T2N-R7W-S35W	1.644	Floodplain	4570.00	1114.71	1116.23		1116.32	0.004703	2.28	1962.64	2272.30	0.42
T2N-R7W-S35W	1.584	Floodplain	4570.00	1113.30	1114.44		1114.52	0.004844	1.72	1944.79	2285.43	0.40
T2N-R7W-S35W	1.511	Floodplain	4570.00	1106.68	1112.81		1112.90	0.004192	3.35	1973.50	2099.39	0.32
T2N-R7W-S35W	1.433	Floodplain	4570.00	1105.52	1110.88		1111.04	0.006614	4.48	1548.85	1725.01	0.40
T2N-R7W-S35W	1.358	Floodplain	4570.00	1104.88	1109.03		1109.16	0.003718	3.02	1600.70	1062.17	0.30
T2N-R7W-S35W	1.271	Floodplain	4570.00	1103.20	1107.07		1107.24	0.004795	2.99	1412.57	1195.23	0.33
T2N-R7W-S35W	1.193	Floodplain	4570.00	1100.36	1104.94		1105.06	0.004740	3.30	1751.84	1533.10	0.35
T2N-R7W-S35W	1.117	Floodplain	4570.00	1097.53	1102.70		1102.84	0.005937	3.66	1595.86	1585.75	0.38
T2N-R7W-S35W	1.047	Floodplain	4570.00	1096.06	1100.84		1100.94	0.004625	2.89	1756.02	1433.61	0.33
T2N-R7W-S35W	0.965	Floodplain	4570.00	1094.18	1098.53		1098.71	0.006110	3.83	1399.12	996.22	0.40
T2N-R7W-S35W	0.869	Floodplain	4570.00	1091.17	1095.98		1096.13	0.004129	3.08	1467.06	770.67	0.31
T2N-R7W-S35W	0.795	Floodplain	4570.00	1088.19	1093.98		1094.20	0.006096	4.18	1238.11	811.21	0.42
T2N-R7W-S35W	0.731	Floodplain	4570.00	1086.26	1092.31		1092.51	0.004779	4.38	1394.95	869.16	0.43
T2N-R7W-S35W	0.672	Floodplain	4570.00	1084.72	1090.94		1091.09	0.004235	3.40	1533.49	969.56	0.33
T2N-R7W-S35W	0.595	Floodplain	4570.00	1082.63	1089.17		1089.32	0.005333	3.42	1490.19	1024.15	0.35
T2N-R7W-S35W	0.529	Floodplain	4570.00	1080.86	1087.46		1087.61	0.003813	3.08	1468.94	786.75	0.30
T2N-R7W-S35W	0.429	Floodplain	4570.00	1079.31	1085.19		1085.36	0.005694	3.40	1419.93	1055.03	0.36
T2N-R7W-S35W	0.337	Floodplain	4570.00	1076.81	1083.17		1083.31	0.003598	3.38	1555.55	1008.90	0.37
T2N-R7W-S35W	0.231	Floodplain	4570.00	1074.74	1080.02		1080.32	0.009284	3.84	1048.11	730.08	0.47
T2N-R7W-S35W	0.158	Floodplain	4570.00	1073.15	1078.41		1078.54	0.003295	2.74	1572.83	892.37	0.28
T2N-R7W-S35W	0.086	Floodplain	4570.00	1070.88	1076.18	1076.18	1076.67	0.021910	4.78	853.92	1036.02	0.64
T2N-R7W-S35W	0.010	Floodplain	4570.00	1070.43	1075.07	1073.77	1075.14	0.001710	1.94	2153.36	1502.60	0.21
T2N-R7W-S35W	0.000	Floodplain	4570.00	1072.32	1074.67	1074.52	1075.02	0.002501	5.19	1045.92	1663.73	0.71

T3N-R6W-S27W

HEC-RAS Plan: S27W River: T3N-R6W-S27W Reach: T3N-R6W-S27W Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T3N-R6W-S27W	1.675	Floodplain	1980.00	1343.10	1350.25		1350.69	0.003661	5.50	395.19	99.05	0.40
T3N-R6W-S27W	1.612	Floodplain	1980.00	1340.48	1347.30		1348.49	0.013627	9.28	242.10	60.81	0.69
T3N-R6W-S27W	1.586	Floodplain	1980.00	1339.36	1346.39		1346.93	0.007568	6.06	343.16	108.84	0.55
T3N-R6W-S27W	1.516	Floodplain	1980.00	1335.45	1342.73		1343.66	0.010381	7.98	262.69	75.13	0.61
T3N-R6W-S27W	1.449	Floodplain	1980.00	1331.73	1339.12		1339.86	0.010631	7.22	305.21	105.48	0.59
T3N-R6W-S27W	1.354	Floodplain	1980.00	1326.88	1333.78	1332.62	1334.40	0.011189	6.48	328.56	128.82	0.56
T3N-R6W-S27W	1.298	Floodplain	1980.00	1325.87	1330.10		1330.54	0.015160	5.49	378.23	177.75	0.57
T3N-R6W-S27W	1.219	Floodplain	1980.00	1321.34	1326.49		1326.75	0.006134	4.35	490.09	206.30	0.39
T3N-R6W-S27W	1.149	Floodplain	1980.00	1318.43	1323.33	1323.04	1323.74	0.012106	5.84	417.75	282.78	0.55
T3N-R6W-S27W	1.110	Floodplain	1980.00	1317.61	1320.53		1320.88	0.015627	4.76	421.31	292.36	0.56
T3N-R6W-S27W	1.040	Floodplain	1980.00	1313.09	1317.00		1317.09	0.006638	2.79	817.57	864.67	0.37
T3N-R6W-S27W	0.960	Floodplain	1980.00	1311.46	1313.38	1313.05	1313.56	0.012209	2.53	627.71	726.37	0.42
T3N-R6W-S27W	0.897	Floodplain	1980.00	1305.83	1310.45		1310.59	0.007095	3.75	726.15	756.06	0.46
T3N-R6W-S27W	0.847	Floodplain	1980.00	1303.87	1308.09		1308.28	0.011470	4.36	597.61	687.97	0.58
T3N-R6W-S27W	0.777	Floodplain	1980.00	1302.35	1305.29		1305.39	0.006493	2.20	787.07	763.30	0.33
T3N-R6W-S27W	0.715	Floodplain	1980.00	1300.05	1302.66		1302.79	0.010655	3.01	688.28	796.11	0.46
T3N-R6W-S27W	0.656	Floodplain	1980.00	1298.38	1300.20		1300.29	0.006660	1.64	827.93	946.42	0.31
T3N-R6W-S27W	0.568	Floodplain	2700.00	1294.28	1296.82		1296.97	0.008318	2.56	920.50	992.13	0.42
T3N-R6W-S27W	0.517	Floodplain	2700.00	1292.00	1294.99		1295.09	0.006404	2.38	1040.41	1020.95	0.37
T3N-R6W-S27W	0.460	Floodplain	2700.00	1290.30	1292.61		1292.75	0.009354	2.65	914.25	1043.94	0.44
T3N-R6W-S27W	0.409	Floodplain	2700.00	1289.01	1290.91		1291.02	0.007231	2.37	1019.37	1129.37	0.41
T3N-R6W-S27W	0.357	Floodplain	2700.00	1287.80	1289.23	1288.97	1289.35	0.009509	2.51	992.99	1332.26	0.51
T3N-R6W-S27W	0.279	Floodplain	2700.00	1285.44	1286.95		1287.02	0.004486	1.76	1277.56	1719.73	0.33
T3N-R6W-S27W	0.203	Floodplain	2700.00	1282.83	1284.45	1284.23	1284.58	0.009790	2.56	951.06	1369.02	0.49
T3N-R6W-S27W	0.114	Floodplain	2700.00	1278.31	1282.05	1281.59	1282.14	0.004308	2.61	1158.42	1136.66	0.34
T3N-R6W-S27W	0.073	Floodplain	2700.00	1278.23	1280.81	1280.56	1280.94	0.011008	3.02	936.39	1734.25	0.51

T3N-R6W-S32

HEC-RAS Plan: Plan1 River: T3N-R6W-S32 Reach: T3N-R6W-S32 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T3N-R6W-S32	0.886	Floodplain	1180.00	1249.41	1252.41		1252.59	0.012080	3.69	349.31	329.10	0.45
T3N-R6W-S32	0.834	Floodplain	470.00	1246.82	1250.19		1250.29	0.004994	2.76	183.64	112.82	0.30
T3N-R6W-S32	0.762	Floodplain	470.00	1244.42	1247.26	1247.10	1247.42	0.012882	3.86	160.79	229.24	0.47
T3N-R6W-S32	0.675	Floodplain	470.00	1241.23	1243.15		1243.23	0.006549	2.20	206.02	283.05	0.44
T3N-R6W-S32	0.609	Floodplain	470.00	1238.12	1240.48		1240.61	0.008744	3.09	172.80	254.09	0.49
T3N-R6W-S32	0.565	Floodplain	470.00	1235.78	1238.23		1238.30	0.010578	2.34	232.15	472.81	0.38
T3N-R6W-S32	0.476	Floodplain	160.00	1232.78	1234.30		1234.33	0.004836	1.39	133.53	250.76	0.25
T3N-R6W-S32	0.427	Floodplain	160.00	1228.98	1232.02		1232.26	0.016858	4.08	48.81	95.59	0.52
T3N-R6W-S32	0.366	Floodplain	160.00	1226.76	1229.65		1229.70	0.004355	1.77	95.28	89.84	0.26
T3N-R6W-S32	0.275	Floodplain	470.00	1223.90	1226.11		1226.16	0.009291	2.20	256.48	610.22	0.44
T3N-R6W-S32	0.227	Floodplain	470.00	1221.98	1223.77	1223.48	1223.87	0.008383	1.52	207.26	984.74	0.31
T3N-R6W-S32	0.188	Floodplain	470.00	1220.21	1222.03	1221.73	1222.10	0.009379	1.73	223.84	851.28	0.34
T3N-R6W-S32	0.148	Floodplain	470.00	1216.82	1219.94	1218.91	1220.07	0.008773	2.86	172.02	994.22	0.45
T3N-R6W-S32	0.079	Floodplain	470.00	1214.19	1216.68	1216.05	1216.79	0.009409	2.70	184.67	387.82	0.45

T3N-R6W-S33

HEC-RAS Plan: Current mode River: T3N-R6W-S33 Reach: T3N-R6W-S33 Profile: Floodplain

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T3N-R6W-S33	0.575	Floodplain	1880.00	1254.61	1259.17		1259.36	0.005001	2.73	549.26	284.54	0.30
T3N-R6W-S33	0.542	Floodplain	1880.00	1253.02	1258.19		1258.42	0.007043	3.64	495.26	240.08	0.36
T3N-R6W-S33	0.471	Floodplain	1880.00	1251.60	1256.14		1256.33	0.004445	3.23	540.28	230.87	0.30
T3N-R6W-S33	0.403	Floodplain	1880.00	1249.67	1253.39	1252.92	1253.84	0.011922	5.97	374.19	200.54	0.61
T3N-R6W-S33	0.338	Floodplain	1880.00	1247.42	1250.33		1250.59	0.007231	3.24	467.99	217.07	0.36
T3N-R6W-S33	0.271	Floodplain	1880.00	1243.71	1247.83		1248.07	0.007851	4.37	477.85	294.89	0.43
T3N-R6W-S33	0.207	Floodplain	1880.00	1240.95	1245.56		1245.81	0.006045	3.66	471.00	213.52	0.35
T3N-R6W-S33	0.141	Floodplain	1880.00	1238.55	1243.50	1242.47	1243.70	0.006311	3.76	534.64	303.22	0.37
T3N-R6W-S33	0.088	Floodplain	1880.00	1236.88	1241.71		1241.92	0.006231	3.71	516.53	289.98	0.35
T3N-R6W-S33	0.001	Floodplain	1880.00	1233.38	1237.74	1237.28	1238.12	0.011434	5.13	397.34	235.56	0.62

T3N-R6W-S35

HEC-RAS Plan: 310.047 River: T3N-R6W-S35 Reach: T3N-R6W-S35

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
T3N-R6W-S35	0.676	Floodplain	990.00	1273.14	1274.97	1274.66	1275.14	0.008917	2.64	316.72	631.40	0.47
T3N-R6W-S35	0.676	Floodway	990.00	1273.14	1275.93	1275.19	1276.16	0.006948	3.43	269.01	137.39	0.44
T3N-R6W-S35	0.590	Floodplain	990.00	1270.82	1272.28		1272.37	0.004640	2.94	443.43	665.49	0.49
T3N-R6W-S35	0.590	Floodway	990.00	1270.82	1272.91		1273.23	0.006148	4.48	220.84	126.45	0.60
T3N-R6W-S35	0.531	Floodplain	990.00	1268.46	1269.89	1269.89	1270.11	0.012715	4.45	307.57	634.75	0.79
T3N-R6W-S35	0.531	Floodway	990.00	1268.46	1270.29		1270.70	0.010782	5.12	193.28	140.32	0.77
T3N-R6W-S35	0.474	Floodplain	990.00	1264.03	1268.03		1268.09	0.002052	2.61	515.40	554.25	0.35
T3N-R6W-S35	0.474	Floodway	990.00	1264.03	1268.55		1268.83	0.003783	4.17	233.59	102.44	0.49
T3N-R6W-S35	0.426	Floodplain	990.00	1261.77	1265.67	1265.67	1266.79	0.014594	8.61	118.59	55.11	0.98
T3N-R6W-S35	0.426	Floodway	990.00	1261.77	1265.71	1265.71	1266.92	0.015827	8.80	112.47	46.17	0.99
T3N-R6W-S35	0.353	Floodplain	990.00	1258.20	1262.52		1262.81	0.003724	4.45	230.15	81.85	0.43
T3N-R6W-S35	0.353	Floodway	990.00	1258.20	1263.43		1263.77	0.003492	4.67	212.00	49.95	0.40
T3N-R6W-S35	0.293	Floodplain	990.00	1256.66	1260.96		1261.21	0.007148	4.12	250.69	142.22	0.42
T3N-R6W-S35	0.293	Floodway	990.00	1256.66	1261.90		1262.25	0.006916	4.75	208.54	52.48	0.42
T3N-R6W-S35	0.260	Floodplain	990.00	1254.96	1259.79		1260.01	0.006933	3.29	266.20	186.20	0.39
T3N-R6W-S35	0.260	Floodway	990.00	1254.96	1260.66		1261.03	0.007199	3.82	212.51	88.54	0.41
T3N-R6W-S35	0.223	Floodplain	990.00	1253.55	1258.95		1259.12	0.003140	3.26	302.62	115.38	0.29
T3N-R6W-S35	0.223	Floodway	990.00	1253.55	1259.79		1260.04	0.003637	3.96	248.15	55.00	0.32
T3N-R6W-S35	0.171	Floodplain	990.00	1251.58	1257.23		1257.70	0.009722	5.64	183.38	67.32	0.53
T3N-R6W-S35	0.171	Floodway	990.00	1251.58	1258.09		1258.55	0.008332	5.50	180.12	41.17	0.46
T3N-R6W-S35	0.127	Floodplain	990.00	1250.46	1256.55		1256.68	0.002052	3.07	356.76	157.72	0.26
T3N-R6W-S35	0.127	Floodway	990.00	1250.46	1256.92		1257.19	0.003933	4.35	245.11	82.40	0.36
T3N-R6W-S35	0.098	Floodplain	990.00	1249.51	1255.88		1256.18	0.006056	4.61	234.60	94.93	0.39
T3N-R6W-S35	0.098	Floodway	990.00	1249.51	1256.02		1256.40	0.007420	4.94	200.59	44.36	0.41
T3N-R6W-S35	0.055	Floodplain	990.00	1247.99	1253.16	1252.39	1253.87	0.018590	6.78	146.56	50.33	0.68
T3N-R6W-S35	0.055	Floodway	990.00	1247.99	1253.37		1253.99	0.015282	6.34	156.07	47.84	0.62
T3N-R6W-S35	0.010	Floodplain	990.00	1246.87	1250.90	1249.69	1251.10	0.007275	3.69	285.45	135.76	0.39
T3N-R6W-S35	0.010	Floodway	990.00	1246.87	1251.23	1249.79	1251.47	0.007282	3.93	252.20	82.76	0.40

Winters Wash with Embankment

HEC-RAS Plan: Current mode River: WintersWash Reach: WintersWithEmban

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
WintersWithEmban	10.295	FP	13440.00	1014.59	1024.27		1024.84	0.002373	6.61	2256.79	312.64	0.39
WintersWithEmban	10.295	FW	13440.00	1014.59	1024.44	1024.00	1028.20	0.012988	15.64	876.45	103.06	0.92
WintersWithEmban	10.207	FP	13440.00	1013.20	1022.22		1023.27	0.004581	8.68	1876.47	523.35	0.54
WintersWithEmban	10.207	FW	13440.00	1013.20	1022.33		1023.75	0.005496	9.59	1411.80	175.25	0.59
WintersWithEmban	10.120	FP	11590.00	1011.96	1020.77		1021.47	0.002946	6.90	1752.57	257.67	0.43
WintersWithEmban	10.120	FW	11590.00	1011.96	1020.85		1021.62	0.003234	7.17	1658.07	213.50	0.45
WintersWithEmban	10.047	FP	11590.00	1009.20	1018.14		1019.69	0.007455	10.66	1284.66	310.90	0.69
WintersWithEmban	10.047	FW	11590.00	1009.20	1018.45		1019.87	0.006347	10.10	1270.57	210.95	0.64
WintersWithEmban	9.962	FP	11590.00	1006.95	1015.89	1015.89	1016.73	0.005448	9.22	2466.05	1592.58	0.59
WintersWithEmban	9.962	FW	11590.00	1006.95	1015.92	1015.92	1017.02	0.006492	10.08	1847.07	885.01	0.64
WintersWithEmban	9.870	FP	11590.00	1005.38	1014.64		1014.80	0.001057	4.09	4043.98	1558.17	0.26
WintersWithEmban	9.870	FW	11590.00	1005.38	1014.96		1015.13	0.000908	3.89	3732.64	984.68	0.24
WintersWithEmban	9.800	FP	11590.00	1005.03	1013.63		1014.13	0.003414	6.94	2773.65	1393.34	0.47
WintersWithEmban	9.800	FW	11590.00	1005.03	1013.89		1014.49	0.003618	7.29	2297.45	865.33	0.48
WintersWithEmban	9.718	FP	9480.00	1002.83	1011.60		1012.41	0.004462	8.52	1882.39	955.62	0.53
WintersWithEmban	9.718	FW	9480.00	1002.83	1012.19		1012.91	0.003502	7.92	1667.77	368.40	0.48
WintersWithEmban	9.635	FP	9480.00	1000.00	1009.64		1010.50	0.004234	7.93	1688.55	940.39	0.50
WintersWithEmban	9.635	FW	9480.00	1000.00	1010.37		1011.30	0.003781	7.93	1348.58	276.78	0.48
WintersWithEmban	9.577	FP	9480.00	999.53	1008.53		1009.12	0.004368	6.88	1841.27	711.00	0.45
WintersWithEmban	9.577	FW	9480.00	999.53	1008.76		1009.83	0.006260	8.41	1198.77	203.84	0.54
WintersWithEmban	9.493	FP	9480.00	998.08	1006.41		1007.22	0.004110	7.67	1424.43	255.47	0.51
WintersWithEmban	9.493	FW	9480.00	998.08	1007.39		1007.98	0.002569	6.57	1663.61	245.54	0.41
WintersWithEmban	9.435	FP	9480.00	996.44	1003.14	1003.14	1005.04	0.013119	11.97	933.32	239.62	0.87
WintersWithEmban	9.435	FW	9480.00	996.44	1003.57	1003.57	1006.21	0.014767	13.30	750.09	142.92	0.93
WintersWithEmban	9.354	FP	9480.00	995.01	1000.64		1001.03	0.003566	5.76	1941.20	482.75	0.45
WintersWithEmban	9.354	FW	9480.00	995.01	1001.05		1001.54	0.003702	6.09	1730.09	373.26	0.45
WintersWithEmban	9.278	FP	9480.00	990.11	999.00	996.67	999.64	0.003165	7.15	1589.88	315.44	0.45
WintersWithEmban	9.278	FW	9480.00	990.11	999.61	996.37	1000.25	0.002651	6.87	1506.49	205.12	0.41
WintersWithEmban	9.190	FP	9480.00	988.97	995.18	995.18	996.77	0.015209	10.63	999.02	321.67	0.89
WintersWithEmban	9.190	FW	9480.00	988.97	995.25	995.25	997.48	0.019221	11.99	790.80	176.13	1.00
WintersWithEmban	9.113	FP	9480.00	982.84	994.65		995.00	0.001095	4.91	2055.81	270.98	0.27
WintersWithEmban	9.113	FW	9480.00	982.84	995.54		995.83	0.000796	4.43	2299.06	270.91	0.24
WintersWithEmban	9.026	FP	9480.00	981.39	994.17		994.49	0.001063	5.14	2372.01	396.49	0.27
WintersWithEmban	9.026	FW	9480.00	981.39	994.94		995.37	0.001210	5.42	1826.55	164.87	0.28
WintersWithEmban	8.936	FP	9480.00	978.94	993.72		994.06	0.000789	4.82	2195.84	258.64	0.24
WintersWithEmban	8.936	FW	9480.00	978.94	994.58		994.92	0.000686	4.70	2058.57	158.05	0.23
WintersWithEmban	8.843	FP	16240.00	982.78	992.56		993.12	0.004046	7.62	3316.46	1209.58	0.48
WintersWithEmban	8.843	FW	16240.00	982.78	992.92		993.89	0.005603	9.25	2458.36	638.52	0.56
WintersWithEmban	8.788	FP	16240.00	981.71	991.67		992.03	0.002893	5.40	3546.54	1077.40	0.35
WintersWithEmban	8.788	FW	14120.00	981.71	992.47		992.78	0.001799	4.56	3217.26	493.98	0.28
WintersWithEmban	8.754	FP	16240.00	981.21	991.24		991.55	0.002444	5.39	3979.76	1424.20	0.35
WintersWithEmban	8.754	FW	14120.00	981.21	992.18		992.48	0.001634	4.76	3244.13	496.19	0.29
WintersWithEmban	8.685	FP	14120.00	979.37	988.97		990.12	0.007832	9.83	1877.63	416.19	0.66
WintersWithEmban	8.685	FW	14120.00	979.37	989.76		991.27	0.007951	10.59	1583.80	258.49	0.68
WintersWithEmban	8.601	FP	14120.00	977.54	988.65		988.84	0.001128	4.56	5538.74	1987.21	0.27
WintersWithEmban	8.601	FW	14120.00	977.54	989.56		989.87	0.001299	5.21	3760.32	604.10	0.29
WintersWithEmban	8.531	FP	14120.00	976.72	988.15		988.34	0.002394	4.42	4477.17	1551.30	0.30
WintersWithEmban	8.531	FW	14120.00	976.72	989.00		989.27	0.002661	5.03	3637.19	941.71	0.32
WintersWithEmban	8.460	FP	14120.00	974.97	987.29		987.54	0.002459	5.23	4348.30	1977.35	0.32
WintersWithEmban	8.460	FW	14120.00	974.97	988.23		988.49	0.002013	5.09	3907.41	1034.70	0.30
WintersWithEmban	8.368	FP	14120.00	973.40	985.89		986.17	0.003276	5.49	3979.32	1958.56	0.35
WintersWithEmban	8.368	FW	14120.00	973.40	986.63		987.14	0.003991	6.44	2616.88	433.03	0.39
WintersWithEmban	8.278	FP	14120.00	972.25	984.42		984.62	0.003047	5.04	4430.05	2090.89	0.33

HEC-RAS Plan: Current mode River: WintersWash Reach: WintersWithEmban (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
WintersWithEmban	8.278	FW	14120.00	972.25	985.36		985.61	0.002349	4.79	3649.27	740.00	0.29
WintersWithEmban	8.193	FP	14120.00	971.27	982.76		983.06	0.003929	6.22	3931.20	2245.36	0.39
WintersWithEmban	8.193	FW	14120.00	971.27	983.74		984.22	0.004042	6.83	2731.39	635.26	0.41
WintersWithEmban	8.103	FP	14120.00	970.38	981.13	980.55	981.41	0.003036	5.96	4054.62	2555.27	0.40
WintersWithEmban	8.103	FW	9150.00	970.38	982.00	979.83	982.49	0.003044	6.29	1814.19	421.91	0.40
WintersWithEmban	8.011	FP	14120.00	967.38	979.69	979.18	980.01	0.002826	6.54	4128.35	2410.90	0.39
WintersWithEmban	8.011	FW	9150.00	967.38	980.58	978.07	981.11	0.002675	6.79	1829.22	343.76	0.38
WintersWithEmban	7.924	FP	14120.00	967.67	978.89	977.85	979.03	0.001522	4.19	5643.03	2970.73	0.26
WintersWithEmban	7.924	FW	9150.00	967.67	979.27	976.08	979.80	0.003185	6.26	1742.96	300.00	0.38
WintersWithEmban	7.848	FP	9150.00	966.15	977.08		978.11	0.004300	8.56	1356.57	397.49	0.54
WintersWithEmban	7.848	FW	9150.00	966.15	977.87		978.58	0.002825	7.30	1633.97	358.55	0.44
WintersWithEmban	7.758	FP	11270.00	965.20	974.68		975.57	0.006091	9.15	1763.08	1103.96	0.58
WintersWithEmban	7.758	FW	9150.00	965.20	975.63		976.74	0.005232	9.16	1191.37	255.30	0.55
WintersWithEmban	7.668	FP	11270.00	964.37	973.29		973.54	0.002650	5.34	3207.48	1232.36	0.36
WintersWithEmban	7.668	FW	9150.00	964.37	974.20		974.63	0.003159	6.20	1988.57	464.58	0.40
WintersWithEmban	7.590	FP	11270.00	963.64	971.74		972.18	0.004369	7.17	2604.28	1038.94	0.49
WintersWithEmban	7.590	FW	9150.00	963.64	972.72		973.26	0.003636	7.16	1949.75	504.53	0.46
WintersWithEmban	7.507	FP	11270.00	962.39	970.25		970.51	0.003186	5.53	3248.22	1623.37	0.40
WintersWithEmban	7.507	FW	9150.00	962.39	971.25		971.72	0.003309	6.25	1843.17	465.21	0.42
WintersWithEmban	7.447	FP	11270.00	961.94	969.37		969.58	0.002809	4.92	3339.62	1444.66	0.37
WintersWithEmban	7.447	FW	11270.00	961.94	970.28		970.66	0.003314	5.91	2474.61	683.84	0.41
WintersWithEmban	7.412	FP	11270.00	959.16	968.97		969.18	0.001772	4.49	3409.81	1106.66	0.32
WintersWithEmban	7.412	FW	11270.00	959.16	969.85		970.19	0.001979	5.20	2572.59	524.82	0.35
WintersWithEmban	7.366	FP	11270.00	959.62	968.30		968.58	0.003371	5.43	2909.63	1126.95	0.38
WintersWithEmban	7.366	FW	11270.00	959.62	969.09		969.52	0.003853	6.28	2301.61	566.95	0.42
WintersWithEmban	7.287	FP	11270.00	958.21	967.18		967.41	0.002342	4.64	3235.99	1282.49	0.36
WintersWithEmban	7.287	FW	11270.00	958.21	967.78		968.14	0.002789	5.33	2379.48	548.21	0.39
WintersWithEmban	7.212	FP	11270.00	957.37	965.67		966.02	0.005041	5.83	2500.72	1038.21	0.47
WintersWithEmban	7.212	FW	11270.00	957.37	966.57		966.90	0.003121	5.14	2469.76	618.80	0.38
WintersWithEmban	7.129	FP	12740.00	954.21	964.38		964.55	0.002330	4.92	4598.63	2585.05	0.36
WintersWithEmban	7.129	FW	12740.00	954.21	965.32		965.64	0.002676	5.74	3113.11	844.25	0.39
WintersWithEmban	7.045	FP	12740.00	954.31	962.74		963.06	0.005089	6.86	3577.32	2527.33	0.54
WintersWithEmban	7.045	FW	12740.00	954.31	963.62		964.09	0.004602	6.94	2515.65	744.68	0.50
WintersWithEmban	6.959	FP	12740.00	952.66	961.24		961.41	0.002485	4.69	4742.09	2724.46	0.33
WintersWithEmban	6.959	FW	12740.00	952.66	962.16		962.45	0.002633	5.20	3138.98	836.60	0.34
WintersWithEmban	6.872	FP	12740.00	950.54	959.86		960.13	0.003375	6.11	3725.76	2135.60	0.40
WintersWithEmban	6.872	FW	12740.00	950.54	960.77		961.16	0.003153	6.26	2693.83	674.42	0.39
WintersWithEmban	6.789	FP	12740.00	949.42	958.52		958.72	0.002873	5.52	4167.32	2738.54	0.46
WintersWithEmban	6.789	FW	12740.00	949.42	959.49		959.85	0.002740	5.69	2685.38	651.83	0.43
WintersWithEmban	6.707	FP	12740.00	948.85	956.96		957.19	0.004526	5.76	3675.97	2519.09	0.42
WintersWithEmban	6.707	FW	12740.00	948.85	957.90		958.36	0.004432	6.13	2349.09	614.46	0.42
WintersWithEmban	6.625	FP	12740.00	946.59	955.49		955.67	0.002777	5.52	4531.88	3019.85	0.43
WintersWithEmban	6.625	FW	12740.00	946.59	956.41		956.80	0.002944	6.03	2648.66	665.94	0.43
WintersWithEmban	6.543	FP	12740.00	945.50	954.35		954.50	0.002348	4.87	4643.48	2755.20	0.33
WintersWithEmban	6.543	FW	12740.00	945.50	955.27		955.61	0.002526	5.33	2742.45	594.59	0.34
WintersWithEmban	6.463	FP	12740.00	944.65	953.11		953.33	0.002653	6.07	4552.55	2809.89	0.39
WintersWithEmban	6.463	FW	12740.00	944.65	954.08		954.50	0.002752	6.53	2595.46	580.58	0.39
WintersWithEmban	6.372	FP	12740.00	942.80	951.85		952.03	0.002741	5.63	4671.85	2846.93	0.41
WintersWithEmban	6.372	FW	12740.00	942.80	952.84		953.20	0.002611	5.69	2699.31	619.84	0.38
WintersWithEmban	6.289	FP	12740.00	941.35	950.14		950.46	0.004655	6.13	3556.23	2485.46	0.46
WintersWithEmban	6.289	FW	12740.00	941.35	950.98		951.58	0.005285	6.98	2130.33	547.13	0.49
WintersWithEmban	6.220	FP	12740.00	939.87	949.04		949.18	0.002681	4.71	4804.11	3070.41	0.33
WintersWithEmban	6.220	FW	12740.00	939.87	949.64		950.02	0.003424	5.66	2687.18	711.33	0.38

HEC-RAS Plan: Current mode River: WintersWash Reach: WintersWithEmban (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
WintersWithEmban	6.162	FP	12740.00	939.70	947.80		948.00	0.004440	5.40	3853.57	2885.47	0.41
WintersWithEmban	6.162	FW	12740.00	939.70	948.04		948.51	0.005221	6.03	2321.96	669.15	0.45
WintersWithEmban	6.075	FP	8890.00	937.41	945.86		946.14	0.003528	4.73	2137.52	706.31	0.37
WintersWithEmban	6.075	FW	8890.00	937.41	946.76		946.97	0.001832	3.75	2429.48	562.78	0.27
WintersWithEmban	6.016	FP	8890.00	936.60	944.83		945.12	0.003339	5.35	2193.93	769.97	0.44
WintersWithEmban	6.016	FW	8890.00	936.60	945.82		946.23	0.003434	5.79	1755.62	427.11	0.43
WintersWithEmban	5.928	FP	8890.00	935.55	943.50		943.69	0.002596	3.98	2505.84	843.79	0.31
WintersWithEmban	5.928	FW	8890.00	935.55	944.45		944.74	0.002724	4.48	2034.62	488.12	0.32
WintersWithEmban	5.855	FP	8890.00	933.86	942.36		942.62	0.003598	4.18	2235.53	786.00	0.35
WintersWithEmban	5.855	FW	8890.00	933.86	943.35		943.68	0.003366	4.53	1927.50	495.10	0.34
WintersWithEmban	5.767	FP	8890.00	932.37	940.96		941.18	0.003120	5.14	2500.81	987.04	0.37
WintersWithEmban	5.767	FW	8890.00	932.37	941.93		942.26	0.003295	5.56	1947.93	497.55	0.37
WintersWithEmban	5.685	FP	8890.00	931.30	940.07		940.22	0.001761	4.23	2979.78	985.65	0.29
WintersWithEmban	5.685	FW	8890.00	931.30	941.03		941.23	0.001862	4.57	2553.82	647.70	0.29
WintersWithEmban	5.614	FP	8890.00	930.38	939.02		939.37	0.002848	5.80	1944.63	524.67	0.41
WintersWithEmban	5.614	FW	8890.00	930.38	939.88		940.30	0.003215	6.34	1793.91	396.04	0.42
WintersWithEmban	5.595	FP	8890.00	930.29	938.64	936.78	938.99	0.002794	5.58	1969.88	894.34	0.41
WintersWithEmban	5.595	FW	8890.00	930.29	939.50	937.20	939.89	0.002898	6.03	1848.17	472.96	0.41
WintersWithEmban	5.513	FP	8890.00	929.54	937.51	936.04	937.79	0.002706	5.15	2195.47	963.52	0.37
WintersWithEmban	5.513	FW	8890.00	929.54	938.14	936.63	938.54	0.003403	6.08	1856.88	518.55	0.42
WintersWithEmban	5.425	FP	8890.00	928.70	936.47		936.62	0.002151	3.57	3014.72	1317.95	0.29
WintersWithEmban	5.425	FW	8890.00	928.70	936.84		937.09	0.002636	4.15	2205.31	544.60	0.32
WintersWithEmban	5.336	FP	8890.00	928.57	935.70		935.82	0.001398	3.73	3242.64	856.55	0.28
WintersWithEmban	5.336	FW	8890.00	928.57	935.75		935.97	0.002232	4.74	2487.13	563.07	0.35
WintersWithEmban	5.262	FP	12810.00	925.96	935.03		935.20	0.001786	3.87	3949.13	860.80	0.29
WintersWithEmban	5.262	FW	12810.00	925.96	935.03		935.20	0.001786	3.87	3949.13	860.80	0.29
WintersWithEmban	5.200	FP	12810.00	926.99	934.44		934.59	0.002093	3.20	4130.60	952.90	0.24
WintersWithEmban	5.200	FW	12810.00	926.99	934.44		934.59	0.002093	3.20	4130.60	952.90	0.24
WintersWithEmban	5.117	FP	12810.00	925.03	933.22		933.41	0.003337	3.77	3650.14	1161.38	0.30
WintersWithEmban	5.117	FW	12810.00	925.03	933.22		933.41	0.003337	3.77	3650.14	1161.38	0.30
WintersWithEmban	5.025	FP	12810.00	923.61	929.52	929.52	930.29	0.033163	8.59	1932.94	1210.39	0.88
WintersWithEmban	5.025	FW	12810.00	923.61	929.52	929.52	930.29	0.033163	8.59	1932.94	1210.39	0.88
WintersWithEmban	4.953	FP	12810.00	922.14	926.99		927.13	0.003511	1.65	4457.61	3376.24	0.25
WintersWithEmban	4.953	FW	12810.00	922.14	926.99		927.13	0.003511	1.65	4457.61	3376.24	0.25
WintersWithEmban	4.880	FP	12810.00	921.91	925.91		926.02	0.002506	1.66	5363.33	3617.27	0.24
WintersWithEmban	4.880	FW	12810.00	921.91	925.91		926.02	0.002506	1.66	5363.33	3617.27	0.24
WintersWithEmban	4.799	FP	12810.00	922.11	924.88		924.95	0.002140	2.07	6356.75	3990.24	0.25
WintersWithEmban	4.799	FW	12810.00	922.11	924.88		924.95	0.002140	2.07	6356.75	3990.24	0.25
WintersWithEmban	4.705	FP	12810.00	921.11	923.68		923.76	0.003218	2.17	5537.49	3586.60	0.26
WintersWithEmban	4.705	FW	12810.00	921.11	923.68		923.76	0.003218	2.17	5537.49	3586.60	0.26
WintersWithEmban	4.628	FP	12810.00	919.80	922.23		922.32	0.003729	2.14	5158.77	3515.24	0.27
WintersWithEmban	4.628	FW	12810.00	919.80	922.23		922.32	0.003729	2.14	5158.77	3515.24	0.27
WintersWithEmban	4.546	FP	12810.00	918.37	920.97		921.06	0.002822	2.20	5226.08	3318.66	0.29
WintersWithEmban	4.546	FW	12810.00	918.37	920.97		921.06	0.002822	2.20	5226.08	3318.66	0.29
WintersWithEmban	4.455	FP	12810.00	915.28	919.46		919.58	0.003390	1.94	4637.39	3126.52	0.26
WintersWithEmban	4.455	FW	12810.00	915.28	919.46		919.58	0.003390	1.94	4637.39	3126.52	0.26
WintersWithEmban	4.360	FP	12810.00	914.25	917.51		917.69	0.005205	2.25	3905.81	3062.40	0.31
WintersWithEmban	4.360	FW	12810.00	914.25	917.51		917.69	0.005205	2.25	3905.81	3062.40	0.31
WintersWithEmban	4.275	FP	12810.00	913.25	916.20		916.31	0.002242	1.41	5087.44	3439.37	0.22
WintersWithEmban	4.275	FW	12810.00	913.25	916.20		916.31	0.002242	1.41	5087.44	3439.37	0.22
WintersWithEmban	4.185	FP	12810.00	912.23	914.39		914.58	0.007146	1.97	3749.21	3501.35	0.34
WintersWithEmban	4.185	FW	12810.00	912.23	914.39		914.58	0.007146	1.97	3749.21	3501.35	0.34

HEC-RAS Plan: Current mode River: WintersWash Reach: WintersWithEmban (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
WintersWithEmban	4.097	FP	12810.00	907.24	913.10		913.19	0.001600	1.55	5685.35	3387.46	0.18
WintersWithEmban	4.097	FW	12810.00	907.24	913.10		913.19	0.001600	1.55	5685.35	3387.46	0.18
WintersWithEmban	4.005	FP	12810.00	903.76	911.63	911.26	911.83	0.007145	4.94	3759.44	2856.88	0.46
WintersWithEmban	4.005	FW	12810.00	903.76	911.63	911.26	911.83	0.007145	4.94	3759.44	2856.88	0.46
WintersWithEmban	3.918	FP	12810.00	901.25	908.60		908.79	0.005481	2.94	3765.24	2400.76	0.34
WintersWithEmban	3.918	FW	12810.00	901.25	908.60		908.79	0.005481	2.94	3765.24	2400.76	0.34
WintersWithEmban	3.824	FP	17460.00	900.54	908.27		908.31	0.000434	1.13	11148.80	3596.12	0.11
WintersWithEmban	3.824	FW	17460.00	900.54	908.27		908.31	0.000434	1.13	11148.80	3596.12	0.11
WintersWithEmban	3.744	FP	17460.00	899.35	908.17		908.20	0.000259	1.44	12250.62	2937.51	0.09
WintersWithEmban	3.744	FW	17460.00	899.35	908.17		908.20	0.000259	1.44	12250.62	2937.51	0.09
WintersWithEmban	3.684	FP	17460.00	898.59	908.09		908.11	0.000205	1.11	13160.16	2960.22	0.08
WintersWithEmban	3.684	FW	17460.00	898.59	908.09		908.11	0.000205	1.11	13160.16	2960.22	0.08
WintersWithEmban	3.595	FP	17460.00	897.92	907.97		908.01	0.000234	1.33	11969.27	2725.41	0.09
WintersWithEmban	3.595	FW	17460.00	897.92	907.97		908.01	0.000234	1.33	11969.27	2725.41	0.09
WintersWithEmban	3.511	FP	17460.00	897.99	907.82		907.88	0.000328	1.55	10630.38	2666.02	0.10
WintersWithEmban	3.511	FW	17460.00	897.99	907.82		907.88	0.000328	1.55	10630.38	2666.02	0.10
WintersWithEmban	3.427	FP	17460.00	897.16	907.62		907.69	0.000478	2.02	9608.45	2739.61	0.12
WintersWithEmban	3.427	FW	17460.00	897.16	907.62		907.69	0.000478	2.02	9608.45	2739.61	0.12
WintersWithEmban	3.332	FP	17460.00	893.47	906.99		907.26	0.002214	5.31	5519.50	2100.07	0.28
WintersWithEmban	3.332	FW	17460.00	893.47	906.99		907.26	0.002214	5.31	5519.50	2100.07	0.28
WintersWithEmban	3.245	FP	17460.00	892.52	905.94		906.21	0.002308	4.98	4392.92	1113.99	0.28
WintersWithEmban	3.245	FW	17460.00	892.52	905.94		906.21	0.002308	4.98	4392.92	1113.99	0.28
WintersWithEmban	3.153	FP	17460.00	892.27	902.63	902.63	903.83	0.014206	10.01	2215.22	863.65	0.66
WintersWithEmban	3.153	FW	17460.00	892.27	902.63	902.63	903.83	0.014206	10.01	2215.22	863.65	0.66
WintersWithEmban	3.064	FP	17460.00	891.34	901.00		901.18	0.002196	3.51	5467.55	1853.77	0.25
WintersWithEmban	3.064	FW	17460.00	891.34	901.00		901.18	0.002196	3.51	5467.55	1853.77	0.25
WintersWithEmban	2.975	FP	17460.00	894.59	899.76		899.96	0.003217	3.55	5128.72	1969.08	0.29
WintersWithEmban	2.975	FW	17460.00	894.59	899.76		899.96	0.003217	3.55	5128.72	1969.08	0.29
WintersWithEmban	2.895	FP	17460.00	891.78	898.09		898.39	0.004202	4.72	3979.13	999.87	0.35
WintersWithEmban	2.895	FW	17460.00	891.78	898.09		898.39	0.004202	4.72	3979.13	999.87	0.35
WintersWithEmban	2.825	FP	17460.00	890.91	896.68		896.93	0.003642	4.06	4363.73	1255.96	0.32
WintersWithEmban	2.825	FW	17460.00	890.91	896.68		896.93	0.003642	4.06	4363.66	1255.96	0.32
WintersWithEmban	2.751	FP	17460.00	888.83	894.29		894.74	0.009091	5.91	3261.80	1199.93	0.49
WintersWithEmban	2.751	FW	17460.00	888.83	894.29		894.74	0.009091	5.91	3261.87	1199.94	0.49
WintersWithEmban	2.678	FP	17460.00	889.52	893.38	892.27	893.81	0.001088	5.99	3357.22	2252.63	0.54
WintersWithEmban	2.678	FW	17460.00	889.52	893.38	892.27	893.81	0.001087	5.99	3358.03	2255.25	0.54
WintersWithEmban	2.652	FP	17460.00	881.07	893.33	891.13	893.54	0.002028	4.35	5286.69	1457.84	0.26
WintersWithEmban	2.652	FW	17460.00	881.07	893.33	891.13	893.54	0.002027	4.35	5287.68	1457.86	0.26
WintersWithEmban	2.602	FP	17460.00	880.98	892.46	891.12	892.80	0.004003	6.61	4275.74	1129.85	0.37
WintersWithEmban	2.602	FW	17460.00	880.98	892.46	891.12	892.80	0.004003	6.61	4275.74	1129.85	0.37

Winters Wash without Embankment

HEC-RAS Plan: Current mode River: Winters Wash Reach: Winters Wash Profile: PF 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Winters Wash	3.520	PF 1	17460.00	898.88	905.98		906.06	0.001110	2.38	8099.60	2881.94	0.18
Winters Wash	3.479	PF 1	17460.00	902.61	905.59		905.69	0.002473	2.08	6986.78	2520.34	0.32
Winters Wash	3.440	PF 1	17460.00	902.45	904.99		905.12	0.003427	3.25	6041.46	2605.96	0.41
Winters Wash	3.401	PF 1	17460.00	902.15	903.95		904.17	0.007223	3.85	4623.10	2583.52	0.56
Winters Wash	3.341	PF 1	17460.00	901.00	902.92		903.06	0.002196	2.18	6032.71	2632.45	0.31
Winters Wash	3.270	PF 1	17460.00	899.99	901.78		901.96	0.003447	2.81	5303.28	2669.94	0.39
Winters Wash	3.179	PF 1	17460.00	897.63	900.23		900.42	0.003003	3.42	5416.03	2830.62	0.39
Winters Wash	3.099	PF 1	17460.00	896.04	899.14		899.29	0.002092	3.28	6029.91	3032.54	0.34
Winters Wash	3.011	PF 1	17460.00	895.78	897.99		898.10	0.003073	3.01	6450.36	3649.37	0.38
Winters Wash	2.930	PF 1	17460.00	894.03	896.92		897.00	0.001760	2.84	7400.50	3623.21	0.31
Winters Wash	2.844	PF 1	17460.00	893.12	895.92		896.06	0.002805	3.18	5915.08	2560.17	0.38
Winters Wash	2.754	PF 1	17460.00	888.83	893.93		894.18	0.007024	4.76	4428.92	2526.35	0.42
Winters Wash	2.678	PF 1	17460.00	889.52	893.04		893.32	0.001000	5.39	4305.17	2027.96	0.51
Winters Wash	2.652	PF 1	17460.00	881.07	892.99		893.11	0.001343	3.45	6941.75	2134.98	0.21
Winters Wash	2.602	PF 1	17460.00	880.98	892.22	891.04	892.52	0.004001	6.26	4535.64	1423.68	0.36

E.7 CHECK-RAS Output

Delaney Wash
CheckRAS Reports

Delaney Wash

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain;Floodway
Date: 10/5/2011
Time: 1:04:10 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
Delaney Split1,SouthSplit						
.663		0.042	-----	-----	0.1	0.3
.579		0.042	-----	-----	0.1	0.3
.491		0.042	-----	-----	0.1	0.3
.403		0.042	-----	-----	0.1	0.3
.309		0.042	-----	-----	0.1	0.3
.221		0.042	-----	-----	0.1	0.3
.157		0.042	-----	-----	0.1	0.3
Delaney Wash,DelaneyUpstream						
.065		0.065	0.065	-----	0.1	0.3
		-----	0.042	-----		
5.579		0.042	0.065	0.042	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
5.51		0.042	0.065	0.042	0.1	0.3
		-----	0.046	-----		
5.44		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	-----		
5.357		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	-----		
5.316		0.042	0.065	0.042	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
5.273		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	-----		
5.179		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	-----		
5.097		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	-----		
5.021		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	-----		
4.957		0.042	0.042	0.065	0.1	0.3
		-----	0.065	0.042		
		-----	0.046	-----		
		-----	0.065	-----		
4.893		0.042	0.065	0.042	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
4.827		0.042	0.065	-----	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
		-----	0.042	-----		
Delaney Wash,NorthSplit						
4.777		0.042	0.065	0.042	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
4.693		0.042	0.065	-----	0.1	0.3
		0.065	0.046	-----		

	-----	0.065	-----		
	-----	0.042	-----		
4.605	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
4.519	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
4.43	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
4.327	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
4.237	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
4.167	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
Delaney Wash,DelaneyDownstm					
4.047	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
3.946	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
3.871	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
3.815	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
3.757	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
3.709	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
3.64	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
3.56	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
3.499	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
3.446	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
3.371	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
3.289	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
3.21	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
3.139	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		

3.111	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
3.073	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
3.033	0.042	0.065	0.046	0.1	0.3
	0.065	0.046	0.065		
	-----	-----	0.042		
2.951	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
2.858	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
2.792	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
2.727	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
2.676	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
2.584	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	0.02		
2.519	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
2.458	0.042	0.065	-----	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
2.387	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
2.305	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
2.236	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
2.154	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
2.142	0.02	-----	-----	0.1	0.3
2.128	0.065	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
2.055	0.042	0.065	0.046	0.1	0.3
	0.065	0.046	0.065		
	-----	-----	0.042		
2.007	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
1.947	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
1.9	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
1.848	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
1.797	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		

Very clean, smooth, well-maintained paved road.

	-----	0.065	-----		
1.739	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
1.666	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
1.592	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
1.515	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
1.438	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
1.339	0.065	0.046	-----	0.1	0.3
	-----	0.065	-----		
	-----	0.042	-----		
1.255	0.065	0.046	0.042	0.1	0.3
	0.046	0.065	-----		
1.151	0.065	0.046	0.065	0.1	0.3
	0.046	0.065	0.042		
1.053	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
.935	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	0.02		
.864	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	0.02		
.772	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
.69	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	0.02		
.606	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	0.02		
.539	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
.48	0.042	0.02	-----	0.1	0.3
	0.02	0.046	-----		
	-----	0.042	-----		
.437	0.046	-----	-----	0.1	0.3
.345	0.046	-----	-----	0.1	0.3
.291	0.046	-----	-----	0.1	0.3
.228	0.046	-----	-----	0.1	0.3
.158	0.046	-----	-----	0.1	0.3
.086	0.046	-----	-----	0.1	0.3
.011	0.046	-----	-----	0.1	0.3
	-----	-----	0.042		

Very clean, smooth, well-maintained paved road.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.065
Right Overbank n Value:	0.02	0.065
Channel n Value:	0.02	0.065
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 5.51
NT RC 05 The left overbank n value of 0.042 and the right overbank n value
of 0.042 are less than or equal to the channel n value of 0.046
The overbank n values should be reevaluated.

The channel has heavy vegetation therefore overbank n-values are less.

RS: 3.757
NT RC 05 The left overbank n value of 0.042 and the right overbank n value
of 0.042 are less than or equal to the channel n value of 0.046
The overbank n values should be reevaluated.

RS: 2.142
NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.
The n value should be reevaluated.

Very clean, smooth, well-maintained paved road.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

Delaney Wash

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 10/5/2011
Time: 1:13:51 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
Delaney Split1,SouthSplit							
0.663					9763.81	10585.85	
0.663	0	0	0	0	9763.81	10585.85	
0.579					9533.67	10485.75	
0.579	0	0	0	0	9533.67	10485.75	
0.491					9513.4	10390.58	
0.491	0	0	0	0	9513.4	10390.58	
0.403					9469.43	10292.38	
0.403	0	0	0	0	9469.43	10292.38	
0.309					9665.5	10213.6	
0.309	0	0	0	0	9665.5	10213.6	
0.221					9720.3	10284.57	
0.221	0	0	0	0	9720.3	10284.57	
0.157					9734.32	10184.85	
0.157	0	0	0	0	9734.32	10184.85	
0.065					9964.01	10262.52	
0.065	0	0	0	0	9964.01	10262.52	
Delaney Wash,DelaneyUpstream							
5.579					9834.09	10566.53	
5.579	0	0	0	0	9834.09	10566.53	
5.51					9753.63	10271.5	
5.51	0	0	0	0	9753.63	10271.5	
5.44					9532.33	10542.7	
5.44	0	0	0	0	9532.33	10542.7	
5.357					9504.41	10446.24	
5.357	0	0	0	0	9504.41	10446.24	
5.316					9344.54	10369.71	
5.316	0	0	0	0	9344.54	10369.71	
5.273					9575.71	10289.74	
5.273	0	0	0	0	9575.71	10289.74	
5.179					9354.72	10370.84	
5.179	0	0	0	0	9354.72	10370.84	
5.097					9419.84	10564.53	
5.097	0	0	0	0	9419.84	10564.53	
5.021					9330.46	11230.11	
5.021	0	0	0	0	9330.46	11230.11	
4.957					9110.72	11054.68	
4.957	0	0	0	0	9110.72	11054.68	
4.893					8828.52	10984.74	
4.893	0	0	0	0	8828.52	10984.74	
4.827					9031.48	10828.08	
4.827	0	0	0	0	9031.48	10828.08	
4.777					9064.88	10923.59	
4.777	0	0	0	0	9064.88	10923.59	
Delaney Wash,NorthSplit							
4.693					9290.92	10052.43	
4.693	0	0	0	0	9290.92	10052.43	
4.605					9631.3	10067.22	
4.605	0	0	0	0	9631.3	10067.22	
4.519					9552.28	10222.4	
4.519	0	0	0	0	9552.28	10222.4	
4.43					9689.01	10180.3	
4.43	0	0	0	0	9689.01	10180.3	
4.327					9738.51	10044.71	

Floodway not appropriate for this area.

4.327	0	0	0	0	9738.51	10044.71
4.237					9774.08	10105.58
4.237	0	0	0	0	9774.08	10105.58
4.167					9905.09	10109.63
4.167	0	0	0	0	9905.09	10109.63
4.047					9971.12	10059.3
4.047	0	0	0	0	9971.12	10059.3
Delaney Wash,DelaneyDownstm						
3.946					9709.32	10429.63
3.946	4	0	9658.09	10525.56	9709.32	10429.63
3.871					9543.28	10187.51
3.871	4	0	9506.45	10347.79	9543.28	10187.51
3.815					9563.03	10248.2
3.815	4	0	9512.62	10401.82	9563.03	10248.2
3.757					9628	10318.01
3.757	4	0	9610.39	10548.89	9628	10318.01
3.709					9525.06	10528.97
3.709	4	0	9425.71	10721.25	9525.06	10528.97
3.64					9644.85	10567.11
3.64	4	0	9600.42	10906.23	9644.85	10567.11
3.56					9738.38	10674.54
3.56	4	0	9710.34	11013.76	9738.38	10674.54
3.499					9763.78	10685.12
3.499	4	0	9733.56	10863.74	9763.78	10685.12
3.446					9654.4	10655.93
3.446	4	0	9616.29	10732.06	9654.4	10655.93
3.371					9774.05	10575.5
3.371	4	0	9735.43	10702.66	9774.05	10575.5
3.289					9782.3	10493.69
3.289	4	0	9568.62	10616.7	9782.3	10493.69
3.21					9391.11	10390.4
3.21	4	0	9357.29	10541.79	9391.11	10390.4
3.139					9179.92	10149.92
3.139	4	0	9113.23	10207.16	9179.92	10149.92
3.111					9060.91	10088.09
3.111	4	0	9003.53	10198.36	9060.91	10088.09
3.073					8831.06	10056.88
3.073	4	0	8578.24	10369.5	8831.06	10056.88
3.033					8927.6	10002.48
3.033	4	0	8427.75	10246.63	8927.6	10002.48
2.951					9942.89	10041.22
2.951	4	0	9842.19	10112.36	9942.89	10041.22
2.858					9961.01	10066.73
2.858	4	0	9842.94	10260.17	9961.01	10066.73
2.792					9881.55	10059.94
2.792	4	0	9697.31	10114.01	9881.55	10059.94
2.727					9932.27	10049.83
2.727	4	0	9427.67	10244.55	9932.27	10049.83
2.676					9951.44	10048.53
2.676	4	0	9540.67	10465.24	9951.44	10048.53
2.584					9881.35	10238.18
2.584	4	0	9770.48	10590.37	9881.35	10238.18
2.519					9778.62	10149.17
2.519	4	0	9728.4	10210.61	9778.62	10149.17
2.458					9474.11	10121.65
2.458	4	0	8482.76	10265.83	9474.11	10121.65
2.387					9201.77	10046.6
2.387	4	0	8637.7	10097.93	9201.77	10046.6
2.305					9331.17	10152.82
2.305	4	0	8858.32	10228.05	9331.17	10152.82
2.236					9454.89	10567.66
2.236	4	0	9057.73	10600.78	9454.89	10567.66
2.154					9559.18	10402.64
2.154	4	0	9238.09	10661.13	9559.18	10402.64
2.142					9642.35	10287.36
2.142	4	0.59	9217.15	11011.73	9538.95	10483.63
2.128					9720.16	10130.73

Floodway not appropriate for this area.

411th Ave.

2.128	19	0.55	9893.48	10125.56	9893.48	10125.56
2.055					9420.43	10089.71
2.055	19	0.79	9922.81	10058.08	9922.81	10053.64
2.007					9284.08	10131.46
2.007	19	0.85	9922.02	10059.03	9922.02	10059.03
1.947					9220.38	10148.65
1.947	19	0.28	9908.14	10034.35	9908.14	10033.08
1.9					9155.98	10212.67
1.9	1	0.54	9868.6	10149.35	9868.6	10145.26
1.848					8975.83	10136.81
1.848	19	0.88	9671.22	10133.83	9671.22	10133.83
1.797					8756.57	10052.43
1.797	19	0.74	9550.94	10054.6	9550.94	10054.6
1.739					9102.89	10051.92
1.739	19	0.85	9614.38	10042.57	9614.38	10042.57
1.666					9536.58	10538.83
1.666	19	0.74	9816.64	10083.69	9816.64	10083.69
1.592					9951.21	10831.92
1.592	19	0.74	9947.74	10070.84	9949.44	10070.84
1.515					9896.9	10768.39
1.515	19	0.69	9902.83	10050.02	9902.83	10050.02
1.438					9954.24	10968.67
1.438	19	0.37	9956.59	10177.87	9956.59	10177.87
1.339					9972.81	10935.85
1.339	1	0.76	9976.5	10261.73	9976.5	10261.73
1.255					9977.21	10721.6
1.255	19	0.84	9981.57	10298.07	9981.57	10298.07
1.151					9675.97	10636.58
1.151	19	0.89	9952.34	10272.77	9952.34	10272.77
1.053					9964.65	10691.38
1.053	1	0.58	9962.9	10197.02	9963.14	10197.02
0.935					9954.33	10905.5
0.935	1	0.94	9953.2	10356.36	9953.2	10356.36
0.864					9946.28	10916.24
0.864	19	0.99	9952.46	10523	9952.46	10523
0.772					9962.63	10844.18
0.772	19	0.46	9966.44	10374.59	9966.44	10374.59
0.69					9842.75	10773.84
0.69	19	0.37	9910.14	10314.93	9910.14	10314.93
0.606					9760.78	10439.71
0.606	19	0.29	9954.15	10203.72	9954.15	10203.72
0.539					9887.8	10052.88
0.539	19	0.1	9935.09	10060.92	9935.09	10053.02
0.48					9883.22	10121.07
0.48	19	0.02	9911.75	10116.84	9911.75	10116.84
0.437					9970.45	10044.53
0.437	19	0.02	9962.02	10057.26	9970.28	10044.56
0.345					9974.32	10035.21
0.345	19	0.05	9967.08	10037.08	9974.29	10035.28
0.291					9970.74	10040.71
0.291	19	0.07	9970.38	10040.79	9970.67	10040.78
0.228					9948.83	10033.27
0.228	19	0.04	9971.36	10036.85	9971.36	10033.38
0.158					9958.12	10058.74
0.158	19	0.06	9950.01	10042.06	9958.07	10042.06
0.086					9929.59	10102.66
0.086	1	0.01	9946.8	10102.53	9946.8	10102.53
0.011					9912.02	10083.73
0.011	19	0	9907.66	10099.66	9912.02	10083.73

ENCROACHMENT METHOD CHECK

RS: 0.663
FW EM 01 Floodway encroachment method is not selected at this section.

Floodway not appropriate for this area.

```
RS:       0.579
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.491
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.403
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.309
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.221
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.157
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.065
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.579
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.51
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.44
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.357
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.316
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.273
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.179
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.097
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.021
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.957
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.893
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.827
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.777
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.693
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.605
FW EM 01  Floodway encroachment method is not selected at this section.
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Floodway not appropriate for this area.

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RS:       4.519
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.43
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.327
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.237
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.167
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.047
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.946
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.871
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.815
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.757
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.709
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.64
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.56
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.499
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.446
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.371
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.
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Floodway not appropriate for this area.

RS: 3.289
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.21
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.139
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.111
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.073
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.033
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.951
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.858
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.792
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.727
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.676
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.584
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.519
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 2.458

Floodway not appropriate for this area.

FW EM 04 Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS: 2.387
FW EM 04 Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS: 2.305
FW EM 04 Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS: 2.236
FW EM 04 Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS: 2.154
FW EM 04 Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS: 2.142
FW EM 04 Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

Floodway not appropriate for this area.

FLOODWAY WIDTH CHECK

RS: 0.579
FW FW 03 The right channel bank station may not be at the proper
          location.

RS: 0.491
FW FW 03 The Left channel bank station may not be at the proper
          location.

RS: 0.491
FW FW 03 The right channel bank station may not be at the proper
          location.

RS: 0.403
FW FW 03 The Left channel bank station may not be at the proper
          location.

RS: 0.309
FW FW 03 The Left channel bank station may not be at the proper
          location.

RS: 0.221
FW FW 03 The Left channel bank station may not be at the proper
          location.

RS: 0.157
FW FW 03 The Left channel bank station may not be at the proper
          location.

RS: 5.579
FW FW 03 The Left channel bank station may not be at the proper
          location.

RS: 5.44
FW FW 03 The Left channel bank station may not be at the proper

location.

RS: 5.44
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.316
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.179
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.097
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.097
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.827
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.777
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.605
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.519
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.519
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.327
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.047
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.047
FW FW 06 The left station effective of 9971.12 for the floodway profile is more than the left channel bank station of 9953.01
The left side of the floodway boundary is within the channel.
The left encroachment station of 0 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 3.946
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.946
FW FW 03 The right channel bank station may not be at the proper location.

Floodway not appropriate for this area.

RS: 3.946
FW FW 04 The left station effective of 9709.32 for 1% annual chance floodplain is less than the left channel bank station 9948.24
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9658.09) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.946
FW FW 04 The right station effective of 10429.63 for 1% annual chance floodplain is greater than the right channel bank station (10057.22).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10525.56) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.871
FW FW 04 The left station effective of 9543.28 for 1% annual chance floodplain is less than the left channel bank station 9959.85
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9506.45) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.871
FW FW 04 The right station effective of 10187.51 for 1% annual chance floodplain is greater than the right channel bank station (10056.24).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10347.79) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.815
FW FW 04 The left station effective of 9563.03 for 1% annual chance floodplain is less than the left channel bank station 9939.02
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9512.62) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.815
FW FW 04 The right station effective of 10248.2 for 1% annual chance floodplain is greater than the right channel bank station (10074.25).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10401.82) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.757
FW FW 04 The left station effective of 9628 for 1% annual chance floodplain is less than the left channel bank station 9932.94
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9610.39) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.757
FW FW 04 The right station effective of 10318.01 for 1% annual chance floodplain is greater than the right channel bank station (10040.66).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10548.89) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.709
FW FW 03 The right channel bank station may not be at the proper location.

Floodway not appropriate for this area.

RS: 3.709
FW FW 04 The left station effective of 9525.06 for 1% annual chance floodplain is less than the left channel bank station 9968.91
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9425.71) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.709
FW FW 04 The right station effective of 10528.97 for 1% annual chance floodplain is greater than the right channel bank station (10053.55).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10721.25) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.64
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.64
FW FW 04 The left station effective of 9644.85 for 1% annual chance floodplain is less than the left channel bank station 9962.96
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9600.42) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.64
FW FW 04 The right station effective of 10567.11 for 1% annual chance floodplain is greater than the right channel bank station (10034.03).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10906.23) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.56
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.56
FW FW 04 The left station effective of 9738.38 for 1% annual chance floodplain is less than the left channel bank station 9956.87
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9710.34) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.56
FW FW 04 The right station effective of 10674.54 for 1% annual chance floodplain is greater than the right channel bank station (10040.99).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11013.76) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.499
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.499
FW FW 04 The left station effective of 9763.78 for 1% annual chance floodplain is less than the left channel bank station 9926.1
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9733.56) is outside of 1% annual chance floodplain.

Floodway not appropriate for this area.

The left encroachment station should be adjusted.

RS: 3.499
FW FW 04 The right station effective of 10685.12 for 1% annual chance floodplain is greater than the right channel bank station (10044.66).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10863.74) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.446
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.446
FW FW 04 The left station effective of 9654.4 for 1% annual chance floodplain is less than the left channel bank station 9956.83
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9616.29) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.446
FW FW 04 The right station effective of 10655.93 for 1% annual chance floodplain is greater than the right channel bank station (10044.34).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10732.06) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.371
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.371
FW FW 04 The left station effective of 9774.05 for 1% annual chance floodplain is less than the left channel bank station 9959.11
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9735.43) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.371
FW FW 04 The right station effective of 10575.5 for 1% annual chance floodplain is greater than the right channel bank station (10041.43).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10702.66) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.289
FW FW 04 The left station effective of 9782.3 for 1% annual chance floodplain is less than the left channel bank station 9966.92
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9568.62) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.289
FW FW 04 The right station effective of 10493.69 for 1% annual chance floodplain is greater than the right channel bank station (10044.85).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10616.7) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.21

Floodway not appropriate for this area.

FW FW 04 The left station effective of 9391.11 for 1% annual chance floodplain is less than the left channel bank station 9955.54
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9357.29) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.21
FW FW 04 The right station effective of 10390.4 for 1% annual chance floodplain is greater than the right channel bank station (10029.15).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10541.79) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.139
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.139
FW FW 04 The left station effective of 9179.92 for 1% annual chance floodplain is less than the left channel bank station 9970.28
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9113.23) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.139
FW FW 04 The right station effective of 10149.92 for 1% annual chance floodplain is greater than the right channel bank station (10080.26).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10207.16) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 3.111
FW FW 04 The left station effective of 9060.91 for 1% annual chance floodplain is less than the left channel bank station 9955.14
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9003.53) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.111
FW FW 06 The right station effective of 10088.09 for the floodway profile is less than the right channel bank station of 10088.18
The right side of the floodway boundary is within the channel.
The right encroachment station of 10198.36 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 3.073
FW FW 04 The left station effective of 8831.06 for 1% annual chance floodplain is less than the left channel bank station 9955.45
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8578.24) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.073
FW FW 04 The right station effective of 10056.88 for 1% annual chance floodplain is greater than the right channel bank station (10048.06).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10369.5) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.033
FW FW 04 The left station effective of 8927.6 for 1% annual chance floodplain is less than the left channel bank station 9910.13
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8427.75) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.033
FW FW 06 The right station effective of 10002.48 for the floodway profile is less than the right channel bank station of 10004.66
The right side of the floodway boundary is within the channel.
The right encroachment station of 10246.63 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 2.951
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.951
FW FW 04 The left station effective of 9942.89 for 1% annual chance floodplain is less than the left channel bank station 9959.23
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9842.19) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.951
FW FW 04 The right station effective of 10041.22 for 1% annual chance floodplain is greater than the right channel bank station (10030.68).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10112.36) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.858
FW FW 05 The 1% annual chance flood is contained within the channel.
Left encroachment station 9842.94 is outside the channel.
Left channel bank station is 9952.71
Left encroachment station and/or left channel bank station should be adjusted.

RS: 2.858
FW FW 05 The 1% annual chance flood is contained within the channel.
Right encroachment station 10260.17 is outside the channel.
Right channel bank station is 10082.69
Right encroachment station and/or right channel bank station should be adjusted.

RS: 2.858
FW FW 06 The left station effective of 9961.01 for the floodway profile is more than the left channel bank station of 9952.71
The left side of the floodway boundary is within the channel.
The left encroachment station of 9842.94 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 2.858
FW FW 06 The right station effective of 10066.73 for the floodway profile is less than the right channel bank station of 10082.69
The right side of the floodway boundary is within the channel.
The right encroachment station of 10260.17 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

Floodway not appropriate for this area.

RS: 2.792
FW FW 04 The right station effective of 10059.94 for 1% annual chance floodplain is greater than the right channel bank station (10029.58).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10114.01) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.792
FW FW 06 The left station effective of 9881.55 for the floodway profile is more than the left channel bank station of 9879.03
The left side of the floodway boundary is within the channel.
The left encroachment station of 9697.31 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 2.727
FW FW 04 The left station effective of 9932.27 for 1% annual chance floodplain is less than the left channel bank station 9968.77
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9427.67) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.727
FW FW 06 The right station effective of 10049.83 for the floodway profile is less than the right channel bank station of 10061.81
The right side of the floodway boundary is within the channel.
The right encroachment station of 10244.55 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

Floodway not appropriate for this area.

RS: 2.676
FW FW 05 The 1% annual chance flood is contained within the channel.
Left encroachment station 9540.67 is outside the channel.
Left channel bank station is 9904.52
Left encroachment station and/or left channel bank station should be adjusted.

RS: 2.676
FW FW 05 The 1% annual chance flood is contained within the channel.
Right encroachment station 10465.24 is outside the channel.
Right channel bank station is 10062.97
Right encroachment station and/or right channel bank station should be adjusted.

RS: 2.676
FW FW 06 The left station effective of 9951.44 for the floodway profile is more than the left channel bank station of 9904.52
The left side of the floodway boundary is within the channel.
The left encroachment station of 9540.67 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 2.676
FW FW 06 The right station effective of 10048.53 for the floodway profile is less than the right channel bank station of 10062.97
The right side of the floodway boundary is within the channel.
The right encroachment station of 10465.24 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 2.584
FW FW 03 The right channel bank station may not be at the proper

location.

RS: 2.584
FW FW 04 The left station effective of 9881.35 for 1% annual chance floodplain is less than the left channel bank station 9965
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9770.48) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.584
FW FW 04 The right station effective of 10238.18 for 1% annual chance floodplain is greater than the right channel bank station (10076.95).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10590.37) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.519
FW FW 04 The left station effective of 9778.62 for 1% annual chance floodplain is less than the left channel bank station 9931.24
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9728.4) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.519
FW FW 04 The right station effective of 10149.17 for 1% annual chance floodplain is greater than the right channel bank station (10069.05).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10210.61) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 2.458
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.458
FW FW 04 The left station effective of 9474.11 for 1% annual chance floodplain is less than the left channel bank station 9911.42
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8482.76) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.458
FW FW 04 The right station effective of 10121.65 for 1% annual chance floodplain is greater than the right channel bank station (10100.53).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10265.83) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.387
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.387
FW FW 04 The left station effective of 9201.77 for 1% annual chance floodplain is less than the left channel bank station 9897.72
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8637.7) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.387

FW FW 06 The right station effective of 10046.6 for the floodway profile is less than the right channel bank station of 10063.32
The right side of the floodway boundary is within the channel.
The right encroachment station of 10097.93 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 2.305
FW FW 04 The left station effective of 9331.17 for 1% annual chance floodplain is less than the left channel bank station 9846.96
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8858.32) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.305
FW FW 04 The right station effective of 10152.82 for 1% annual chance floodplain is greater than the right channel bank station (10080.75).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10228.05) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.236
FW FW 04 The left station effective of 9454.89 for 1% annual chance floodplain is less than the left channel bank station 9921.7
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9057.73) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.236
FW FW 04 The right station effective of 10567.66 for 1% annual chance floodplain is greater than the right channel bank station (10061.19).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10600.78) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.154
FW FW 04 The left station effective of 9559.18 for 1% annual chance floodplain is less than the left channel bank station 9917.52
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9238.09) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.154
FW FW 04 The right station effective of 10402.64 for 1% annual chance floodplain is greater than the right channel bank station (10041.49).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10661.13) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.142
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.142
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.142
FW FW 04 The left station effective of 9642.35 for 1% annual chance floodplain is less than the left channel bank station 9924.3

Floodway not appropriate for this area.

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          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9217.15) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       2.142
FW FW 04  The right station effective of 10287.36 for 1% annual chance floodplain
          is greater than the right channel bank station (10069.86).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (11011.73) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       2.128
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.9
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.739
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.151
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.864
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.69
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.606
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.606
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.48
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.48
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.158
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.086
FW FW 03  The Left channel bank station may not be at the proper
          location.
SURCHARGE CHECK
---------------
DISCHARGE CHECK
---------------
STARTING WATER-SURFACE ELEVATION CHECK
--------------------------------------
---END---
```

Floodway not appropriate for this area.

**General Note* Bank stations were checked and verified based upon aerial photography and topography.*

Delaney Wash

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain;Floodway
Date: 10/11/2011
Time: 9:36:11 AM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
Delaney Split1,SouthSplit						
.663	411.24	444.14	412.35	822.04	1900	
.579	434.84	462.93	431.42	952.08	1900	
.491	455.29	467.11	470.35	873.63	1900	D
.403	494.28	492.81	456.44	822.96	1900	
.309	464.55	463.97	477.53	548.1	1900	
.221	340.85	341.26	345.4	564.28	1900	
.157	498.07	484.4	440.05	450.52	1900	
.065	0	0	0	298.52	1900	
Delaney Wash,DelaneyUpstream						
5.579	315.03	363.21	410.44	670.6	3920	D
5.51	357.87	369.59	364.69	517.88	3920	B
5.44	435.81	438.03	439.76	915.46	3920	D,B
5.357	210.42	219.58	223.45	941.84	3920	
5.316	228.55	226.91	222.25	699.91	3920	D,B
5.273	480.06	496.23	496.16	636.61	3920	D,B
5.179	424.33	433.12	445.57	950.53	3920	D,B
5.097	396.63	400.86	405.69	987.96	3920	D,B
5.021	312.61	335.19	308.55	1893.43	3920	D
4.957	314.54	336.19	322.71	1859.97	3920	D
4.893	307.94	348.61	376.26	1999.59	3920	D
4.827	239.45	266.4	287.31	1786.94	3920	D
4.777	0	0	0	1840.53	3920	D
Delaney Wash,NorthSplit						
4.693	434.067	464.613	454.396	660.54	2020	D
4.605	487.72	453.344	439.026	410	2020	D
4.519	507.568	468.204	447.696	670.12	2020	
4.43	546.302	542.383	540.121	491.3	2020	
4.327	476.871	476.481	475.149	306.2	2020	
4.237	391.31	370.7	354.858	306.57	2020	D
4.167	660.226	633.44	603.3	201.34	2020	D
4.047	261.15	333.98	396.52	88.19	2020	
Delaney Wash,DelaneyDownstm						
3.946	319.17	399.23	420.71	674.12	3920	D
3.871	240.51	294.28	319.32	637.49	3920	D
3.815	244.91	306.05	303.19	625.54	3920	D
3.757	267.03	256.08	266.83	690.02	3920	
3.709	359.02	363.12	323.37	1003.91	3920	
3.64	444.95	422.92	384.08	795.59	3920	D
3.56	360.78	322.04	263	915.56	3920	D
3.499	287.18	275.85	239.07	888.9	3920	D
3.446	412.88	400.49	361.34	996.7	3920	D
3.371	428.64	431.34	438.25	779.31	3920	D
3.289	411.41	414.65	416.64	685.42	3920	D
3.21	388.44	378.93	373.67	885.63	3920	D
3.139	153.13	146.49	142.77	245.36	3920	D
3.111	177.27	200.89	207.51	333.64	3920	D
3.073	166.52	211.58	222.59	938.68	3920	D,B
3.033	433.04	431.39	427.26	858.44	3920	D,B
2.951	531.18	489.34	457.72	98.33	1540	
2.858	262.97	352.49	286.67	105.72	1540	
2.792	257.06	342.12	381.34	178.39	1540	
2.727	274.53	267.38	274.69	117.56	1540	
2.676	478.17	485.34	429.93	97.1	1540	

Blocked due to structure in flood zone.

Blocked due to embankment for stock pond.

2.584	337.25	342.09	290.45	349.02	1540	D
2.519	307.42	324.3	337.52	370.55	1540	
2.458	360.94	376.04	382.83	641.37	3920	D,C
2.387	309.63	433.93	387.91	832.16	3920	D
2.305	326.35	362.91	368.15	821.65	3920	
2.236	410.59	432.06	417.61	1112.77	3920	
2.154	67.8	64.81	63.25	843.46	3920	C
2.142	74.66	72.41	72.65	645.01	3920	
2.128	415.58	385.81	327.31	385.93	3920	D
2.055	254.75	255.59	255.4	558.59	3920	D
2.007	334.01	314.24	309.47	730.63	3920	D
1.947	248.44	249.25	254.22	908.24	3920	D,E
1.9	245.35	274.39	233	849.24	3920	D,E
1.848	214.45	268.1	235.76	1148.18	3920	D
1.797	260.3	308.29	327.42	1099.41	3920	D,B
1.739	331.72	383.07	360.02	916.49	3920	D
1.666	414.37	391.7	394.37	988.92	3920	D
1.592	432.32	405.54	390.75	659.49	3920	D,B
1.515	363.34	410.25	316.71	845.03	3920	D
1.438	612.7	522.7	477.49	912.22	3920	D,B
1.339	459.52	440.65	408.63	899.94	3920	D
1.255	530.37	547.14	532.38	738.21	3920	D
1.151	589.31	521.96	459.83	685.94	3920	E
1.053	404.58	621.58	671.73	726.72	3920	
.935	381.38	374.7	352.84	943.21	3920	D
.864	486.61	486.69	426.37	809.92	3920	D
.772	512.35	429.27	234.26	881.55	3920	
.69	357.6	445.66	546.5	863.75	3920	D
.606	356.33	355.57	355.4	677.52	3920	D
.539	300.52	308.91	285.06	165.08	3920	
.48	224.09	228.26	235.99	237.85	3920	
.437	468.13	485.33	509.5	74.08	3920	
.345	281.73	284.69	291.61	60.89	3920	
.291	322.54	335.69	348.69	69.97	3920	
.228	423.45	365.49	343.34	84.44	3920	C
.158	387.52	381.15	380.3	100.62	3920	
.086	396.34	396.51	436.17	173.07	3920	
.011	58	58	58	171.71	3920	

"C" flow due to sudden increase in flood zone from return of split flow. Fr=0.82

"C" flow due to conveyance constraint at roadway (411th Avenue) downstream. Fr=0.75

Cross section not extended due to co-mingling of flows from agricultural fields.

Blocked due embankment for stock pond.

Cross section not extended due to co-mingling of flows from agricultural fields.

"C" flow due to sudden decrease/increase in conveyance area by neighboring cross sections. Fr=0.93

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

XS JT 01 Junction option is used.
For flood insurance study, this option should be used
if the tributary and main stream can have coincident peaks,
or it may be used for the stream without floodway.
It may also be used if the discharges at different time periods
are known from the rainfall-runoff model.
How to remove the junction is explained under Help.

This junction was used to estimate the split flow using the optimization option. Since split flows were estimated this option

XS JT 03 The name of junction is : Confluence 1
The reach length at the most downstream cross section for the
'Delaney Wash and NorthSplit' is not equal to zero.
Please set the reach length equal to zero if juction can be considered.

XS JT 03 The name of junction is : Confluence 1
The reach length at the most downstream cross section for the
'Delaney Wash and NorthSplit' is not equal to zero.
Please set the reach length equal to zero if juction can be considered.

Confluence of Delaney North Split and South Split back into main wash

Four Mile Wash

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain;Floodway
Date: 8/1/2011
Time: 3:26:42 PM

General Note
N-values of 0.02 correspond to very clean, smooth, well-maintained dirt or paved surfaces.

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
Four Mile - W1,Four Mile - W1						
.175		0.037	-----	-----	0.1	0.3
.112		0.037	-----	-----	0.1	0.3
.077		0.037	-----	-----	0.1	0.3
Four Mile - W2,Four Mile - W2						
.03		0.037	-----	-----	0.1	0.3
.259		0.035	0.035	0.042	0.1	0.3
		-----	0.042	0.035		
.181		0.035	0.035	0.042	0.1	0.3
		-----	0.042	0.035		
.138		0.035	0.042	-----	0.1	0.3
		-----	0.035	-----		
Four Mile Wash,Four Mile Wash 1						
.084		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
13.96		0.04	-----	-----	0.3	0.5
13.869		0.04	-----	-----	0.3	0.5
		0.075	-----	-----		
13.8		0.04	-----	-----	0.1	0.3
		0.075	-----	-----		
13.735		0.04	-----	-----	0.1	0.3
		0.075	-----	-----		
13.649		0.04	-----	-----	0.1	0.3
		0.075	-----	-----		
13.567		0.04	-----	-----	0.1	0.3
		0.075	-----	-----		
13.497		0.04	0.04	0.075	0.1	0.3
		-----	0.075	0.04		
		-----	-----	0.044		
13.408		0.04	0.04	0.04	0.1	0.3
		0.075	-----	0.075		
		-----	-----	0.04		
		-----	-----	0.06		
		-----	-----	0.04		
		-----	-----	0.044		
13.318		0.04	0.04	0.075	0.1	0.3
		0.075	0.032	0.04		
		0.035	0.075	0.048		
		0.04	-----	0.075		
		-----	-----	0.04		
		-----	-----	0.075		
		-----	-----	0.04		
		-----	-----	0.06		
		-----	-----	0.04		
		-----	-----	0.044		
13.305		0.04	0.035	-----	0.1	0.3
		0.035	0.04	-----		
13.246		0.04	-----	-----	0.1	0.3
		0.035	-----	-----		
13.174		0.04	-----	-----	0.1	0.3
		0.035	-----	-----		
13.095		0.04	0.035	-----	0.1	0.3
		0.035	0.04	-----		
13.004		0.04	0.035	-----	0.1	0.3
		0.035	0.04	-----		

To account for CAP overshoot.

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 2.951
XS DC 01 Discharge decreases in the downstream direction.

Incidental split northeast. See Appendix E for supporting documentation.

RS: 2.792
XS DC 05 There is no flow on the right overbank at the downstream
cross section. There is no flow on the left overbank at this section.

RS: 0.228
XS DC 04 There is no flow on the left overbank at the downstream
cross section. There is no flow on the right overbank at this section.

RS: 0.158
XS DC 05 There is no flow on the right overbank at the downstream
cross section. There is no flow on the left overbank at this section.

Bank stations were checked and verified based upon aerial photography and topography.

XS DC 02 Constant dicharge used for the Delaney Split1,SouthSplit

XS DC 02 Constant dicharge used for the Delaney Wash,DelaneyUpstream

XS DC 02 Constant dicharge used for the Delaney Wash,NorthSplit

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is Delaney Wash,DelaneyDownstm
Normal S = 0.003553 is specified as the downstream boundary
for profile Floodplain

XS BC 03 Maximum number of iterations is 0
It should not be less than 20.

No iterations are required for slope area boundary condition.

LATERAL WEIRS CHECK

---END---

Four Mile Wash
CheckRAS Reports

12.939	0.04	-----	-----	0.1	0.3
	0.035	-----	-----		
12.873	0.035	0.035	-----	0.1	0.3
	0.04	0.04	-----		
	0.035	-----	-----		
12.798	0.04	-----	-----	0.1	0.3
	0.035	-----	-----		
12.706	0.037	-----	-----	0.1	0.3
	0.051	-----	-----		
12.619	0.037	0.037	0.037	0.1	0.3
	-----	0.051	0.04		
	-----	0.037	-----		
12.556	0.037	0.051	0.037	0.1	0.3
	-----	0.037	0.04		
12.502	0.037	0.037	0.051	0.1	0.3
	-----	0.051	0.037		
12.457	0.037	0.037	0.051	0.1	0.3
	-----	0.051	0.037		
12.403	0.037	0.037	0.051	0.1	0.3
	-----	0.051	0.037		
12.342	0.037	0.037	0.051	0.1	0.3
	0.051	0.051	0.037		
	0.037	-----	-----		
12.282	0.037	-----	-----	0.1	0.3
	0.051	-----	-----		
	0.037	-----	-----		
	0.051	-----	-----		
12.238	0.037	-----	-----	0.1	0.3
	0.051	-----	-----		
12.154	0.037	-----	-----	0.1	0.3
	0.051	-----	-----		
12.092	0.037	-----	-----	0.1	0.3
	0.051	-----	-----		
12.03	0.037	0.051	-----	0.1	0.3
	0.051	0.037	-----		
11.989	0.037	-----	-----	0.1	0.3
	0.051	-----	-----		
11.954	0.037	0.051	-----	0.1	0.3
	0.051	0.037	-----		
11.885	0.037	0.051	-----	0.1	0.3
	0.051	0.037	-----		
11.83	0.037	0.051	-----	0.1	0.3
	-----	0.037	-----		
11.762	0.037	-----	-----	0.1	0.3
11.713	0.037	-----	-----	0.1	0.3
11.656	0.066	-----	-----	0.1	0.3
	0.037	-----	-----		
11.607	0.066	-----	-----	0.1	0.3
	0.037	-----	-----		
11.551	0.037	-----	-----	0.1	0.3
11.5	0.037	0.066	0.037	0.1	0.3
	0.066	0.037	0.035		
11.414	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
11.356	0.037	0.037	-----	0.1	0.3
	0.066	0.066	-----		
	0.037	0.037	-----		
11.302	0.037	0.037	-----	0.1	0.3
	0.066	0.066	-----		
	0.037	0.037	-----		
11.249	0.037	0.037	-----	0.1	0.3
	0.066	0.066	-----		
	0.037	0.037	-----		
	0.066	-----	-----		
	0.037	-----	-----		
11.18	0.037	0.037	-----	0.1	0.3
	0.066	0.066	-----		

	0.037	0.037	-----		
11.144	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
	0.037	-----	-----		
	0.066	-----	-----		
	0.037	-----	-----		
	0.066	-----	-----		
11.092	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
	0.037	-----	-----		
	0.066	-----	-----		
11.032	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
10.958	0.037	0.037	0.037	0.1	0.3
	-----	0.066	-----		
10.881	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.806	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
10.727	0.037	0.066	-----	0.1	0.3
	-----	0.037	-----		
10.663	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
10.572	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.513	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.425	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.346	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
10.265	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
Four Mile Wash,Four Mile Wash 2					
10.216	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.183	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.14	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
10.099	0.037	-----	-----	0.1	0.3
	0.06	-----	-----		
Four Mile Wash,Four Mile Wash 3					
10.028	0.037	-----	-----	0.1	0.3
	0.06	-----	-----		
9.996	0.037	0.06	-----	0.1	0.3
	0.06	0.037	-----		
9.96	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
9.875	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
9.796	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
9.733	0.037	-----	-----	0.1	0.3
	0.06	-----	-----		
9.655	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
9.571	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		

9.498	0.037	0.037	-----	0.1	0.3
	-----	0.066	-----		
	-----	0.037	-----		
9.418	0.037	0.051	-----	0.1	0.3
	0.051	0.066	-----		
	-----	0.037	-----		
9.359	0.037	0.066	0.066	0.1	0.3
	-----	-----	0.037		
9.266	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
9.184	0.037	0.037	0.037	0.1	0.3
	-----	0.066	-----		
9.123	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
9.046	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
8.957	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
8.871	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
8.815	0.037	0.037	0.037	0.1	0.3
	-----	0.066	-----		
8.736	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
8.645	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
8.557	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
8.483	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
	0.035	-----	-----		
	0.06	-----	-----		
8.394	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
8.329	0.035	0.06	0.06	0.1	0.3
	0.06	-----	0.035		
	0.035	-----	-----		
8.259	0.035	0.035	0.06	0.1	0.3
	0.06	0.06	0.035		
	0.035	-----	0.06		
	-----	-----	0.035		
8.185	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
8.109	0.035	0.06	0.06	0.1	0.3
	0.06	-----	0.035		
	0.035	-----	-----		
8.046	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
7.981	0.035	0.06	0.06	0.1	0.3
	-----	-----	0.035		
7.903	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
7.84	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
7.758	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
7.707	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
7.622	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		

7.535	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
7.47	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
7.389	0.035	0.035	-----	0.1	0.3
	0.06	0.06	-----		
	0.035	0.035	-----		
7.339	0.035	0.035	0.06	0.1	0.3
	0.06	0.06	0.035		
	0.035	-----	-----		
7.253	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
	0.035	-----	-----		
	0.06	-----	-----		
7.18	0.035	0.035	0.06	0.1	0.3
	-----	0.042	0.042		
	-----	0.06	0.035		
	-----	-----	0.02		
	-----	-----	0.035		
7.106	0.035	0.06	0.042	0.1	0.3
	0.06	0.042	0.035		
	0.035	-----	-----		
	0.042	-----	-----		
	0.06	-----	-----		
7.041	0.035	0.042	0.06	0.1	0.3
	0.06	0.06	0.042		
	0.042	-----	0.035		
6.973	0.035	0.06	0.042	0.1	0.3
	0.06	0.042	0.035		
	0.042	-----	-----		
	0.06	-----	-----		
6.909	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
6.854	0.035	0.06	0.042	0.1	0.3
	0.06	0.042	0.06		
	0.035	-----	0.035		
	0.06	-----	-----		
	0.042	-----	-----		
	0.06	-----	-----		
6.768	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
	0.042	-----	-----		
	0.06	-----	-----		
6.7	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
6.631	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
6.546	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
6.473	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
6.387	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
6.322	0.035	0.035	0.06	0.1	0.3
	0.02	0.06	0.035		
	0.035	-----	-----		
6.263	0.035	0.035	-----	0.1	0.3
	0.02	0.06	-----		
	0.035	0.035	-----		
6.171	0.035	0.042	0.035	0.1	0.3
	0.02	0.06	-----		
	0.035	-----	-----		
	0.042	-----	-----		
	0.035	-----	-----		
	0.042	-----	-----		

6.081	0.035	0.06	-----	0.1	0.3
	0.02	0.042	-----		
	0.035	0.06	-----		
	0.042	0.035	-----		
	0.06	-----	-----		
6.02	0.035	0.042	-----	0.1	0.3
	0.02	0.06	-----		
	0.035	0.035	-----		
	0.042	-----	-----		
5.944	0.035	0.06	-----	0.1	0.3
	0.02	0.035	-----		
	0.035	-----	-----		
	0.02	-----	-----		
	0.035	-----	-----		
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
5.879	0.035	0.06	-----	0.1	0.3
	0.02	0.035	-----		
	0.035	-----	-----		
	0.02	-----	-----		
	0.035	-----	-----		
	0.02	-----	-----		
	0.06	-----	-----		
5.864	0.02	-----	-----	0.1	0.3
5.852	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
	0.035	-----	-----		
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
5.801	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
	0.035	-----	-----		
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
5.716	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
5.642	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
5.574	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
5.512	0.035	0.035	0.06	0.1	0.3
	0.02	0.06	0.035		
	0.035	-----	-----		
	0.06	-----	-----		
	0.035	-----	-----		
5.463	0.035	0.035	0.035	0.1	0.3
	0.02	0.06	-----		
	0.035	-----	-----		
	0.06	-----	-----		
	0.035	-----	-----		
5.376	0.035	0.035	-----	0.1	0.3
	0.02	0.06	-----		

		0.035	0.035	-----		
		0.06	-----	-----		
		0.035	-----	-----		
5.307		0.035	0.035	0.035	0.1	0.3
		0.02	0.06	-----		
		0.035	-----	-----		
		0.06	-----	-----		
		0.035	-----	-----		
5.248		0.035	0.06	-----	0.3	0.5
		0.02	0.035	-----		
		0.035	-----	-----		
		0.06	-----	-----		
		0.035	-----	-----		
		0.06	-----	-----		
5.165		0.035	0.035	-----	0.3	0.5
		0.02	0.06	-----		
		0.035	0.035	-----		
5.154	Culvert-Up	0.035	0.035	-----	0.3	0.5
		0.02	0.06	-----		
		0.035	0.035	-----		
5.154	Culvert-Dn	0.02	-----	-----	0.3	0.5
		0.035	-----	-----		
		0.06	-----	-----		
5.146		0.02	-----	-----	0.3	0.5
		0.035	-----	-----		
		0.06	-----	-----		
5.106		0.035	-----	-----	0.3	0.5
		0.06	-----	-----		
5.066		0.035	-----	-----	0.3	0.5
		0.06	-----	-----		
5.045	Culvert-Up	0.035	-----	-----	0.3	0.5
		0.06	-----	-----		
5.045	Culvert-Dn	0.035	0.035	-----	0.3	0.5
		-----	0.042	-----		
		-----	0.035	-----		
5.023		0.035	0.035	-----	0.3	0.5
		-----	0.042	-----		
		-----	0.035	-----		
4.974		0.035	0.06	0.06	0.3	0.5
		0.06	0.042	0.035		
		-----	0.06	-----		
4.912		0.02	0.06	0.06	0.3	0.5
		0.035	0.042	0.035		
		0.06	0.06	-----		
4.904	Culvert-Up	0.02	0.06	0.06	0.3	0.5
		0.035	0.042	0.035		
		0.06	0.06	-----		
4.904	Culvert-Dn	0.02	0.035	0.06	0.3	0.5
		0.035	0.042	-----		
4.898		0.02	0.035	0.06	0.3	0.5
		0.035	0.042	-----		
4.835		0.035	-----	-----	0.3	0.5
		0.06	-----	-----		
4.778		0.035	-----	-----	0.3	0.5
		0.06	-----	-----		
4.719		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
4.651		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
4.569		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
4.508		0.035	0.06	-----	0.1	0.3
		-----	0.035	-----		
4.428		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		

I-10 north and on-ramp

I-10 south and on-ramp

4.354	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
4.295	0.035	0.035	0.035	0.1	0.3
	-----	0.06	-----		
4.273	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
4.249	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
4.182	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
4.104	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
4.018	0.035	0.035	-----	0.1	0.3
	0.06	0.06	-----		
	0.035	0.035	-----		
3.93	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.035		
3.848	0.035	0.06	0.06	0.1	0.3
	-----	-----	0.042		
	-----	-----	0.035		
3.763	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.035		
	-----	-----	0.065		
3.69	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
3.604	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
3.525	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
3.462	0.035	0.06	-----	0.1	0.3
	-----	0.035	-----		
3.387	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
3.299	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
3.233	0.035	0.035	-----	0.1	0.3
	-----	0.02	-----		
	-----	0.06	-----		
	-----	0.035	-----		
3.192	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
3.147	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
3.074	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.997	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.919	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
2.85	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.762	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.683	0.035	0.06	0.06	0.1	0.3
	-----	-----	0.035		
2.618	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.559	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.514	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.484	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
2.454	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		

2.42	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.343	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.268	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.195	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
2.184	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.132	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.06	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.97	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
1.882	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.792	0.035	0.06	0.042	0.1	0.3
	0.06	0.042	0.06		
	-----	-----	0.042		
1.723	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.06		
	-----	-----	0.042		
1.682	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.635	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.624	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.574	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.531	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.515	0.02	-----	-----	0.1	0.3
1.491	0.02	0.035	-----	0.1	0.3
	0.035	0.042	-----		
	-----	0.06	-----		
	-----	0.042	-----		
Four Mile Wash,Four Mile Wash 4					
1.443	0.035	0.035	0.035	0.1	0.3
	-----	0.06	0.02		
	-----	0.035	0.042		
	-----	-----	0.035		
1.412	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
1.353	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
1.31	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
Four Mile Wash,Four Mile Wash 5					
1.243	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.187	0.035	0.06	0.042	0.1	0.3
	0.06	0.042	0.035		
	-----	-----	0.042		
	-----	-----	0.035		
1.154	0.035	0.035	0.042	0.1	0.3
	-----	0.06	0.035		
	-----	0.042	-----		
1.12	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.036	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
.963	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		

.885	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
.798	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.722	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.645	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.579	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
.505	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.428	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.371	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.325	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.253	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.163	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
.079	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.075
Right Overbank n Value:	0.02	0.075
Channel n Value:	0.02	0.075
Contraction Coefficient:	0.1	0.3
Expansion Coefficient:	0.3	0.5

**General Note for RC05* The channel has heavy vegetation therefore overbank n-values are less.*

ROUGHNESS COEFFICIENT CHECK

RS: 10.958
NT RC 05 The left overbank n value of 0.037 and the right overbank n value of 0.037 are less than or equal to the channel n value of 0.037 The overbank n values should be reevaluated.

RS: 9.184
NT RC 05 The left overbank n value of 0.037 and the right overbank n value of 0.037 are less than or equal to the channel n value of 0.037 The overbank n values should be reevaluated.

RS: 8.815
NT RC 05 The left overbank n value of 0.037 and the right overbank n value of 0.037 are less than or equal to the channel n value of 0.037 The overbank n values should be reevaluated.

RS: 5.864
NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.
The n value should be reevaluated.

Very clean, smooth, well-maintained paved road.

RS: 4.295
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

```
RS:       1.515
NT RC 01 Left overbank n value is less than 0.035
         The n value for overbank is usually larger then 0.035.
         The n value should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

RS:       13.96
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:       13.869
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:       4.835
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:       4.778
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES
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RS:       5.023
NT RS 01 This is Section 2.
         Channel n value of 0.035 is less than the channel n value of 0.042
         at Section 1.

---END---
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Very clean, smooth, well-maintained paved road.

To account for CAP overshoot.

Ok, Immediately downstream of structure.

Four Mile Wash

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 8/1/2011
Time: 3:50:45 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
Four Mile - W1,Four Mile - W1							
0.175					9919.52	10016.03	
0.175	0	0	0	0	9919.52	10016.03	
0.112					9965.56	10070.83	
0.112	0	0	0	0	9965.56	10070.83	
0.077					9980.06	10066.21	
0.077	0	0	0	0	9980.06	10066.21	
0.03					9944.44	10104.15	
0.03	0	0	0	0	9944.44	10104.15	
Four Mile - W2,Four Mile - W2							
0.259					9921.19	10098.67	
0.259	0	0	0	0	9921.19	10098.67	
0.181					9656.31	10140.82	
0.181	0	0	0	0	9656.31	10140.82	
0.138					9793.99	10317.6	
0.138	0	0	0	0	9793.99	10317.6	
0.084					9874.83	10040.51	
0.084	0	0	0	0	9874.83	10040.51	
Four Mile Wash,Four Mile Wash 1							
13.96					9930.18	10091.98	
13.96	0	0	0	0	9930.18	10091.98	
13.869					9965.06	10538.86	
13.869	0	0	0	0	9965.06	10538.86	
13.8					9969.34	10622.68	
13.8	0	0	0	0	9969.34	10622.68	
13.735					9942.75	10804.94	
13.735	0	0	0	0	9942.75	10804.94	
13.649					9763.23	10971.34	
13.649	0	0	0	0	9763.23	10971.34	
13.567					9798.48	11206.08	
13.567	0	0	0	0	9798.48	11206.08	
13.497					9896.35	11335.87	
13.497	0	0	0	0	9896.35	11335.87	
13.408					9648.28	11383.57	
13.408	0	0	0	0	9648.28	11383.57	
13.318					10010.59	11637.08	
13.318	0	0	0	0	10010.59	11637.08	
13.305					9588.95	10016.22	
13.305	0	0	0	0	9588.95	10016.22	
13.246					9610.99	10120.14	
13.246	0	0	0	0	9610.99	10120.14	
13.174					9696.4	10054.55	
13.174	0	0	0	0	9696.4	10054.55	
13.095					9696.26	10147.38	
13.095	0	0	0	0	9696.26	10147.38	
13.004					9519.15	10265.67	
13.004	0	0	0	0	9519.15	10265.67	
12.939					9283.38	10154.47	
12.939	0	0	0	0	9283.38	10154.47	
12.873					9253.55	10176.48	
12.873	0	0	0	0	9253.55	10176.48	
12.798					9570.57	10201.31	
12.798	0	0	0	0	9570.57	10201.31	
12.706					9609.87	10317.32	

Floodway not appropriate.

12.706	0	0	0	0	9609.87	10317.32
12.619					9652.24	10427.37
12.619	0	0	0	0	9652.24	10427.37
12.556					9703.93	10513.38
12.556	0	0	0	0	9703.93	10513.38
12.502					9520.24	10120.45
12.502	0	0	0	0	9520.24	10120.45
12.457					9490.97	10227.57
12.457	0	0	0	0	9490.97	10227.57
12.403					9605.36	10100.72
12.403	0	0	0	0	9605.36	10100.72
12.342					9465.39	10105.44
12.342	0	0	0	0	9465.39	10105.44
12.282					9511.04	10028.64
12.282	0	0	0	0	9511.04	10028.64
12.238					9556.33	10032.71
12.238	0	0	0	0	9556.33	10032.71
12.154					9691.69	10540.75
12.154	0	0	0	0	9691.69	10540.75
12.092					9454.72	10404.25
12.092	0	0	0	0	9454.72	10404.25
12.03					9666.88	11065.52
12.03	0	0	0	0	9666.88	11065.52
11.989					9911.83	11157.33
11.989	0	0	0	0	9911.83	11157.33
11.954					9875.05	10948.58
11.954	0	0	0	0	9875.05	10948.58
11.885					9820.54	10771.59
11.885	0	0	0	0	9820.54	10771.59
11.83					9855.22	10673.45
11.83	0	0	0	0	9855.22	10673.45
11.762					9771.13	10485.32
11.762	0	0	0	0	9771.13	10485.32
11.713					9884.11	10660.07
11.713	0	0	0	0	9884.11	10660.07
11.656					9613.12	10195.68
11.656	0	0	0	0	9613.12	10195.68
11.607					9642.41	10048.05
11.607	0	0	0	0	9642.41	10048.05
11.551					9798.46	10203.96
11.551	0	0	0	0	9798.46	10203.96
11.5					9874.94	10271.56
11.5	0	0	0	0	9874.94	10271.56
11.414					9865.48	10234.76
11.414	0	0	0	0	9865.48	10234.76
11.356					9763.06	10260.13
11.356	0	0	0	0	9763.06	10260.13
11.302					9565.24	10132.3
11.302	0	0	0	0	9565.24	10132.3
11.249					9552.69	10032.32
11.249	0	0	0	0	9552.69	10032.32
11.18					9451.99	10129.55
11.18	0	0	0	0	9451.99	10129.55
11.144					9439.31	10147.61
11.144	0	0	0	0	9439.31	10147.61
11.092					9164.41	10054.66
11.092	0	0	0	0	9164.41	10054.66
11.032					9608.37	10225.72
11.032	0	0	0	0	9608.37	10225.72
10.958					9384.15	10152.21
10.958	0	0	0	0	9384.15	10152.21
10.881					9330.89	10126.28
10.881	0	0	0	0	9330.89	10126.28
10.806					9405.35	10240.28
10.806	0	0	0	0	9405.35	10240.28
10.727					9448.54	10167.35
10.727	0	0	0	0	9448.54	10167.35

Floodway not appropriate.

10.663					9227.14	10126.35
10.663	0	0	0	0	9227.14	10126.35
10.572					9388.4	10231.75
10.572	0	0	0	0	9388.4	10231.75
10.513					9247.86	10278.48
10.513	0	0	0	0	9247.86	10278.48
10.425					9689.53	10499.51
10.425	0	0	0	0	9689.53	10499.51
10.346					9722.91	10818.93
10.346	0	0	0	0	9722.91	10818.93
10.265					9886.86	10158.07
10.265	0	0	0	0	9886.86	10158.07
10.216					9899.7	10222.09
10.216	0	0	0	0	9899.7	10222.09
Four Mile Wash,Four Mile Wash 2						
10.183					9951.03	10081.59
10.183	0	0	0	0	9951.03	10081.59
10.14					9867.12	10075.49
10.14	0	0	0	0	9867.12	10075.49
10.099					9886.94	10214.46
10.099	0	0	0	0	9886.94	10214.46
10.028					9898.08	10148.4
10.028	0	0	0	0	9898.08	10148.4
Four Mile Wash,Four Mile Wash 3						
9.996					9824.26	10194.55
9.996	0	0	0	0	9824.26	10194.55
9.96					9866.79	10079.42
9.96	0	0	0	0	9866.79	10079.42
9.875					9980.19	10214.83
9.875	0	0	0	0	9980.19	10214.83
9.796					9828.49	10130.77
9.796	0	0	0	0	9828.49	10130.77
9.733					9846.28	10075.63
9.733	0	0	0	0	9846.28	10075.63
9.655					9857.15	10257.96
9.655	0	0	0	0	9857.15	10257.96
9.571					9800.62	10213.05
9.571	0	0	0	0	9800.62	10213.05
9.498					9917.62	10127.2
9.498	0	0	0	0	9917.62	10127.2
9.418					9925.84	10090.19
9.418	0	0	0	0	9925.84	10090.19
9.359					9914.38	10096.82
9.359	0	0	0	0	9914.38	10096.82
9.266					9959.93	10094.42
9.266	0	0	0	0	9959.93	10094.42
9.184					9929.19	10046.86
9.184	0	0	0	0	9929.19	10046.86
9.123					9930.71	10157.42
9.123	0	0	0	0	9930.71	10157.42
9.046					9947.8	10203.28
9.046	0	0	0	0	9947.8	10203.28
8.957					9900.37	10234.36
8.957	0	0	0	0	9900.37	10234.36
8.871					9908.66	10115.86
8.871	0	0	0	0	9908.66	10115.86
8.815					9671.45	10115.33
8.815	0	0	0	0	9671.45	10115.33
8.736					9870.01	10086.49
8.736	0	0	0	0	9870.01	10086.49
8.645					9865.56	10150.74
8.645	0	0	0	0	9865.56	10150.74
8.557					9853.49	10304.17
8.557	0	0	0	0	9853.49	10304.17
8.483					9537.02	10265.42
8.483	0	0	0	0	9537.02	10265.42
8.394					9631.9	10321.19

Floodway not appropriate.

8.394	0	0	0	0	9631.9	10321.19
8.329					9718.87	10173.72
8.329	0	0	0	0	9718.87	10173.72
8.259					9606.49	10189.33
8.259	0	0	0	0	9606.49	10189.33
8.185					9913.91	10285.78
8.185	0	0	0	0	9913.91	10285.78
8.109					9724.77	10321.25
8.109	0	0	0	0	9724.77	10321.25
8.046					9704.38	10257.96
8.046	0	0	0	0	9704.38	10257.96
7.981					9909.01	10436.13
7.981	0	0	0	0	9909.01	10436.13
7.903					9923.69	10146.79
7.903	0	0	0	0	9923.69	10146.79
7.84					9914.75	10223.97
7.84	0	0	0	0	9914.75	10223.97
7.758					9803.38	10206.18
7.758	0	0	0	0	9803.38	10206.18
7.707					9866.33	10126.86
7.707	0	0	0	0	9866.33	10126.86
7.622					9860.2	10276.07
7.622	0	0	0	0	9860.2	10276.07
7.535					9880.06	10347.85
7.535	0	0	0	0	9880.06	10347.85
7.47					9862.65	10287.23
7.47	0	0	0	0	9862.65	10287.23
7.389					9536.71	10212.72
7.389	0	0	0	0	9536.71	10212.72
7.339					9562.02	10350.4
7.339	0	0	0	0	9562.02	10350.4
7.253					9686.49	10345.08
7.253	0	0	0	0	9686.49	10345.08
7.18					9845.55	10435.13
7.18	0	0	0	0	9845.55	10435.13
7.106					9628.91	10314.95
7.106	0	0	0	0	9628.91	10314.95
7.041					9581.26	10279.58
7.041	0	0	0	0	9581.26	10279.58
6.973					9595.5	10173.2
6.973	0	0	0	0	9595.5	10173.2
6.909					9683.67	10232.35
6.909	0	0	0	0	9683.67	10232.35
6.854					9485.18	10468.33
6.854	0	0	0	0	9485.18	10468.33
6.768					9247.08	10165.14
6.768	0	0	0	0	9247.08	10165.14
6.7					9485.31	10061.08
6.7	0	0	0	0	9485.31	10061.08
6.631					9717.01	10193.79
6.631	0	0	0	0	9717.01	10193.79
6.546					9802.38	10290.76
6.546	0	0	0	0	9802.38	10290.76
6.473					9753.99	10313.92
6.473	0	0	0	0	9753.99	10313.92
6.387					9748.01	10354.04
6.387	0	0	0	0	9748.01	10354.04
6.322					9572.58	10245.87
6.322	0	0	0	0	9572.58	10245.87
6.263					9127.97	10119.64
6.263	0	0	0	0	9127.97	10119.64
6.171					9276.77	10172.54
6.171	0	0	0	0	9276.77	10172.54
6.081					8834.9	10224.2
6.081	0	0	0	0	8834.9	10224.2
6.02					8966.21	10273.26
6.02	0	0	0	0	8966.21	10273.26

Floodway not appropriate.

5.944					8669.67	10248.97	
5.944	0	0	0	0	8669.67	10248.97	
5.879					8862.31	10426.83	
5.879	0	0	0	0	8862.31	10426.83	
5.864					8864.82	10295.34	
5.864	0	0	0	0	8864.82	10295.34	
5.852					8800.12	10243.53	
5.852	0	0	0	0	8800.12	10243.53	
5.801					8895.43	10113.36	
5.801	0	0	0	0	8895.43	10113.36	
5.716					8808.94	10315.68	
5.716	0	0	0	0	8808.94	10315.68	
5.642					9219.37	10196.9	
5.642	0	0	0	0	9219.37	10196.9	
5.574					9590.74	10299.81	
5.574	0	0	0	0	9590.74	10299.81	
5.512					9627.8	10240.03	
5.512	0	0	0	0	9627.8	10240.03	
5.463					9679.28	10359.31	
5.463	0	0	0	0	9679.28	10359.31	
5.376					9776.55	10317.71	
5.376	0	0	0	0	9776.55	10317.71	
5.307					9654.95	10441.62	
5.307	0	0	0	0	9654.95	10441.62	
5.248					9657.32	10534.23	
5.248	0	0	0	0	9657.32	10534.23	
5.165					9511.75	10085.74	
5.165	0	0	0	0	9511.75	10085.74	
5.154					0	0	CULVERT#1-Up
5.154					0	0	CULVERT#1-Dn
5.154	0	0	0	0	0	0	CULVERT#1-Up
5.154	0	0	0	0	0	0	CULVERT#1-Dn
5.146					9955.92	10049.9	
5.146	0	0	0	0	9955.92	10049.9	
5.106					9871.98	10085.36	
5.106	0	0	0	0	9871.98	10085.36	
5.066					9964.39	10041.43	
5.066	0	0	0	0	9964.39	10041.43	
5.045					0	0	CULVERT#1-Up
5.045					0	0	CULVERT#1-Dn
5.045	0	0	0	0	0	0	CULVERT#1-Up
5.045	0	0	0	0	0	0	CULVERT#1-Dn
5.023					9967.41	10028.44	
5.023	0	0	0	0	9967.41	10028.44	
4.974					9893.38	10082.65	
4.974	0	0	0	0	9893.38	10082.65	
4.912					9964.88	10036.77	
4.912	0	0	0	0	9964.88	10036.77	
4.904					0	0	CULVERT#1-Up
4.904					0	0	CULVERT#1-Dn
4.904	0	0	0	0	0	0	CULVERT#1-Up
4.904	0	0	0	0	0	0	CULVERT#1-Dn
4.898					9947.54	10053.08	
4.898	0	0	0	0	9947.54	10053.08	
4.835					9934.43	10308.62	
4.835	0	0	0	0	9934.43	10308.62	
4.778					9837.95	10394.18	
4.778	0	0	0	0	9837.95	10394.18	
4.719					9835.27	10582.93	
4.719	0	0	0	0	9835.27	10582.93	
4.651					9724.7	10457.19	
4.651	0	0	0	0	9724.7	10457.19	
4.569					9802.9	10400.94	
4.569	0	0	0	0	9802.9	10400.94	
4.508					9606.67	10367.08	
4.508	0	0	0	0	9606.67	10367.08	
4.428					9783.92	10666.88	

Floodway not appropriate.

4.428	0	0	0	0	9783.92	10666.88
4.354					9694.85	10622.95
4.354	0	0	0	0	9694.85	10622.95
4.295					9858.85	10356.95
4.295	0	0	0	0	9858.85	10356.95
4.273					9843.48	10645.87
4.273	0	0	0	0	9843.48	10645.87
4.249					9872.31	10729.9
4.249	0	0	0	0	9872.31	10729.9
4.182					9720.13	10664.06
4.182	0	0	0	0	9720.13	10664.06
4.104					9667.58	10332.94
4.104	0	0	0	0	9667.58	10332.94
4.018					9765.38	10299.32
4.018	0	0	0	0	9765.38	10299.32
3.93					9846.49	10296.93
3.93	0	0	0	0	9846.49	10296.93
3.848					9815.23	10304.51
3.848	0	0	0	0	9815.23	10304.51
3.763					9857.96	10301.06
3.763	0	0	0	0	9857.96	10301.06
3.69					9913.56	10322.11
3.69	0	0	0	0	9913.56	10322.11
3.604					9748.2	10204.58
3.604	0	0	0	0	9748.2	10204.58
3.525					9854.52	10217.15
3.525	0	0	0	0	9854.52	10217.15
3.462					9865.12	10189.98
3.462	0	0	0	0	9865.12	10189.98
3.387					9769.75	10214.9
3.387	0	0	0	0	9769.75	10214.9
3.299					9838.72	10116.02
3.299	0	0	0	0	9838.72	10116.02
3.233					9899.97	10429.09
3.233	0	0	0	0	9899.97	10429.09
3.192					9883.88	10298.29
3.192	0	0	0	0	9883.88	10298.29
3.147					9982.41	10414.62
3.147	0	0	0	0	9982.41	10414.62
3.074					9915.99	10255.12
3.074	0	0	0	0	9915.99	10255.12
2.997					9858.47	10411.52
2.997	0	0	0	0	9858.47	10411.52
2.919					9899.96	10387.25
2.919	0	0	0	0	9899.96	10387.25
2.85					9874.48	10401.16
2.85	0	0	0	0	9874.48	10401.16
2.762					9737.3	10440.85
2.762	0	0	0	0	9737.3	10440.85
2.683					9709.44	10274.17
2.683	0	0	0	0	9709.44	10274.17
2.618					9715.59	10301.85
2.618	0	0	0	0	9715.59	10301.85
2.559					9814.84	10231.58
2.559	0	0	0	0	9814.84	10231.58
2.514					9604.06	10234.17
2.514	0	0	0	0	9604.06	10234.17
2.484					9698.14	10184.78
2.484	0	0	0	0	9698.14	10184.78
2.454					9633.09	10577.23
2.454	0	0	0	0	9633.09	10577.23
2.42					9724.98	10479.49
2.42	0	0	0	0	9724.98	10479.49
2.343					9813.47	10628.16
2.343	0	0	0	0	9813.47	10628.16
2.268					9867.08	10566.91
2.268	0	0	0	0	9867.08	10566.91

Floodway not appropriate.

2.195					9898.07	10196.15
2.195	0	0	0	0	9898.07	10196.15
2.184					9859.77	10238.51
2.184	0	0	0	0	9859.77	10238.51
2.132					9786.39	10223.63
2.132	0	0	0	0	9786.39	10223.63
2.06					9856.33	10377.36
2.06	0	0	0	0	9856.33	10377.36
1.97					9843.34	10449.57
1.97	0	0	0	0	9843.34	10449.57
1.882					9669.62	10657
1.882	0	0	0	0	9669.62	10657
1.792					9698.16	10607.47
1.792	0	0	0	0	9698.16	10607.47
1.723					9888.28	10611.54
1.723	0	0	0	0	9888.28	10611.54
1.682					9723.13	10828.9
1.682	0	0	0	0	9723.13	10828.9
1.635					9651.23	10628.51
1.635	0	0	0	0	9651.23	10628.51
1.624					9307.22	10605.18
1.624	0	0	0	0	9307.22	10605.18
1.574					8831.85	10447.22
1.574	0	0	0	0	8831.85	10447.22
1.531					8843.03	10261.11
1.531	0	0	0	0	8843.03	10261.11
1.515					9544.88	10333.71
1.515	0	0	0	0	9544.88	10333.71
1.491					9546.65	10304.37
1.491	0	0	0	0	9546.65	10304.37
1.443					9678.92	10630.98
1.443	0	0	0	0	9678.92	10630.98
Four Mile Wash,Four Mile Wash 4						
1.412					9475.53	10216.8
1.412	0	0	0	0	9475.53	10216.8
1.353					9605.98	10085.84
1.353	0	0	0	0	9605.98	10085.84
1.31					9616.46	10194.11
1.31	0	0	0	0	9616.46	10194.11
1.243					9789.18	10346.12
1.243	0	0	0	0	9789.18	10346.12
Four Mile Wash,Four Mile Wash 5						
1.187					9668.15	10462.52
1.187	0	0	0	0	9668.15	10462.52
1.154					9906.77	10434.08
1.154	0	0	0	0	9906.77	10434.08
1.12					9966.9	10197.13
1.12	0	0	0	0	9966.9	10197.13
1.036					9783.96	10406.63
1.036	0	0	0	0	9783.96	10406.63
0.963					9778.14	10455.41
0.963	0	0	0	0	9778.14	10455.41
0.885					9824.51	10523.36
0.885	0	0	0	0	9824.49	10523.48
0.798					9980.73	10424.45
0.798	0	0.03	0	0	9980.61	10424.45
0.722					9942.16	10439.99
0.722	0	-0.19	0	0	9943.3	10434.96
0.645					9581.93	10378.45
0.645	0	0.5	0	0	9572.27	10396.19
0.579					9261.77	10350.01
0.579	19	0.49	9717.75	10057	9717.75	10057
0.505					9470.31	10128.73
0.505	1	0.81	9611	10011.37	9611	10011.37
0.428					9203.61	10410.01
0.428	1	0.68	9620	10101.02	9620	10101.02
0.371					9397.98	10315.06

Floodway not appropriate.

0.371	1	0.67	9570	10114.59	9570	10114.59
0.325					9408.74	10214.26
0.325	1	0.76	9590	10084.6	9590	10084.6
0.253					9353.52	10162.81
0.253	19	0.73	9552.01	10062.09	9552.01	10062.09
0.163					9223.61	10318.42
0.163	19	0.99	9734.15	10147.1	9734.15	10147.1
0.079					9307.81	10114.42
0.079	19	0.98	9901.22	10052.4	9901.22	10052.4

ENCROACHMENT METHOD CHECK

RS: 0.175
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.112
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.077
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.03
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.259
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.181
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.138
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.084
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.96
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.869
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.8
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.735
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.649
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.567
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.497
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.408
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.318
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.305

Floodway not appropriate.

FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.246
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.174
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.095
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 13.004
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.939
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.873
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.798
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.706
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.619
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.556
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.502
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.457
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.403
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.342
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.282
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.238
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.154
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.092
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 12.03
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 11.989
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 11.954
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 11.885
FW EM 01 Floodway encroachment method is not selected at this section.

Floodway not appropriate.

```
RS:       11.83
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.762
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.713
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.656
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.607
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.551
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.5
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.414
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.356
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.302
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.249
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.18
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.144
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.092
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       11.032
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.958
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.881
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.806
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.727
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.663
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.572
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.513
FW EM 01  Floodway encroachment method is not selected at this section.
```

Floodway not appropriate.

```
RS:       10.425
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.346
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.265
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.216
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.183
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.14
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.099
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       10.028
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.996
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.96
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.875
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.796
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.733
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.655
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.571
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.498
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.418
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.359
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.266
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.184
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.123
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       9.046
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.957
```

Floodway not appropriate.

```
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.871
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.815
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.736
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.645
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.557
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.483
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.394
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.329
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.259
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.185
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.109
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       8.046
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.981
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.903
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.84
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.758
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.707
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.622
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.535
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.47
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.389
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.339
FW EM 01  Floodway encroachment method is not selected at this section.
```

Floodway not appropriate.

```
RS:       7.253
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.18
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.106
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       7.041
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.973
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.909
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.854
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.768
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.7
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.631
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.546
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.473
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.387
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.322
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.263
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.171
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.081
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       6.02
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.944
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.879
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.864
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.852
FW EM 01  Floodway encroachment method is not selected at this section.
```

Floodway not appropriate.

```
RS:       5.801
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.716
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.642
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.574
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.512
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.463
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.376
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.307
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.248
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.165
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.154
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.146
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.106
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.066
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.045
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       5.023
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.974
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.912
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.904
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.898
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.835
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.778
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.719
```

Floodway not appropriate.

```
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.651
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.569
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.508
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.428
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.354
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.295
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.273
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.249
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.182
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.104
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       4.018
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.93
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.848
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.763
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.69
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.604
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.525
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.462
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.387
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.299
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.233
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.192
FW EM 01  Floodway encroachment method is not selected at this section.
```

Floodway not appropriate.

```
RS:       3.147
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       3.074
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.997
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.919
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.85
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.762
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.683
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.618
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.559
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.514
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.484
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.454
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.42
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.343
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.268
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.195
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.184
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.132
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       2.06
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.97
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.882
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.792
FW EM 01  Floodway encroachment method is not selected at this section.
```

Floodway not appropriate.

```
RS:       1.723
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.682
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.635
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.624
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.574
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.531
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.515
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.491
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.443
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.412
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.353
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.31
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.243
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.187
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.154
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.12
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       1.036
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.963
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.885
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.798
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.722
FW EM 01  Floodway encroachment method is not selected at this section.

RS:       0.645
FW EM 01  Floodway encroachment method is not selected at this section.
```

Floodway not appropriate.

FLOODWAY WIDTH CHECK

RS: 0.175
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.077
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.259
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.259
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.181
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.138
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.084
FW FW 03 The right channel bank station may not be at the proper location.

RS: 13.96
FW FW 03 The right channel bank station may not be at the proper location.

RS: 13.735
FW FW 03 The right channel bank station may not be at the proper location.

RS: 13.567
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 13.567
FW FW 03 The right channel bank station may not be at the proper location.

RS: 13.497
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 13.318
FW FW 06 The left station effective of 10010.59 for the floodway profile is more than the left channel bank station of 9987.15
The left side of the floodway boundary is within the channel.
The left encroachment station of 0 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 13.305
FW FW 03 The right channel bank station may not be at the proper location.

RS: 13.246
FW FW 03 The Left channel bank station may not be at the proper location.

Floodway not appropriate.

RS: 13.004
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 13.004
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.939
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.873
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 12.873
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.798
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 12.798
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.619
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.556
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.502
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.403
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 12.403
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.342
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 12.282
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.238
FW FW 03 The right channel bank station may not be at the proper location.

RS: 12.154
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 12.092
FW FW 03 The right channel bank station may not be at the proper

Floodway not appropriate.

location.

RS: 12.03
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.989
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.954
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.885
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.83
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.83
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.762
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.713
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.656
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.607
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.607
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.551
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.356
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.302
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.249
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.18
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.18

Floodway not appropriate.

FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.144
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.144
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.092
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 11.092
FW FW 03 The right channel bank station may not be at the proper location.

RS: 11.032
FW FW 03 The right channel bank station may not be at the proper location.

RS: 10.958
FW FW 03 The right channel bank station may not be at the proper location.

RS: 10.881
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.881
FW FW 03 The right channel bank station may not be at the proper location.

RS: 10.727
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.663
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.663
FW FW 03 The right channel bank station may not be at the proper location.

RS: 10.572
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.513
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.425
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.425
FW FW 03 The right channel bank station may not be at the proper location.

RS: 10.265
FW FW 03 The Left channel bank station may not be at the proper location.

Floodway not appropriate.

RS: 10.14
FW FW 03 The right channel bank station may not be at the proper location.

RS: 10.028
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.996
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.996
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.875
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.796
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.733
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.655
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.571
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.498
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.498
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.359
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.266
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.957
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.871
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.815
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.815
FW FW 03 The right channel bank station may not be at the proper location.

Floodway not appropriate.

RS: 8.736
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.329
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.259
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.185
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.109
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.981
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.903
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.903
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.84
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.758
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.707
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.535
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.389
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.339
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.253
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.18
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.854
FW FW 03 The right channel bank station may not be at the proper

Floodway not appropriate.

location.

RS: 6.7
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.631
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.546
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.473
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.387
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.081
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.02
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.879
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.879
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.864
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.852
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.801
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.716
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.574
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.512
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.463
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.376

Floodway not appropriate.

FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.307
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.248
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.165
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.974
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.974
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.898
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.898
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.778
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.719
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.719
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.651
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.651
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.428
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.249
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.182
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.104
FW FW 03 The right channel bank station may not be at the proper location.

Floodway not appropriate.

RS: 3.93
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.763
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.69
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.604
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.525
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.525
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.387
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.233
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.192
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.147
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.147
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.997
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.683
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.454
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.454
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.268
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.195
FW FW 03 The Left channel bank station may not be at the proper location.

Floodway not appropriate.

RS: 2.195
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.184
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.06
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.97
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.792
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.723
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.682
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.635
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.624
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.624
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.574
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.531
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.443
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.412
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.412
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.353
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.154
FW FW 03 The Left channel bank station may not be at the proper

Floodway not appropriate.

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          location.

RS:       1.154
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.963
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.885
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.722
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.645
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.505
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.505
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.428
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.428
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.371
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.371
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.325
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.163
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.079
FW FW 03  The Left channel bank station may not be at the proper
          location.


SURCHARGE CHECK
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RS:       0.722
FW SC 01  The surcharge value is negative.


DISCHARGE CHECK
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Floodway not appropriate.

Floodway not appropriate.

General Note
Bank stations were checked and verified based upon aerial photography and topography.

STARTING WATER-SURFACE ELEVATION CHECK

---END---

Four Mile Wash

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain;Floodway
Date: 8/1/2011
Time: 3:34:32 PM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
Four Mile - W1,Four Mile - W1						
.175	321.639	330.248	330.973	96.33	250	D
.112	186.399	182.907	176.073	105.26	250	
.077	245.651	250.293	260.469	86.15	250	
.03	0	0	0	159.71	250	
Four Mile - W2,Four Mile - W2						
.259	385.885	413.56	424.522	177.47	2320	
.181	227.868	226.237	227.128	463.45	2320	D
.138	255.229	285.185	301.696	523.6	2320	
.084	0	0	0	165.68	2320	
Four Mile Wash,Four Mile Wash 1						
13.96	478.617	477.028	496.178	161.79	3420	
13.869	366.567	365.191	389.184	573.8	3420	
13.8	335.891	342.754	395.678	631.82	3420	D
13.735	478.931	455.289	445.715	853.46	3420	D
13.649	455.227	431.227	436.87	1037.37	3420	D,C
13.567	368.807	372.565	391.157	1350.48	3420	D
13.497	477.392	471.816	453.357	1250.9	3420	D,C
13.408	491.39	470.13	410.24	1735.29	3420	B
13.318	87.85	71.11	146.01	1477.72	3420	D,C
13.305	324.399	313.399	301.179	427.28	3420	
13.246	388.262	378.94	386.77	509.14	3420	
13.174	421.81	418.49	426.75	358.16	3420	
13.095	442.84	478.63	496.67	451.12	3420	
13.004	319.61	341.89	379.43	746.52	3420	
12.939	423.37	349.17	329.76	871.09	3420	
12.873	397.63	398.24	385.61	922.93	3420	
12.798	462.235	482.266	467.691	630.73	3420	
12.706	461.986	458.579	455.526	707.45	3420	
12.619	311.249	336.103	362.62	707.4	3420	D,C
12.556	248.405	282.205	252.624	798.99	3420	D
12.502	208.409	238.165	256.174	600.21	3420	
12.457	241.557	287.928	317.608	736.61	3420	
12.403	317.403	322.234	320.271	462.98	3420	D
12.342	290.063	316.806	338.035	640.05	3420	
12.282	222.336	229.164	221.275	517.6	3420	
12.238	474.904	443.769	417.309	476.38	3420	
12.154	394.499	330.085	340.6	849.07	3420	
12.092	313.211	324.765	278.376	837.82	3420	D
12.03	211.687	218.718	142.102	1356.45	3420	D
11.989	181.422	183.757	154.789	1053.16	3420	D
11.954	360.728	366.182	252.175	903.16	3420	D
11.885	258.65	288.54	341.309	916.14	3420	D
11.83	321.428	361.618	307.574	818.23	3420	
11.762	224.985	255.125	255.778	714.19	3420	
11.713	305.011	302.958	296.921	775.96	3420	
11.656	234.26	256.51	227.16	568.75	3420	D
11.607	284.399	294.564	330.343	405.64	3420	
11.551	309.456	271.018	336.691	405.51	3420	
11.5	454.544	453.2	465.79	390.77	3420	D
11.414	293.602	307.915	316.815	354.34	3420	D
11.356	242.416	286.136	263.763	434.19	3420	D
11.302	209.992	277.746	294.674	567.06	3420	
11.249	360.619	367.792	351.933	440.35	3420	D

Truly supercritical: Fr=1.03
"C" flows due to upstream and downstream conveyance areas either increasing or decreasing; Also, @ x-sec 13.305 decrease in conveyance area that affects upstream as well.
X-Sec 13.649 Fr=0.41
X-Sec 13.497 Fr=0.62
X-Sec 13.318 Fr=0.06

Blocked flow due to berm for stock pond.

"C" flows due to steep long slope, which increases velocity. Fr=0.81

11.18	202.894	190.139	182.493	677.56	3420	
11.144	342.903	271.159	279.672	708.3	3420	
11.092	361.44	317.757	338.088	890.25	3420	
11.032	412.741	393.168	386.361	617.36	1950	
10.958	399.241	404.611	409.967	768.07	1950	
10.881	391.092	397.276	398.792	795.39	1950	
10.806	403.165	413.264	407.692	834.93	1950	
10.727	397.768	340.297	314.738	718.82	1950	
10.663	410.042	478.737	495.935	899.22	1950	
10.572	335.81	313.583	334.764	843.35	1950	
10.513	422.999	464.507	397.468	1030.62	1950	
10.425	461.894	416.306	405.363	809.97	1950	
10.346	459.277	427.045	399.96	1096.02	1950	
10.265	249.083	259.578	284.151	271.21	1220	
10.216	0	0	0	322.39	1220	
Four Mile	Wash,Four	Mile Wash	2			
10.183	214.01	228.77	231.83	130.55	970	
10.14	229.02	215.72	175.44	208.37	970	
10.099	388.48	373.24	382.71	327.52	2760	
10.028	0	0	0	245.42	2760	D
Four Mile	Wash,Four	Mile Wash	3			
9.996	244.446	193.245	198.159	370.29	2910	
9.96	433.505	444.728	443.471	212.63	2910	
9.875	410.282	417.29	403.382	234.64	2910	
9.796	315.965	332.792	336.471	302.28	2910	
9.733	405.028	411.135	389.753	216.94	2910	D
9.655	441.064	444.393	444.418	400.81	2910	
9.571	378.926	388.464	404.809	412.44	2910	
9.498	445.528	418.068	399.46	209.59	2910	
9.418	315.543	312.749	342.159	164.35	2910	
9.359	499.642	492.765	476.268	182.44	2910	
9.266	446.062	435.137	429.285	134.49	2910	
9.184	322.617	317.938	317.336	117.67	2910	
9.123	414.582	406.992	399.246	226.71	2910	
9.046	466.262	469.407	481.106	223.69	2910	D
8.957	451.638	457.83	466.192	333.99	2910	
8.871	261.425	295.297	300.022	207.2	2910	
8.815	446.63	413.59	414.69	443.88	2910	
8.736	471.374	482.895	495.445	168.58	2250	D
8.645	495.641	463.598	427.022	285.17	2250	
8.557	405.703	392.69	391.252	450.68	2910	
8.483	461.679	469.356	486.173	707.44	2910	D
8.394	311.299	341.418	412.286	597.61	2910	D
8.329	337.622	368.267	361.82	454.85	2910	
8.259	342.06	392.993	333.357	542.75	2910	D
8.185	451.409	402.808	329.386	371.87	2910	
8.109	305.41	328.976	318.981	596.47	2910	
8.046	309.358	345.799	402.687	553.57	2910	
7.981	412.476	410.518	414.832	527.12	2910	
7.903	347.251	335.81	318.625	223.09	2910	
7.84	404.015	428.234	447.022	309.22	2910	
7.758	277.036	272.283	277.439	402.81	2910	
7.707	461.8	446.087	420.9	260.53	2910	
7.622	461.027	460.621	466.579	415.87	2910	
7.535	339.028	343.346	356.987	467.79	2910	
7.47	399.655	427.567	441.216	424.59	2910	
7.389	237.288	266.037	287.67	659.44	2910	D
7.339	489.545	454.159	413.303	788.38	2910	
7.253	417.078	386.151	337.737	658.6	2910	
7.18	377.155	389.587	373.163	564.84	2910	D
7.106	343.934	341.126	327.292	672.94	2910	D
7.041	376.531	358.76	350.299	698.32	2910	
6.973	347.182	339.525	334.28	577.7	2910	
6.909	277.961	292.739	326.332	548.68	3320	
6.854	400.615	450.388	432.135	983.15	3320	
6.768	369.378	359.868	363.602	918.07	3320	
6.7	391.24	365.182	358.473	561.06	3320	D

© *"C" flow due to split flow therefore change in flows, conveyance area, and velocity. Fr=0.98*

6.631	448.214	448.909	450.736	476.78	3320	
6.546	353.411	385.94	412.372	488.38	3320	
6.473	418.042	451.761	486.262	559.93	3320	
6.387	347.243	346.116	348.991	606.03	3320	
6.322	291.125	311.077	318.075	673.28	3320	
6.263	454.954	482.456	496.995	974.22	3320	D
6.171	423.628	477.565	498.922	895.77	3320	
6.081	315.966	319.668	319.087	1365.66	3320	D
6.02	440.689	404.863	367.459	1224.66	3320	D,B
5.944	342.551	343.899	332.186	1270.99	3320	D,B
5.879	46.96	74.4	49.42	1564.53	3320	
5.864	58.24	65.51	59.73	1412.2	3330	D,C
5.852	266.05	267.24	281.08	1393.47	3330	D
5.801	445.68	448.99	454.58	1217.7	3330	D
5.716	349.32	394.47	352.21	1162.84	3330	D,B
5.642	356.19	356.13	343.24	929.26	3330	D,B
5.574	324.15	330.37	334.51	709.07	3330	
5.512	261.87	257.62	253.93	583.29	3330	D
5.463	432.65	461.11	440.36	666.02	3330	D
5.376	349.23	363.42	350.46	452.79	3330	D
5.307	304.42	312.38	300.88	649.52	3330	D
5.248	419.288	433.78	453.704	876.91	3330	
5.165	104.413	105.086	106.954	385.14	3330	D
5.154	CULVERT#1-Up					
5.154	CULVERT#1-Dn					
5.146	229.06	209.627	205.299	93.98	3330	
5.106	228.48	209.8	207.77	213.38	3330	
5.066	229.787	229.005	230.054	77.04	3330	
5.045	CULVERT#1-Up					
5.045	CULVERT#1-Dn					
5.023	255.403	257.709	256.622	61.03	3330	
4.974	339.33	327.942	335.851	189.27	3330	
4.912	75.2456	71.5373	70.3352	71.89	3330	
4.904	CULVERT#1-Up					
4.904	CULVERT#1-Dn					
4.898	320.544	332.056	333.757	105.54	3330	
4.835	317.262	302	274.363	374.19	3330	
4.778	305.258	312.517	343.864	556.23	3330	
4.719	367.599	358.284	350.823	693.62	3330	D
4.651	435.736	431.493	430.672	732.49	3330	
4.569	308.954	324.798	316.972	598.05	3330	
4.508	397.41	420.542	422.08	760.41	3330	
4.428	399.836	393.587	371.901	882.96	3330	
4.354	296.069	310.856	330.035	928.1	3330	
4.295	91.824	116.992	202.752	498.09	3330	C
4.273	120.875	122.939	126.334	802.39	3330	
4.249	391.093	354.183	317.216	839.73	3330	D
4.182	412.108	411.673	365.868	937.74	3330	D
4.104	451.782	453.401	437.336	665.36	3330	
4.018	466.057	465.743	463.251	533.93	3330	
3.93	441.99	436.786	425.501	450.44	3330	
3.848	455.477	448.434	440.21	489.28	3330	
3.763	386.343	382.364	381.335	443.1	3330	
3.69	453.394	457.12	459.594	408.55	3330	
3.604	430.36	416.506	405.932	456.38	3330	
3.525	327.755	330.333	335.905	362.63	3330	
3.462	392.475	397.429	394.273	324.86	3330	
3.387	466.163	463.592	465.075	445.15	3330	
3.299	344.666	348.589	415.578	277.31	3330	
3.233	218.106	216.794	192.63	529.12	3330	
3.192	229.635	235.945	196.948	414.42	3330	
3.147	393.623	388.438	375.259	432.2	3330	
3.074	397.957	403.95	407.738	339.13	3330	
2.997	414.841	410.607	428.907	529.23	3330	D
2.919	364.897	366.274	369.179	487.3	3330	
2.85	464.816	465.297	468.784	526.69	3330	
2.762	386.038	417.343	447.142	703.55	3330	

Blocked due to structure in floodzone.

"C" flow due to roadway crossing. Fr=0.87; high point on reoad.

Blocked due to non-conveyance area in stockpond.

"C" flow due to sudden decrease in conveyance area. Fr=0.74

2.683	326.509	343.149	381.814	564.73	3330	
2.618	310.096	312.417	316.187	586.26	3330	
2.559	247.092	238.13	234.634	416.74	3330	
2.514	151.957	156.651	146.69	630.11	3330	
2.484	174.188	160.874	158.58	438.73	3330	D
2.454	178.2	177.56	173.742	932.26	3590	D
2.42	405.799	406.96	408.493	754.51	3590	
2.343	401.534	393.806	386.571	814.69	3590	
2.268	388.088	384.761	386.143	699.83	3590	
2.195	48.8202	58.1736	57.1729	172.42	3590	D
2.184	288.895	278.912	246.779	301.33	3590	D
2.132	361.93	375.3	404.66	437.24	3590	
2.06	455.863	477.489	467.439	469.62	3590	D
1.97	483.944	463.565	428.21	606.23	3590	
1.882	499.197	475.006	440.73	899.09	3590	D
1.792	371.25	365.755	365.52	861.45	3590	D
1.723	234.878	218.242	156.312	713.95	3590	D
1.682	258.15	246.993	240.505	1017.55	3590	D
1.635	57.1851	58.0774	58.523	485.67	3590	D,C
1.624	246.44	262.98	239.17	1297.96	3590	
1.574	255.32	224.85	108.89	1493.81	3590	D
1.531	169.54	86.55	75.2	1418.08	3590	
1.515	128.26	128.12	157.73	788.82	3590	
1.491	122.032	252.566	343.491	757.72	5520	
1.443	0	0	0	952.06	5520	
Four Mile Wash,Four Mile Wash 4						
1.412	307.625	312.366	326.315	741.27	3200	
1.353	238.341	227.341	225.659	479.86	3200	
1.31	394.143	354.961	299.16	567.94	3200	D
1.243	0	0	0	556.94	3200	
Four Mile Wash,Four Mile Wash 5						
1.187	140.367	173.579	163.787	794.38	5520	
1.154	265.356	181.151	163.941	527.31	5520	
1.12	417.836	438.637	489.474	230.23	5520	
1.036	384.344	389.069	389.228	622.67	5520	
.963	464.558	409.401	333.572	677.27	5520	
.885	475.555	460.023	445.249	685.57	5520	D
.798	388.492	402.012	445.497	443.72	5520	
.722	431.427	403.937	426.344	497.82	5520	
.645	362.195	349.92	354.159	796.52	5520	
.579	369.074	393.789	372.814	1085.7	5520	D
.505	405.762	406.667	382.462	658.42	5520	
.428	294.649	296.99	290.406	1084.72	5520	D
.371	212.356	245.1	271.271	915.06	5520	D
.325	249.448	379.437	474.513	788.95	5520	D
.253	490.825	474.292	444.148	522.3	5520	D
.163	484.373	444.657	391.888	940.79	5520	D
.079	0	0	0	673.66	5520	D

"C" flow due to x-sec cut along embankment to capture the most conservative floodplain upstream; embankment acts as a high point in the surrounding area affecting both upstream and downstream. Fr=0.59

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

XS JT 01 Junction option is used.
For flood insurance study, this option should be used
if the tributary and main stream can have coincident peaks,
or it may be used for the stream without floodway.
It may also be used if the discharges at different time periods
are known from the rainfall-runoff model.
How to remove the junction is explained under Help.

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 11.032
XS DC 01 Discharge decreases in the downstream direction.

Split east from hydrology.

RS: 10.265
XS DC 01 Discharge decreases in the downstream direction.

Incidental split west. See Appendix E for supporting documentation.

RS: 8.736
XS DC 01 Discharge decreases in the downstream direction.

Incidental split east. See Appendix E for supporting documentation.

XS DC 02 Constant dicharge used for the Four Mile - W1,Four Mile - W1

XS DC 02 Constant dicharge used for the Four Mile - W2,Four Mile - W2

XS DC 02 Constant dicharge used for the Four Mile Wash,Four Mile Wash 4

XS DC 02 Constant dicharge used for the Four Mile Wash,Four Mile Wash 5

LOCATION CHECK

RS: 0.112
XS LC 01 Lenchl Up/TopwdthAct Dn = 2.12
MaxChlDpth Up/MaxChlDpth Dn = 1.30
TopwdthAct Up/TopwdthAct Dn = 1.22
This cross section is located too far upstream from the critical depth cross section.

Adding additional cross sections did not remove the "C" depth warning; Reach lengths are less than 500 feet.

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is Four Mile Wash,Four Mile Wash 5
Normal S = 0.0047 is specified as the downstream boundary for profile Floodplain

XS BC 03 Maximum number of iterations is 0
It should not be less than 20.

No iterations are required for slope area boundary condition.

LATERAL WEIRS CHECK

---END---

T1S-R6W-S05S
CheckRAS Reports

T1S-R6W-S05S

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain;Floodway
Date: 7/18/2011
Time: 3:45:45 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T1S_R6W_S05S,T1S_R6W_S05S						
1.726		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
1.647		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
1.564		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
1.49		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
1.399		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
1.313		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
1.244		0.042	0.065	-----	0.1	0.3
		0.065	0.042	-----		
1.138		0.042	0.065	-----	0.1	0.3
		0.065	0.042	-----		
1.054		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.994		0.042	0.065	-----	0.1	0.3
		0.065	0.042	-----		
.884		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.805		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.715		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.626		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.554		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.465		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.387		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
.32		0.042	0.045	0.045	0.1	0.3
		0.065	0.032	0.042		
		0.06	-----	-----		
.258		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
.197		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		

.132	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
.066	0.042	-----	-----	0.1	0.3
	0.065	-----	0.042		
	0.042	-----	0.06		
	0.065	-----	0.042		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.042	0.065
Right Overbank n Value:	0.042	0.06
Channel n Value:	0.032	0.065
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T1S-R6W-S05S

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 7/18/2011
Time: 3:49:31 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
T1S_R6W_S05S,T1S_R6W_S05S							
1.726					9388.05	10406.74	
1.726	19	0.93	9867.32	10180.99	9867.32	10180.99	
1.647					9414.79	10437.4	
1.647	19	0.91	9761.63	10062.71	9761.63	10062.71	
1.564					9377.14	10362.88	
1.564	1	0.97	9796.1	10107.23	9796.1	10107.23	
1.49					9187.71	10157.64	
1.49	19	0.94	9626.78	10049.12	9626.78	10049.12	
1.399					9207.37	10142.15	
1.399	19	0.99	9605.85	10045.71	9605.85	10045.71	
1.313					9179.74	10156.57	
1.313	19	0.93	9697.95	10044.08	9697.95	10044.08	
1.244					9334.56	10301.34	
1.244	19	0.96	9649.28	10040.52	9649.28	10040.52	
1.138					9692.09	10843.41	
1.138	19	0.91	9986.78	10290.53	9986.78	10290.53	
1.054					9652.98	10923.5	
1.054	19	0.99	9940.16	10300.81	9940.16	10300.81	
0.994					9712.51	11207.05	
0.994	19	0.94	9924.78	10282.09	9924.78	10282.09	
0.884					9714.76	11027.79	
0.884	19	0.97	9946.81	10312.08	9946.81	10312.08	
0.805					9596.52	10329.77	
0.805	19	0.89	9864.83	10159.11	9864.83	10159.11	
0.715					9646.07	10329.77	
0.715	19	0.72	9810.21	10151.63	9810.21	10151.63	
0.626					9572.09	10197.23	
0.626	19	0.85	9737.86	10080.66	9737.86	10080.66	
0.554					9477.41	10291.64	
0.554	19	0.86	9677.28	10021.77	9677.28	10021.77	
0.465					9719.35	10129.21	
0.465	19	0.88	9799.02	10017.07	9799.02	10017.07	
0.387					9530.85	10412.99	
0.387	19	0.9	9728.86	10037.2	9728.86	10037.2	
0.32					9526.64	10666.48	
0.32	19	0.91	9747.68	10118.46	9747.68	10118.46	
0.258					9502.77	10698.98	
0.258	19	0.88	9732.74	10148.34	9732.74	10148.34	
0.197					9783.71	10645.51	
0.197	19	0.88	9814.96	10226.97	9814.96	10226.97	
0.132					9859.85	10747.23	
0.132	19	0.91	9875.14	10260.61	9875.14	10260.61	
0.066					9825.64	10732.88	
0.066	19	0.83	9843.81	10325.04	9843.81	10325.04	

ENCROACHMENT METHOD CHECK

FLOODWAY WIDTH CHECK

```
RS:       1.647
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       1.564
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.49
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       1.313
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.313
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       1.244
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.138
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.805
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.715
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.626
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.465
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.465
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.387
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.32
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.32
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.197
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.132
FW FW 03  The right channel bank station may not be at the proper
```

General Note
Bank stations were checked and verified based upon aerial photography and topography.

location.

RS: 0.066
FW FW 03 The Left channel bank station may not be at the proper location.

SURCHARGE CHECK

DISCHARGE CHECK

STARTING WATER-SURFACE ELEVATION CHECK

---END---

T1S-R6W-S05S

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

General Note for "D"
There are several cross sections showing divided flow, but they are just isolated islands.

Selected profiles: Floodplain;Floodway
Date: 7/18/2011
Time: 3:47:50 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T1S_R6W_S05S,T1S_R6W_S05S						
1.726	418.31	415.87	419.27	1018.69	3950	
1.647	440.72	438.42	385.68	1022.61	3950	
1.564	417.7	389.17	392.72	985.74	3950	
1.49	475.07	482.65	482.56	946.49	3950	D
1.399	449.94	455.25	459.21	934.78	3950	
1.313	372.99	360.2	357.89	959.07	3950	D
1.244	438.19	561.58	453.68	966.78	3950	
1.138	405.8	443.71	527.56	1005.9	3950	D
1.054	323.45	314.12	469.68	1270.52	3950	
.994	578.79	584.75	620.56	1444.65	3950	D
.884	390.94	414.64	450.09	1313.03	3950	
.805	522.8	476.75	437.52	733.25	3950	
.715	462.24	467.05	467.03	683.7	3950	
.626	327.69	384.32	405.93	625.14	3950	
.554	400.2	465.5	491.18	814.23	3950	
.465	423.62	413.21	407.58	409.86	3950	
.387	379.434	352.59	331.18	852.07	3950	D
.32	362.012	328.574	289.295	1107.34	3950	D
.258	338.319	321.785	282.326	1130.83	3950	D
.197	356.106	346.682	289.781	861.79	3950	
.132	360.37	346.291	307.535	793.88	3950	D
.066	0	0	0	907.24	3950	

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

XS DC 02 Constant dicharge used for the T1S_R6W_S05S,T1S_R6W_S05S

LOCATION CHECK

```
BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T1S_R6W_S05S,T1S_R6W_S05S
         Normal S = 0.003 is specified as the downstream boundary
         for profile Floodplain

XS BC 02 The name of the stream is T1S_R6W_S05S,T1S_R6W_S05S
         Normal S = 0.003 is specified as the downstream boundary
         for profile Floodway

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

T1N-R6W-S17 & S18
CheckRAS Reports

T1N-R6W-S17

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 7/19/2011
Time: 1:02:02 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
T1N-R6W-S17,T1N-R6W-S17							
2.156					9933.25	10071.49	
2.156	19	0.23	9954.16	10051.92	9954.16	10051.92	
2.091					9898.32	10087.5	
2.091	19	0.99	9935.55	10050.03	9935.55	10050.03	
2.015					9820.17	10027.63	
2.015	19	0.88	9963.85	10017.5	9963.85	10017.5	
1.961					9877.48	10045.01	
1.961	1	0.94	9955.9	10037.7	9955.9	10037.7	
1.89					9960.56	10193.76	
1.89	19	0.81	9961.43	10045.75	9961.43	10045.75	
1.824					9864.08	10057.41	
1.824	19	0.99	9977.97	10055.87	9977.97	10055.87	
1.734					9886.74	10277.2	
1.734	19	0.6	9972.94	10104.18	9972.94	10104.18	
1.67					9957.97	10115.97	
1.67	19	0.35	9973.29	10109.25	9973.29	10109.25	
1.66					9947.41	10103.74	
1.66	19	0.24	9973.16	10102.92	9973.16	10102.92	
1.645					9898.45	10049.36	
1.645	19	0.27	9948.11	10045.14	9948.11	10045.14	
1.562					9962.38	10172.72	
1.562	19	0.38	9966.88	10022.61	9966.88	10022.61	
1.483					9976.18	10028.12	
1.483	19	0.14	9987.32	10023.01	9987.32	10023.01	
1.436					9971.68	10035.7	
1.436	19	0.62	9972.23	10032.78	9972.23	10032.78	
1.382					9959.74	10205.51	
1.382	19	0.44	9960.63	10083.03	9960.63	10083.03	
1.3					9942.88	10084.1	
1.3	19	0.59	9957.63	10055.93	9957.63	10055.93	
1.255					9968.38	10063	
1.255	19	0.57	9995.99	10039.26	9995.99	10039.26	
1.204					9887.31	10086.91	
1.204	19	0.58	9985.66	10027.54	9985.66	10027.54	
1.136					9782.78	10044.97	
1.136	19	0.58	9988.13	10024.34	9988.13	10024.34	
1.097					9682.86	10099.33	
1.097	19	0.3	9883.58	10030.48	9883.58	10030.48	
1.049					9888.8	10050.07	
1.049	1	0.47	9929.1	10029.44	9929.1	10029.44	
1.037					9909.19	10135.56	
1.037	1	0.3	9953.6	10016.91	9953.6	10016.91	
1.02					9960.55	10071.29	
1.02	19	0.75	9961.77	10011.47	9961.77	10011.47	
0.958					9729.28	10067.2	
0.958	19	0.71	9919.65	10024.71	9919.65	10024.71	
0.892					9924.31	10205.04	
0.892	19	0.52	9961.47	10013.65	9961.47	10013.65	
0.811					9869.68	10032.2	
0.811	19	0.4	9952.21	10028.61	9952.21	10028.61	
0.727					9943.63	10078.38	
0.727	19	0.2	9959.23	10035.38	9959.23	10035.38	
0.659					9936.8	10166.01	

0.659	19	0.23	9945.28	10083.45	9945.28	10083.45
0.58					9920.71	10044.99
0.58	19	0.14	9949.49	10033.18	9949.49	10033.18
0.526					9963.17	10041.93
0.526	19	0.32	9967.37	10026.69	9967.37	10026.69
0.436					9944.97	10074.26
0.436	19	0.61	9957.26	10023.43	9957.26	10023.43
0.392					9955.69	10215.63
0.392	19	0.51	9961.98	10051.41	9961.98	10051.41
0.31					9946.18	10054.62
0.31	19	0.28	9960.48	10019.09	9960.48	10019.09
0.242					9970.97	10207.06
0.242	19	0.14	9976.63	10029.36	9976.63	10029.36
0.16					9951.12	10040.27
0.16	19	0.03	9976.08	10031.6	9976.08	10031.6
0.111					9975.5	10041.96
0.111	19	0.06	9976.81	10039.79	9976.81	10039.79
0.082					9967.21	10040.82
0.082	19	0.09	9976.32	10029.77	9976.32	10029.77
0.024					9930.92	10046.72
0.024	19	0.11	9936.56	10019.09	9936.56	10019.09

ENCROACHMENT METHOD CHECK

FLOODWAY WIDTH CHECK

RS: 2.156
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.091
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.961
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.89
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.824
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.67
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.66
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.645
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.483
FW FW 03 The Left channel bank station may not be at the proper location.

**General Note* Bank stations were checked and verified based upon aerial photography and topography.*

RS: 1.436
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.436
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.382
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.382
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.3
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.204
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.136
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.136
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.097
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.049
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.02
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.892
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.811
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.727
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.659
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.659
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.526
FW FW 03 The Left channel bank station may not be at the proper location.

```
RS:       0.392
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.31
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.242
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.111
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.082
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.082
FW FW 03  The right channel bank station may not be at the proper
          location.


SURCHARGE CHECK
---------------


DISCHARGE CHECK
---------------


STARTING WATER-SURFACE ELEVATION CHECK
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---END---
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T1N-R6W-S17 & T1N-R6W-S18

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: PF 1
Date: 7/19/2011
Time: 9:00:02 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T1N-R6W-S17,T1N-R6W-S17						
2.156		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
2.091		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
2.016		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.962		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.891		0.046	-----	-----	0.1	0.3
1.824		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.734		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.67		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.66		0.02	-----	-----	0.1	0.3
1.646		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.563		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.483		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.436		0.046	-----	-----	0.1	0.3
1.383		0.042	0.046	-----	0.1	0.3
		0.046	0.042	-----		
1.301		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
1.255		0.046	-----	-----	0.1	0.3
1.205		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.137		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
1.097		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
1.05		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
1.037		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
1.02		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
.959		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
.892		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
.812		0.042	0.042	-----	0.1	0.3
		-----	0.046	-----		
.727		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
.659		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
.581		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		

Very clean, smooth, well-maintained paved road approximately 30 ft wide and parallel to cross section.

.526		0.046	-----	-----	0.1	0.3
.437		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
.392		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
.31		0.042	0.042	0.046	0.1	0.3
		-----	0.046	0.042		
.243		0.042	0.042	0.065	0.1	0.3
		-----	0.046	0.042		
		-----	0.065	-----		
.161		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		-----	0.065	0.065		
		-----	-----	0.046		
		-----	-----	0.065		
		-----	-----	0.042		
.112		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.046		
		-----	0.065	0.065		
		-----	-----	0.042		
.083		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.046		
		-----	0.065	0.065		
		-----	-----	0.042		
T1N-R6W-S18,S18-NORTH						
.024		0.065	0.065	0.046	0.1	0.3
		-----	0.046	0.065		
		-----	-----	0.042		
2.237		0.065	0.06	0.06	0.1	0.3
		0.035	0.042	0.035		
		0.06	0.06	-----		
2.236	Lateral Weirs					
2.163		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
2.162	Lateral Weirs					
2.161	Lateral Weirs					
2.097		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
2.096	Lateral Weirs					
2.095	Lateral Weirs					
2.021		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
2.02	Lateral Weirs					
1.953		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
1.888		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
1.819		0.035	0.042	0.06	0.1	0.3
		0.06	0.06	0.035		
1.754		0.035	0.06	-----	0.1	0.3
		0.06	0.042	-----		
		-----	0.06	-----		
		-----	0.035	-----		
1.694		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
1.632		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		
1.552		0.035	0.06	0.06	0.1	0.3
		0.06	0.042	0.035		
		-----	0.06	-----		

Lateral weirs used to determine split flows.

1.471	0.035	0.06	0.06	0.1	0.3
	0.06	0.042	0.035		
	-----	0.06	-----		
1.411	0.035	0.06	0.06	0.1	0.3
	0.06	0.042	0.035		
	-----	0.06	-----		
1.36	0.035	0.06	0.06	0.1	0.3
	0.06	0.042	0.035		
	-----	0.06	-----		
1.274	0.035	0.06	0.06	0.1	0.3
	0.06	0.042	0.035		
	-----	0.06	-----		
1.208	0.035	0.065	-----	0.1	0.3
	0.042	0.046	-----		
	0.065	0.06	-----		
	-----	0.032	-----		
	-----	0.035	-----		
1.177	0.042	0.065	0.06	0.1	0.3
	0.065	0.046	0.042		
	-----	0.06	-----		
T1N-R6W-S18,S18-SOUTH					
1.152	0.042	0.065	-----	0.1	0.3
	0.046	0.046	-----		
	0.065	0.065	-----		
1.097	0.065	0.046	0.065	0.1	0.3
	0.046	0.065	0.042		
1.036	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
.994	0.065	0.065	0.046	0.1	0.3
	-----	0.046	0.065		
.948	0.065	0.065	-----	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.916	0.065	0.046	0.065	0.1	0.3
	-----	0.065	0.042		
.877	0.065	0.065	-----	0.1	0.3
	-----	0.046	-----		
	-----	0.042	-----		
.832	0.065	0.065	-----	0.1	0.3
	-----	0.046	-----		
	-----	0.042	-----		
.741	0.042	0.065	0.046	0.1	0.3
	0.065	0.046	0.065		
	-----	-----	0.042		
.691	0.02	-----	-----	0.1	0.3
.679	0.065	0.065	0.065	0.1	0.3
	-----	0.046	-----		
.606	0.065	0.046	0.065	0.1	0.3
	-----	0.065	0.042		
.522	0.042	0.065	-----	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.493	0.042	0.042	-----	0.1	0.3
	-----	0.065	-----		
.421	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.339	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.256	0.065	-----	-----	0.1	0.3
.165	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.068	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.046	-----	-----		
.011	0.042	-----	-----	0.1	0.3
	0.065	-----	0.065		

Very clean, smooth, well-maintained paved road approximately 30 ft wide and parallel to cross section.

```
                                0.046      -----      -----
--------------------------------------------------------------------------------

---Summary of Statistics---
                                Minimum         Maximum
Left Overbank n Value:           0.02            0.065
Right Overbank n Value:          0.035           0.065
Channel n Value:                 0.032           0.065
Contraction Coefficient:         0.1             0.1
Expansion   Coefficient:         0.3             0.3


ROUGHNESS COEFFICIENT CHECK
-----------------------------------

RS:       1.66
NT RC 01 Left overbank n value is less than 0.035
         The n value for overbank is usually larger then 0.035.
         The n value should be reevaluated.

RS:       0.691
NT RC 01 Left overbank n value is less than 0.035
         The n value for overbank is usually larger then 0.035.
         The n value should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

ROUGHNESS COEFFICIENT AT STRUCTURES
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---END---
```

Very clean, smooth, well-maintained paved road approximately 30 ft wide and parallel to cross section.

T1N-R6W-S17 & T1N-R6W-S18

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: PF 1
Date: 7/19/2011
Time: 11:35:40 AM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T1N-R6W-S17,T1N-R6W-S17						
2.156	354.13	342.45	326.92	138.24	1114.15	
2.091	408.35	398.52	388.73	164.32	1114.15	D
2.016	281.37	285.87	283.14	207.47	1114.15	
1.962	354.33	373.51	352.87	167.53	1114.15	
1.891	350.82	352.54	345.86	233.19	1114.15	
1.824	469.63	473.96	447.67	193.36	1114.15	
1.734	370	339.24	282.5	389.54	1114.15	D
1.67	47.42	52.4	49.89	158.02	1114.15	
1.66	68.12	74.78	68.03	156.33	1114.15	
1.646	449.92	440.6	419.4	150.97	1114.15	
1.563	412.51	417.26	430.99	147.94	1114.15	D
1.483	248.32	249.01	250.95	52.45	1114.15	
1.436	282.77	282.98	287.18	64.02	1114.15	
1.383	473.28	432.18	359	245.77	1114.15	
1.301	252.2	241.75	282.74	141.22	1114.15	B
1.255	256.96	267.02	281.8	94.61	1114.15	B
1.205	330.58	358.96	383.58	199.6	1114.15	B
1.137	211.65	208.91	207.15	241.18	1114.15	D
1.097	307.74	249.79	209.05	416.47	1114.15	B
1.05	67.34	66.89	70	160.03	1114.15	
1.037	95.58	89.21	89.14	225.52	1114.15	
1.02	319.95	323.58	315.66	83.96	1114.15	D,C
.959	297.12	351.03	325.07	337.92	1114.15	
.892	397.27	425.77	412.02	232.65	1114.15	D
.812	385.13	444.86	459.48	162.53	1114.15	
.727	368	360.43	353.08	134.75	1114.15	
.659	415.81	413.87	306.37	225.52	1114.15	D
.581	275.28	288.88	279.84	124.35	1114.15	
.526	455.49	472.02	493.08	67.64	1114.15	D
.437	249.9	233.73	190.77	129.7	1114.15	
.392	403.11	434.42	392.92	249.33	1114.15	D
.31	352.03	356.69	359.08	108.44	1114.15	
.243	422.59	433.27	436.85	188.49	1114.15	D
.161	252.59	258.6	268.13	83.42	1114.15	D
.112	151.48	152.67	156.4	66.46	1114.15	
.083	311.51	309.57	306.2	73.61	1114.15	
.024	0	0	0	115.8	1114.15	
T1N-R6W-S18,S18-NORTH						
2.237	349.45	389.91	400.52	1097.19	5902	
2.236	Lateral Weirs					
2.163	371.24	348.08	340.73	966.25	5868.07	E
2.162	Lateral Weirs					
2.161	Lateral Weirs					
2.097	416.33	405.71	403.85	833.32	5232.48	E
2.096	Lateral Weirs					
2.095	Lateral Weirs					
2.021	369.71	355.54	350.99	799.23	4173.2	E
2.02	Lateral Weirs					
1.953	357.92	343.33	339.97	822.42	3914.28	E
1.888	359.1	366.24	369.64	427.1	3913.8	D
1.819	329.52	344.88	348.62	858.97	3913.8	
1.754	311.93	312.62	313.27	1208.57	4768.2	
1.694	306.95	328.55	329.05	1445.17	4768.2	

Blocked due to structures in flood zone.

"C" flow due to sudden decrease in conveyance area. Fr =0.92

Extending cross sections is not necessary. Lateral weirs relieving split flows.

1.632	411.13	424.64	419.7	1406.58	4768.2	
1.552	434.1	425.39	424.93	1766	4768.2	
1.471	338.14	316.88	313.31	1511.6	4768.2	
1.411	296.93	270.08	266.93	1380.3	4768.2	D
1.36	480.182	454.229	423.305	1556.39	4768.2	D
1.274	337.56	350.22	368.15	119.25	1507.2	
1.208	171.05	159.46	146.01	283.93	1507.2	
1.177	132.67	134.33	130.19	73.25	1320.2	D,C
1.152	0	0	0	229.68	1320.2	D
T1N-R6W-S18,S18-SOUTH						
1.097	326.229	322.576	318.176	37.15	206.05	
1.036	225.321	220.376	215.27	38.54	206.05	
.994	238.797	244.397	252.258	39.09	206.05	
.948	159.946	166.189	178.568	39.43	206.05	
.916	208.858	209.123	218.992	45.08	206.05	
.877	238.853	235.25	231.852	48.28	206.05	
.832	484.137	479.633	473.569	45.82	206.05	
.741	278.592	265.117	248.742	33.17	206.05	C
.691	52.5743	62.0493	83.5407	84.5	206.05	
.679	394.737	389.745	384.082	42.23	356.05	
.606	447.556	443.374	438.501	42.02	356.05	
.522	142.596	151.564	162.875	45.66	356.05	
.493	368.8	377.453	380.434	84	356.05	
.421	435.761	433.05	435.4	92.75	356.05	D
.339	438.716	441.2	442.875	270.82	356.05	D
.256	477.148	477.714	474.16	78.3	356.05	
.165	512.72	511.555	522.748	31.53	356.05	C
.068	300.34	303.53	312.86	94.2	356.05	
.011	0	0	0	79.01	356.05	D

"C" flow due to sudden decrease in conveyance area. Fr =0.94

Truly critical flow. X-Sec 0.741 Fr =0.99 X-Sec 0.165 Fr = 1.00

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

XS JT 01 Junction option is used.
For flood insurance study, this option should be used
if the tributary and main stream can have coincident peaks,
or it may be used for the stream without floodway.
It may also be used if the discharges at different time periods
are known from the rainfall-runoff model.
How to remove the junction is explained under Help.

This junction was used to estimate the split flow using the optimization option.

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 2.163
XS DC 01 Discharge decreases in the downstream direction.

RS: 2.097
XS DC 01 Discharge decreases in the downstream direction.

RS: 2.021

Incidental splits east and west. See App. E for supporting documentation.

```
XS DC 01 Discharge decreases in the downstream direction.

RS:      1.953
XS DC 01 Discharge decreases in the downstream direction.

RS:      1.888
XS DC 01 Discharge decreases in the downstream direction.

RS:      1.274
XS DC 01 Discharge decreases in the downstream direction.

RS:      1.177
XS DC 01 Discharge decreases in the downstream direction.

XS DC 02 Constant dicharge used for the T1N-R6W-S17,T1N-R6W-S17


LOCATION CHECK
---------------

RS:      1.208
XS LC 01 Lenchl Up/TopwdthAct Dn = 2.18
         MaxChlDpth Up/MaxChlDpth Dn = 1.44
         TopwdthAct Up/TopwdthAct Dn = 3.88
         This cross section is located too far upstream from the
         critical depth cross section.

RS:      0.832
XS LC 01 Lenchl Up/TopwdthAct Dn = 14.46
         MaxChlDpth Up/MaxChlDpth Dn = 1.86
         TopwdthAct Up/TopwdthAct Dn = 1.38
         This cross section is located too far upstream from the
         critical depth cross section.

RS:      0.256
XS LC 01 Lenchl Up/TopwdthAct Dn = 15.15
         MaxChlDpth Up/MaxChlDpth Dn = 2.46
         TopwdthAct Up/TopwdthAct Dn = 2.48
         This cross section is located too far upstream from the
         critical depth cross section.


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T1N-R6W-S17,T1N-R6W-S17
         Normal S = 0.002677 is specified as the downstream boundary
         for profile PF 1

XS BC 02 The name of the stream is T1N-R6W-S18,S18-SOUTH
         Normal S = 0.0086 is specified as the downstream boundary
         for profile PF 1

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
-----------------------

---END---
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Incidental splits east and west. See App. E for supporting documentation.

Incidental splits east. See App. E for supporting documentation.

Ok, flow still stabilizing after lateral weirs.

Incidental split east. See App. E for supporting documentation.

Flow optimization. See App. E for supporting documentation.

Adding additional cross sections did not remove the "C" depth warning; Reach lengths are less than 500 feet.

No iterations are required for slope area boundary condition.

T1N-R6W-S08
CheckRAS Reports

T1S-R6W-S08

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/25/2011
Time: 3:20:11 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T1S_R6W_S08, T1S_R6W_S08						
5.334		0.035	-----	-----	0.2	0.4
5.273		0.035	-----	-----	0.2	0.4
5.203		0.035	-----	-----	0.1	0.3
5.121		0.035	-----	-----	0.1	0.3
5.047		0.035	-----	-----	0.1	0.3
4.961		0.035	-----	-----	0.1	0.3
4.897		0.035	-----	-----	0.1	0.3
4.829		0.035	-----	-----	0.1	0.3
4.763		0.035	-----	-----	0.1	0.3
4.696		0.035	-----	-----	0.1	0.3
4.621		0.035	-----	-----	0.1	0.3
4.546		0.035	-----	-----	0.1	0.3
4.484		0.035	-----	-----	0.1	0.3
4.404		0.035	-----	-----	0.1	0.3
4.321		0.035	-----	-----	0.1	0.3
4.239		0.035	-----	-----	0.1	0.3
4.162		0.035	-----	-----	0.1	0.3
4.07		0.035	-----	-----	0.1	0.3
3.98		0.035	-----	-----	0.1	0.3
3.888		0.035	-----	-----	0.1	0.3
3.798		0.035	-----	-----	0.1	0.3
3.71		0.035	-----	-----	0.1	0.3
3.631		0.035	-----	-----	0.1	0.3
3.558		0.035	-----	-----	0.1	0.3
3.471		0.035	-----	-----	0.1	0.3
3.394		0.035	-----	-----	0.1	0.3
3.3		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
3.216		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
3.149		0.045	-----	-----	0.1	0.3
		0.06	-----	-----		
3.077		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
3.001		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
2.916		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
		0.035	-----	-----		
		0.06	-----	-----		
2.836		0.035	0.035	0.035	0.1	0.3
		-----	0.06	-----		
2.783		0.035	0.035	0.035	0.1	0.3
		-----	0.06	-----		
2.725		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
2.653		0.035	0.06	0.06	0.1	0.3
		0.06	0.035	0.035		
		-----	0.06	-----		
2.568		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		

To account for sudden decrease in conveyance area at x section 5.197; also dip in roadway (Salome HWY) crossing upstream of x section 5.328.

2.515	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
2.443	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
2.381	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.035		
2.319	0.035	0.035	-----	0.1	0.3
	-----	0.042	-----		
	-----	0.035	-----		
2.251	0.035	0.035	-----	0.1	0.3
	-----	0.042	-----		
	-----	0.035	-----		
2.195	0.035	0.042	-----	0.1	0.3
	0.042	0.035	-----		
2.142	0.045	0.035	-----	0.1	0.3
	0.035	0.042	-----		
	-----	0.035	-----		
2.083	0.045	0.035	0.042	0.1	0.3
	0.035	0.042	0.035		
	0.042	-----	-----		
	0.035	-----	-----		
2.016	0.035	0.035	-----	0.1	0.3
	0.042	0.042	-----		
	0.035	0.035	-----		
1.936	0.035	0.042	-----	0.1	0.3
	0.042	0.035	-----		
	0.035	-----	-----		
	0.042	-----	-----		
1.86	0.035	0.042	-----	0.1	0.3
	0.042	0.035	-----		
	0.035	-----	-----		
1.812	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.035	-----	-----		
	0.042	-----	-----		
1.77	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.035	-----	-----		
	0.042	-----	-----		
1.696	0.035	0.042	-----	0.1	0.3
	0.042	0.035	-----		
	0.035	-----	-----		
	0.042	-----	-----		
1.638	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
1.562	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
1.492	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
1.447	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
1.363	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
1.31	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
1.27	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
1.198	0.045	-----	-----	0.1	0.3
	0.035	-----	-----		
	0.06	-----	-----		
1.111	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.043	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		

.977	0.045	0.06	-----	0.1	0.3
	0.035	0.035	-----		
	0.06	-----	-----		
.893	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
.821	0.035	0.035	0.035	0.1	0.3
	-----	0.06	-----		
.748	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
.692	0.035	0.06	0.035	0.1	0.3
	0.06	0.035	0.06		
	-----	-----	0.035		
.62	0.035	0.06	0.035	0.1	0.3
	0.06	0.035	0.06		
	0.035	-----	0.035		
	0.06	-----	-----		
.558	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.468	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.421	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.352	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.301	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.065		
	-----	-----	0.042		
.234	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.18	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.065		
	-----	-----	0.042		
.142	0.042	0.065	0.042	0.1	0.3
	-----	0.042	0.065		
	-----	-----	0.042		
.106	0.042	0.065	0.065	0.1	0.3
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
.053	0.042	-----	-----	0.1	0.3
	0.065	-----	0.042		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.035	0.065
Right Overbank n Value:	0.035	0.065
Channel n Value:	0.035	0.065
Contraction Coefficient:	0.1	0.2
Expansion Coefficient:	0.3	0.4

ROUGHNESS COEFFICIENT CHECK

RS: 2.836
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

RS: 2.783
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

RS: 0.821

The channel has heavy vegetation therefore the overbank n-values are less then or equal.

```
NT RC 05 The left overbank n value of 0.035 and the right overbank n value
         of 0.035 are less than or equal to the channel n value of 0.035
         The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

RS:      5.334
NT TL 02 Contraction and expansion loss coefficients are 0.2 and 0.4
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:      5.273
NT TL 02 Contraction and expansion loss coefficients are 0.2 and 0.4
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES
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---END---
```

To account for sudden decrease in conveyance area at x section 5.197; also dip in roadway (Salome HWY) crossing upstream of x section 5.328.

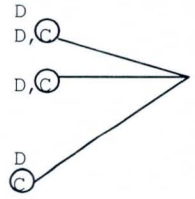
T1S-R6W-S08

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/25/2011
Time: 3:52:15 PM

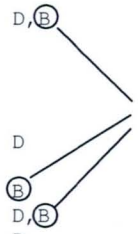
General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T1S_R6W_S08,T1S_R6W_S08						
5.334	305.594	326.768	370.957	1055.56	1030	D
5.273	334.33	367.286	402.459	713.64	1030	D
5.203	437.935	434.254	430.903	201.55	1030	D,C
5.121	386.123	388.804	455.254	505.56	1030	
5.047	452.725	454.346	403.762	283.75	1030	D,C
4.961	336.647	337.787	320.271	311.17	1030	
4.897	373.503	358.879	359.928	255.66	1030	
4.829	358.136	351.991	351.744	302.35	1030	D
4.763	356.447	352.321	367.489	300.45	1030	C
4.696	394.72	394.859	410.793	405.26	1030	
4.621	398.902	396.379	361.723	234.45	1030	
4.546	355.382	327.482	271.098	309.57	1030	
4.484	429.224	422.426	356.785	388.41	1030	
4.404	433.634	435.71	395.792	271.21	1030	
4.321	420.513	435.675	487.196	246.82	1030	
4.239	385.161	406.317	418.86	469.29	770	
4.162	480.325	483.199	487.495	359.15	770	
4.07	479.713	476.978	460.489	471.45	770	
3.98	474.94	483.647	486.036	597.15	770	
3.888	479.803	477.317	478.894	455.06	770	
3.798	445.904	466.582	469.35	530.48	770	
3.71	389.116	415.385	434.528	436.13	770	C
3.631	395.14	387.244	387.503	535.05	770	
3.558	460.88	456.36	427.86	646.44	1080	D
3.471	373.41	406.697	454.449	709.9	1080	
3.394	468.49	495.723	490.912	811.91	1080	
3.3	446.08	447.04	452.89	833.66	1080	
3.216	365.186	349.8	341.308	994.29	1080	D,B
3.149	391.655	380.307	366.934	1043.84	1080	
3.077	416.473	404.89	405.957	1095.11	1080	
3.001	440.245	445.478	452.876	792.75	1080	
2.916	412.53	424.42	404.98	1890.24	1080	
2.836	278.06	278.9	276.84	2059.04	5000	D
2.783	307.228	304.896	312.636	1679.18	5000	
2.725	327.34	384.2	358.42	1729.03	5000	B
2.653	430.37	444.62	437.77	1576.45	5000	D,B
2.568	293.695	282.142	282.734	1469.02	5000	D
2.515	374.77	378.38	382.43	1504.29	5000	D
2.443	304.77	329.07	284.59	1439.31	5000	D
2.381	339.82	329.1	323.09	1321.07	5000	
2.319	412.06	358.79	328.13	1358.34	5000	
2.251	314.634	294.704	298.173	1273.22	5000	D,B
2.195	289.681	281.175	270.411	1564.47	5000	D,B
2.142	313.23	307	298.76	1572.4	5000	D,B
2.083	339.66	357.67	335.93	1689.97	5000	D
2.016	395.343	421.809	378.792	1761.97	5000	D
1.936	334.626	398.555	535.195	1423.59	5000	D,B
1.86	256.33	254.06	246.83	1697.41	5000	D,B
1.812	230.99	221.79	222.64	1761.4	5000	D
1.77	388.853	390.577	382.273	1689.26	5000	
1.696	322.602	306.775	288.309	1542.95	5000	
1.638	421.973	404.381	393.165	1272.4	5000	
1.562	375.192	365.866	360.596	1281.12	5000	

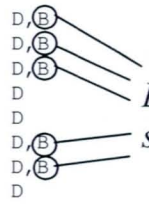


"C" flows due to decrease in conveyance area.
XS 5.203: Fr=0.64
XS 5.047: Fr=0.63
XS 4.763: Fr=0.65

Truly supercritical flow. Fr= 1.03



Blocked area due to structures in floodzone.



Blocked area due to structures in floodzone.

1.492	218.08	237.79	208.29	1077.35	5000	D,B
1.447	449.03	444.13	195.38	1160.61	5000	D,B
1.363	289.372	282.995	221.346	821.7	5000	D,B
1.31	190.403	208.62	184.153	927.08	5000	D,B
1.27	352.18	382.26	408.12	823.09	5000	
1.198	435.18	456.71	499.66	724.28	5000	D,B
1.111	326.116	360.151	405.733	849.92	6760	
1.043	312.775	349.499	382.461	1162.41	6760	
.977	429.737	439.818	422.322	1223.15	6760	
.893	380.36	382.09	378.06	1376.64	7630	
.821	378.2	383.66	382.97	1202.36	7630	
.748	303.3	296.22	293.48	1149.52	7630	
.692	387.243	383.255	392.752	1472.96	7630	
.62	339.42	327.89	342.38	1304.92	7630	
.558	463.06	475.83	491.81	1251.21	7630	D
.468	214.01	247.85	227.98	1153.68	7630	
.421	317.563	364.566	335.011	1042.45	7630	
.352	267.19	267.05	277.94	1406.65	7630	D
.301	352.07	355.56	351.72	1259.71	7630	
.234	277.772	285.188	287.133	1235.54	7630	
.18	199.37	196.69	192.18	914.09	7630	
.142	193.67	191.77	190.07	759.1	7630	
.106	234.43	280.81	328.43	588.34	7630	
.053	0	0	0	446.1	7630	D

Blocked area due to structures in floodzone.

Blocked area due to embankment for stock ponds.

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 4.239
XS DC 01 Discharge decreases in the downstream direction.

Hydrology split west.

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T1S_R6W_S08,1
Normal S = 0.002 is specified as the downstream boundary
for profile Floodplain

XS BC 03 Maximum number of iterations is 0
It should not be less than 20.

No iterations are required for slope area boundary condition.

LATERAL WEIRS CHECK

---END---

T1S-R6W-S27
CheckRAS Reports

T1S-R6W-S27 and T2N-R6W-S22S

CHECK-RAS Program: Structure Check

Selected profiles:
Date: 7/27/2011
Time: 4:37:06 PM

RS	MaxLoChord	MnTpRd	EGEL	WSEL	MinChEl	Structure	
T1S-R6W-S27,T1S-R6W-S27							
13.62			1128.58	1128.55	1127.08		
13.539			1126.35	1126.21	1125.41		
13.474			1125.54	1125.53	1123.9		
13.468			1125.45	1125.29	1124.69		
13.461			1124.71	1124.51	1123.98		
13.453			1124.43	1124.36	1123.48		
13.369			1122.62	1122.56	1121.56		
13.279			1119.88	1119.74	1118.66		
13.189			1117.57	1117.51	1116.07		
13.105			1115.4	1115.29	1114.54		
13.018			1113.32	1113.27	1112.42		
12.952			1112.2	1112.16	1111.01		
12.944			1111.97	1111.92	1110.88		
12.857			1109.69	1109.65	1108.59		
12.769			1107.44	1107.38	1106.16		
12.687			1105.67	1105.63	1103.8		
12.597			1103.42	1103.33	1101.69		
12.508			1101.44	1101.4	1099.26		
12.426			1100	1099.83	1096.51		
12.422	1101.16	1100.26	0	1099.57	1096.16	CULVERT#1-Up	
12.422	1100.96	1103.17	0	1099.55	1095.96	CULVERT#1-Dn	*I-10*
12.408			1099.88	1099.54	1096.18		
12.405			1099.8	1099.51	1096.38		
12.403			1099.72	1099.32	1096.29		
12.398	1101.4	1104.5	0	1098.48	1096.4	CULVERT#1-Up	
12.398	1101.13	1103.3	0	1098.32	1096.13	CULVERT#1-Dn	*I-10*
12.386			1099.13	1098.32	1095.66		
12.35			1097.23	1097.12	1095.23		
12.267			1095.24	1095.16	1092.73		
12.202			1093.49	1093.39	1091.13		
12.119			1091.37	1091.3	1089.36		
12.043			1089.51	1089.43	1087.52		
11.957			1087.41	1087.35	1085.36		
11.879			1085.24	1085.17	1083.21		
11.787			1082.8	1082.76	1080.84		
11.699			1080.81	1080.76	1079.2		
11.609			1078.8	1078.75	1077.34		
11.525			1077.22	1077.17	1075.57		
11.429			1074.93	1074.87	1073.66		
11.349			1073.09	1073.04	1071.26		
11.262			1071.27	1071.16	1068.61		
11.17			1069.12	1069	1065.52		
11.099			1067.17	1067.03	1063.99		
11.018			1065.27	1065.21	1062.2		
10.966			1064.21	1064.12	1061.48		
10.917			1062.7	1062.59	1060.46		
10.824			1060.15	1060.1	1058.15		
10.742			1058.4	1058.35	1056.35		
10.665			1056.87	1056.82	1054.9		
10.611			1055.68	1055.62	1053.22		
10.539			1053.7	1053.62	1050.99		

10.497	1052.97	1052.89	1049.69
10.422	1050.67	1050.44	1048.19
10.338	1049.34	1049.3	1046.73
10.28	1049.02	1048.99	1044.21
10.27	1048.92	1048.64	1047.05
10.258	1048.54	1047.74	1044.67
10.214	1046.01	1045.93	1044.84
10.163	1044.86	1044.79	1043.81
10.093	1043.51	1043.47	1042.7
9.998	1041.34	1041.29	1040.29
9.941	1039.88	1039.81	1039.17
9.886	1038.57	1038.53	1037.51
9.826	1037.35	1037.31	1036.42
9.783	1036.53	1036.51	1035.83
9.742	1036.05	1036.04	1035.11
9.736	1035.91	1035.76	1035.19
9.722	1034.98	1034.94	1034.44
9.664	1033.64	1033.59	1032.8
9.581	1031.4	1031.34	1030.96
9.488	1029.33	1029.3	1029.12
9.397	1027.37	1027.33	1026.89
9.318	1025.58	1025.54	1024.74
9.234	1024.09	1024.06	1022.97
9.229	1023.96	1023.8	1023.17
9.218	1023.33	1023.27	1022.5
9.15	1021.5	1021.46	1020.56
9.071	1019.38	1019.32	1018.18
9.011	1017.84	1017.79	1016.45
8.932	1016.11	1016.06	1014.75
8.879	1014.89	1014.84	1013.82
8.829	1013.79	1013.75	1012.63
8.774	1012.75	1012.7	1011.27
8.725	1011.82	1011.76	1010.34
8.667	1010.59	1010.51	1009.29
8.606	1009.31	1009.26	1007.6
8.526	1007.59	1007.55	1006.04
8.467	1006.14	1006.06	1004.33
8.421	1004.98	1004.93	1003.88
8.326	1002.61	1002.54	1001.42
8.261	1001.35	1001.31	1000.09
8.171	999.66	999.5	998.53
8.135	998.69	998.63	997.21
8.074	997.52	997.5	995.62
8.016	996.93	996.9	994
7.92	994.2	993.98	992.33
7.886	993.57	993.55	992.14
7.874	993.54	993.48	991.65
7.844	992.85	992.8	991.19
7.774	991.7	991.67	990.04
7.703	990.43	990.34	988.6
7.63	988.9	988.85	987.44
7.542	987.02	986.99	985.92
7.458	984.92	984.88	983.79
7.374	982.95	982.9	982.32
7.293	981.54	981.52	979.9
7.229	980.1	980.04	979.07
7.155	978.25	978.21	976.45
7.11	977.03	976.98	975.65
7.081	976.66	976.65	975.21
7.039	976.61	976.61	974.18
6.954	976.55	976.53	973.19
6.886	976.48	976.47	972.78
6.812	976.35	976.32	970.7
6.725	975.79	975.66	970.17
6.667	975.14	974.65	969.1
6.613	973.92	973.12	968.44

T2N-R6W-S22S,T2N-R6W-S22S

0.353	1137.19	1137.12	1136.25
0.281	1135.13	1135.07	1134.38
0.201	1133.1	1133.07	1132.38
0.106	1130.63	1130.57	1130.14

RIVER/REACH: T1S-R6W-S27, T1S-R6W-S27
RIVER STATION: 12.422
TYPE OF STRUCTURE: Culvert

I-10 North

Description:

Distance from Upstream XS:	0.1
Deck/Roadway Width:	43.01
Weir Coefficient:	2.6
Maximum allowable submergence for weir flow:	0.95
Elevation at which weir flow begins:	1104.99
Weir crest shape:	Broad Crested

Sec	River Station	Length Channel	WSEL	Surch.	EGEL	TopWidth Actual	
4	12.508	433.28	1101.4		1101.44	680.67	
3	12.426	93.72	1099.83		1100	100.12	
	12.422	65.00	1099.57		0	0	CULVERT#1-Up
	12.422	10.72	1099.55		0	0	CULVERT#1-Dn
2	12.408	16.70	1099.54		1099.88	55.46	
1	12.405	12.97	1099.51		1099.8	81.41	

	Ineffective Flow, Section 3			Ineffective Flow, Section 2		
	Sta L	Sta R	Elev	Sta L	Sta R	Elev
1	9798.38	9948.54	1108	9777.72	9940.82	1108.13
2	10048.66	10255.28	1108	10027.73	10132.5	1108.14

Opening Type	StagStaL	StagStaR	EncStaL	EncStaR	LIfStaS	RIfStaS
Culvert Group					9948.54	10048.66 U
					9940.82	10027.73 D

CULVERT:
Culvert Name: CULVERT#1

Shape:	Box	Rise:	5	Span:	10	Barrels:	5

FHWA Chart #: # 8 - flared wingwalls
FHWA Scale #: # 1 - Wingwall flared 30 to 75 deg.
Solution Crit:Highest U.S. EG

UpstrmDist:	18	Length:	65	n-Value:	0.015		
EntLossCoef:	0.2	ExtLossCoef:	1	CulvInvElU	1096.16	CulvInvElD	1095.96
LCntStaU:	9978	RCntStaU:	10022	LCntStaD	9978	RCntStaD	10022

Culvert Depth Blocked: 0

Culv Area:	250	CulvQ:	830	MinTopRd:	1105.01

	LAbutSt	RAbutSt	LMnTpRd	RMnTpRd	MnTpRd	MxLoCd	
CULVERT#1	9973	10027	1105	1100.26	1100.26	1101.16	U
	9973	10027	1105	1103.17	1103.17	1100.96	D

Name	Q Total.	Q Struc	Q Weir	Selected Method	Flow Type
CULVERT#1		830	0	Highest U.S. EG	Low Flow

Low Flow

GEOMETRIC CHECK

RS: 12.422
ST GD 03 The end station of 10130 from upstream road/weir data is less than the end station of 10255.28 from upstream internal section/section 3.
The high chord elevation of 1105 for the end road/weir station is greater than the ground elevation of 1100.264 for the same ground station.
The road/weir profile may need to be extended.

RS: 12.422
ST GD 03 The end station of 10130 from downstream road/weir data is less than the end station of 10132.5 from downstream internal section.
The high chord elevation of 1105 for the end road/weir station is greater than the ground elevation of 1103.171 for the same ground station.
The road/weir profile may need to be extended.

TYPE OF FLOW CHECK

RS: 12.422 This is CULVERT#1
CV LF 01 Type of flow is low flow because,
1. EGEL 3 of 1100 is less than or equal to MinTopRd of 1105.01.
2. EGEL 3 of 1100 is less than MxLoCdU of 1101.16.

DISTANCE CHECK

CULVERT COEFFICIENT CHECK

RS: 12.422 This is CULVERT#1
CV CF 01 Culvert Chart # is 8 and Scale # is 1
Culvert entrance shape is Wingwall flared 30 to 75 deg.
Culvert entrance loss coefficient is 0.2 It should be equal to 0.4
Please refer to Table 6.3 on page 6-22 and Tabble 6.4 on page 6-23 of HEC-RAS Hydraulic Reference Manual, September 1998.

Ineffective was a HEC-RAS option based on App. E supporting documentation.

CULVERT CRITERIA CHECK

INEFFECTIVE FLOW CHECK

RS: 12.508 This is Section 4
ST IF 07 Ineffective flow option was considered at this section.
However, it should be a fully expanded cross section.
Ineffective flow stations and elevations should be cleared from this section, unless the areas beyond the ineffective flow stations are not within the flow path of the stream.
This message should be ignored if this section is Section 2 of

the upstream structure.

I-10 South

```
RIVER/REACH:        T1S-R6W-S27, T1S-R6W-S27
RIVER STATION:      12.398
TYPE OF STRUCTURE: Culvert
```

```
Description:
Distance from Upstream XS:                          0.1
Deck/Roadway Width:                                 45
Weir Coefficient:                                   2.6
Maximum allowable submergence for weir flow:        0.95
Elevation at which weir flow begins:                1103.29
Weir crest shape:                                   Broad Crested
```

Sec	River Station	Length Channel	WSEL	Surch.	EGEL	TopWidth Actual	
4	12.405	12.97	1099.51		1099.8	81.41	
3	12.403	86.40	1099.32		1099.72	60.38	
	12.398	65.00	1098.48		0	0	CULVERT#1-Up
	12.398	12.31	1098.32		0	0	CULVERT#1-Dn
2	12.386	193.03	1098.32		1099.13	53.46	
1	12.35	437.18	1097.12		1097.23	360.49	

	Ineffective Flow, Section 3			Ineffective Flow, Section 2		
	Sta L	Sta R	Elev	Sta L	Sta R	Elev
1	9831.65	9937.72	1104.09	9695.04	9944.88	1104.1
2	10047.92	10251.58	1104.11	10058.58	10307.19	1104.07

Opening Type	StagStaL	StagStaR	EncStaL	EncStaR	LIfStaS	RIfStaS
Culvert Group					9937.72	10047.92
						U
					9944.88	10058.58
						D

```
CULVERT:
Culvert Name: CULVERT#1
Shape:        Box           Rise:      5        Span:          10       Barrels:       5
FHWA Chart #: # 8 - flared wingwalls
FHWA Scale #: # 1 - Wingwall flared 30 to 75 deg.
Solution Crit:Highest U.S. EG

UpstrmDist:    9.09     Length:        65       n-Value:       0.015
EntLossCoef:   0.2      ExtLossCoef:   1        CulvInvElU     1096.4   CulvInvElD
1096.13
LCntStaU:      9978     RCntStaU:      10022    LCntStaD       9978     RCntStaD
10022
Culvert Depth Blocked:   0
```

```
Culv Area:     250      CulvQ:         850      MinTopRd:      1104.51
```

	LAbutSt	RAbutSt	LMnTpRd	RMnTpRd	MnTpRd	MxLoCd	
CULVERT#1	9973	10027	1104.5	1104.5	1104.5	1101.4	U

```
                    9973      10027     1103.3    1103.3    1103.3    1101.13  D
-------------------------------------------------------------------------------


Name          Q Total.  Q Struc   Q Weir    Selected Method     Flow Type
-------------------------------------------------------------------------------
CULVERT#1               850       0         Highest U.S. EG     Low Flow
-------------------------------------------------------------------------------

GEOMETRIC CHECK
-----------------

RS:       12.398
ST GD 03  The starting station of 9695 from downstream road/weir data
          is less than the starting station of 9695.04 from downstream internal
          section.
          The high chord elevation of 1103.3 for the starting road/weir station is
          greater than the ground elevation of 1099.35 for the starting ground station.
          The EGEL at section 3 of 1099.72 is greater than the ground elevation.
          The road/weir data should be included in the ground data

TYPE OF FLOW CHECK
------------------

RS:       12.398 This is CULVERT#1
CV LF 01  Type of flow is low flow because,
          1. EGEL 3 of 1099.72 is less than or equal to MinTopRd of 1104.51.
          2. EGEL 3 of 1099.72 is less than MxLoCdU of 1101.40.

DISTANCE CHECK
---------------

CULVERT COEFFICIENT CHECK
--------------------------

RS:       12.398 This is CULVERT#1
CV CF 01  Culvert Chart # is 8 and Scale # is 1
          Culvert entrance shape is Wingwall flared 30 to 75 deg.
          Culvert entrance loss coefficient is 0.2 It should be equal
          to 0.4
          Please refer to Table 6.3 on page 6-22 and Tabble 6.4 on page 6-23
          of HEC-RAS Hydraulic Reference Manual, September 1998.

CULVERT CRITERIA CHECK
----------------------

INEFFECTIVE FLOW CHECK
----------------------

RS:       12.35 This is Section 1
ST IF 07  Ineffective flow option was considered at this section.
          However, it should be a fully expanded cross section.
          Ineffective flow stations and elevations should be cleared from
          this section, unless the ares beyond the ineffective flow stations
          are not within the flow path of the stream.
          This message should be ignored if this section is Section 3 of the downstream
          structure.

---END
```

Low Flow

Ineffective was a HEC-RAS option based on App. E supporting documentation.

T1S-R6W-S27 and T2N-R6W-S22S

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles:
Date: 7/27/2011
Time: 4:26:34 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T1S-R6W-S27,T1S-R6W-S27						
10		0.045	-----	-----	0.1	0.3
13.62		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.02	-----		
		-----	0.035	-----		
13.539		0.035	0.035	0.035	0.1	0.3
		0.06	0.06	0.06		
		0.02	0.035	0.035		
		0.06	-----	-----		
		0.035	-----	-----		
13.474		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
		0.02	-----	-----		
		0.06	-----	-----		
13.468		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
		0.02	-----	-----		
		0.06	-----	-----		
13.461		0.02	-----	-----	0.1	0.3
13.453		0.035	-----	-----	0.1	0.3
13.369		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
13.279		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
13.189		0.035	0.042	0.042	0.1	0.3
		-----	-----	0.035		
13.105		0.035	0.035	0.042	0.1	0.3
		-----	0.042	0.035		
13.018		0.035	0.035	0.042	0.1	0.3
		-----	0.042	0.035		
12.952		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
		0.06	-----	-----		
12.944		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
		0.06	-----	-----		
12.857		0.035	0.06	0.042	0.1	0.3
		0.042	0.042	0.035		
		0.06	-----	-----		
12.769		0.035	0.042	0.042	0.1	0.3
		0.06	0.06	0.035		
		0.042	0.042	-----		
12.687		0.035	0.06	0.042	0.1	0.3
		0.042	0.042	0.035		
		0.06	0.06	-----		
12.597		0.035	0.06	0.035	0.1	0.3
		0.06	0.042	-----		
		0.042	0.06	-----		
		0.06	-----	-----		

General Note
N values of 0.02 represent very clean, smooth, well-maintained dirt or paved roads.

12.508		0.035	0.042	-----	0.1	0.3
		0.06	0.06	-----		
		0.035	0.035	-----		
		0.06	0.06	-----		
		0.042	0.035	-----		
12.426		0.06	-----	-----	0.3	0.5
12.422	Culvert-Up	0.06	-----	-----	0.3	0.5
12.422	Culvert-Dn	0.035	-----	-----	0.3	0.5
12.408		0.035	-----	-----	0.3	0.5
12.405		0.035	-----	-----	0.3	0.5
12.403		0.035	-----	-----	0.3	0.5
12.398	Culvert-Up	0.035	-----	-----	0.3	0.5
12.398	Culvert-Dn	0.035	-----	-----	0.3	0.5
		0.042	-----	-----		
12.386		0.035	-----	-----	0.3	0.5
		0.042	-----	-----		
12.35		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
12.267		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
12.202		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
12.119		0.035	-----	-----	0.1	0.3
		0.042	-----	-----		
12.043		0.035	0.042	0.042	0.1	0.3
		0.042	0.06	0.035		
		-----	0.042	-----		
11.957		0.035	0.042	0.042	0.1	0.3
		0.042	0.06	0.035		
		0.035	0.042	0.042		
		0.042	0.06	-----		
		0.035	0.042	-----		
		0.042	-----	-----		
11.879		0.035	0.042	0.042	0.1	0.3
		0.042	0.06	0.035		
		-----	0.042	-----		
11.787		0.035	0.06	0.042	0.1	0.3
		0.042	0.042	0.035		
		0.06	0.06	-----		
		-----	0.042	-----		
11.699		0.035	0.06	-----	0.1	0.3
		0.06	0.042	-----		
		0.042	0.06	-----		
		0.06	0.035	-----		
11.609		0.035	0.06	-----	0.1	0.3
		0.06	0.042	-----		
		-----	0.06	-----		
		-----	0.035	-----		
11.525		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
		0.035	-----	-----		
		0.06	-----	-----		
11.429		0.035	0.042	0.042	0.1	0.3
		0.06	0.06	0.035		
		0.042	0.042	-----		
11.349		0.035	0.06	0.035	0.1	0.3
		0.06	0.035	0.042		
		-----	-----	0.035		
11.262		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
		-----	0.06	-----		
		-----	0.035	-----		
11.17		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
11.099		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		

To account for structure at I-10.

	-----	0.035	-----		
11.018	0.035	0.06	-----	0.1	0.3
	-----	0.035	-----		
10.966	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
10.917	0.035	0.06	-----	0.1	0.3
	-----	0.035	-----		
10.824	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
10.742	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
10.665	0.035	0.06	-----	0.1	0.3
	-----	0.035	-----		
10.611	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
10.539	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
10.497	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
10.422	0.035	0.06	-----	0.1	0.3
	-----	0.035	-----		
10.338	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
10.28	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
10.27	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
10.258	0.042	-----	-----	0.3	0.5
	0.06	-----	-----		
10.214	0.035	-----	-----	0.2	0.4
	0.02	-----	-----		
	0.042	-----	-----		
10.163	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
10.093	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.998	0.042	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.941	0.042	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.886	0.042	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.826	0.042	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.783	0.042	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.742	0.042	0.06	-----	0.1	0.3
	0.02	0.042	-----		
	0.042	-----	-----		
	0.06	-----	-----		
	0.042	-----	-----		
	0.06	-----	-----		
9.736	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.722	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.664	0.035	-----	-----	0.1	0.3

To account for decrease in conveyance area.

	0.02	-----	-----		
	0.042	-----	-----		
9.581	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.488	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.042	-----	-----		
9.397	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
9.318	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
9.234	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
9.229	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.02	-----	-----		
9.218	0.035	0.035	0.035	0.1	0.3
	-----	0.042	-----		
9.15	0.035	0.035	0.035	0.1	0.3
	-----	0.042	-----		
9.071	0.035	0.035	0.042	0.1	0.3
	-----	0.042	0.06		
9.011	0.035	0.035	0.042	0.1	0.3
	-----	0.042	0.06		
	-----	-----	0.035		
8.932	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.035	-----	-----		
	0.042	-----	-----		
8.879	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
8.829	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.06		
	-----	-----	0.035		
8.774	0.035	0.035	0.042	0.1	0.3
	-----	0.06	0.06		
	-----	0.042	0.035		
	-----	0.06	-----		
	-----	0.042	-----		
8.725	0.035	0.06	-----	0.1	0.3
	0.06	0.042	-----		
	-----	0.06	-----		
	-----	0.035	-----		
8.667	0.035	-----	-----	0.1	0.3
8.606	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
8.526	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
8.467	0.035	0.06	0.042	0.1	0.3
	0.06	0.042	0.035		
8.421	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
8.326	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.06		
	-----	-----	0.042		
	-----	-----	0.035		
8.261	0.035	0.035	0.042	0.1	0.3
	-----	0.06	0.06		
	-----	0.042	0.042		
	-----	-----	0.035		
8.171	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
8.135	0.035	0.035	0.042	0.1	0.3
	-----	0.06	0.06		

	-----	0.042	0.035		
8.074	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
8.016	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
7.92	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
7.886	0.02	-----	-----	0.1	0.3
7.874	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
7.844	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
7.774	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
7.703	0.035	-----	-----	0.1	0.3
7.63	0.035	0.035	0.035	0.1	0.3
	-----	0.06	0.06		
	-----	0.035	0.035		
	-----	-----	0.02		
	-----	-----	0.035		
7.542	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
7.458	0.035	0.06	0.035	0.1	0.3
	0.06	0.035	0.02		
	-----	-----	0.035		
7.374	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.02	-----	-----		
7.293	0.035	0.042	0.035	0.1	0.3
	0.042	0.06	-----		
7.229	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.06	-----	-----		
7.155	0.035	0.06	0.035	0.1	0.3
	0.06	0.035	0.06		
	-----	-----	0.02		
	-----	-----	0.035		
7.11	0.035	0.06	0.035	0.1	0.3
	0.06	0.035	0.06		
	0.035	-----	0.035		
	0.06	-----	0.02		
	0.035	-----	0.035		
7.081	0.035	0.06	0.035	0.1	0.3
	0.06	0.035	-----		
	0.035	0.06	-----		
	0.06	-----	-----		
	0.035	-----	-----		
7.039	0.035	0.06	0.042	0.1	0.3
	0.06	0.02	0.02		
	0.035	0.06	0.035		
	0.06	0.042	-----		
	-----	0.06	-----		
	-----	0.042	-----		
6.954	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.035	-----	-----		
	0.042	-----	-----		
	0.06	-----	-----		
6.886	0.02	-----	-----	0.1	0.3
	0.035	-----	-----		
	0.06	-----	-----		
	0.035	-----	-----		
	0.06	-----	-----		
6.812	0.035	0.06	0.06	0.1	0.3
	-----	-----	0.035		
6.725	0.035	-----	-----	0.1	0.3

```
 6.667                          0.035      -----      -----      0.1        0.3
T2N-R6W-S22S,T2N-R6W-S22S
 6.613                          0.035      -----      -----      0.1        0.3
 .353                           0.035      -----      -----      0.1        0.3
 .281                           0.035      -----      -----      0.1        0.3
 .201                           0.035      -----      -----      0.1        0.3
 .106                           0.035      -----      -----      0.1        0.3
-------------------------------------------------------------------------------

---Summary of Statistics---
                              Minimum         Maximum
Left Overbank n Value:         0.02            0.06
Right Overbank n Value:        0.02            0.06
Channel n Value:               0.02            0.06
Contraction Coefficient:       0.1             0.3
Expansion   Coefficient:       0.3             0.5


ROUGHNESS COEFFICIENT CHECK
-----------------------------------

RS:       13.461
NT RC 01 Left overbank n value is less than 0.035
         The n value for overbank is usually larger then 0.035.
         The n value should be reevaluated.

RS:       9.218
NT RC 05 The left overbank n value of 0.035 and the right overbank n value
         of 0.035 are less than or equal to the channel n value of 0.035
         The overbank n values should be reevaluated.

RS:       9.15
NT RC 05 The left overbank n value of 0.035 and the right overbank n value
         of 0.035 are less than or equal to the channel n value of 0.035
         The overbank n values should be reevaluated.

RS:       7.886
NT RC 01 Left overbank n value is less than 0.035
         The n value for overbank is usually larger then 0.035.
         The n value should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

RS:       12.508
NT TL 01 This is section 4
         Contraction and expansion loss coefficients are 0.1 and 0.3
         They should be equal to 0.3 and 0.5 respectively.

RS:       10.258
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:       10.214
NT TL 02 Contraction and expansion loss coefficients are 0.2 and 0.4
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES
-----------------------------------

---END---
```

Very clean, smooth, well-maintained paved road.

The channel has heavy vegetation therefore the overbank n-values are less.

Very clean, smooth, well-maintained paved road.

Ok, just upstream of structure.

To account for decrease in conveyance area.

T1S-R6W-S27 and T2N-R6W-S22S

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles:
Date: 7/27/2011
Time: 4:30:07 PM

General Note
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T1S-R6W-S27,T1S-R6W-S27						
13.62	517.65	428.59	388.93	940.51	780	D
13.539	301.8	340.48	400.81	755.88	780	D
13.474	31.64	32.33	29.64	770.65	780	
13.468	34.7	36.09	34.34	716.26	780	C
13.461	41.48	44.48	37.74	548.4	780	D,C
13.453	434.09	442.65	411.48	578.98	780	D
13.369	481.67	478.21	470.71	544.3	780	D
13.279	461.66	472.89	467.67	435.1	780	
13.189	450.37	441.76	440.65	489.59	780	D
13.105	462.33	463.13	464.29	464.33	780	
13.018	332.13	346.88	371.2	753.98	780	D
12.952	42.88	40.94	42.48	644.31	830	
12.944	509.68	460.19	443.18	583.73	830	
12.857	496.26	463.55	437.18	726.98	830	
12.769	397.12	434.11	462.2	703.64	830	D
12.687	447.11	474.26	495.22	654.96	830	
12.597	445.72	470.13	461.31	526.27	830	D
12.508	474.58	433.28	456.02	680.67	830	
12.426	94.51	93.72	95.83	100.12	830	
12.422	CULVERT#1-Up					
12.422	CULVERT#1-Dn					
12.408	16.7	16.7	16.78	55.46	850	
12.405	12.99	12.97	13.01	81.41	850	
12.403	86.43	86.4	86.83	60.38	850	
12.398	CULVERT#1-Up					
12.398	CULVERT#1-Dn					
12.386	219.96	193.03	228.36	53.46	850	
12.35	402.98	437.18	454.16	360.49	850	
12.267	364.61	342.52	328.58	452.24	850	
12.202	432.96	439.41	414.99	462.24	850	D
12.119	379.41	398.62	393.76	591.06	850	D
12.043	461.81	454.58	439.85	522.95	850	
11.957	384.98	411.44	375.28	631	850	
11.879	504.38	487.72	466.78	739.29	850	
11.787	440.68	466.06	441.46	815.9	850	D
11.699	473.45	473.05	471.02	656.26	850	D
11.609	437.53	446.61	440.9	473.92	850	
11.525	505.66	503.39	498.77	414.18	850	D
11.429	437.84	423.38	394.85	518	850	
11.349	477.8	459.19	450.25	521.75	850	
11.262	516.47	488.47	444.42	308.16	850	
11.17	403.11	371.18	342.91	277.52	850	
11.099	413.29	430.52	428.46	318.77	850	
11.018	269.17	272.43	269.16	425.77	850	
10.966	267.54	260.73	228.79	233.02	850	
10.917	471.36	488.52	516.03	251.96	850	
10.824	402.65	434.21	473.2	500.08	850	
10.742	394.69	407.78	415.22	633.92	850	D
10.665	282.27	283.74	262.74	486.91	850	
10.611	333.33	381.01	515.85	477.19	850	

"C" flows due to decreased conveyance area at Indian School Road.
X-Sec 13.468 Fr=0.67
X-Sec 13.461 Fr=0.93

10.539	229.04	220.24	214.4	385.16	850	
10.497	383.34	397.38	388.03	253.07	850	
10.422	406.13	442.18	475.78	333.41	850	
10.338	338.68	306.66	303.85	424.32	850	
10.28	50.65	55.26	58.04	232.14	850	
10.27	60.2	61.61	62.88	141.86	850	
10.258	289.24	230.92	243.49	62.72	850	D
10.214	270.52	269.14	278.81	380.43	850	
10.163	396.81	368.79	340.58	556.81	850	
10.093	630.75	502.85	443.29	923.42	850	
9.998	253.74	299.59	320.58	897.31	850	D
9.941	287.47	295.11	299.27	736.52	850	
9.886	307.45	315.12	332.43	992.16	850	D
9.826	220.49	228.21	246.17	1381.82	850	D
9.783	202.13	214.97	208.62	1631.21	850	D
9.742	34.28	30.95	24.88	1497.67	850	D
9.736	64.19	72.36	81.39	957.83	850	D,C
9.722	306.96	310.49	328.41	1481.06	850	D
9.664	443.12	434.94	431.76	1023.34	850	D
9.581	514.05	493.55	484.39	1057.33	850	D
9.488	478.4	476.28	483.2	1846.5	850	D
9.397	410.48	419.37	412	1805.8	850	D
9.318	442.2	445	457.43	1434.48	850	D
9.234	28.16	25.61	22.92	1091.04	850	D
9.229	57.42	58.12	61.19	847.92	850	D,C
9.218	367.1	359.58	348.75	1041.7	850	D
9.15	414.11	416.81	434.21	1057.29	850	D
9.071	322.7	314.26	353.09	922.73	850	D
9.011	454.74	419.26	307.78	980.12	850	
8.932	284.27	277.81	295.55	1096.55	850	D
8.879	276.91	264.74	233.21	1132.51	850	
8.829	291.54	292.61	252.73	927.79	850	
8.774	249.12	260.17	230.43	717.44	850	D
8.725	258.91	305.86	334.49	502.08	850	
8.667	312.89	320.72	342.23	486.46	850	
8.606	412.84	421.76	417.15	488.44	850	
8.526	279.97	313.26	312.07	514.85	850	D
8.467	206.15	238.38	243.46	388.75	850	D
8.421	481.26	503.24	506.06	606.86	850	D
8.326	344.84	341.86	342.22	689.04	850	D
8.261	535.64	479.53	433.15	800.54	850	D
8.171	114.72	185.47	273.42	726.6	850	D
8.135	315.8	323.05	323.47	700.5	850	D
8.074	300.72	305.57	317.75	796.41	850	
8.016	573.96	510.95	437.41	859.28	850	
7.92	274.43	178.69	98.22	675.97	1090	C
7.886	61.14	60.47	55.51	843.39	1090	
7.874	155.55	158.23	203.07	484.96	570	D
7.844	355.9	371.02	354.12	607.65	570	D
7.774	357.86	373.52	380.67	677.78	570	
7.703	310.18	385.36	469.23	409.55	570	D
7.63	437.4	466.45	438.15	633	570	
7.542	433.55	445.82	430.24	905.56	570	D
7.458	440.6	442.83	497.11	919.86	570	
7.374	436.15	428.1	325.3	911.6	570	D
7.293	308.44	336.89	328.04	771.12	570	
7.229	340.55	390.62	507.06	820.51	570	D
7.155	201.37	237.82	232.88	765.63	570	D
7.11	131.1	149.84	165.78	750.05	570	D
7.081	197.18	223.38	267.17	970.43	570	
7.039	355.01	448.48	610.25	903.41	570	D
6.954	282.27	362.05	356.89	517.6	570	D
6.886	371.11	388.24	392.31	682.44	990	D
6.812	461.5	460.55	465.42	563.2	990	
6.725	287.55	306.01	311.35	374.71	990	
6.667	298.38	284.74	274.49	53.81	990	
6.613	0	0	0	40.9	990	

"C" flows due to decreased conveyance area at roadway. Fr=0.61

"C" flows due to decreased conveyance area at Buckeye Road. Fr=0.89

"C" flows due to decreased conveyance area at Salome Hwy. Fr=0.85

```
T2N-R6W-S22S,T2N-R6W-S22S
.353      393.43    381.9     357.7     531.74          550       D
.281      396.05    423.43    463.81    745.17          550       D
.201      492.46    501.19    525.54    717.92          550
.106      0         0         0         639.34          550
--------------------------------------------------------------------------------
B=blocked obstruction      XS SC 05
C=critial depth            XS SC 03
D=divided flow             XS SC 01
E=cross section extended   XS SC 02
K=known water-surface      XS SC 04


DISTANCE CHECK
----------------
XS JT 01 Junction option is used.
         For flood insurance study, this option should be used
         if the tributary and main stream can have coincident peaks,
         or it may be used for the stream without floodway.
         It may also be used if the discharges at different time periods
         are known from the rainfall-runoff model.
         How to remove the junction is explained under Help.


SPACING CHECK
--------------


INEFFECTIVE FLOW CHECK
-----------------------


DISCHARGE CHECK
----------------

RS:       12.408
XS DC 03 Discharge is different between the upstream side and downstream
         side of the structure

RS:       7.874
XS DC 01 Discharge decreases in the downstream direction.

XS DC 02 Constant dicharge used for the dummy reach,dummy reach

XS DC 02 Constant dicharge used for the T2N-R6W-S22S,T2N-R6W-S22S


LOCATION CHECK
---------------


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T1S-R6W-S27,T1S-R6W-S27
         Normal S = 0.006 is specified as the downstream boundary
         for profile dummy reach

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
------------------------

---END---
```

There is flow change due to hydrology at this location.

Incidental split to the east. See App. E for supporting documentation.

No iterations are required for slope area boundary condition.

T2N-R6W-S02
CheckRAS Reports

T2N-R6W-S02

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/21/2011
Time: 3:07:42 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N-R6W-S02,T2N-R6W-S02						
2.437		0.035	0.06	-----	0.1	0.3
		-----	0.035	-----		
2.342		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.042	-----		
2.257		0.035	0.06	0.042	0.1	0.3
2.174		0.035	0.06	-----	0.1	0.3
		0.06	0.042	-----		
2.076		0.035	0.06	-----	0.1	0.3
		0.06	0.042	-----		
2.003		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
1.907		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
1.811		0.035	0.06	0.06	0.1	0.3
		-----	-----	0.035		
1.718		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
		0.035	-----	-----		
		0.06	-----	-----		
1.634		0.035	0.035	-----	0.1	0.3
		0.06	0.06	-----		
		0.035	0.035	-----		
1.55		0.035	0.042	-----	0.1	0.3
		0.06	0.06	-----		
		0.042	0.035	-----		
1.475		0.035	0.042	-----	0.1	0.3
		0.06	0.06	-----		
		0.035	0.035	-----		
		0.06	-----	-----		
		0.042	-----	-----		
1.428		0.042	0.042	0.06	0.1	0.3
		-----	0.06	0.035		
		-----	-----	0.06		
		-----	-----	0.035		
		-----	-----	0.06		
		-----	-----	0.035		
1.36		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
1.356		0.02	-----	-----	0.1	0.3
1.351		0.035	0.06	0.035	0.1	0.3
		0.06	0.035	0.02		
		-----	-----	0.035		
		-----	-----	0.06		
		-----	-----	0.035		
1.284		0.035	0.06	-----	0.1	0.3
		-----	0.035	-----		
1.194		0.035	0.06	0.042	0.1	0.3
		-----	-----	0.06		
		-----	-----	0.035		
		-----	-----	0.06		
		-----	-----	0.035		
1.143		0.035	-----	-----	0.1	0.3

Very clean, smooth, well-maintained dirt road app. 20 ft wide.

	0.06	-----	-----		
1.091	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.042		
	-----	-----	0.06		
	-----	-----	0.035		
1.041	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.042	-----		
.977	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.042	-----		
.922	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.066	-----		
	-----	0.037	-----		
.878	0.035	0.035	0.037	0.1	0.3
	-----	0.06	-----		
	-----	0.066	-----		
.821	0.035	0.066	0.037	0.1	0.3
	0.037	0.037	-----		
	-----	0.066	-----		
.774	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
.705	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
.661	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
.612	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
.532	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		
.442	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
.379	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
.279	0.037	0.066	0.037	0.1	0.3
.2	0.037	-----	-----	0.1	0.3
	0.066	-----	-----		
.148	0.037	0.066	0.066	0.1	0.3
	-----	-----	0.037		
.101	0.037	0.037	0.066	0.1	0.3
	-----	0.066	0.037		
.031	0.037	0.066	-----	0.1	0.3
	0.066	0.037	-----		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.066
Right Overbank n Value:	0.02	0.066
Channel n Value:	0.035	0.066
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 2.257
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.06
The overbank n values should be reevaluated.

The channel has heavy vegetation therefore overbank n-values are less.

RS: 1.356
NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.

Very clean, smooth, well-maintained dirt road app. 20 ft wide.

```
         The n value should be reevaluated.

RS:      0.279
NT RC 05 The left overbank n value of 0.037 and the right overbank n value
         of 0.037 are less than or equal to the channel n value of 0.066
         The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

ROUGHNESS COEFFICIENT AT STRUCTURES
-----------------------------------

---END---
```

The channel has heavy vegetation therefore overbank n-values are less.

T2N-R6W-S02

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/21/2011
Time: 3:14:44 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N-R6W-S02,T2N-R6W-S02						
2.437	484.47	504.87	541.61	145.45	1010	
2.342	457.79	448.83	401.08	207.96	1010	
2.257	428.79	435.07	421	171.76	1010	
2.174	491.67	518.02	546.84	213.93	1010	
2.076	399.65	384.84	321.92	123.78	1010	
2.003	492.14	505.24	426.41	156.16	1010	
1.907	489.71	510.7	525.37	159.65	1050	
1.811	495.69	489.72	448.37	181.5	1050	
1.718	422.35	442.63	420.4	218.49	1050	
1.634	443.7	442.33	428.42	182.97	1050	
1.55	367.31	400.38	382.06	407.82	1050	
1.475	217.39	243.87	284.31	545.04	1050	D
1.428	222.6	359.9	361.97	447.5	1050	
1.36	25.42	25	25	417.47	1050	C
1.356	24.37	25.53	27.05	468.94	1050	
1.351	477.74	352.79	243.33	412.59	1050	
1.284	417.02	472.4	496.18	323.71	260	D
1.194	246.81	270.29	343.14	129.04	260	
1.143	271.68	275.72	281.08	271.94	260	
1.091	304.52	264.11	260.91	200.6	260	
1.041	317.83	337.51	371.36	146.16	260	C
.977	250.6	290.42	383.16	270.39	260	D
.922	239.65	233.41	212.96	522.15	1050	
.878	314.09	300.2	271.26	573.29	1050	
.821	223.7	246.04	206.79	412.99	1050	D
.774	368.1	366.15	360.35	316.8	1050	D
.705	209.24	233.49	271.34	48.2	1050	
.661	239.35	259.64	268.83	143.11	1050	D
.612	436.63	422.45	378.46	111.63	1050	
.532	453.21	470.74	424.27	113.88	1050	D
.442	318.52	336.04	359.81	79.75	1050	
.379	498.01	528.11	511.05	183.44	1050	
.279	411.58	418.41	407.1	106.52	1050	
.2	262.94	272.42	239.78	222.92	1050	D
.148	175.09	245.9	277.15	168.63	1050	
.101	386.58	371.6	360.88	264.64	1050	D
.031	0	0	0	168.23	1050	D

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

"C" flow due to decrease in conveyance area at roadway. Fr=0.77

Supercritical flow due to decrease in conveyance area at roadway. Fr=1.01

```
INEFFECTIVE FLOW CHECK
----------------------


DISCHARGE CHECK
---------------

RS:      1.284
XS DC 01 Discharge decreases in the downstream direction.


LOCATION CHECK
--------------

RS:      1.091
XS LC 01 Lenchl Up/TopwdthAct Dn = 1.81
         MaxChlDpth Up/MaxChlDpth Dn = 2.36
         TopwdthAct Up/TopwdthAct Dn = 1.37
         This cross section is located too far upstream from the
         critical depth cross section.


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T2N-R6W-S02,T2N-R6W-S02
         Normal S = 0.0075 is specified as the downstream boundary
         for profile Floodplain

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
-----------------------

---END---
```

Incidental split "T2N-R6W-S02 – Split W1". See App. E for supporting documentation.

No iterations are required for slope area boundary condition.

T2N-R6W-S05E
CheckRAS Reports

T2N-R6W-S05E

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/28/2011
Time: 11:23:01 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N_R6W_S05E,T2N_R6W_S05E						
4.806		0.04	-----	-----	0.1	0.3
		0.075	-----	-----		
		0.035	-----	-----		
		0.04	-----	-----		
		0.075	-----	-----		
		0.04	-----	-----		
		0.075	-----	-----		
4.769		0.04	-----	-----	0.1	0.3
		0.048	-----	-----		
		0.075	-----	-----		
		0.04	-----	-----		
		0.048	-----	-----		
		0.075	-----	-----		
4.715		0.04	0.048	0.04	0.1	0.3
		0.048	0.075	0.075		
		0.075	0.04	0.04		
		0.04	-----	-----		
		0.048	-----	-----		
4.67		0.04	0.046	0.04	0.1	0.3
		0.055	0.048	0.075		
		0.046	0.075	0.04		
		-----	0.04	-----		
4.625		0.04	-----	-----	0.1	0.3
		0.055	-----	-----		
		0.046	-----	-----		
		0.055	-----	-----		
4.548		0.04	-----	-----	0.1	0.3
		0.055	-----	-----		
		0.046	-----	-----		
		0.055	-----	-----		
		0.046	-----	-----		
		0.055	-----	-----		
4.502		0.04	0.055	0.055	0.1	0.3
		0.046	-----	0.04		
		0.055	-----	-----		
		0.046	-----	-----		
4.434		0.04	0.046	0.055	0.1	0.3
		0.046	0.055	0.04		
		0.055	-----	-----		
		0.046	-----	-----		
4.366		0.046	0.046	0.055	0.1	0.3
		0.055	0.055	0.04		
		0.046	-----	-----		
4.3		0.046	0.046	0.055	0.1	0.3
		0.055	0.055	0.046		
		0.046	-----	0.055		
		-----	-----	0.04		
4.232		0.046	0.055	0.046	0.1	0.3
		0.055	0.046	0.055		
		-----	-----	0.04		
4.173		0.04	0.046	0.046	0.1	0.3
		0.046	0.055	0.055		
		-----	0.046	0.04		

4.111	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
	0.046	-----	-----		
4.049	0.055	-----	-----	0.1	0.3
	0.046	-----	-----		
4	0.046	-----	-----	0.1	0.3
3.92	0.046	-----	-----	0.1	0.3
3.861	0.046	-----	-----	0.1	0.3
3.8	0.046	-----	-----	0.1	0.3
3.724	0.046	0.046	0.055	0.1	0.3
	-----	0.055	0.04		
3.668	0.046	0.055	0.055	0.1	0.3
	-----	-----	0.046		
	-----	-----	0.055		
	-----	-----	0.04		
3.627	0.046	0.046	0.055	0.1	0.3
	-----	0.055	0.046		
	-----	-----	0.055		
	-----	-----	0.04		
3.561	0.046	0.046	0.046	0.1	0.3
	-----	0.055	0.055		
	-----	-----	0.04		
3.498	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
	0.046	-----	-----		
	0.055	-----	-----		
3.422	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
3.366	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
3.299	0.04	0.055	0.055	0.1	0.3
	-----	-----	0.04		
3.242	0.04	0.04	0.055	0.1	0.3
	-----	0.055	0.04		
3.176	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
3.103	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
3.04	0.04	0.055	0.055	0.1	0.3
	-----	-----	0.04		
2.947	0.04	0.04	-----	0.1	0.3
	0.055	0.055	-----		
	0.04	0.046	-----		
2.865	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
	0.04	-----	-----		
	0.055	-----	-----		
2.797	0.04	0.055	0.055	0.1	0.3
	0.055	0.04	0.04		
	-----	0.055	-----		
2.727	0.04	0.04	0.055	0.1	0.3
	0.055	0.055	0.04		
	0.04	-----	-----		
2.644	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
	0.04	-----	-----		
	0.055	-----	-----		
2.576	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
	0.04	-----	-----		
	0.055	-----	-----		
2.499	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
2.428	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
2.344	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		

2.261	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
2.181	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
2.091	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
2.015	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
1.931	0.04	0.055	0.046	0.1	0.3
	0.055	0.046	0.055		
	-----	-----	0.04		
1.853	0.04	0.055	0.046	0.1	0.3
	0.055	0.046	0.055		
	-----	-----	0.04		
1.77	0.04	0.055	0.046	0.1	0.3
	0.055	0.046	0.055		
	-----	-----	0.04		
1.696	0.04	0.04	0.055	0.1	0.3
	-----	0.055	0.04		
1.615	0.04	0.055	0.055	0.1	0.3
	-----	-----	0.04		
1.556	0.04	0.04	0.055	0.1	0.3
	-----	0.055	0.04		
1.48	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
1.418	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
1.367	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
1.314	0.04	0.055	0.04	0.1	0.3
	0.055	0.04	0.055		
	-----	-----	0.04		
1.272	0.04	0.04	0.055	0.1	0.3
	-----	0.055	0.04		
1.191	0.04	0.055	0.055	0.1	0.3
	-----	-----	0.04		
1.112	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
1.085	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
1.054	0.04	0.055	-----	0.1	0.3
	0.055	0.04	-----		
1.008	0.04	-----	-----	0.1	0.3
	0.055	-----	-----		
	0.04	-----	-----		
	0.055	-----	-----		
.918	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
.902	0.04	0.04	-----	0.1	0.3
	-----	0.055	-----		
	-----	0.04	-----		
.83	0.04	0.046	-----	0.1	0.3
	0.046	0.055	-----		
	-----	0.04	-----		
.757	0.055	0.055	-----	0.1	0.3
	-----	0.04	-----		
.698	0.046	0.055	-----	0.1	0.3
	0.055	0.04	-----		
.618	0.04	0.046	-----	0.1	0.3
	0.046	0.055	-----		
	-----	0.04	-----		

.55	0.04	0.055	-----	0.1	0.3
	0.046	0.04	-----		
	0.055	-----	-----		
.468	0.046	0.055	-----	0.1	0.3
	0.055	0.04	-----		
.42	0.055	0.046	-----	0.1	0.3
	0.046	0.055	-----		
	-----	0.04	-----		
.349	0.055	-----	-----	0.1	0.3
.288	0.065	0.065	0.02	0.1	0.3
	-----	0.072	0.04		
	-----	0.02	0.044		
.226	0.065	0.065	0.02	0.1	0.3
	-----	0.072	0.044		
	-----	0.02	-----		
.172	0.065	0.065	0.02	0.1	0.3
	-----	0.072	0.044		
	-----	0.02	-----		
.106	0.065	0.072	0.02	0.1	0.3
	-----	0.02	0.044		
.076	0.065	0.072	0.02	0.1	0.3
	0.072	0.02	0.044		
.062	0.065	0.072	0.02	0.1	0.3
	0.072	0.02	0.044		
.031	0.065	0.065	0.072	0.1	0.3
	-----	0.072	0.02		
	-----	-----	0.044		

Very clean, smooth, well-maintained dirt road approximately 30 feet wide; roadway is perpendicular to cross-sections.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.035	0.075
Right Overbank n Value:	0.02	0.075
Channel n Value:	0.02	0.075
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T2N-R6W-S05E

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/28/2011
Time: 11:28:30 AM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N_R6W_S05E,T2N_R6W_S05E						
4.806	270.19	197.95	188.86	608.95	1500	D
4.769	258.159	285.93	265.2	949.63	1500	D
4.715	238.744	235.88	235.758	1189.19	1500	D
4.67	241.492	238.616	266.56	804.49	1500	
4.625	410.597	403.494	381.862	789.47	1500	
4.548	207.86	243.96	243.37	725.45	1500	D
4.502	366.967	357.833	343.621	620.34	1500	
4.434	370.95	358.72	345.89	705.08	1500	D
4.366	325.55	349.07	364.07	398.01	1500	
4.3	345.5	362.3	418.65	626.86	1500	
4.232	334.973	311.492	273.95	716.82	1530	
4.173	414.98	326.27	206.04	1036.38	1530	
4.111	280.87	323.92	373.33	611	1530	
4.049	269.382	260.648	223.568	594.1	1230	
4	423.988	424.9	477.88	842.58	1230	
3.92	314.33	309.906	326.305	708.2	1230	
3.861	349.59	322.658	343.439	720.12	1230	
3.8	353.088	402.736	416.686	589.33	1230	
3.724	278.01	293.95	321.72	772.07	1490	
3.668	215.56	217.05	223.72	825.37	1490	
3.627	334.94	347.33	349.73	1074.68	1490	
3.561	353.42	333	308.92	969.2	1490	
3.498	387.93	399.03	384.24	1293.49	1530	
3.422	297.66	298.71	300.6	917.46	1530	
3.366	366.465	353.082	348.796	662.28	1530	D
3.299	310.471	299.03	297.094	724.87	1530	
3.242	341.357	348.297	347.554	1008.03	1530	D
3.176	396.66	387.83	376.54	985.46	1530	D
3.103	312.49	330.92	349.41	902.58	1530	D
3.04	448.29	493.82	549.89	1011.58	1530	D
2.947	416.739	430.34	435.134	798.98	1530	
2.865	383.52	362.46	359.73	1003.14	3130	
2.797	380.627	366.53	359.014	1250.77	3130	D
2.727	391.615	437.566	455.032	1175.16	3130	D
2.644	380.23	357.64	362.69	1171.37	3130	
2.576	442.48	406.66	411.28	1309.96	3130	D
2.499	391.937	377.105	363.352	825.1	1820	D
2.428	406.227	443.269	451.925	888.3	1820	
2.344	418.706	437.715	458.412	749.79	1820	
2.261	430.106	424.683	430.73	645.62	1820	
2.181	465.577	474.433	470.725	846.56	1820	
2.091	379.658	400.643	399.067	805.54	1820	
2.015	438.841	442.208	423.429	763.83	1820	
1.931	414.19	413.81	409.97	868.85	1820	
1.853	445.13	436.26	426.35	760.95	1820	
1.77	395.82	394.88	396.26	882.86	1820	
1.696	434.552	426.47	375.895	654.02	1820	
1.615	310.233	311.603	292.18	438.07	1820	D
1.556	389.878	397.815	397.476	311.38	1820	
1.48	331.571	331.645	331.681	461.94	1820	D
1.418	272.877	266.331	253.654	518.73	1820	D
1.367	270.578	278.909	324.828	379.88	1820	
1.314	254.07	225.71	205.45	113.16	1820	(B)

Blocked area due to embankment for stock pond in floodzone.

1.272	404.942	424.365	391.2	125.98	1820
1.191	357.53	415.63	457.69	407.11	1820
1.112	148.92	147.32	149.31	283.81	1820
1.085	168.256	158.922	155.36	382.04	1820
1.054	220.72	245.169	257.914	440.18	1820
1.008	388.684	477.216	547.138	779.32	1820
.918	140.14	81.38	85.47	791.31	1820
.902	394.397	380.245	378.868	260.54	1210
.83	390.29	384.563	369.128	282.21	1210
.757	315.566	315.201	314.875	167.82	1210
.698	421.333	420.698	420.293	143.27	1210
.618	389.162	358.683	332.808	134.94	1210
.55	391.637	431.981	440.237	237.86	1210
.468	270.945	256.08	253.819	261.07	1210
.42	472.24	375.69	253.32	353.07	1210
.349	323.8	321.08	303.56	301.51	1210
.288	328.709	328.158	333.455	456.25	920
.226	280.396	280.77	284.207	627.94	920
.172	350.04	348.53	346.17	348.67	920
.106	159.09	159.8	163.19	208.26	920
.076	75.11	74.67	74	124.49	920
.062	170.45	163.93	164.59	89.95	920
.031	0	0	0	209.04	920

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

Critical due to decrease in flow area downstream; canal embankment. Fr=0.82

Critical due to decrease in flow area in the downstream cross sections.
X-Sec 0.918 Fr=0.95
X-Sec 0.902 Fr=0.75
X-Sec 0.757 Fr=0.88

Blocked area due to structure in the middle of the floodzone.

Critical due to decrease and increase in flow area in the neighboring cross sections.
X-Sec 0.288 Fr=0.71
X-Sec 0.062 Fr=0.76
X-Sec 0.031 Fr=0.15

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 4.049
XS DC 01 Discharge decreases in the downstream direction.

RS: 2.499
XS DC 01 Discharge decreases in the downstream direction.

RS: 0.902
XS DC 01 Discharge decreases in the downstream direction.

RS: 0.288
XS DC 01 Discharge decreases in the downstream direction.

Incidental split to the east and west; See Appendix E for supporting documentation.

Decrease in discharge due to hydrology.

LOCATION CHECK

RS: 1.191
XS LC 01 Lenchl Up/TopwdthAct Dn = 1.46
MaxChlDpth Up/MaxChlDpth Dn = 1.25
TopwdthAct Up/TopwdthAct Dn = 1.43

```
         This cross section is located too far upstream from the
         critical depth cross section.

RS:      0.83
XS LC 01 Lenchl Up/TopwdthAct Dn = 2.29
         MaxChlDpth Up/MaxChlDpth Dn = 1.23
         TopwdthAct Up/TopwdthAct Dn = 1.68
         This cross section is located too far upstream from the
         critical depth cross section.


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T2N_R6W_S05E,T2N_R6W_S05E
         Known WS = 1198.59 is specified as the downstream boundary
         for profile Floodplain

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
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---END---
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Adding additional cross sections did not remove the "C" depth warning; Reach lengths are less than 500 feet.

No iterations are required for slope area boundary condition.

T2N-R6W-S05N
CheckRAS Reports

T2N-R6W-S05N

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain;Floodway
Date: 6/23/2011
Time: 10:31:41 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N-R6W-S05N,T2N-R6W-S05N						
3.831		0.044	-----	-----	0.1	0.3
3.763		0.044	0.072	0.044	0.1	0.3
3.721		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
3.675		0.044	0.044	0.044	0.1	0.3
		-----	0.072	-----		
3.635		0.044	0.072	0.044	0.1	0.3
3.592		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
3.546		0.044	0.072	0.044	0.1	0.3
3.487		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
3.402		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
3.35		0.044	0.072	-----	0.1	0.3
3.291		0.044	0.072	-----	0.1	0.3
3.225		0.044	0.072	-----	0.1	0.3
3.184		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
3.106		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.062		
		-----	0.072	-----		
3.045		0.044	0.058	0.062	0.1	0.3
		0.072	-----	-----		
3.004		0.044	0.072	0.058	0.1	0.3
		0.072	0.058	0.062		
2.951		0.044	0.058	0.058	0.1	0.3
		0.072	-----	0.044		
2.878		0.044	0.044	0.044	0.1	0.3
		-----	0.072	0.062		
		-----	0.058	-----		
		-----	0.044	-----		
2.808		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.058	-----		
		-----	0.044	-----		
2.726		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.058	-----		
		-----	0.044	-----		
2.651		0.044	0.058	0.058	0.1	0.3
		-----	-----	0.044		
2.581		0.044	0.044	-----	0.1	0.3
		-----	0.058	-----		
		-----	0.044	-----		
2.485		0.044	0.058	-----	0.1	0.3
		0.058	0.044	-----		
2.4		0.044	0.058	-----	0.1	0.3
		-----	0.044	-----		
2.316		0.044	0.058	-----	0.1	0.3
		0.058	0.044	-----		
2.296		0.062	0.044	-----	0.1	0.3
		0.044	0.058	-----		

	-----	0.044	-----		
2.239	0.062	0.044	0.044	0.1	0.3
	0.044	0.058	-----		
2.16	0.062	0.058	0.044	0.1	0.3
	0.044	-----	-----		
2.074	0.044	0.044	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.044	-----		
2.012	0.044	-----	-----	0.1	0.3
	0.058	-----	-----		
1.97	0.044	0.044	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.044	-----		
1.965	0.044	0.044	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.044	-----		
1.876	0.044	0.044	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.044	-----		
1.8	0.044	0.058	-----	0.1	0.3
	-----	0.044	-----		
1.713	0.044	-----	-----	0.1	0.3
	0.058	-----	-----		
1.609	0.044	0.044	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.044	-----		
1.543	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.044	-----		
1.473	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.044	-----		
1.41	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
1.369	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
1.288	0.044	0.072	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
1.222	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
1.144	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
1.033	0.044	0.072	-----	0.1	0.3
	0.072	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.962	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		

.895	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.807	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.751	0.044	0.044	0.044	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
.665	0.044	0.072	0.072	0.1	0.3
	0.072	0.058	0.044		
	0.044	0.072	-----		
.631	0.044	0.044	0.044	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
.591	0.044	0.044	-----	0.3	0.5
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.581	0.044	0.044	-----	0.3	0.5
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.568	0.044	0.044	-----	0.3	0.5
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.499	0.044	0.044	-----	0.1	0.3
	-----	0.072	-----		
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.411	0.044	0.072	0.044	0.1	0.3
	-----	0.058	-----		
	-----	0.072	-----		
.341	0.044	0.072	-----	0.1	0.3
	-----	0.058	-----		
	-----	0.072	-----		
	-----	0.044	-----		
.26	0.044	0.072	0.044	0.1	0.3
	0.072	0.058	0.072		
	-----	0.072	0.044		
	-----	0.044	0.072		
	-----	-----	0.058		
	-----	-----	0.044		
.175	0.044	0.072	0.044	0.1	0.3
	-----	0.058	0.072		
	-----	0.072	0.058		
	-----	0.044	0.072		
	-----	-----	0.044		
	-----	-----	0.072		
	-----	-----	0.058		
	-----	-----	0.044		
.095	0.044	0.072	0.044	0.1	0.3
	-----	0.058	0.072		
	-----	0.072	0.058		
	-----	-----	0.072		
	-----	-----	0.044		

To account for sudden decrease in conveyance area at x-section 0.581; canal embankment at this location.

```
                              -----      -----      0.072
                              -----      -----      0.058
                              -----      -----      0.044
 .005                         0.044      0.072      0.044      0.1        0.3
                              -----      0.058      0.072
                              -----      0.072      0.058
                              -----      -----      0.044
                              -----      -----      0.072
                              -----      -----      0.044
--------------------------------------------------------------------------------

---Summary of Statistics---
                              Minimum         Maximum
Left Overbank n Value:         0.044           0.072
Right Overbank n Value:        0.044           0.072
Channel n Value:               0.044           0.072
Contraction Coefficient:       0.1             0.3
Expansion   Coefficient:       0.3             0.5


ROUGHNESS COEFFICIENT CHECK
-----------------------------------

RS:       3.763
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.072
         The overbank n values should be reevaluated.

RS:       3.675
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.044
         The overbank n values should be reevaluated.

RS:       3.635
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.072
         The overbank n values should be reevaluated.

RS:       3.546
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.072
         The overbank n values should be reevaluated.

RS:       0.751
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.044
         The overbank n values should be reevaluated.

RS:       0.631
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.044
         The overbank n values should be reevaluated.

RS:       0.411
NT RC 05 The left overbank n value of 0.044 and the right overbank n value
         of 0.044 are less than or equal to the channel n value of 0.058
         The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

RS:       0.591
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.
```

The channel has heavy vegetation therefore overbank n-values are less.

To account for sudden decrease in conveyance area at x-section 0.581; canal embankment at this location.

```
RS:       0.581
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:       0.568
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES
-----------------------------------

---END---
```

To account for sudden decrease in conveyance area at x-section 0.581; canal embankment at this location.

T2N-R6W-S05N

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 6/23/2011
Time: 10:38:23 AM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
T2N-R6W-S05N,T2N-R6W-S05N							
3.831					9971.32	10024	
3.831	4	0	9874.87	10046.02	9971.32	10024	
3.763					9948.79	10019.41	
3.763	4	0	9914.39	10050.6	9948.79	10019.41	
3.721					9967.75	10048.41	
3.721	4	0	9932.46	10124.99	9967.75	10048.41	
3.675					9953.68	10039.57	
3.675	4	0	9918.11	10071.1	9953.68	10039.57	
3.635					9969.78	10037.82	
3.635	4	0	9927.09	10100.1	9969.78	10037.82	
3.592					9957.1	10018.43	
3.592	4	0	9872.77	10060.57	9957.1	10018.43	
3.546					9926.3	10039.39	
3.546	4	0	9873.4	10089.09	9926.3	10039.39	
3.487					9947.02	10057.13	
3.487	4	0	9894.79	10176.43	9947.02	10057.13	
3.402					9954.17	10061.14	
3.402	4	0	9857.37	10102.29	9954.17	10061.14	
3.35					9953.14	10037.87	
3.35	4	0	9929.82	10059.6	9953.14	10037.87	
3.291					9897.98	10041.15	
3.291	4	0	9839.74	10073.97	9897.98	10041.15	
3.225					9912.08	10059.75	
3.225	4	0	9842.29	10083.4	9912.08	10059.75	
3.184					9876.99	10053.03	
3.184	4	0	9834.44	10075.79	9876.99	10053.03	
3.106					9820.85	10032.54	
3.106	4	0	9750.39	10041.61	9820.85	10032.54	
3.045					9810.18	10026.28	
3.045	4	0	9786.24	10053.71	9810.2	10026.27	
3.004					9811.02	10110.13	
3.004	4	0.01	9762.39	10118.85	9810.59	10110.18	
2.951					9846.85	10092.28	
2.951	4	-0.01	9792.41	10110.99	9846.97	10092.24	
2.878					9932.87	10411.06	
2.878	4	0.01	9862.32	10447.29	9932.71	10411.13	
2.808					9842.66	10217.67	
2.808	4	-0.03	9704.57	10227.38	9843.08	10217.29	
2.726					9927.08	10336.92	
2.726	4	0.03	9910.35	10343.4	9926.44	10337.87	
2.651					9971.64	10337.65	
2.651	4	-0.06	9902.48	10360.6	9972.06	10335.55	
2.581					9596.1	10165.03	
2.581	4	0.05	9531.86	10231.81	9590.15	10182.66	
2.485					9287.97	10096.82	
2.485	4	-0.07	9265.42	10139.79	9293.96	10093.99	
2.4					9319.87	10293.87	
2.4	4	0.2	9301.41	10326.14	9301.41	10312.41	
2.316					9029.23	10192.07	
2.316	19	0.81	9956.64	10060.34	9956.64	10060.34	
2.296					9049.47	10062.71	
2.296	1	0.68	9795.7	10050.37	9795.7	10050.37	
2.239					9203.6	10080.31	

Floodway not appropriate for this area.

2.239	19	0.95	9816.01	10075.22	9816.01	10075.22
2.16					9365.6	10158.42
2.16	19	0.65	9845.92	10066.21	9845.92	10066.21
2.074					9369.49	10135.42
2.074	19	0.89	9795.57	10023.59	9795.57	10023.59
2.012					9571.79	10219.76
2.012	1	0.93	9891.2	10072.46	9891.2	10072.46
1.97					9936.36	10221.9
1.97	19	0.32	9950.74	10036	9950.74	10036
1.965					9887.82	10147.62
1.965	1	0.35	9913	10030.35	9913	10030.35
1.876					9741.93	10051.56
1.876	19	0.06	9882.93	10029.53	9882.93	10029.53
1.8					9637.01	10034.52
1.8	19	0.73	9942.25	10030.78	9942.25	10030.78
1.713					9746.78	10241.69
1.713	1	0.82	9961.1	10135.09	9961.1	10135.09
1.609					9889.54	10172.48
1.609	19	0.78	9934.83	10037.35	9934.83	10037.35
1.543					9850.4	10190.76
1.543	1	0.76	9960.5	10055.46	9960.5	10055.46
1.473					9794.63	10074.2
1.473	1	0.76	9931.9	10019.38	9931.9	10019.38
1.41					9789.83	10240.43
1.41	19	0.75	9930.91	10047.23	9930.91	10047.23
1.369					9797.41	10136.94
1.369	19	0.97	9940.09	10058.77	9940.09	10058.77
1.288					9787.26	10125.23
1.288	19	0.54	9940.64	10032.2	9940.64	10032.2
1.222					9708.41	10170.29
1.222	19	0.91	9879.72	10071.67	9879.72	10071.67
1.144					9771.09	10157.53
1.144	19	0.5	9955.12	10058.28	9955.12	10058.28
1.033					9890.97	10139.44
1.033	19	0.76	9947.46	10092.95	9947.46	10092.95
0.962					9758.64	10059.15
0.962	19	0.74	9921.74	10030.54	9921.74	10030.54
0.895					9814.89	10170.72
0.895	19	0.66	9963.46	10096.44	9963.46	10096.44
0.807					9754.24	10060.64
0.807	1	0.75	9931.9	10042.01	9931.9	10042.01
0.751					9690.8	10070.32
0.751	19	0.98	9899.34	10039.88	9899.34	10039.88
0.665					9728.09	10202.39
0.665	19	0.81	9873.72	10031.16	9873.72	10031.16
0.631					9751.49	10184.72
0.631	19	0.54	9925.25	10074.6	9925.25	10074.6
0.591					9880.28	10102.16
0.591	19	0.54	9922.74	10080.65	9922.74	10080.65
0.581					9902.44	10104.71
0.581	19	0.58	9929.89	10098.63	9929.89	10098.63
0.568					9912.2	10127.38
0.568	19	0.57	9944.38	10105.09	9944.38	10105.09
0.499					9934.45	10237.25
0.499	1	0.95	9972.7	10116.08	9972.7	10116.08
0.411					9942.37	10319.49
0.411	1	0.89	9961.9	10107.29	9961.9	10107.29
0.341					9854	10262.91
0.341	19	0.84	9972.62	10116.1	9972.62	10116.1
0.26					9940.78	10566.86
0.26	19	0.92	9947.63	10167.59	9947.63	10167.59
0.175					9974.25	10419.52
0.175	19	0.99	9976.74	10192.34	9976.74	10192.34
0.095					9927.34	10372.03
0.095	19	0.95	9952.09	10124.81	9952.09	10124.81
0.005					9843.99	10371.61
0.005	19	0.94	9956.17	10113.3	9956.17	10113.3

ENCROACHMENT METHOD CHECK

RS: 3.831
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.763
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.721
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.675
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.635
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.592
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

Floodway not appropriate for this area.

RS: 3.546
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.487
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.402
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.35
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.291
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.225
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.184

```
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.106
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.045
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.004
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.951
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.878
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.808
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.726
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.651
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.581
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.485
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.4
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.


FLOODWAY WIDTH CHECK
--------------------

RS:       3.831
FW FW 04  The left station effective of 9971.32 for 1% annual chance floodplain
          is less than the left channel bank station 9995.48
          The 1% annual chance floodplain is outside the channel.
```

Floodway not appropriate for this area.

However, the left encroachment station (9874.87) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.831
FW FW 04 The right station effective of 10024 for 1% annual chance floodplain is greater than the right channel bank station (10005.33).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10046.02) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.763
FW FW 04 The left station effective of 9948.79 for 1% annual chance floodplain is less than the left channel bank station 9983.01
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9914.39) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.763
FW FW 06 The right station effective of 10019.41 for the floodway profile is less than the right channel bank station of 10022.98
The right side of the floodway boundary is within the channel.
The right encroachment station of 10050.6 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 3.721
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.721
FW FW 03 The right channel bank station may not be at the proper location.

Floodway not appropriate for this area.

RS: 3.721
FW FW 04 The left station effective of 9967.75 for 1% annual chance floodplain is less than the left channel bank station 9970.22
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9932.46) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.721
FW FW 04 The right station effective of 10048.41 for 1% annual chance floodplain is greater than the right channel bank station (10048.14).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10124.99) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.675
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.675
FW FW 04 The left station effective of 9953.68 for 1% annual chance floodplain is less than the left channel bank station 9966.73
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9918.11) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.675
FW FW 06 The right station effective of 10039.57 for the floodway profile is less

than the right channel bank station of 10043.83
The right side of the floodway boundary is within the channel.
The right encroachment station of 10071.1 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 3.635
FW FW 04 The right station effective of 10037.82 for 1% annual chance floodplain is greater than the right channel bank station (10023.04).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10100.1) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.635
FW FW 06 The left station effective of 9969.78 for the floodway profile is more than the left channel bank station of 9968.9
The left side of the floodway boundary is within the channel.
The left encroachment station of 9927.09 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 3.592
FW FW 04 The left station effective of 9957.1 for 1% annual chance floodplain is less than the left channel bank station 9975.95
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9872.77) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 3.592
FW FW 04 The right station effective of 10018.43 for 1% annual chance floodplain is greater than the right channel bank station (10017.61).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10060.57) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.546
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.546
FW FW 04 The left station effective of 9926.3 for 1% annual chance floodplain is less than the left channel bank station 9975.34
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9873.4) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.546
FW FW 04 The right station effective of 10039.39 for 1% annual chance floodplain is greater than the right channel bank station (10027.8).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10089.09) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.487
FW FW 04 The left station effective of 9947.02 for 1% annual chance floodplain is less than the left channel bank station 9973.42
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9894.79) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.487
FW FW 04 The right station effective of 10057.13 for 1% annual chance floodplain is greater than the right channel bank station (10021.49).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10176.43) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.402
FW FW 04 The left station effective of 9954.17 for 1% annual chance floodplain is less than the left channel bank station 9967.02
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9857.37) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.402
FW FW 04 The right station effective of 10061.14 for 1% annual chance floodplain is greater than the right channel bank station (10027.1).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10102.29) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.35
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.35
FW FW 04 The left station effective of 9953.14 for 1% annual chance floodplain is less than the left channel bank station 9967.7
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9929.82) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 3.35
FW FW 04 The right station effective of 10037.87 for 1% annual chance floodplain is greater than the right channel bank station (10018.73).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10059.6) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.291
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.291
FW FW 04 The left station effective of 9897.98 for 1% annual chance floodplain is less than the left channel bank station 9960.99
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9839.74) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.291
FW FW 04 The right station effective of 10041.15 for 1% annual chance floodplain is greater than the right channel bank station (10020.6).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10073.97) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.225
FW FW 03 The Left channel bank station may not be at the proper

location.

RS: 3.225
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.225
FW FW 04 The left station effective of 9912.08 for 1% annual chance floodplain is less than the left channel bank station 9978.31
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9842.29) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.225
FW FW 04 The right station effective of 10059.75 for 1% annual chance floodplain is greater than the right channel bank station (10032.9).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10083.4) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.184
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.184
FW FW 04 The left station effective of 9876.99 for 1% annual chance floodplain is less than the left channel bank station 9984.62
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9834.44) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 3.184
FW FW 04 The right station effective of 10053.03 for 1% annual chance floodplain is greater than the right channel bank station (10007.98).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10075.79) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.106
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.106
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.106
FW FW 04 The left station effective of 9820.85 for 1% annual chance floodplain is less than the left channel bank station 9945.75
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9750.39) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.106
FW FW 04 The right station effective of 10032.54 for 1% annual chance floodplain is greater than the right channel bank station (10008.93).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10041.61) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.045

```
FW FW 04  The left station effective of 9810.18 for 1% annual chance floodplain
          is less than the left channel bank station 9983.64
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9786.24) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       3.045
FW FW 04  The right station effective of 10026.28 for 1% annual chance floodplain
          is greater than the right channel bank station (10020.14).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10053.71) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       3.004
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       3.004
FW FW 04  The left station effective of 9811.02 for 1% annual chance floodplain
          is less than the left channel bank station 9950.59
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9762.39) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       3.004
FW FW 04  The right station effective of 10110.13 for 1% annual chance floodplain
          is greater than the right channel bank station (10060.15).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10118.85) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       2.951
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       2.951
FW FW 04  The left station effective of 9846.85 for 1% annual chance floodplain
          is less than the left channel bank station 9985.4
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9792.41) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       2.951
FW FW 04  The right station effective of 10092.28 for 1% annual chance floodplain
          is greater than the right channel bank station (10021.48).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10110.99) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       2.878
FW FW 04  The left station effective of 9932.87 for 1% annual chance floodplain
          is less than the left channel bank station 9946.19
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9862.32) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       2.878
FW FW 04  The right station effective of 10411.06 for 1% annual chance floodplain
          is greater than the right channel bank station (10351.41).
          The 1% annual chance floodplain is outside the channel.
```

Floodway not appropriate for this area.

However, the right encroachment station (10447.29) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.808
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.808
FW FW 04 The left station effective of 9842.66 for 1% annual chance floodplain is less than the left channel bank station 9853.77
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9704.57) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.808
FW FW 06 The right station effective of 10217.29 for the floodway profile is less than the right channel bank station of 10218.17
The right side of the floodway boundary is within the channel.
The right encroachment station of 10227.38 is greater than the right channel bank station.
The right encroachment station should be the same as the right channel bank station.

RS: 2.726
FW FW 04 The left station effective of 9927.08 for 1% annual chance floodplain is less than the left channel bank station 9961.99
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9910.35) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 2.726
FW FW 04 The right station effective of 10336.92 for 1% annual chance floodplain is greater than the right channel bank station (10063.2).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10343.4) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.651
FW FW 04 The right station effective of 10337.65 for 1% annual chance floodplain is greater than the right channel bank station (10029.74).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10360.6) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.651
FW FW 06 The left station effective of 9972.06 for the floodway profile is more than the left channel bank station of 9971.02
The left side of the floodway boundary is within the channel.
The left encroachment station of 9902.48 is less than the left channel bank station.
The left encroachment station should be the same as the left channel bank station.

RS: 2.581
FW FW 04 The left station effective of 9596.1 for 1% annual chance floodplain is less than the left channel bank station 9981.03
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9531.86) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.581

```
FW FW 04  The right station effective of 10165.03 for 1% annual chance floodplain
          is greater than the right channel bank station (10095.85).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10231.81) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       2.485
FW FW 04  The left station effective of 9287.97 for 1% annual chance floodplain
          is less than the left channel bank station 9973.33
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9265.42) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       2.485
FW FW 04  The right station effective of 10096.82 for 1% annual chance floodplain
          is greater than the right channel bank station (10076.39).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10139.79) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       2.4
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       2.4
FW FW 04  The left station effective of 9319.87 for 1% annual chance floodplain
          is less than the left channel bank station 9922.21
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9301.41) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       2.4
FW FW 04  The right station effective of 10293.87 for 1% annual chance floodplain
          is greater than the right channel bank station (10015.74).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10326.14) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       2.296
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       2.239
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       2.16
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.97
FW FW 01  Left encroachment station 9950.74 is more than left channel bank
          station 9950.65 and less than the right channel bank station 10036
          Left encroachment station is within the channel.
          The encroachment station or channel bank station should be adjusted.

RS:       1.97
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.97
FW FW 03  The right channel bank station may not be at the proper
```

Floodway not appropriate for this area.

General Note
Bank stations were checked and verified based upon aerial photography and topography.

location.

RS: 1.965
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.876
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.8
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.713
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.543
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.543
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.473
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.41
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.033
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.962
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.895
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.807
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.807
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.751
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.665
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.631
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.591

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FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.581
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.568
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.499
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.411
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.341
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.175
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.175
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.095
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.095
FW FW 03  The right channel bank station may not be at the proper
          location.


SURCHARGE CHECK
----------------


DISCHARGE CHECK
----------------


STARTING WATER-SURFACE ELEVATION CHECK
---------------------------------------

---END---
```

T2N-R6W-S05N

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

General Note for "D"
There are several cross sections showing divided flow, but they are just isolated islands.

Selected profiles: Floodplain;Floodway
Date: 6/23/2011
Time: 10:34:42 AM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N-R6W-S05N,T2N-R6W-S05N						
3.831	350.84	358.45	364.19	48.88	900	D
3.763	243.73	223.43	199.82	70.62	900	
3.721	203.01	241.11	257.11	80.66	900	
3.675	228.53	215.67	189.21	85.89	900	
3.635	215.58	224.2	232.96	68.04	900	
3.592	209.45	243.15	264.19	61.33	900	
3.546	303.57	310.33	306.22	113.09	900	
3.487	436.67	448.55	457.44	110.1	900	
3.402	296.48	276.18	262.66	106.97	900	
3.35	305.41	311.83	316.23	84.72	900	
3.291	344.32	347.79	346.97	143.16	900	
3.225	207.11	217.03	220.14	147.67	900	
3.184	423.28	409.74	407.3	176.04	900	
3.106	308.87	322.44	323.1	211.69	2270	
3.045	239.39	218.83	207.24	216.1	2270	
3.004	272.89	280.07	285.24	299.1	2270	
2.951	429.55	382.53	389.34	245.43	2270	
2.878	376.1	373.22	336.84	478.19	2270	
2.808	486.05	429.78	375.36	375.01	2270	
2.726	381.42	397.02	420.06	409.84	1480	
2.651	446.17	371.71	259.02	332.5	1480	D
2.581	355.8	504.19	486	568.93	1480	
2.485	482.29	451.42	461.32	744.55	1810	D
2.4	396.71	440.52	423.33	970.44	1810	D
2.316	110.95	107.26	103.26	965.82	1810	D
2.296	312.2	303.33	293.97	928.47	1810	D
2.239	418.94	414.8	423.09	876.7	1810	
2.16	409.97	455.56	446.29	792.83	1810	
2.074	299.64	324.44	304.17	765.93	1810	
2.012	223.26	220.97	216.91	647.97	1810	
1.97	38.44	29.94	30.17	285.54	850	
1.965	448.08	469.32	470.64	255.26	850	D
1.876	417.11	401.68	386.33	309.63	850	
1.8	463.81	460.23	441.67	397.51	850	
1.713	619.09	547.29	465.77	494.91	850	
1.609	294.61	347.67	401.41	282.94	850	
1.543	365.83	368.94	357.7	340.36	850	
1.473	334.01	333.08	331.4	279.57	850	
1.41	209.79	215.18	230.46	450.61	850	
1.369	430.42	431.09	410.36	339.53	850	
1.288	359.54	348.27	337.41	337.98	850	
1.222	402.86	410.82	388.7	458.16	850	D
1.144	566.65	585.01	599.65	386.44	850	
1.033	332.19	378.76	390.24	248.46	1880	
.962	349.7	352.13	349.27	300.51	1880	
.895	429.48	461.75	444.36	322.95	1880	D
.807	287.54	295.76	294.47	306.4	1880	
.751	462.09	453.48	433.62	379.52	1880	
.665	197.6	181.17	164.2	474.3	1940	
.631	265.98	210.27	176.25	433.23	1940	
.591	52.49	53.23	54.06	221.88	1940	
.581	65.54	70.62	74.76	202.28	1940	
.568	359.7	364.88	384.76	215.18	2240	

```
.499        436.69      462.98      414.87      302.79          2240
.411        376.42      371.07      367.67      377.12          2240
.341        418.38      427.87      452.56      408.91          2240
.26         442.74      447.78      781.79      626.08          2240
.175        406.07      421.26      361.5       445.27          2240
.095        474.52      476.1       388.66      392.02          2240      D(B)
.005        0           0           0           527.62          2240
-------------------------------------------------------------------------
B=blocked obstruction       XS SC 05
C=critial depth             XS SC 03
D=divided flow              XS SC 01
E=cross section extended    XS SC 02
K=known water-surface       XS SC 04


DISTANCE CHECK
--------------


SPACING CHECK
-------------


INEFFECTIVE FLOW CHECK
----------------------


DISCHARGE CHECK
---------------

RS:      3.675
XS DC 04 There is no flow on the left overbank at the downstream
         cross section. There is no flow on the right overbank at this section.

RS:      2.726
XS DC 01 Discharge decreases in the downstream direction.

RS:      1.97
XS DC 01 Discharge decreases in the downstream direction.


LOCATION CHECK
--------------


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T2N-R6W-S05N,T2N-R6W-S05N
         Normal S = 0.0044 is specified as the downstream boundary
         for profile Floodplain

XS BC 02 The name of the stream is T2N-R6W-S05N,T2N-R6W-S05N
         Normal S = 0.0044 is specified as the downstream boundary
         for profile Floodway

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
-------------------

---END---
```

Blocked area due to structure in the middle of the floodzone.

Bank station locations were checked and verified based on aerial photography and topography.

Hydrology split to the east.

Incidental split to the east. See App. E for supporting documentation.

No iterations are required for slope area boundary condition.

T2N-R6W-S05S
CheckRAS Reports

T2N-R6W-S05S

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/28/2011
Time: 1:06:01 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N_R6W_S05S,T2N_R6W_S05S						
.702		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
.62		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.552		0.044	0.072	-----	0.1	0.3
		0.072	0.065	-----		
.472		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.065	-----		
.416		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.065		
.343		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.286		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.065		
.221		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.065		
.142		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.065		
.093		0.02	0.02	-----	0.1	0.3
		-----	0.072	-----		
.076		0.044	0.072	-----	0.1	0.3
		0.02	-----	-----		

Very clean, smooth, well-maintained dirt road approximately 40 feet wide; roadway is perpendicular to cross-section.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.072
Right Overbank n Value:	0.065	0.072
Channel n Value:	0.02	0.072
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 0.093
NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.
The n value should be reevaluated.

Very clean, smooth, well-maintained dirt road approximately 40 feet wide; roadway is perpendicular to cross-section.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T2N-R6W-S05S

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/28/2011
Time: 1:02:32 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N_R6W_S05S,T2N_R6W_S05S						
.702	436	436.55	437.39	159.52	680	
.62	358.932	359.522	359.575	291.89	140	
.552	418.675	419.856	419.793	251.19	140	
.472	295.358	296.114	296.324	373.35	750	
.416	385.52	384.02	383.11	127.36	750	
.343	302.44	299.6	299.62	414.65	750	
.286	345.872	343.966	343.672	334.72	750	
.221	416.596	417.545	417.875	296.12	750	
.142	265.259	261.725	261.607	244.61	750	
.093	89.18	88.01	88.03	111.07	750	
.076	115.47	111.05	111.27	162.11	750	

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 0.62
XS DC 01 Discharge decreases in the downstream direction.

Incidental split south. See Appendix E for supporting documentation.

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T2N_R6W_S05S,T2N_R6W_S05S
Known WS = 1198.59 is specified as the downstream boundary
for profile Floodplain

XS BC 03 Maximum number of iterations is 0
It should not be less than 20.

No iterations are required for slope area boundary condition.

LATERAL WEIRS CHECK

---END---

T2N-R6W-S05W
CheckRAS Reports

T2N-R6W-S05W

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/21/2011
Time: 5:56:48 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N_R6W_S05W,T2N_R6W_S05W						
.919		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	-----		
.845		0.044	0.058	0.072	0.1	0.3
		0.072	0.072	0.044		
		0.058	-----	0.072		
		-----	-----	0.044		
.815		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	0.072		
		-----	-----	0.044		
.768		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.058	-----		
		-----	0.072	-----		
		-----	0.044	-----		
.704		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.058	-----		
		-----	0.072	-----		
		-----	0.044	-----		
.651		0.044	0.072	0.058	0.1	0.3
		0.072	0.058	0.044		
		0.058	-----	-----		
		0.072	-----	-----		
		0.044	-----	-----		
		0.072	-----	-----		
		0.044	-----	-----		
.584		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		0.058	0.072	0.072		
		0.072	-----	0.058		
		0.044	-----	0.044		
		0.072	-----	-----		
.523		0.044	0.072	0.044	0.1	0.3
		0.072	0.058	0.072		
		0.058	0.072	0.058		
		0.072	0.044	0.044		
		0.044	-----	-----		
.436		0.044	0.072	0.044	0.1	0.3
		-----	0.058	0.072		
		-----	0.072	0.058		
		-----	-----	0.044		
		-----	-----	0.072		
		-----	-----	0.044		
.365		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	0.072		
		-----	-----	0.058		
		-----	-----	0.072		
		-----	-----	0.044		
.309		0.044	0.058	0.044	0.1	0.3
		0.072	0.072	0.072		

	-----	0.044	0.058		
	-----	-----	0.072		
	-----	-----	0.044		
.237	0.044	0.044	0.044	0.1	0.3
	-----	0.058	0.072		
	-----	0.072	0.058		
	-----	-----	0.072		
	-----	-----	0.044		
.206	0.044	0.072	0.072	0.1	0.3
	0.072	0.058	0.044		
	-----	0.072	0.072		
	-----	-----	0.058		
	-----	-----	0.072		
	-----	-----	0.044		
.142	0.044	0.072	0.058	0.1	0.3
	0.072	0.058	0.072		
	-----	-----	0.044		
.075	0.044	0.072	0.072	0.1	0.3
	0.072	0.058	0.044		
	-----	0.072	-----		
.042	0.065	0.072	-----	0.1	0.3
	0.072	0.065	-----		
.015	0.065	-----	-----	0.1	0.3

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.044	0.072
Right Overbank n Value:	0.044	0.072
Channel n Value:	0.044	0.072
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T2N-R6W-S05W

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

Selected profiles: Floodplain
Date: 7/21/2011
Time: 5:59:06 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N_R6W_S05W,T2N_R6W_S05W						
.919	353.22	388.92	400.23	786.98	3280	
.845	158.56	160.17	175.82	643.54	3280	
.815	238.2	246.6	242.76	1008.22	4200	
.768	286.22	340.08	364.48	1658.32	4200	
.704	284.72	279.87	265.79	1341.15	4200	D
.651	397.02	350.37	281.84	1520.28	6040	D
.584	362.8	322.12	263.56	1108.37	6040	D
.523	466.25	462.99	383.02	1001.7	6040	D,B
.436	379.48	374.72	335.76	950.34	6040	
.365	311.41	294.21	263.45	979.28	6040	
.309	363.2	380.27	354.58	821.49	6040	D
.237	137	163.56	177.41	624.38	6040	D
.206	308.95	338.05	359.43	779.73	6040	D
.142	346.88	353.95	342.97	533.72	6040	D
.075	152.05	173.67	189.4	557.07	6040	
.042	153.48	141.89	148.53	638.04	6040	
.015	0	0	0	461.74	6040	B

Blocked due to structure in flood zone.

Blocked due to structure in flood zone.

B=blocked obstruction
C=critial depth
D=divided flow
E=cross section extended
K=known water-surface

XS SC 05
XS SC 03
XS SC 01
XS SC 02
XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T2N_R6W_S05W,T2N_R6W_S05W
Normal S = 0.0056 is specified as the downstream boundary
for profile Floodplain

```
XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

T2N-R6W-S22
CheckRAS Reports

T2N-R6W-S22

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/21/2011
Time: 5:30:39 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N-R6W-S22,T2N-R6W-S22						
2.274		0.035	-----	-----	0.1	0.3
		0.02	-----	-----		
2.196		0.035	0.035	0.06	0.1	0.3
		0.06	0.06	0.035		
		0.035	-----	-----		
2.126		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
		0.035	-----	-----		
		0.06	-----	-----		
2.031		0.035	0.035	0.035	0.1	0.3
		-----	0.06	0.06		
		-----	0.035	-----		
1.941		0.035	0.035	0.035	0.1	0.3
		-----	0.06	-----		
1.886		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
1.829		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
1.749		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
1.657		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
1.617		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
1.538		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
1.482		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
1.411		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
1.299		0.035	0.06	-----	0.1	0.3
		0.02	0.035	-----		
		0.035	-----	-----		
1.219		0.035	0.035	0.06	0.1	0.3
		0.02	0.06	0.035		
		0.035	-----	-----		
1.129		0.035	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.035	-----	-----		
		0.06	-----	-----		
1.049		0.035	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.06	-----	-----		
.952		0.035	0.06	-----	0.1	0.3
		0.02	0.035	-----		
		0.06	-----	-----		
.89		0.035	0.02	0.06	0.1	0.3
		0.02	0.06	0.035		
.821		0.02	0.06	-----	0.1	0.3
		0.035	0.035	-----		
		0.06	-----	-----		

Zone AO, 80

Smooth, clean dirt road (app. 20 ft in width).

Roadway on far left overbank where WSEL is not apparent (2/2').

.761	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.709	0.02	0.035	-----	0.1	0.3
	0.035	0.06	-----		
	-----	0.035	-----		
.654	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.584	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
.548	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.456	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.367	0.02	0.06	-----	0.1	0.3
	0.06	0.02	-----		
.316	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.274	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.22	0.035	0.06	0.06	0.1	0.3
	-----	-----	0.035		
.161	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.084	0.035	0.042	-----	0.1	0.3
	0.06	0.06	-----		
	0.035	0.035	-----		
	0.06	-----	-----		
	0.042	-----	-----		
	0.06	-----	-----		
	0.042	-----	-----		
0	0.035	-----	-----	0.1	0.3
	0.06	-----	0.035		
	0.042	-----	-----		
	0.06	-----	-----		

Not wet here (~3.5').

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.06
Right Overbank n Value:	0.035	0.06
Channel n Value:	0.02	0.06
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 1.941
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T2N-R6W-S22

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

Selected profiles: Floodplain
Date: 7/21/2011
Time: 5:36:15 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N-R6W-S22,T2N-R6W-S22						
2.274	462.3	412.17	343.66	511.38	810	
2.196	327.71	365.09	404.23	932.43	810	
2.126	468.64	502.05	541.46	873.99	810	
2.031	398.743	475.612	498.51	441.33	810	D
1.941	301.642	294.119	295.563	293.98	810	
1.886	312.512	297.498	247.873	392.01	810	
1.829	477.947	423.783	322.742	374.81	810	
1.749	478.984	486.35	483.132	576.72	810	
1.657	212.362	210.668	194.69	547.27	810	D
1.617	371.391	415.945	560.09	565.99	810	
1.538	308.115	297.354	284.286	226.01	810	
1.482	371.878	375.679	369.364	207.42	810	
1.411	632.24	590.29	569.62	211.43	810	
1.299	436.978	423.578	410.432	431.36	810	
1.219	474.538	471.698	471.25	470.96	810	
1.129	420.778	421.405	418.234	256.3	810	C
1.049	510.41	515.98	517.95	367.09	810	
.952	319.243	325.575	325.885	354.28	810	
.89	376.234	363.494	316.755	353.7	810	D
.821	275.237	319.325	365.934	352.64	810	D
.761	275.037	274.244	262.336	281.38	810	
.709	309.977	290.916	269.31	318.13	810	D
.654	341.287	368.686	400.627	287.24	810	
.584	185.639	191.794	188.532	288.04	810	
.548	491.29	484.668	485.156	160.43	810	
.456	461.128	467.914	462.218	183.98	810	
.367	251.17	267.88	271.88	279.37	810	
.316	203.39	221.94	234.04	231.74	810	
.274	267.64	286.45	308.17	88.95	810	
.22	354.98	313.51	298.08	112.46	810	
.161	393.98	406.39	392.91	233.59	810	
.084	436.64	442.57	382.83	314.6	810	
0	0	0	0	389.59	810	

"C" flow due to decrease in conveyance area. Fr=0.56

B=blocked obstruction
C=critial depth
D=divided flow
E=cross section extended
K=known water-surface

XS SC 05
XS SC 03
XS SC 01
XS SC 02
XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

```
DISCHARGE CHECK
---------------

XS DC 02 Constant dicharge used for the T2N-R6W-S22,T2N-R6W-S22


LOCATION CHECK
--------------

RS:      1.219
XS LC 01 Lenchl Up/TopwdthAct Dn = 1.84
         MaxChlDpth Up/MaxChlDpth Dn = 1.27
         TopwdthAct Up/TopwdthAct Dn = 1.84
         This cross section is located too far upstream from the
         critical depth cross section.


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T2N-R6W-S22,T2N-R6W-S22
         Normal S = 0.00422 is specified as the downstream boundary
         for profile Floodplain

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

T2N-R6W-S28N
CheckRAS Reports

T2N-R6W-S28N

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/21/2011
Time: 2:17:10 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N_R6W_S28N,T2N_R6W_S28N						
4.118		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
4.043		0.035	0.06	0.035	0.1	0.3
3.963		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
3.892		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
3.825		0.035	0.06	-----	0.1	0.3
		-----	0.035	-----		
3.755		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
3.7		0.035	0.035	0.06	0.1	0.3
		-----	0.06	0.035		
3.612		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
3.525		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
3.441		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
3.371		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
3.289		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
3.209		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
3.134		0.035	0.035	0.035	0.1	0.3
		-----	0.06	-----		
3.064		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
3.004		0.035	-----	-----	0.1	0.3
		0.06	-----	-----		
2.941		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
2.87		0.035	0.06	-----	0.1	0.3
		0.06	0.035	-----		
2.802		0.035	0.035	0.035	0.1	0.3
		-----	0.06	-----		
2.732		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
2.658		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
2.576		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		
2.504		0.035	0.035	-----	0.1	0.3
		-----	0.06	-----		
		-----	0.035	-----		

2.431	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
2.35	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
2.287	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
2.203	0.035	-----	-----	0.1	0.3
2.129	0.035	-----	-----	0.1	0.3
2.064	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.986	0.035	0.035	0.035	0.1	0.3
	-----	0.06	-----		
1.922	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
1.841	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.752	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.675	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.589	0.035	0.035	0.035	0.1	0.3
	-----	0.06	0.02		
	-----	0.035	0.035		
1.505	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
1.434	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.347	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
1.264	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.191	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
1.146	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.085	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
1.013	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
.944	0.035	0.06	-----	0.1	0.3
	0.06	0.035	-----		
.878	0.035	-----	-----	0.1	0.3
.806	0.035	-----	-----	0.1	0.3
	0.02	-----	-----		
	0.035	-----	-----		
.758	0.035	0.035	0.035	0.1	0.3
	0.02	0.02	-----		
	0.035	-----	-----		
.751	0.02	-----	-----	0.1	0.3
.741	0.035	-----	-----	0.1	0.3
	0.06	-----	-----		
.668	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.623	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.598	0.035	0.06	0.035	0.1	0.3

	-----	0.035	0.06		
	-----	-----	0.035		
.554	0.035	0.035	0.06	0.1	0.3
	-----	0.06	0.035		
.48	0.035	0.035	-----	0.1	0.3
	-----	0.06	-----		
	-----	0.035	-----		
.46	0.035	-----	-----	0.1	0.3
.412	0.035	0.035	0.035	0.1	0.3
	-----	0.02	-----		
	-----	0.035	-----		
	-----	0.06	-----		
.351	0.035	0.035	-----	0.1	0.3
	-----	0.02	-----		
	-----	0.035	-----		
	-----	0.06	-----		
	-----	0.035	-----		
.301	0.035	0.035	0.06	0.1	0.3
	-----	0.02	0.035		
	-----	0.035	-----		
	-----	0.06	-----		
.219	0.035	0.035	0.035	0.1	0.3
	0.02	0.06	-----		
	0.035	-----	-----		
.153	0.035	0.035	-----	0.1	0.3
	0.02	0.06	-----		
	0.035	0.035	-----		
.095	0.035	0.035	0.035	0.1	0.3
	0.02	0.06	0.06		
	0.035	-----	0.035		
.003	0.035	0.035	-----	0.1	0.3
	0.02	0.06	-----		
	0.035	0.035	-----		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.06
Right Overbank n Value:	0.02	0.06
Channel n Value:	0.02	0.06
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 4.043
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.06 The overbank n values should be reevaluated.

RS: 3.134 a
of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

RS: 2.802
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

RS: 1.986
NT RC 05 The left overbank n value of 0.035 and the right overbank n value of 0.035 are less than or equal to the channel n value of 0.035 The overbank n values should be reevaluated.

General Note *The channel has heavy vegetation therefore the overbank n-values are less.*

```
RS:       0.751
NT RC 01 Left overbank n value is less than 0.035
         The n value for overbank is usually larger then 0.035.
         The n value should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
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ROUGHNESS COEFFICIENT AT STRUCTURES
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---END---
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T2N-R6W-S28N

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/21/2011
Time: 2:21:27 PM

General Note
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N_R6W_S28N,T2N_R6W_S28N						
4.118	391.83	392.44	393.18	244.65	380	D
4.043	397.77	424.29	516.04	269.3	400	
3.963	378.7	373.85	368.14	282.13	400	
3.892	337.81	353.26	357.87	291.23	400	
3.825	365.65	371.11	369.87	381.68	400	
3.755	302.05	292.94	262.38	285.38	400	
3.7	465.2	461.11	456.32	224.76	400	
3.612	450.67	458.16	443.69	202.69	400	
3.525	449.29	443.39	445.7	191.69	400	D
3.441	332.18	373.48	389.77	179.06	400	
3.371	462.06	430.76	399.95	123.59	400	
3.289	406.52	420.37	426	167.54	400	
3.209	370.85	397.31	409.29	153.48	400	
3.134	393.42	371.42	355.6	162.41	400	
3.064	318.06	315.06	306.83	236.02	400	
3.004	345.97	335.44	336.4	127.54	400	
2.941	368.5	372.64	383.07	195.07	400	
2.87	355.99	360.9	374.5	143.2	400	
2.802	371.75	367.02	366.87	104.19	400	
2.732	372.15	391.71	377.68	270.89	400	
2.658	425.45	435.03	434.44	200.37	400	
2.576	369.67	378.87	368.02	312.24	400	
2.504	408.21	385.69	369.8	197.93	400	
2.431	430.52	427.19	422.26	210.24	400	
2.35	324.8	330.55	331.92	280.87	400	
2.287	461.97	447.74	436.94	288.23	400	
2.203	392.24	388.76	394.78	218.7	400	
2.129	342.04	344.39	351.55	270.25	400	
2.064	395.62	410.43	451.5	228.29	400	
1.986	333.19	339.31	365.05	314.33	400	
1.922	426.81	426.14	432.18	318.08	400	
1.841	485.36	472.5	462.02	241.65	400	
1.752	409.14	403.24	398.42	185.77	400	
1.675	461.55	454.06	462.18	197.11	400	
1.589	478.33	446.7	463.33	341.74	400	
1.505	368.52	371.78	368.87	237.75	400	
1.434	460.4	461.07	460.9	221.39	400	
1.347	443.2	437.94	443.29	358.83	400	
1.264	385.23	384.97	395.33	303.52	400	
1.191	235.77	235.21	234.07	298.8	400	
1.146	315.75	322.28	321.44	359.11	400	D
1.085	386.72	382.04	380.18	306.83	400	
1.013	367.28	366.66	365.06	279.33	400	
.944	341.36	348.35	339.63	256.68	400	
.878	372.99	380.41	391.6	383.6	400	
.806	231.94	252.67	265.45	435	400	
.758	38.54	34.08	122.07	600.35	400	
.751	44.32	51.55	54.31	560.2	400	D,C
.741	443.25	389	280.54	335.51	400	D
.668	250.45	238.9	263.55	435.02	400	
.623	152.97	128.52	84.07	291.04	400	B
.598	352.81	235.54	272.54	173.45	400	D,C,B
.554	404.83	390.15	323.06	346.61	400	B

"C" flow due to decrease in conveyance area at Indian School Road. Fr=0.84

Blocked out area is due to depression area and is considered non-conveyance.

Supercritical flow due to decrease in conveyance area due to depression area. Fr=1.01

Blocked out area is due to depression area and is considered non-conveyance.

"C" flows due to decrease in conveyance area due to depression area. Fr=0.88

.48	163.93	104.35	93.12	262.79	400	B
.46	216.66	255.78	270.67	103.36	400	D,C
.412	306.52	319.53	320.59	113.46	400	D
.351	263.33	264.51	262.87	90.91	400	D
.301	428.39	431.75	431.39	80.89	400	D
.219	348.47	349.92	349.7	103.36	400	
.153	305.22	305.22	329.9	199.23	400	
.095	386.56	486	533.11	160.54	400	D
.003	0	0	0	120.63	400	

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 2.431
XS DC 05 There is no flow on the right overbank at the downstream cross section. There is no flow on the left overbank at this section.

RS: 0.623
XS DC 05 There is no flow on the right overbank at the downstream cross section. There is no flow on the left overbank at this section.

RS: 0.598
XS DC 04 There is no flow on the left overbank at the downstream cross section. There is no flow on the right overbank at this section.

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T2N_R6W_S28N,T2N_R6W_S28N
Normal S = 0.0053 is specified as the downstream boundary for profile Floodplain

XS BC 03 Maximum number of iterations is 0
It should not be less than 20.

No iterations are required for slope area boundary condition.

LATERAL WEIRS CHECK

---END---

T2N-R7W-S20W
CheckRAS Reports

T2N-R7W-S20W

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 7/12/2011
Time: 4:17:41 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure	
T2N_R7W_S20W,T2N_R7W_S20W								
2.035					9860.21	10041.87		
2.035	19	0.72	9925.62	10041.84	9925.62	10041.84		
1.962					9897.57	10156.25		
1.962	19	0.67	9965.84	10036.42	9965.84	10036.42		
1.883					9862.35	10066.89		
1.883	19	0.76	9927.48	10029.13	9927.48	10029.13		
1.789					9964.09	10101.34		
1.789	19	0.97	9967.97	10035.17	9967.97	10035.17		
1.704					9866.31	10074.35		
1.704	1	0.86	9975.9	10041.78	9975.9	10041.78		
1.618					9765.81	10061.74		
1.618	19	0.95	9896.12	10029.08	9896.12	10029.08		
1.547					9890.13	10131.49		
1.547	19	0.63	9946.69	10032.31	9946.69	10032.31		
1.508					9937.51	10078.82		
1.508	19	0.8	9957.27	10041.64	9957.27	10041.64		
1.442					9889.29	10012.83		
1.442	19	0.98	9960.48	10010.79	9960.48	10010.79		
1.366					9895.82	10136.82		
1.366	19	0.89	9971.74	10088.53	9971.74	10088.53		
1.303					9904.73	10116.12		
1.303	19	0.4	9971.32	10035.8	9971.32	10035.8		
1.223					9976.9	10025.86		
1.223	1	0.95	9977	10024.32	9977	10024.32		
1.136					9881.81	10095.21		
1.136	19	0.36	9951.85	10039.16	9951.85	10039.16		
1.092					9963.26	10135.88		
1.092	19	0.31	9966.15	10115.11	9966.15	10115.11		
1.046					9974.23	10196.49		
1.046	19	0.15	9974.63	10120.04	9974.63	10120.04		
0.99					9965	10250.12		
0.99	19	0.06	9965.92	10220.22	9965.92	10220.22		
0.925					9955.42	10028.62		
0.925	19	0	9956.05	10027.48	9956.05	10027.48		
0.913					0	0	CULVERT#1-Up	
0.913					0	0	CULVERT#1-Dn	*I-10 North*
0.913	0	0	0	0	0	0	CULVERT#1-Up	
0.913	0	0	0	0	0	0	CULVERT#1-Dn	
0.902					9970.56	10026.78		
0.902	19	0	9970.65	10026.86	9970.65	10026.78		
0.888					9929.18	10095.86		
0.888	19	0	9719.55	10194.89	9929.18	10095.86		
0.879					9962.48	10030.32		
0.879	19	0	9965.11	10440.13	9965.11	10030.32		
0.868					0	0	CULVERT#1-Up	
0.868					0	0	CULVERT#1-Dn	*I-10 South*
0.868	0	0	0	0	0	0	CULVERT#1-Up	
0.868	0	0	0	0	0	0	CULVERT#1-Dn	
0.855					9974.1	10047.63		
0.855	19	0.32	9974.34	10047.55	9974.34	10047.55		
0.788					9929.52	10091.01		
0.788	19	0.45	9965.41	10039.35	9965.41	10039.35		
0.71					9974.5	10140.9		

0.71	19	0.7	9975.82	10048.49	9975.82	10048.49
0.655					9828.68	10025.51
0.655	19	0.94	9932.33	10019.3	9932.33	10019.3
0.608					9940.84	10133.93
0.608	19	0.74	9976.49	10030.06	9976.49	10030.06
0.54					9946.9	10125.14
0.54	19	0.29	9952.62	10035.06	9952.62	10035.06
0.445					9980.08	10146.45
0.445	19	0.49	9983.78	10056.25	9983.78	10056.25
0.392					9847.56	10106.85
0.392	19	0.85	9939.71	10032.03	9939.71	10032.03
0.312					9849	10041.98
0.312	19	0.7	9938.82	10020.91	9938.82	10020.91
0.238					9911.84	10083.55
0.238	19	0.88	9971.25	10045.37	9971.25	10045.37
0.189					9829.77	10186.05
0.189	19	0.57	9962.25	10036.01	9962.25	10036.01
0.135					9884.75	10182.31
0.135	19	0.63	9942.23	10011.73	9942.23	10011.73
0.073					9822.53	10104.96
0.073	19	0.87	9945.33	10034.58	9945.33	10034.58
0.008					9718.73	10025.5
0.008	19	0.95	9937.41	10032.13	9937.41	10032.13

ENCROACHMENT METHOD CHECK

RS: 0.913
FW EM 01 Floodway encroachment method is not selected at this section.

RS: 0.868
FW EM 01 Floodway encroachment method is not selected at this section.

Due to culverts at I-10.

FLOODWAY WIDTH CHECK

RS: 2.035
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.883
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.883
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.789
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.704
FW FW 03 The right channel bank station may not be at the proper location.

RS: 1.618
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 1.618
FW FW 03 The right channel bank station may not be at the proper location.

**General Note for FW 03* Bank stations were checked and verified based upon aerial photography and topography.*

```
RS:       1.442
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.303
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.303
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       1.136
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.092
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       1.092
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       1.046
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.99
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.902
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.888
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.888
FW FW 04  The left station effective of 9929.18 for 1% annual chance floodplain
          is less than the left channel bank station 9965.14
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9719.55) is outside of 1% annual
          chance floodplain.
          The left encroachment station should be adjusted.

RS:       0.888
FW FW 04  The right station effective of 10095.86 for 1% annual chance floodplain
          is greater than the right channel bank station (10039.74).
          The 1% annual chance floodplain is outside the channel.
          However, the right encroachment station (10194.89) is outside of 1% annual
          chance floodplain.
          The right encroachment station should be adjusted.

RS:       0.879
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.879
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.855
FW FW 03  The Left channel bank station may not be at the proper
          location.
```

The encroachments stations were checked and verified; Also, since this cross section is between the structures along I-10 the floodway is assumed to be equal to floodplain. The change in water surface elv between floodplain and floodway would either be above 1.0 or be negative surcharge by using Method 4 to get 1 foot of surcharge, therefore, the FP was set to equal FW.

```
RS:       0.855
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.71
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.445
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.392
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.312
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.189
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.073
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.008
FW FW 03  The Left channel bank station may not be at the proper
          location.


SURCHARGE CHECK
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DISCHARGE CHECK
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STARTING WATER-SURFACE ELEVATION CHECK
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---END---
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T2N-R7W-S20W

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain;Floodway
Date: 7/12/2011
Time: 4:12:44 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N_R7W_S20W,T2N_R7W_S20W						
2.035		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
1.962		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
1.883		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
1.789		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.044	-----		
1.704		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
1.618		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
1.547		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
1.508		0.044	0.072	-----	0.1	0.3
		-----	0.044	-----		
1.442		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.044		
1.366		0.044	0.072	0.044	0.1	0.3
1.303		0.044	0.072	-----	0.1	0.3
		-----	0.058	-----		
1.223		0.044	0.072	-----	0.1	0.3
		0.072	0.058	-----		
1.136		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.044		
1.092		0.044	0.044	-----	0.1	0.3
		-----	0.072	-----		
		-----	0.044	-----		
1.046		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
.99		0.044	0.072	-----	0.3	0.5
		0.072	0.058	-----		
		-----	0.072	-----		
		-----	0.044	-----		
.925		0.044	-----	-----	0.3	0.5
		0.072	-----	-----		
.913	Culvert-Up	0.044	-----	-----	0.3	0.5
		0.072	-----	-----		
.913	Culvert-Dn	0.052	-----	-----	0.3	0.5
		0.058	-----	-----		
.902		0.052	-----	-----	0.3	0.5
		0.058	-----	-----		
.888		0.052	-----	-----	0.3	0.5
		0.058	-----	-----		
.879		0.052	-----	-----	0.3	0.5
		0.058	-----	-----		
.868	Culvert-Up	0.052	-----	-----	0.3	0.5
		0.058	-----	-----		
.868	Culvert-Dn	0.042	0.065	0.046	0.3	0.5
		0.065	0.046	0.042		
.855		0.042	0.046	-----	0.3	0.5
		0.065	0.042	-----		

To account for structures at I-10.

	0.046	-----	-----		
.788	0.042	0.065	0.065	0.2	0.4
	0.065	0.046	0.042		
	-----	0.065	-----		
.71	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
.655	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
.608	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
.54	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.445	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		
.392	0.042	0.065	0.042	0.1	0.3
	0.046	0.046	-----		
	0.065	0.065	-----		
	0.042	-----	-----		
.312	0.042	0.065	0.042	0.1	0.3
	0.046	0.046	-----		
	0.065	0.065	-----		
	0.042	-----	-----		
	0.065	-----	-----		
.238	0.042	0.065	0.065	0.1	0.3
	0.046	0.046	0.042		
	0.065	0.065	-----		
	0.042	-----	-----		
	0.065	-----	-----		
.189	0.042	0.065	0.042	0.1	0.3
	0.046	0.046	-----		
	0.065	0.065	-----		
	0.042	-----	-----		
.135	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
.073	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
.008	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		

To account for sudden decrease in conveyance area.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.042	0.072
Right Overbank n Value:	0.042	0.072
Channel n Value:	0.042	0.072
Contraction Coefficient:	0.1	0.3
Expansion Coefficient:	0.3	0.5

General Note for RC 05
The channel has heavy vegetation therefore the overbank n-values are less.

ROUGHNESS COEFFICIENT CHECK

RS: 1.366
NT RC 05 The left overbank n value of 0.044 and the right overbank n value of 0.044 are less than or equal to the channel n value of 0.072 The overbank n values should be reevaluated.

```
RS:       0.54
NT RC 05 The left overbank n value of 0.042 and the right overbank n value
         of 0.042 are less than or equal to the channel n value of 0.046
         The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
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RS:       0.788
NT TL 02 Contraction and expansion loss coefficients are 0.2 and 0.4
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES
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---END---
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To account for sudden decrease in conveyance area.

T2N-R7W-S20W

**General Note for "D"* There are several cross sections showing divided flow, but they are isolated islands.*

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain;Floodway
Date: 11/11/2011
Time: 10:43:57 AM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N_R7W_S20W,T2N_R7W_S20W						
2.035	377.66	383.24	381.4	181.66	1400	
1.962	411.81	416.45	415.42	258.67	1400	
1.883	444.1	497.55	496.03	204.54	1400	
1.789	451.42	448.3	445.17	137.24	1400	
1.704	442.06	453.3	464.55	208.05	1400	
1.618	347.2	377.02	363.4	295.93	1400	
1.547	227.68	207.07	171.84	241.37	1400	
1.508	321.74	347.22	341.44	141.31	1400	
1.442	435.11	401.38	338.24	123.54	1400	
1.366	299.1	330.36	327.58	241	1400	
1.303	402.49	422.17	430.44	211.5	1400	
1.223	388.99	460.46	482.28	48.85	1400	
1.136	236.18	234.22	186.35	213.48	1400	
1.092	239.48	241.54	233	172.5	1400	
1.046	296	296.78	273.05	222.41	1400	
.99	371.17	342.6	364.59	285.6	1400	
.925	112.76	119.65	122.4	63.39	1400	
.913	CULVERT#1-Up					
.913	CULVERT#1-Dn					
.902	73.68	76.73	64	48.68	1400	
.888	39.09	44.53	56.15	166.68	1400	
.879	122.34	129.39	123.7	57.61	1400	
.868	CULVERT#1-Up					
.868	CULVERT#1-Dn					
.855	320.26	352.21	411.35	66.97	1400	
.788	441.45	413.09	367.38	161.49	1400	
.71	267.47	287.8	309.48	166.4	1400	
.655	227.38	247.85	238.49	196.83	1400	
.608	358.75	362.86	370.66	193.1	1400	
.54	426.3	497.78	457.58	178.24	1400	
.445	284.74	281.52	260.74	132.04	1400	D
.392	396.4	424.55	439.95	228.81	1400	D
.312	384.34	388.4	376.51	192.98	1400	
.238	275.28	261.11	244.57	171.71	1400	
.189	279.64	281.04	279.67	356.28	1400	
.135	329.51	329.64	319.33	250.47	1400	D
.073	318.25	343.1	339.21	267.43	1400	D
.008	42	42	42	306.77	1400	

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

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INEFFECTIVE FLOW CHECK
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DISCHARGE CHECK
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XS DC 02 Constant dicharge used for the T2N_R7W_S20W,T2N_R7W_S20W


LOCATION CHECK
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BOUNDARY CONDITION CHECK
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XS BC 02 The name of the stream is T2N_R7W_S20W,T2N_R7W_S20W
         Normal S = 0.0066 is specified as the downstream boundary
         for profile Floodplain

XS BC 02 The name of the stream is T2N_R7W_S20W,T2N_R7W_S20W
         Normal S = 0.0066 is specified as the downstream boundary
         for profile Floodway

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
-----------------------


---END---
```

No iterations are required for slope area boundary condition.

T2N-R7W-S32E
CheckRAS Reports

T2N-R7W-S32E

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/8/2011
Time: 8:15:19 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N_R7W_S32E,T2N_R7W_S32E						
2.386		0.02	-----	-----	0.3	0.5
		0.042	-----	-----		
		0.065	-----	-----		
2.374		0.042	-----	-----	0.3	0.5
		0.065	-----	-----		
2.287		0.042	0.042	0.065	0.1	0.3
		-----	0.065	0.042		
2.221		0.042	0.042	0.042	0.1	0.3
		-----	0.046	0.065		
		-----	0.065	0.042		
		-----	0.042	-----		
2.15		0.042	0.046	0.042	0.1	0.3
		-----	0.065	0.065		
		-----	-----	0.046		
		-----	-----	0.065		
		-----	-----	0.042		
2.095		0.042	0.046	0.065	0.1	0.3
		-----	0.065	0.042		
		-----	-----	0.065		
		-----	-----	0.046		
		-----	-----	0.065		
		-----	-----	0.042		
2.02		0.042	0.046	0.065	0.1	0.3
		-----	0.065	0.042		
		-----	-----	0.065		
		-----	-----	0.046		
		-----	-----	0.065		
		-----	-----	0.042		
1.955		0.042	0.042	0.065	0.1	0.3
		-----	0.046	0.042		
		-----	0.065	0.065		
		-----	-----	0.046		
		-----	-----	0.065		
		-----	-----	0.042		
1.862		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.046	-----		
		-----	0.065	-----		
		-----	0.042	-----		
1.798		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.046	-----		
		-----	0.065	-----		
		-----	0.042	-----		
1.73		0.042	0.065	0.042	0.1	0.3
		-----	0.046	-----		
		-----	0.065	-----		
1.663		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.046	-----		
		-----	0.065	-----		
		-----	0.042	-----		
1.579		0.042	0.042	0.042	0.1	0.3

Very clean, smooth, well-maintained paved road. Road approximately 40 ft wide and parallel to cross section.

I-10 North and South

	-----	0.065	-----		
	-----	0.046	-----		
	-----	0.065	-----		
1.529	0.042	0.042	0.042	0.1	0.3
	-----	0.065	-----		
	-----	0.046	-----		
	-----	0.065	-----		
1.471	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
1.405	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
1.393	0.042	-----	-----	0.1	0.3
	0.02	-----	-----		
1.381	0.042	0.065	0.046	0.1	0.3
	0.02	0.046	0.065		
	0.042	0.065	0.042		
1.326	0.042	0.065	0.046	0.1	0.3
	-----	0.046	0.065		
	-----	0.065	0.042		
	-----	0.046	-----		
1.237	0.065	0.065	0.046	0.1	0.3
	0.042	0.046	0.065		
	0.065	0.065	0.042		
1.171	0.065	0.065	0.046	0.1	0.3
	-----	0.046	0.065		
	-----	0.065	0.042		
	-----	0.046	-----		
1.088	0.065	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
1.002	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.935	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.862	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.785	0.042	0.065	0.042	0.1	0.3
.713	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.626	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
.515	0.042	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
.438	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.347	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
.3	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
.255	0.042	0.065	0.042	0.1	0.3
	-----	0.046	-----		
	-----	0.065	-----		
.197	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		

Very clean, smooth, well-maintained paved road. Road approximately 40 ft wide and parallel to cross section.

	-----	0.065	-----		
.144	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
.081	0.042	0.065	0.042	0.1	0.3
	-----	0.046	0.065		
	-----	0.065	0.046		
	-----	-----	0.065		
	-----	-----	0.042		
0	0.042	0.065	0.042	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.065
Right Overbank n Value:	0.042	0.065
Channel n Value:	0.042	0.065
Contraction Coefficient:	0.1	0.3
Expansion Coefficient:	0.3	0.5

ROUGHNESS COEFFICIENT CHECK

RS: 1.73
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.046 The overbank n values should be reevaluated.

RS: 1.579
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.042 The overbank n values should be reevaluated.

RS: 1.529
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.042 The overbank n values should be reevaluated.

RS: 1.471
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.046 The overbank n values should be reevaluated.

RS: 1.002
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.046 The overbank n values should be reevaluated.

RS: 0.935
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.046 The overbank n values should be reevaluated.

RS: 0.862
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.046 The overbank n values should be reevaluated.

RS: 0.785
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.065 The overbank n values should be reevaluated.

General Note
The channel has heavy vegetation therefore overbank n-values are less.

```
RS:       0.713
NT RC 05 The left overbank n value of 0.042 and the right overbank n value
         of 0.042 are less than or equal to the channel n value of 0.046
         The overbank n values should be reevaluated.

RS:       0.438
NT RC 05 The left overbank n value of 0.042 and the right overbank n value
         of 0.042 are less than or equal to the channel n value of 0.046
         The overbank n values should be reevaluated.

RS:       0.255
NT RC 05 The left overbank n value of 0.042 and the right overbank n value
         of 0.042 are less than or equal to the channel n value of 0.046
         The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK
---------------------------------

RS:       2.386                                                    I-10 North
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

RS:       2.374                                                    I-10 South
NT TL 02 Contraction and expansion loss coefficients are 0.3 and 0.5
         respectively. However, this cross section is not at the structure.
         They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES
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---END---
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T2N-R7W-S32E

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/8/2011
Time: 8:35:02 AM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N_R7W_S32E,T2N_R7W_S32E						
2.386	51.32	60.56	73.59	89.68	6380	C
2.374	457.15	461.11	491.62	174.47	6380	
2.287	289.3	346.19	364.92	823.54	6970	
2.221	331.05	374.97	417.21	1044.71	6970	
2.15	258.7	289.81	304.93	969.74	6970	
2.095	423.17	398.84	409.05	1071.1	6970	
2.02	340.71	340.44	390.51	835.01	6970	D
1.955	314.26	495.34	338.62	1168.32	6970	D
1.862	341.57	337.77	325.13	1111.16	6970	
1.798	357.01	356.5	338.48	1022.31	6970	D
1.73	366.51	352.05	347.17	591.98	6970	
1.663	420.69	443.53	476.29	752.44	6970	
1.579	281.92	265.99	262.29	1121.06	6970	
1.529	297.24	308.42	308.26	1269.22	6970	D
1.471	426.34	345.59	311.19	1650.02	6970	
1.405	206.56	63.91	64.47	1150.73	6970	D,C
1.393	57.12	61.82	68.97	1472.66	6970	D
1.381	66.03	291.57	328.06	1054.78	6970	D,B
1.326	464.93	469.25	395.44	953.12	2590	D,B
1.237	356.07	347.85	324.52	734.14	2590	
1.171	440.73	442.08	402.57	543.33	2590	
1.088	458.32	452.58	452.32	444.82	2590	D
1.002	350.39	352.1	359.78	443.53	2590	
.935	386.22	386.58	395.64	646.24	2590	
.862	403.74	405.08	422.32	681.33	2590	
.785	380.4	380	380.69	904.09	2590	
.713	458.91	459.48	467.56	680.65	2590	
.626	588.58	589.73	591.33	594.32	2590	
.515	402.97	401.74	406.47	531.22	2590	
.438	491.23	485.37	482.09	635.5	2590	
.347	243.03	244.57	243.97	410.89	2590	C
.3	231.27	240.04	232.29	357.68	2590	D
.255	299.38	307.07	300.84	310.93	2590	
.197	278.56	278.69	280.52	357.8	2700	D
.144	328.05	331.77	365.83	404.99	2700	
.081	373.34	427.76	536.81	570.51	3920	D
0	327.43	359.06	406.68	440.97	3920	D

"C" flow due to sudden decrease in flow area at the I-10 South culvert. Fr=0.98

Truly supercritical; Fr=1.04

Blocked area due to structure in the middle of floodzone.

"C" flow due to sudden decrease in flow area. Fr=0.62

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 1.326
XS DC 01 Discharge decreases in the downstream direction. *Hydrology split west.*

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T2N_R7W_S32E,T2N_R7W_S32E
Normal S = 0.00456 is specified as the downstream boundary
for profile Floodplain

XS BC 03 Maximum number of iterations is 0 *No iterations are required for slope area boundary condition.*
It should not be less than 20.

LATERAL WEIRS CHECK

---END---

T2N-R7W-S35W
CheckRAS Reports

T2N-R7W-S35W

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/12/2011
Time: 3:56:57 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T2N-R7W-S35W,T2N-R7W-S35W						
3.752		0.042	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.042	-----	-----		
3.663		0.042	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.042	-----	-----		
3.608		0.042	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.042	-----	-----		
3.563		0.042	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
3.499		0.042	-----	-----	0.1	0.3
		0.02	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
3.446		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.385		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.336		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.243		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.179		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.127		0.042	0.065	-----	0.1	0.3
		0.065	0.042	-----		
3.037		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.042	-----		
2.924		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.042	-----		
2.842		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.042	-----		
2.768		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.042	-----		
2.694		0.042	0.042	-----	0.1	0.3
		-----	0.065	-----		
		-----	0.042	-----		
2.639		0.042	0.042	0.042	0.1	0.3
		-----	0.065	0.065		
		-----	0.042	0.042		
2.562		0.042	0.042	-----	0.1	0.3

Very clean, smooth, well-maintained paved road approximately 50 feet wide.

	-----	0.065	-----		
	-----	0.042	-----		
2.486	0.042	0.042	-----	0.1	0.3
	-----	0.065	-----		
	-----	0.042	-----		
2.411	0.042	0.065	0.042	0.1	0.3
2.333	0.042	0.042	-----	0.1	0.3
	-----	0.065	-----		
	-----	0.042	-----		
2.258	0.042	0.042	-----	0.1	0.3
	-----	0.065	-----		
	-----	0.042	-----		
2.152	0.042	0.042	0.065	0.1	0.3
	-----	0.065	0.042		
2.084	0.042	0.042	-----	0.1	0.3
	0.065	0.065	-----		
	0.042	0.042	-----		
1.989	0.042	0.065	-----	0.1	0.3
	0.065	0.042	-----		
1.895	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
1.779	0.065	-----	-----	0.1	0.3
	0.042	-----	-----		
1.713	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
1.644	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
1.584	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
1.511	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
1.433	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
1.358	0.042	0.065	0.042	0.1	0.3
1.271	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
1.193	0.042	0.042	-----	0.1	0.3
	-----	0.065	-----		
	-----	0.042	-----		
1.117	0.042	0.042	0.065	0.1	0.3
	-----	0.065	0.042		
1.047	0.042	0.065	-----	0.1	0.3
	-----	0.042	-----		
.965	0.042	0.065	-----	0.1	0.3
	-----	0.042	-----		
.869	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.795	0.042	0.042	-----	0.1	0.3
	-----	0.065	-----		
	-----	0.042	-----		
.731	0.042	0.042	-----	0.1	0.3
	0.065	0.065	-----		
	0.042	0.042	-----		
.672	0.042	0.065	-----	0.1	0.3
	0.065	0.042	-----		
.595	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
.529	0.042	0.065	0.065	0.1	0.3
	-----	-----	0.042		
	-----	-----	0.02		
	-----	-----	0.042		
.429	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.02		

Very clean, smooth, well-maintained dirt road approximately 30 feet wide.

	-----	-----	0.042		
.337	0.042	0.042	-----	0.1	0.3
	0.02	0.065	-----		
	0.042	0.042	-----		
.231	0.042	0.042	-----	0.1	0.3
	0.02	0.065	-----		
	0.042	0.042	-----		
	0.046	-----	-----		
	0.042	-----	-----		
.158	0.042	-----	-----	0.1	0.3
	0.046	-----	-----		
	0.042	-----	-----		
	0.046	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
.086	0.042	-----	-----	0.1	0.3
	0.046	-----	-----		
	0.042	-----	-----		
	0.046	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
.01	0.042	0.046	0.042	0.1	0.3
	0.046	0.065	-----		
0	0.02	-----	-----	0.1	0.3
	-----	-----	0.042		

Very clean, smooth, well-maintained dirt road approximately 30 feet wide.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.065
Right Overbank n Value:	0.02	0.065
Channel n Value:	0.042	0.065
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 2.411
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.065 The overbank n values should be reevaluated.

RS: 1.358
NT RC 05 The left overbank n value of 0.042 and the right overbank n value of 0.042 are less than or equal to the channel n value of 0.065 The overbank n values should be reevaluated.

The channel has heavy vegetation therefore the overbank n-values are less.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T2N-R7W-S35W

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/12/2011
Time: 4:06:51 PM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T2N-R7W-S35W,T2N-R7W-S35W						
3.752	440.17	470.2	482.31	1377.91	6970	D
3.663	303.07	289.51	316.99	1999.13	6970	D
3.608	339.53	235.81	227.3	1850.91	6970	D,C
3.563	384.92	337.95	328.52	2287.27	6970	D
3.499	278.06	281	274.64	2792.18	6970	D
3.446	302.06	322.25	353.8	2846.99	6970	
3.385	311.25	257.91	386.93	2908.38	6970	D
3.336	433.91	492.6	458.84	2499.85	6970	D,B
3.243	345.09	337.38	309.07	2163.53	6970	
3.179	256.37	275.07	293.71	1526.14	4380	
3.127	456.65	477.07	434.18	1802.56	4380	D,B
3.037	519.44	596.62	672.6	2025.01	4380	D
2.924	425.85	428.55	369.98	2228.99	4380	D
2.842	350.74	395.18	415.74	1805.07	4380	D
2.768	333.44	387.95	411.55	1499.6	4380	D
2.694	306.63	288.77	313.4	1229.81	4380	D
2.639	271.25	411.04	459.71	1369.43	4380	D
2.562	400.57	398.34	405.7	1217.66	4380	
2.486	414.66	397.42	384.67	1294.35	4380	D,B
2.411	459.24	410.45	323.01	1198.25	4380	D
2.333	423.55	399.19	408.52	1055.92	4380	D
2.258	581.6	555.58	408.84	1900.36	4380	D
2.152	424.76	360.84	447.68	1962.77	4380	D
2.084	503.67	503.6	490.1	2151.32	4380	D
1.989	458.05	492.45	513.05	2309.53	4380	D,B
1.895	547.34	615.59	638.34	1907.27	4380	
1.779	370.57	347.45	329.15	1986.73	4380	D
1.713	413.14	363.71	502.97	1874.4	4570	D
1.644	341.15	315.64	404.94	2272.3	4570	D
1.584	375.58	387.45	338.73	2285.43	4570	D
1.511	348.28	410.77	343.81	2099.39	4570	D
1.433	440.87	397.21	358.63	1725.01	4570	D
1.358	475.67	460.61	447.91	1062.17	4570	D
1.271	367.4	411.1	504.9	1195.23	4570	D
1.193	331.71	398.2	454.73	1533.1	4570	D
1.117	390.49	369.73	348.12	1585.75	4570	D
1.047	427.48	433.87	414.09	1433.61	4570	D
.965	471.9	506.19	533.11	996.22	4570	
.869	382.81	392.5	388.26	770.67	4570	
.795	347.77	336.45	282.19	811.21	4570	D
.731	287.92	311.35	330.99	869.16	4570	
.672	390.97	409.49	344.5	969.56	4570	
.595	344.6	348.13	403.21	1024.15	4570	D
.529	538.65	528.62	451.22	786.75	4570	
.429	447.57	485.81	433.64	1055.03	4570	
.337	537.99	558.71	550.55	1008.9	4570	D
.231	326.97	383.08	365.7	730.08	4570	
.158	244.99	383.61	475.33	892.37	4570	
.086	215.42	400.22	379.42	939.55	4570	D,C,B
.01	55.47	51.74	45.35	1134.03	4570	D
0	236.24	268.55	196.35	931.6	4570	

"C" flow due to sudden decrease in conveyance area. Fr=0.63

Blocked due to structure in floodzone.

"C" flow due to sudden decrease in conveyance area. Fr=0.21

Blocked due to structure in floodzone.

B=blocked obstruction XS SC 05

```
C=critial depth            XS SC 03
D=divided flow             XS SC 01
E=cross section extended   XS SC 02
K=known water-surface      XS SC 04


DISTANCE CHECK
----------------

RS:      3.385
XS DT 01 Both right and left overbank distances are
         longer than the channel distance.

RS:      2.152
XS DT 01 Both right and left overbank distances are
         longer than the channel distance.


SPACING CHECK
--------------


INEFFECTIVE FLOW CHECK
----------------------


DISCHARGE CHECK
----------------

RS:      3.179
XS DC 01 Discharge decreases in the downstream direction.


LOCATION CHECK
--------------


BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T2N-R7W-S35W,T2N-R7W-S35W
         Normal S = 0.0025 is specified as the downstream boundary
         for profile Floodplain

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.


LATERAL WEIRS CHECK
----------------------

---END---
```

Left and right overbank distance were checked and verified.

Hydrology split to the west.

No iterations are required for slope area boundary condition.

T3N-R6W-S27W
CheckRAS Reports

T3N-R6W-S27W

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 6/16/2011
Time: 9:31:04 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T3N-R6W-S27W,T3N-R6W-S27W						
1.675		0.044	0.044	-----	0.1	0.3
		-----	0.058	-----		
		-----	0.044	-----		
1.612		0.044	-----	-----	0.1	0.3
		0.058	-----	-----		
1.586		0.044	0.044	-----	0.1	0.3
		-----	0.058	-----		
		-----	0.044	-----		
1.516		0.044	0.058	-----	0.1	0.3
		0.058	0.044	-----		
1.449		0.044	0.072	0.058	0.1	0.3
		0.072	0.058	0.044		
1.354		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.044		
		-----	0.058	-----		
		-----	0.072	-----		
1.298		0.044	0.058	0.044	0.1	0.3
		0.072	0.072	-----		
1.219		0.044	0.044	0.044	0.1	0.3
		-----	0.072	-----		
		-----	0.058	-----		
		-----	0.072	-----		
1.149		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.044		
		-----	0.058	-----		
		-----	0.072	-----		
1.11		0.044	0.072	-----	0.1	0.3
		0.072	0.058	-----		
		-----	0.072	-----		
		-----	0.044	-----		
1.04		0.044	0.072	0.044	0.1	0.3
		0.058	0.058	-----		
		0.044	0.072	-----		
		0.058	-----	-----		
		0.044	-----	-----		
.96		0.044	0.072	0.058	0.1	0.3
		0.058	0.058	0.044		
		0.072	-----	-----		
.897		0.044	0.044	0.058	0.1	0.3
		0.058	0.058	0.044		
		0.044	-----	-----		
.847		0.044	0.044	0.044	0.1	0.3
		0.058	0.058	-----		
		0.044	-----	-----		
.777		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	-----		
.715		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	-----		
.656		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	-----		

.568	0.044	0.058	-----	0.1	0.3
	0.058	0.044	-----		
.517	0.044	-----	-----	0.1	0.3
	0.058	-----	-----		
.46	0.044	-----	-----	0.1	0.3
	0.058	-----	-----		
.409	0.044	0.044	0.058	0.1	0.3
	-----	0.058	0.044		
	-----	-----	0.058		
	-----	-----	0.044		
.357	0.04	0.044	0.044	0.1	0.3
	0.044	0.058	0.058		
	-----	0.044	0.044		
.279	0.04	0.055	0.04	0.1	0.3
	0.02	0.04	0.044		
	0.04	-----	-----		
	0.055	-----	-----		
.203	0.04	0.055	0.04	0.1	0.3
	0.02	0.04	0.044		
	0.04	-----	-----		
	0.055	-----	-----		
	0.04	-----	-----		
	0.055	-----	-----		
.114	0.046	-----	-----	0.1	0.3
	0.055	-----	-----		
.073	0.04	-----	-----	0.1	0.3
	0.055	-----	0.04		
	0.04	-----	-----		
	0.055	-----	-----		

Very clean, smooth, well-maintained dirt road; approximate roadway width is 30 feet.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.072
Right Overbank n Value:	0.04	0.072
Channel n Value:	0.04	0.072
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 1.219

NT RC 05 The left overbank n value of 0.044 and the right overbank n value of 0.044 are less than or equal to the channel n value of 0.044 The overbank n values should be reevaluated.

The channel has heavy vegetation therefore the overbank n-values are less.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T3N-R6W-S27W

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

Selected profiles: Floodplain
Date: 6/16/2011
Time: 9:34:16 AM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T3N-R6W-S27W,T3N-R6W-S27W						
1.675	360.59	332.52	321.29	99.05	1980	
1.612	131.62	137.992	145.025	60.81	1980	
1.586	379.03	367.46	337.1	108.84	1980	
1.516	344.188	355.142	366.762	75.13	1980	
1.449	489.837	497.889	499.077	105.48	1980	
1.354	324.928	299.331	240.351	128.82	1980	
1.298	364.66	414.31	437.92	177.75	1980	
1.219	328.098	370.093	389.834	206.3	1980	
1.149	224.38	207.863	188.869	282.78	1980	
1.11	400.32	370.47	360.31	292.36	1980	
1.04	399.41	421	385.35	864.67	1980	
.96	342.13	332.17	304.79	726.37	1980	
.897	243.86	266.62	280.67	756.06	1980	D
.847	316.77	366.59	381.41	687.97	1980	
.777	305.35	327.38	327.32	763.3	1980	
.715	303.47	309.54	289.52	796.11	1980	D
.656	428.21	467.26	461.55	946.42	1980	D
.568	237.753	268.002	271.508	992.13	2700	
.517	274.98	300.61	313.46	1020.95	2700	
.46	266.832	268.931	205.641	1043.94	2700	
.409	302.59	277.12	192.74	1129.37	2700	
.357	455.84	412.33	333.48	1332.26	2700	D
.279	391.23	397.63	376.92	1719.73	2700	
.203	453.671	469.874	347.039	1369.02	2700	D
.114	331	219.12	131.57	1136.66	2700	D
.073	0	0	0	1292.85	2700	D

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

LOCATION CHECK

```
BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is T3N-R6W-S27W,T3N-R6W-S27W
         Normal S = 0.011 is specified as the downstream boundary
         for profile Floodplain

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

T3N-R6W-S32
CheckRAS Reports

T3N-R6W-S32

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles:
Date: 7/21/2011
Time: 4:58:28 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T3N-R6W-S32,T3N-R6W-S32						
.886		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.834		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.762		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.675		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.044		
.609		0.044	0.044	0.072	0.1	0.3
		-----	0.072	0.044		
.565		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
.476		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.427		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.366		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
.275		0.044	0.044	0.044	0.1	0.3
		-----	0.072	-----		
.227		0.044	0.072	0.072	0.1	0.3
		0.072	-----	0.044		
		0.058	-----	-----		
		0.072	-----	-----		
		0.044	-----	-----		
.188		0.044	0.044	0.044	0.1	0.3
		0.072	0.072	-----		
		0.058	-----	-----		
		0.072	-----	-----		
		0.044	-----	-----		
.148		0.044	0.072	0.044	0.1	0.3
		0.072	0.058	-----		
		-----	0.072	-----		
.079		0.044	0.072	0.072	0.1	0.3
		0.072	0.058	0.044		
		-----	0.072	-----		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.044	0.072
Right Overbank n Value:	0.044	0.072
Channel n Value:	0.044	0.072
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 0.275
NT RC 05 The left overbank n value of 0.044 and the right overbank n value

The channel has heavy vegetation therefore the overbank n-values are less.

of 0.044 are less than or equal to the channel n value of 0.044

The overbank n values should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T3N-R6W-S32

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

**General Note for "D"* There are several cross sections showing divided flow, but they are isolated islands.*

Selected profiles:
Date: 7/21/2011
Time: 5:00:25 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T3N-R6W-S32,T3N-R6W-S32						
.886	233.35	273.4	283.47	329.1	1180	
.834	391.049	378.187	368.434	112.82	470	
.762	481.611	459.188	463.215	229.24	470	
.675	337.11	351.2	354.95	283.05	470	
.609	252.27	233.12	230.39	254.09	470	
.565	475.61	466.92	464	472.81	470	
.476	218.14	257.56	269.64	250.76	160	D
.427	322.28	326.77	344.28	95.59	160	D
.366	491.12	475.29	458.77	89.84	160	
.275	263.39	256.11	253.6	610.22	470	D
.227	188.6	204.01	218.71	336.12	470	D
.188	280.18	215.26	189.65	404.59	470	D
.148	301.07	362.1	358.59	209.02	470	D
.079	0	0	0	208.72	470	D

B=blocked obstruction
C=critial depth
D=divided flow
E=cross section extended
K=known water-surface

XS SC 05
XS SC 03
XS SC 01
XS SC 02
XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

RS: 0.834
XS DC 01 Discharge decreases in the downstream direction.

RS: 0.476
XS DC 01 Discharge decreases in the downstream direction.

Incidental split west: "T3N-R6W-S32-Split 1". See App. E for supporting documentation.

Incidental split east: "T3N-R6W-S32-Split 2". See App. E for supporting documentation.

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T3N-R6W-S32,T3N-R6W-S32

```
        Normal S = 0.0094 is specified as the downstream boundary
        for profile dummy profile

XS BC 03 Maximum number of iterations is 0
        It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

T3N-R6W-S33
CheckRAS Reports

T3N-R6W-S33

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain
Date: 7/12/2011
Time: 3:50:33 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T3N-R6W-S33,T3N-R6W-S33						
.575		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.542		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.471		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.403		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
.338		0.044	0.072	0.072	0.1	0.3
		-----	-----	0.044		
.271		0.044	0.072	-----	0.1	0.3
		0.072	0.044	-----		
.207		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.141		0.044	0.044	0.072	0.1	0.3
		0.072	0.072	0.044		
		0.044	-----	-----		
.088		0.044	-----	-----	0.1	0.3
		0.072	-----	-----		
.001		0.044	0.072	-----	0.1	0.3
		0.072	0.058	-----		
		-----	0.072	-----		
		-----	0.044	-----		

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.044	0.072
Right Overbank n Value:	0.044	0.072
Channel n Value:	0.044	0.072
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T3N-R6W-S33

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain
Date: 7/12/2011
Time: 3:53:35 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T3N-R6W-S33,T3N-R6W-S33						
.575	151.93	174.26	156.93	284.54	1880	
.542	375.94	375.83	377.55	240.08	1880	
.471	344.078	358.121	371.77	230.87	1880	
.403	327.845	343.432	356.798	200.54	1880	
.338	341.03	351.702	323.451	217.07	1880	
.271	325.65	341.54	329.97	294.89	1880	D
.207	342.753	346.462	327.507	213.52	1880	
.141	288.766	281.181	277.663	257.8	1880	
.088	479.9	458.87	420	289.98	1880	D
.001	0	0	0	235.56	1880	

Divided flow is due to isolated islands which are included in the final floodplain.

B=blocked obstruction XS SC 05
C=critical depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

XS DC 02 Constant discharge used for the T3N-R6W-S33,T3N-R6W-S33

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T3N-R6W-S33,T3N-R6W-S33
Normal S = 0.01143 is specified as the downstream boundary
for profile Floodplain

XS BC 03 Maximum number of iterations is 0
It should not be less than 20.

No iterations are required for slope area boundary condition.

LATERAL WEIRS CHECK

---END---

T3N-R6W-S35
CheckRAS Reports

T3N-R6W-S35

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: Floodplain;Floodway
Date: 7/21/2011
Time: 4:18:21 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
T3N-R6W-S35,T3N-R6W-S35						
.676		0.037	0.066	0.037	0.1	0.3
		-----	0.037	0.066		
		-----	-----	0.037		
.59		0.037	-----	-----	0.1	0.3
.531		0.037	-----	-----	0.2	0.4
.474		0.037	-----	-----	0.2	0.4
.426		0.037	-----	-----	0.1	0.3
.353		0.066	0.066	-----	0.1	0.3
		-----	0.037	-----		
.293		0.037	0.066	-----	0.1	0.3
		0.066	0.037	-----		
.26		0.037	0.037	-----	0.1	0.3
		-----	0.066	-----		
		-----	0.037	-----		
.223		0.037	0.037	-----	0.1	0.3
		-----	0.066	-----		
		-----	0.037	-----		
.171		0.037	0.037	0.066	0.1	0.3
		-----	0.066	0.037		
.127		0.037	0.037	-----	0.1	0.3
		-----	0.066	-----		
		-----	0.037	-----		
.098		0.037	-----	-----	0.1	0.3
		0.066	-----	-----		
.055		0.037	0.066	-----	0.1	0.3
		0.066	0.037	-----		
.01		0.037	-----	-----	0.1	0.3
		0.066	-----	0.037		

To account for sudden decrease in conveyance area at x-section 0.426.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.037	0.066
Right Overbank n Value:	0.037	0.066
Channel n Value:	0.037	0.066
Contraction Coefficient:	0.1	0.2
Expansion Coefficient:	0.3	0.4

ROUGHNESS COEFFICIENT CHECK

TRANSITION LOSS COEFFICIENT CHECK

RS: 0.531
NT TL 02 Contraction and expansion loss coefficients are 0.2 and 0.4 respectively. However, this cross section is not at the structure. They should be equal to 0.1 and 0.3.

RS: 0.474
NT TL 02 Contraction and expansion loss coefficients are 0.2 and 0.4

To account for sudden decrease in conveyance area at x-section 0.426.

respectively. However, this cross section is not at the structure.
They should be equal to 0.1 and 0.3.

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

T3N-R6W-S35

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: Floodplain;Floodway
Date: 7/27/2011
Time: 6:45:02 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
T3N-R6W-S35,T3N-R6W-S35							
0.676					9792.11	10281.2	
0.676	19	0.95	9896.05	10033.44	9896.05	10033.44	
0.59					9580.7	10246.19	
0.59	1	0.63	9888.6	10015.05	9888.6	10015.05	
0.531					9443.93	10078.68	
0.531	19	0.4	9899.31	10039.63	9899.31	10039.63	
0.474					9424.46	10040.43	
0.474	19	0.52	9933.93	10038.24	9933.93	10038.24	
0.426					9983.84	10038.95	
0.426	19	0.04	9985.04	10031.21	9985.04	10031.21	
0.353					9988.89	10070.74	
0.353	19	0.91	9991.27	10041.22	9991.27	10041.22	
0.293					9904.11	10053.78	
0.293	19	0.94	9959.87	10012.35	9959.87	10012.35	
0.26					9916.17	10110.31	
0.26	1	0.87	9966.5	10057.51	9966.5	10057.51	
0.223					9942.25	10057.62	
0.223	19	0.84	9971.75	10026.75	9971.75	10026.75	
0.171					9968.55	10035.87	
0.171	19	0.85	9975.72	10016.89	9975.72	10016.89	
0.127					9970.72	10128.43	
0.127	19	0.37	9982.26	10064.66	9982.26	10064.66	
0.098					9958.35	10053.29	
0.098	19	0.14	9972.62	10016.98	9972.62	10016.98	
0.055					9977.78	10028.11	
0.055	19	0.21	9979.99	10027.83	9979.99	10027.83	
0.01					9939.25	10080.29	
0.01	19	0.33	9944.45	10027.21	9944.45	10027.21	

ENCROACHMENT METHOD CHECK

FLOODWAY WIDTH CHECK

RS: 0.59
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.531
FW FW 03 The right channel bank station may not be at the proper location.

RS: 0.474
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 0.474
FW FW 03 The right channel bank station may not be at the proper location.

General Note
Bank stations were checked and verified based upon aerial photography and topography.

```
RS:       0.426
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.353
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.223
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.223
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.171
FW FW 03  The Left channel bank station may not be at the proper
          location.

RS:       0.171
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.055
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       0.01
FW FW 03  The Left channel bank station may not be at the proper
          location.


SURCHARGE CHECK
----------------


DISCHARGE CHECK
----------------


STARTING WATER-SURFACE ELEVATION CHECK
---------------------------------------

---END---
```

T3N-R6W-S35

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: Floodplain;Floodway
Date: 7/21/2011
Time: 4:22:48 PM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
T3N-R6W-S35,T3N-R6W-S35						
.676	455.31	450.6	418.87	532.04	1050	D
.59	308.49	314.87	315.27	670.59	1050	
.531	331.34	297.52	267.19	641.75	1050	C
.474	241.81	255.02	270.65	520.14	1050	D
.426	383.18	386.63	383.46	90.17	1050	D,C
.353	311.29	317.91	313.5	82.34	1050	
.293	168.3	172.79	170.18	147.2	1050	D
.26	196.61	193.45	189.79	187.88	1050	D
.223	297.27	275.37	246.14	131.08	1050	D
.171	221.2	234.69	247.21	68.14	1050	
.127	152.81	149.28	133.96	159.04	1050	
.098	209.17	231.47	262.15	102.63	1050	
.055	210.84	235.56	259.89	50.93	1050	
.01	0	0	0	137.71	1050	D

"C" flows due to sudden decrease in conveyance area.
XS 0.531: Fr=0.79
XS 0.426: Fr=0.98

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

XS DC 02 Constant dicharge used for the T3N-R6W-S35,T3N-R6W-S35

LOCATION CHECK

BOUNDARY CONDITION CHECK

XS BC 02 The name of the stream is T3N-R6W-S35,T3N-R6W-S35
Normal S = 0.00727 is specified as the downstream boundary
for profile Floodplain

XS BC 02 The name of the stream is T3N-R6W-S35,T3N-R6W-S35

```
         Normal S = 0.00727 is specified as the downstream boundary
         for profile Floodway

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

Winters Wash
CheckRAS Reports

Winters Wash - With Embankment

CHECK-RAS Program: Floodway Check
Encroachment Method, Starting WSEL, Floodway Width, and Surcharge Review

Selected profiles: FP;FW
Date: 7/27/2011
Time: 1:34:20 PM

SECNO	Method	Surcharge	EncStaL	EncStaR	LStaEff	RStaEff	Structure
WintersWash,WintersWithEmban							
10.295					9949.04	10288.48	
10.295	19	0.16	9947.84	10051.87	9948.81	10051.87	
10.207					9924.14	10447.49	
10.207	19	0.11	9944.65	10119.9	9944.65	10119.9	
10.12					9822.89	10080.56	
10.12	19	0.08	9843.06	10056.56	9843.06	10056.56	
10.047					9980.95	10291.85	
10.047	19	0.32	9988.84	10199.79	9988.84	10199.79	
9.962					8903.93	10634.64	
9.962	19	0.03	9507.22	10516.59	9507.22	10516.59	
9.87					8962.65	10568.51	
9.87	19	0.32	9413.52	10411.2	9413.52	10411.2	
9.8					9417.08	10825.11	
9.8	19	0.26	9661.45	10526.78	9661.45	10526.78	
9.718					9388.47	10357.98	
9.718	19	0.58	9691.83	10060.23	9691.83	10060.23	
9.635					9179.44	10139.34	
9.635	19	0.72	9808.89	10085.67	9808.89	10085.67	
9.577					9328.12	10075.58	
9.577	1	0.23	9857.2	10061.04	9857.2	10061.04	
9.493					9852.58	10108.04	
9.493	19	0.98	9856.56	10102.1	9856.56	10102.1	
9.435					9709.77	10064.75	
9.435	1	0.43	9921.6	10064.52	9921.6	10064.52	
9.354					9625.84	10108.59	
9.354	19	0.41	9732.09	10105.35	9732.09	10105.35	
9.278					9843.16	10165.13	
9.278	19	0.61	9912.76	10117.88	9912.76	10117.88	
9.19					9897.52	10237.08	
9.19	19	0.07	9938.37	10114.5	9938.37	10114.5	
9.113					9889.77	10160.75	
9.113	19	0.9	9889.84	10160.75	9889.84	10160.75	
9.026					9623.77	10027.31	
9.026	19	0.77	9846.33	10011.2	9846.33	10011.2	
8.936					9810.19	10100.06	
8.936	1	0.87	9900	10058.05	9900	10058.05	
8.843					9481.83	10691.41	
8.843	19	0.37	9786.77	10425.29	9786.77	10425.29	
8.788					9401.31	10826.89	
8.788	19	0.8	9694.84	10188.82	9694.84	10188.82	
8.754					9498.19	11024.66	
8.754	19	0.93	9721.35	10217.54	9721.35	10217.54	
8.685					9837.48	10584.65	
8.685	19	0.79	9941.51	10200	9941.51	10200	
8.601					8592.12	10698.54	
8.601	19	0.91	9866.27	10470.37	9866.27	10470.37	
8.531					8539.9	10171.32	
8.531	19	0.85	9158.67	10167.47	9158.67	10167.47	
8.46					8750.6	10727.95	
8.46	19	0.94	9340.52	10375.22	9340.52	10375.22	
8.368					9077.63	11092.81	
8.368	19	0.74	9699.06	10132.09	9699.06	10132.09	
8.278					8737.72	10863.56	

8.278	19	0.93	9520.94	10260.94	9520.94	10260.94
8.193					8474.11	10753.22
8.193	19	0.97	9564.74	10200	9564.74	10200
8.103					8157.55	10712.82
8.103	19	0.87	9623.34	10045.25	9623.34	10045.25
8.011					7928.43	10354.88
8.011	19	0.89	9813.65	10157.41	9813.65	10157.41
7.924					7265.56	10236.29
7.924	1	0.38	9900	10200	9900	10200
7.848					9744.68	10142.17
7.848	19	0.79	9781.76	10140.31	9781.76	10140.31
7.758					9912.44	10600
7.758	19	0.94	9912.44	10218.94	9912.44	10218.94
7.668					9729.86	10962.22
7.668	19	0.91	9901.08	10365.66	9901.08	10365.66
7.59					9812.72	10851.66
7.59	19	0.98	9918.19	10422.72	9918.19	10422.72
7.507					9813.23	11502.37
7.507	19	1	9834.79	10300	9834.79	10300
7.447					9768.71	11225.6
7.447	19	0.91	9796.38	10480.22	9796.38	10480.22
7.412					9826.64	11037.04
7.412	19	0.88	9862.43	10387.25	9862.43	10387.25
7.366					9650.08	10799.37
7.366	19	0.79	9775.84	10342.79	9775.84	10342.79
7.287					9363.63	10663.21
7.287	19	0.6	9847.31	10395.52	9847.31	10395.52
7.212					9503.39	10541.6
7.212	1	0.9	9726.2	10345	9726.2	10345
7.129					9747.49	12417.21
7.129	19	0.94	9846.31	10690.56	9846.31	10690.56
7.045					9847.51	12421.95
7.045	19	0.88	9931.74	10676.42	9931.74	10676.42
6.959					9842.32	12566.79
6.959	19	0.92	9949.22	10785.82	9949.22	10785.82
6.872					9887.01	12161.93
6.872	19	0.92	9920.39	10594.81	9920.39	10594.81
6.789					9512.22	12420.49
6.789	19	0.96	9947.99	10599.82	9947.99	10599.82
6.707					9779.38	12467.74
6.707	19	0.94	9969.21	10583.67	9969.21	10583.67
6.625					9579.23	12684.25
6.625	1	0.93	9949.8	10615.74	9949.8	10615.74
6.543					9781.19	12583.68
6.543	19	0.91	9947.38	10541.97	9947.38	10541.97
6.463					9657.89	12492.87
6.463	19	0.97	9959.59	10540.17	9959.59	10540.17
6.372					9451.45	12298.38
6.372	19	0.99	9951.33	10571.17	9951.33	10571.17
6.289					9688.32	12231.41
6.289	19	0.84	9889.49	10436.62	9889.49	10436.62
6.22					9418.39	12571.56
6.22	19	0.61	9872.13	10583.46	9872.13	10583.46
6.162					9698.51	12677.24
6.162	19	0.24	9818.31	10487.46	9818.31	10487.46
6.075					9920.41	10626.72
6.075	19	0.9	9930.98	10493.76	9930.98	10493.76
6.016					9788	10557.97
6.016	19	0.98	9977.08	10404.19	9977.08	10404.19
5.928					9825.09	10668.89
5.928	19	0.95	9991.65	10479.77	9991.65	10479.77
5.855					9855.22	10653.82
5.855	19	0.99	9984.89	10479.99	9984.89	10479.99
5.767					9941.91	10928.95
5.767	19	0.96	9978.35	10475.9	9978.35	10475.9
5.685					9930.59	10916.24
5.685	19	0.95	9953.63	10601.33	9953.63	10601.33

5.614					9933.3	10827.96
5.614	19	0.86	9956.41	10406.76	9956.41	10406.76
5.595					9895.34	10531.21
5.595	1	0.85	9946.8	10425.63	9946.8	10425.63
5.513					9910.04	10651.71
5.513	19	0.63	9960.01	10478.56	9960.01	10478.56
5.425					9421.86	10807.79
5.425	19	0.37	9958.69	10503.29	9958.69	10503.29
5.336					9630.33	10582.97
5.336	19	0.05	9792.22	10404.71	9792.22	10355.29
5.262					9664.13	10524.93
5.262	4	0	9647.2	10549.27	9664.13	10524.93
5.2					9712.04	10664.94
5.2	4	0	9695.81	10716.7	9712.04	10664.94
5.117					9749.78	10962.81
5.117	4	0	9728.51	11003.65	9749.78	10962.81
5.025					9132.37	10342.76
5.025	4	0	9079.25	10469.14	9132.37	10342.76
4.953					9327.74	13396.59
4.953	4	0	9233.37	13433.84	9327.74	13396.59
4.88					8482.52	12670.64
4.88	4	0	8195.64	12691.73	8482.52	12670.64
4.799					7963.75	12008.01
4.799	4	0	7748.74	12126.72	7963.75	12008.01
4.705					7663.84	11319.8
4.705	4	0	7588.62	11392	7663.84	11319.8
4.628					7286.97	10802.21
4.628	4	0	7255.72	10977.82	7286.97	10802.21
4.546					7190.53	10650.54
4.546	4	0	7128.77	10862.58	7190.53	10650.54
4.455					7137.03	10437.14
4.455	4	0	7093.44	10486.92	7137.03	10437.14
4.36					7015.64	10451.06
4.36	4	0	7001.36	10533.58	7015.64	10451.06
4.275					6852.23	10396.67
4.275	4	0	6795.83	10550.42	6852.23	10396.67
4.185					6885.71	10475.45
4.185	4	0	6851.31	10672.94	6885.71	10475.45
4.097					7006.41	10456.9
4.097	4	0	6964.5	10675.83	7006.41	10456.9
4.005					8016.74	10881.84
4.005	4	0	7830.21	11073.35	8016.74	10881.84
3.918					8187.2	10658.53
3.918	4	0	8136.21	10840.01	8187.2	10658.53
3.824					7055.46	10655.01
3.824	4	0	6992.61	10696.09	7055.46	10655.01
3.744					7207.32	10144.83
3.744	4	0	7125.83	10147.28	7207.32	10144.83
3.684					7400.73	10360.94
3.684	4	0	7390.83	10379.63	7400.73	10360.94
3.595					8094.14	10819.55
3.595	4	0	8071.25	10852.85	8094.14	10819.55
3.511					8581.46	11247.49
3.511	4	0	8525.59	11274.14	8581.46	11247.49
3.427					8939.43	11683.26
3.427	4	0	8895.92	11735.44	8939.43	11683.26
3.332					9554.49	11654.56
3.332	4	0	9520.14	11831.15	9554.49	11654.56
3.245					9401.65	10515.64
3.245	4	0	9370.46	10542.95	9401.65	10515.64
3.153					9828.51	10692.16
3.153	4	0	9782.17	10877.35	9828.51	10692.16
3.064					8919	10772.78
3.064	4	0	8882.48	10849.7	8919	10772.78
2.975					9075.36	11044.43
2.975	4	0	9042.82	11077.73	9075.36	11044.43
2.895					9075.19	10075.06

Floodway not appropriate for this area.

2.895	4	0	9017.39	10076.43	9075.19	10075.06
2.825					8826.95	10082.91
2.825	4	0	8802.79	10084.79	8826.95	10082.91
2.751					8942	10141.93
2.751	4	0	8906.36	10152.02	8941.99	10141.93
2.678					9041.72	10146.81
2.678	4	0	8966.31	11441.45	9041.69	10146.81
2.652					9024.99	10277.19
2.652	4	0	9007.17	10502.15	9024.97	10277.19
2.602					9135.03	10264.88
2.602	4	0	9089.62	10277.01	9135.03	10264.88

Floodway not appropriate for this area.

ENCROACHMENT METHOD CHECK

RS: 5.262
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 5.2
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 5.117
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 5.025
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.953
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.88
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.799
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.705
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.628
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.546
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

Floodway not appropriate for this area.

RS: 4.455
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.36
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.275
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.185
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.097
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 4.005
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.918
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.824
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.744
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.684
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.595
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.511
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.427
FW EM 04 Target surcharge value is equal to zero.
A target surcharge should be greater than 0.00 and less than or equal to the allowable surcharge value.

RS: 3.332
FW EM 04 Target surcharge value is equal to zero.

Floodway not appropriate for this area.

```
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.245
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.153
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       3.064
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.975
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.895
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.825
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.751
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.678
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.652
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.

RS:       2.602
FW EM 04  Target surcharge value is equal to zero.
          A target surcharge should be greater than 0.00 and less than or equal to
          the allowable surcharge value.
```

Floodway not appropriate for this area.

FLOODWAY WIDTH CHECK

```
RS:       10.295
FW FW 03  The right channel bank station may not be at the proper
          location.

RS:       10.295
FW FW 04  The left station effective of 9949.04 for 1% annual chance floodplain
          is less than the left channel bank station 9953.99
          The 1% annual chance floodplain is outside the channel.
          However, the left encroachment station (9947.84) is outside of 1% annual
          chance floodplain.
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General Note
Bank stations were checked and verified based upon aerial photography and topography.

The left encroachment station should be adjusted.

RS: 10.047
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 10.047
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.87
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.8
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.8
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.718
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.718
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.577
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.577
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.493
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.435
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.354
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.278
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 9.19
FW FW 03 The right channel bank station may not be at the proper location.

RS: 9.026
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.936
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.936

FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.843
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.754
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.685
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.601
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.46
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.368
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.278
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 8.278
FW FW 03 The right channel bank station may not be at the proper location.

RS: 8.193
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.924
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.848
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.758
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.668
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.59
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.412
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.287
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.212
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.212
FW FW 03 The right channel bank station may not be at the proper location.

RS: 7.129
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 7.045
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.959
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.789
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.707
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.625
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.625
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.543
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.463
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.289
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.22
FW FW 03 The right channel bank station may not be at the proper location.

RS: 6.075
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 6.075
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.855
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.855
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.767
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.767
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.685
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.614
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.614
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.595
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.595
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.513
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.513
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.425
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.262
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.262
FW FW 04 The left station effective of 9664.13 for 1% annual chance floodplain is less than the left channel bank station 9935.39
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9647.2) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 5.262
FW FW 04 The right station effective of 10524.93 for 1% annual chance floodplain is greater than the right channel bank station (10038.67).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10549.27) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 5.2
FW FW 04 The left station effective of 9712.04 for 1% annual chance floodplain is less than the left channel bank station 9991.89
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9695.81) is outside of 1% annual chance floodplain.

The left encroachment station should be adjusted.

RS: 5.2
FW FW 04 The right station effective of 10664.94 for 1% annual chance floodplain is greater than the right channel bank station (10036.69).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10716.7) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 5.117
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 5.117
FW FW 04 The left station effective of 9749.78 for 1% annual chance floodplain is less than the left channel bank station 9974.71
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9728.51) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 5.117
FW FW 04 The right station effective of 10962.81 for 1% annual chance floodplain is greater than the right channel bank station (10044.5).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11003.65) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 5.025
FW FW 03 The right channel bank station may not be at the proper location.

RS: 5.025
FW FW 04 The left station effective of 9132.37 for 1% annual chance floodplain is less than the left channel bank station 9829.6
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9079.25) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 5.025
FW FW 04 The right station effective of 10342.76 for 1% annual chance floodplain is greater than the right channel bank station (10022.78).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10469.14) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.953
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.953
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.953
FW FW 04 The left station effective of 9327.74 for 1% annual chance floodplain is less than the left channel bank station 9905.46
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9233.37) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.953

Floodway not appropriate for this area.

FW FW 04 The right station effective of 13396.59 for 1% annual chance floodplain is greater than the right channel bank station (10030.44).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (13433.84) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.88
FW FW 04 The left station effective of 8482.52 for 1% annual chance floodplain is less than the left channel bank station 9916.76
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8195.64) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.88
FW FW 04 The right station effective of 12670.64 for 1% annual chance floodplain is greater than the right channel bank station (10092.94).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (12691.73) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.799
FW FW 04 The left station effective of 7963.75 for 1% annual chance floodplain is less than the left channel bank station 9979.5
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7748.74) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.799
FW FW 04 The right station effective of 12008.01 for 1% annual chance floodplain is greater than the right channel bank station (10213.07).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (12126.72) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 4.705
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.705
FW FW 04 The left station effective of 7663.84 for 1% annual chance floodplain is less than the left channel bank station 9795.2
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7588.62) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.705
FW FW 04 The right station effective of 11319.8 for 1% annual chance floodplain is greater than the right channel bank station (10103.52).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11392) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.628
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.628
FW FW 04 The left station effective of 7286.97 for 1% annual chance floodplain is less than the left channel bank station 9822.81
The 1% annual chance floodplain is outside the channel.

However, the left encroachment station (7255.72) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.628
FW FW 04 The right station effective of 10802.21 for 1% annual chance floodplain is greater than the right channel bank station (10068.73).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10977.82) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.546
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.546
FW FW 04 The left station effective of 7190.53 for 1% annual chance floodplain is less than the left channel bank station 9687.77
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7128.77) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.546
FW FW 04 The right station effective of 10650.54 for 1% annual chance floodplain is greater than the right channel bank station (10007.74).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10862.58) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.455
FW FW 04 The left station effective of 7137.03 for 1% annual chance floodplain is less than the left channel bank station 9878.52
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7093.44) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.455
FW FW 04 The right station effective of 10437.14 for 1% annual chance floodplain is greater than the right channel bank station (10070.11).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10486.92) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.36
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 4.36
FW FW 04 The left station effective of 7015.64 for 1% annual chance floodplain is less than the left channel bank station 9917.36
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7001.36) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.36
FW FW 04 The right station effective of 10451.06 for 1% annual chance floodplain is greater than the right channel bank station (10097.68).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10533.58) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 4.275
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.275
FW FW 04 The left station effective of 6852.23 for 1% annual chance floodplain is less than the left channel bank station 9799.02
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (6795.83) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.275
FW FW 04 The right station effective of 10396.67 for 1% annual chance floodplain is greater than the right channel bank station (10031.54).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10550.42) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.185
FW FW 04 The left station effective of 6885.71 for 1% annual chance floodplain is less than the left channel bank station 9871.33
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (6851.31) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.185
FW FW 04 The right station effective of 10475.45 for 1% annual chance floodplain is greater than the right channel bank station (10132.22).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10672.94) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.097
FW FW 04 The left station effective of 7006.41 for 1% annual chance floodplain is less than the left channel bank station 9843.7
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (6964.5) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.097
FW FW 04 The right station effective of 10456.9 for 1% annual chance floodplain is greater than the right channel bank station (10103.48).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10675.83) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 4.005
FW FW 03 The right channel bank station may not be at the proper location.

RS: 4.005
FW FW 04 The left station effective of 8016.74 for 1% annual chance floodplain is less than the left channel bank station 9960.31
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7830.21) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 4.005
FW FW 04 The right station effective of 10881.84 for 1% annual chance floodplain

Floodway not appropriate for this area.

is greater than the right channel bank station (10056.97).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11073.35) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.918
FW FW 04 The left station effective of 8187.2 for 1% annual chance floodplain is less than the left channel bank station 9975.85
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8136.21) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.918
FW FW 04 The right station effective of 10658.53 for 1% annual chance floodplain is greater than the right channel bank station (10045.92).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10840.01) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.824
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.824
FW FW 04 The left station effective of 7055.46 for 1% annual chance floodplain is less than the left channel bank station 9946.03
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (6992.61) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.824
FW FW 04 The right station effective of 10655.01 for 1% annual chance floodplain is greater than the right channel bank station (10048.02).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10696.09) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.744
FW FW 04 The left station effective of 7207.32 for 1% annual chance floodplain is less than the left channel bank station 9943.43
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7125.83) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.744
FW FW 04 The right station effective of 10144.83 for 1% annual chance floodplain is greater than the right channel bank station (10064.02).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10147.28) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.684
FW FW 04 The left station effective of 7400.73 for 1% annual chance floodplain is less than the left channel bank station 9911.4
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (7390.83) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.684

Floodway not appropriate for this area.

FW FW 04 The right station effective of 10360.94 for 1% annual chance floodplain is greater than the right channel bank station (10070.13).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10379.63) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.595
FW FW 04 The left station effective of 8094.14 for 1% annual chance floodplain is less than the left channel bank station 9937.09
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8071.25) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.595
FW FW 04 The right station effective of 10819.55 for 1% annual chance floodplain is greater than the right channel bank station (10073.58).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10852.85) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.511
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.511
FW FW 04 The left station effective of 8581.46 for 1% annual chance floodplain is less than the left channel bank station 9932.55
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8525.59) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.511
FW FW 04 The right station effective of 11247.49 for 1% annual chance floodplain is greater than the right channel bank station (10065.84).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11274.14) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.427
FW FW 04 The left station effective of 8939.43 for 1% annual chance floodplain is less than the left channel bank station 9942.28
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8895.92) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.427
FW FW 04 The right station effective of 11683.26 for 1% annual chance floodplain is greater than the right channel bank station (10060.11).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11735.44) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.332
FW FW 04 The left station effective of 9554.49 for 1% annual chance floodplain is less than the left channel bank station 9954.89
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9520.14) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

Floodway not appropriate for this area.

RS: 3.332
FW FW 04 The right station effective of 11654.56 for 1% annual chance floodplain is greater than the right channel bank station (10074.55).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11831.15) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.245
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 3.245
FW FW 03 The right channel bank station may not be at the proper location.

RS: 3.245
FW FW 04 The left station effective of 9401.65 for 1% annual chance floodplain is less than the left channel bank station 9909.73
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9370.46) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.245
FW FW 04 The right station effective of 10515.64 for 1% annual chance floodplain is greater than the right channel bank station (10050.05).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10542.95) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.153
FW FW 04 The left station effective of 9828.51 for 1% annual chance floodplain is less than the left channel bank station 9896.57
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9782.17) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.153
FW FW 04 The right station effective of 10692.16 for 1% annual chance floodplain is greater than the right channel bank station (10063.79).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10877.35) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 3.064
FW FW 04 The left station effective of 8919 for 1% annual chance floodplain is less than the left channel bank station 9838.42
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8882.48) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 3.064
FW FW 04 The right station effective of 10772.78 for 1% annual chance floodplain is greater than the right channel bank station (10047.45).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10849.7) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.975
FW FW 03 The Left channel bank station may not be at the proper location.

Floodway not appropriate for this area.

RS: 2.975
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.975
FW FW 04 The left station effective of 9075.36 for 1% annual chance floodplain is less than the left channel bank station 9972.02
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9042.82) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.975
FW FW 04 The right station effective of 11044.43 for 1% annual chance floodplain is greater than the right channel bank station (10067.26).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11077.73) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.895
FW FW 04 The left station effective of 9075.19 for 1% annual chance floodplain is less than the left channel bank station 9933.76
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9017.39) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.895
FW FW 04 The right station effective of 10075.06 for 1% annual chance floodplain is greater than the right channel bank station (10049.11).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10076.43) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.825
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.825
FW FW 04 The left station effective of 8826.95 for 1% annual chance floodplain is less than the left channel bank station 9878.99
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8802.79) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.825
FW FW 04 The right station effective of 10082.91 for 1% annual chance floodplain is greater than the right channel bank station (10068.92).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10084.79) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.751
FW FW 03 The right channel bank station may not be at the proper location.

RS: 2.751
FW FW 04 The left station effective of 8942 for 1% annual chance floodplain is less than the left channel bank station 9953.12
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8906.36) is outside of 1% annual chance floodplain.

Floodway not appropriate for this area.

The left encroachment station should be adjusted.

RS: 2.751
FW FW 04 The right station effective of 10141.93 for 1% annual chance floodplain is greater than the right channel bank station (10119.52).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10152.02) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.678
FW FW 04 The left station effective of 9041.72 for 1% annual chance floodplain is less than the left channel bank station 9850.098
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (8966.31) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.678
FW FW 04 The right station effective of 10146.81 for 1% annual chance floodplain is greater than the right channel bank station (10031.44).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (11441.45) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.652
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.652
FW FW 04 The left station effective of 9024.99 for 1% annual chance floodplain is less than the left channel bank station 9882.15
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9007.17) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.652
FW FW 04 The right station effective of 10277.19 for 1% annual chance floodplain is greater than the right channel bank station (10037.66).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10502.15) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

RS: 2.602
FW FW 03 The Left channel bank station may not be at the proper location.

RS: 2.602
FW FW 04 The left station effective of 9135.03 for 1% annual chance floodplain is less than the left channel bank station 9961.87
The 1% annual chance floodplain is outside the channel.
However, the left encroachment station (9089.62) is outside of 1% annual chance floodplain.
The left encroachment station should be adjusted.

RS: 2.602
FW FW 04 The right station effective of 10264.88 for 1% annual chance floodplain is greater than the right channel bank station (10037.96).
The 1% annual chance floodplain is outside the channel.
However, the right encroachment station (10277.01) is outside of 1% annual chance floodplain.
The right encroachment station should be adjusted.

Floodway not appropriate for this area.

SURCHARGE CHECK

DISCHARGE CHECK

RS: 8.788
FW FD 01 The floodway discharge of 14120 is not equal to the natural 1% chance discharge of 16240
Please justify the use of different discharges for the natural and floodway profiles.

RS: 8.754
FW FD 01 The floodway discharge of 14120 is not equal to the natural 1% chance discharge of 16240
Please justify the use of different discharges for the natural and floodway profiles.

RS: 8.103
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 14120
Please justify the use of different discharges for the natural and floodway profiles.

RS: 8.011
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 14120
Please justify the use of different discharges for the natural and floodway profiles.

RS: 7.924
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 14120
Please justify the use of different discharges for the natural and floodway profiles.

RS: 7.758
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 11270
Please justify the use of different discharges for the natural and floodway profiles.

RS: 7.668
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 11270
Please justify the use of different discharges for the natural and floodway profiles.

RS: 7.59
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 11270
Please justify the use of different discharges for the natural and floodway profiles.

RS: 7.507
FW FD 01 The floodway discharge of 9150 is not equal to the natural 1% chance discharge of 11270
Please justify the use of different discharges for the natural and floodway profiles.

Floodway does not carry incidental split Winters Wash – W3 flow at these cross sections.

Floodway does not carry incidental split Winters Wash – E4 flow at these cross sections.

Floodway does not carry returning incidental split Winters Wash – W3 flow at these cross sections.

Floodway does not carry returning incidental split Winters Wash – W3 flow at these cross sections.

STARTING WATER-SURFACE ELEVATION CHECK

---END---

Winters Wash - With Embankment

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: FP;FW
Date: 8/1/2011
Time: 10:55:38 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
River #1,Reach #1						
10.295		0.046	-----	-----	0.1	0.3
10.207		0.046	-----	-----	0.1	0.3
10.12		0.046	-----	-----	0.1	0.3
10.047		0.046	-----	-----	0.1	0.3
9.962		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.87		0.065	-----	-----	0.1	0.3
		0.042	-----	-----		
		0.046	-----	-----		
9.8		0.065	0.046	0.065	0.1	0.3
		0.042	0.065	0.042		
		0.046	-----	-----		
9.718		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
		0.046	-----	-----		
9.635		0.042	0.046	-----	0.1	0.3
		0.065	0.065	-----		
		0.046	-----	-----		
9.577		0.042	0.065	-----	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
9.493		0.042	0.065	0.046	0.1	0.3
		0.065	0.046	0.065		
		-----	-----	0.042		
9.435		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.046	-----	-----		
9.354		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.278		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.19		0.065	0.065	0.046	0.1	0.3
		-----	0.046	0.065		
		-----	-----	0.042		
9.113		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.026		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
8.936		0.042	0.065	0.046	0.1	0.3
		0.065	0.046	0.065		
8.843		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		0.046	0.065	-----		
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
8.788		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		0.046	0.065	-----		
		0.065	-----	-----		
8.754		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		

	0.046	0.065	-----		
	0.065	-----	-----		
8.685	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
8.601	0.042	0.042	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.042	0.046	-----		
	-----	0.065	-----		
8.531	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	0.042	0.065	-----		
	0.065	-----	-----		
8.46	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	0.042	0.065	-----		
	0.065	-----	-----		
8.368	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
8.278	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
8.193	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
8.103	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
8.011	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
7.924	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
7.848	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.758	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.046		
	-----	0.065	0.065		
	-----	-----	0.042		
7.668	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.046		
	-----	0.065	0.065		
	-----	-----	0.042		
7.59	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.046		
	-----	-----	0.065		
	-----	-----	0.042		
7.507	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.447	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.412	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
7.366	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.287	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.212	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		

7.129	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.045	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.959	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.872	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.789	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.707	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.625	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.543	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.463	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
6.372	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		
6.289	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.22	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.162	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.075	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
6.016	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		
5.928	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.855	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.767	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.685	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
5.614	0.065	0.046	0.065	0.1	0.3
	0.046	0.065	0.042		
5.595	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.513	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.425	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		

	-----	0.065	-----		
5.336	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.262	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.2	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
5.117	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
5.025	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
4.953	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
4.88	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
4.799	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
4.705	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
4.628	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
4.546	0.035	0.042	0.065	0.1	0.3
	0.042	0.065	0.042		
	0.065	0.042	-----		
	0.042	0.065	-----		
4.455	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
4.36	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
4.275	0.035	0.042	0.065	0.1	0.3
	0.042	0.065	0.042		
4.185	0.035	0.042	0.065	0.1	0.3
	0.042	0.065	0.042		
4.097	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
4.005	0.035	0.065	-----	0.1	0.3
	0.042	0.042	-----		
	0.065	-----	-----		
3.918	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
3.824	0.042	0.065	-----	0.1	0.3
	0.065	0.042	-----		
	0.042	-----	-----		
	0.065	-----	-----		
3.744	0.042	0.065	0.065	0.1	0.3
	0.065	-----	0.042		
	0.042	-----	-----		

3.684	0.042	0.042	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.042	-----	-----		
3.595	0.042	0.042	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.042	-----	-----		
3.511	0.042	0.065	0.065	0.1	0.3
	0.065	-----	0.042		
	0.042	-----	-----		
3.427	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
3.332	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
3.245	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
3.153	0.042	0.065	-----	0.1	0.3
	0.065	0.042	-----		
3.064	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
2.975	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.895	0.045	-----	-----	0.1	0.3
	0.065	-----	-----		
2.825	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.751	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.678	0.02	-----	-----	0.1	0.3
2.652	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.602	0.042	-----	-----	0.1	0.3
	0.065	-----	0.042		

Very clean, smooth, well-maintained paved road approximately 50 ft wide and parallel to cross section.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.065
Right Overbank n Value:	0.042	0.065
Channel n Value:	0.042	0.065
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 2.678
NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.
The n value should be reevaluated.

Very clean, smooth, well-maintained paved road approximately 50 ft wide and parallel to cross section.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

Winters Wash - With Embankment

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: FP;FW
Date: 8/1/2011
Time: 10:55:38 AM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
WintersWash,WintersWithEmban						
10.295		0.046	-----	-----	0.1	0.3
10.207		0.046	-----	-----	0.1	0.3
10.12		0.046	-----	-----	0.1	0.3
10.047		0.046	-----	-----	0.1	0.3
9.962		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.87		0.065	-----	-----	0.1	0.3
		0.042	-----	-----		
		0.046	-----	-----		
9.8		0.065	0.046	0.065	0.1	0.3
		0.042	0.065	0.042		
		0.046	-----	-----		
9.718		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
		0.046	-----	-----		
9.635		0.042	0.046	-----	0.1	0.3
		0.065	0.065	-----		
		0.046	-----	-----		
9.577		0.042	0.065	-----	0.1	0.3
		0.065	0.046	-----		
		-----	0.065	-----		
9.493		0.042	0.065	0.046	0.1	0.3
		0.065	0.046	0.065		
		-----	-----	0.042		
9.435		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.046	-----	-----		
9.354		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.278		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.19		0.065	0.065	0.046	0.1	0.3
		-----	0.046	0.065		
		-----	-----	0.042		
9.113		0.065	-----	-----	0.1	0.3
		0.046	-----	-----		
9.026		0.042	-----	-----	0.1	0.3
		0.046	-----	-----		
8.936		0.042	0.065	0.046	0.1	0.3
		0.065	0.046	0.065		
8.843		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		0.046	0.065	-----		
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
8.788		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		
		0.046	0.065	-----		
		0.065	-----	-----		
8.754		0.042	0.065	0.065	0.1	0.3
		0.065	0.046	0.042		

	0.046	0.065	-----		
	0.065	-----	-----		
8.685	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
8.601	0.042	0.042	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.042	0.046	-----		
	-----	0.065	-----		
8.531	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	0.042	0.065	-----		
	0.065	-----	-----		
8.46	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	0.042	0.065	-----		
	0.065	-----	-----		
8.368	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
8.278	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
8.193	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
8.103	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
8.011	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
7.924	0.035	0.065	0.065	0.1	0.3
	0.042	0.046	0.042		
	0.065	0.065	-----		
7.848	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.758	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.046		
	-----	0.065	0.065		
	-----	-----	0.042		
7.668	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.046		
	-----	0.065	0.065		
	-----	-----	0.042		
7.59	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.046		
	-----	-----	0.065		
	-----	-----	0.042		
7.507	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.447	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.412	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
7.366	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.287	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.212	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		

7.129	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
7.045	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.959	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.872	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.789	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.707	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.625	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.543	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.463	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
6.372	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		
6.289	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.22	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.162	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
6.075	0.042	0.065	-----	0.1	0.3
	0.065	0.046	-----		
	-----	0.065	-----		
	-----	0.042	-----		
6.016	0.042	0.046	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.046	-----	-----		
5.928	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.855	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.767	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.685	0.065	0.065	0.065	0.1	0.3
	-----	0.046	0.042		
	-----	0.065	-----		
5.614	0.065	0.046	0.065	0.1	0.3
	0.046	0.065	0.042		
5.595	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.513	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.425	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		

	-----	0.065	-----		
5.336	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.262	0.042	0.065	0.065	0.1	0.3
	0.065	0.046	0.042		
	-----	0.065	-----		
5.2	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
5.117	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
5.025	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
4.953	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
4.88	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
4.799	0.042	0.065	0.042	0.1	0.3
	0.065	0.042	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
	-----	-----	0.065		
	-----	-----	0.042		
4.705	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
4.628	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
4.546	0.035	0.042	0.065	0.1	0.3
	0.042	0.065	0.042		
	0.065	0.042	-----		
	0.042	0.065	-----		
4.455	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
4.36	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
4.275	0.035	0.042	0.065	0.1	0.3
	0.042	0.065	0.042		
4.185	0.035	0.042	0.065	0.1	0.3
	0.042	0.065	0.042		
4.097	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
4.005	0.035	0.065	-----	0.1	0.3
	0.042	0.042	-----		
	0.065	-----	-----		
3.918	0.035	-----	-----	0.1	0.3
	0.042	-----	-----		
	0.065	-----	-----		
3.824	0.042	0.065	-----	0.1	0.3
	0.065	0.042	-----		
	0.042	-----	-----		
	0.065	-----	-----		
3.744	0.042	0.065	0.065	0.1	0.3
	0.065	-----	0.042		
	0.042	-----	-----		

3.684	0.042	0.042	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.042	-----	-----		
3.595	0.042	0.042	0.065	0.1	0.3
	0.065	0.065	0.042		
	0.042	-----	-----		
3.511	0.042	0.065	0.065	0.1	0.3
	0.065	-----	0.042		
	0.042	-----	-----		
3.427	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
3.332	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
3.245	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
3.153	0.042	0.065	-----	0.1	0.3
	0.065	0.042	-----		
3.064	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
	0.042	-----	-----		
	0.065	-----	-----		
2.975	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.895	0.045	-----	-----	0.1	0.3
	0.065	-----	-----		
2.825	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.751	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.678	0.02	-----	-----	0.1	0.3
2.652	0.042	-----	-----	0.1	0.3
	0.065	-----	-----		
2.602	0.042	-----	-----	0.1	0.3
	0.065	-----	0.042		

Very clean, smooth, well-maintained paved road approximately 50 ft wide and parallel to cross section.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.065
Right Overbank n Value:	0.042	0.065
Channel n Value:	0.042	0.065
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 2.678

NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.
The n value should be reevaluated.

Very clean, smooth, well-maintained paved road approximately 50 ft wide and parallel to cross section.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

Winters Wash - With Embankment

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

Selected profiles: FP;FW
Date: 8/1/2011
Time: 10:57:47 AM

General Note for "D"
There are several cross sections showing divided flow, but they are isolated islands.

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
WintersWash,WintersWithEmban						
10.295	440.733	463.939	488.465	312.64	13440	D
10.207	432.89	459.22	498.39	523.35	13440	
10.12	379.398	383.775	372.058	257.67	11590	
10.047	475.76	447.02	356.67	310.9	11590	
9.962	496.68	490.483	446.543	1592.58	11590	D,C
9.87	349.857	365.354	465.433	1558.17	11590	D
9.8	451.333	437.33	438.734	1393.34	11590	D
9.718	452.932	434.424	450.483	955.62	9480	D
9.635	278.54	305.35	320.77	940.39	9480	D
9.577	436.868	446.57	452.608	711	9480	D
9.493	315.071	303.655	295.678	255.47	9480	
9.435	452.375	429.103	421.298	239.62	9480	D,C
9.354	427.755	402.522	403.516	482.75	9480	
9.278	453.371	463.606	462.396	315.44	9480	D
9.19	396.216	406.869	424.118	321.67	9480	D,C
9.113	482.116	460.713	452.187	270.98	9480	
9.026	433.637	473.486	498.059	396.49	9480	D
8.936	489.116	489.509	488.691	258.64	9480	D
8.843	304.576	294.812	319.168	1209.58	16240	
8.788	163.256	176.689	179.815	1077.4	16240	D
8.754	318.138	365.209	336.574	1424.2	16240	D,B
8.685	496.603	444.02	232.368	416.19	14120	D,B
8.601	286.49	367.095	246.109	1987.21	14120	D
8.531	285.424	378.812	383.398	1551.3	14120	D,B
8.46	488.872	482.926	444.545	1977.35	14120	
8.368	495.841	477.309	471.874	1958.56	14120	D,B
8.278	471.394	444.432	408.064	2090.89	14120	D
8.193	488.196	479.531	461.462	2245.36	14120	D
8.103	498.824	485.356	426.329	2073.73	14120	D
8.011	472.178	458.032	379.419	2084.79	14120	D
7.924	358.747	398.806	439.438	2776.14	14120	D
7.848	462.971	479.786	494.695	397.49	9150	
7.758	489.84	475.014	479.489	591.76	11270	D
7.668	412.053	407.369	394.996	1232.36	11270	
7.59	443.979	442.612	430.424	1038.94	11270	
7.507	326.227	315.13	302.354	1623.37	11270	D
7.447	178.141	185.388	182.706	1444.66	11270	D
7.412	228.194	242.2	249.958	1106.66	11270	D
7.366	413.967	417.05	417.148	1126.95	11270	D
7.287	356.835	395.858	455.437	1282.49	11270	D
7.212	427.231	438.024	442.814	1038.21	11270	
7.129	440.663	441.907	447.707	2585.05	12740	D
7.045	461.607	457.601	469.692	2527.33	12740	D
6.959	471.351	455.752	435.04	2724.46	12740	
6.872	443.243	438.184	448.666	2135.6	12740	D
6.789	423.734	434.281	428.762	2738.54	12740	D
6.707	435.241	433.214	428.841	2519.09	12740	D
6.625	1064.35	432.272	430.782	3019.85	12740	D
6.543	1047.15	422.351	416.692	2755.2	12740	D
6.463	485.014	480.424	475.642	2809.89	12740	D
6.372	432.722	440.868	445.028	2846.93	12740	
6.289	347.363	360.378	351.447	2485.46	12740	D
6.22	284.293	309.304	385.685	3070.41	12740	D

"C" flow due to sudden increase in conveyance area. Fr =0.59

"C" flow due to sudden decrease in conveyance area. X-Sec 6.854 Fr=0.87 X-Sec 6.609 Fr=0.89

Blocked flow due to structures in flood zone.

6.162	459.742	458.035	461.575	2885.47	12740	D
6.075	316.982	312.203	288.108	706.31	8890	
6.016	463.14	464.472	480.5	769.97	8890	
5.928	400.819	387.877	336.328	843.79	8890	
5.855	462.121	465.054	411.94	786	8890	D
5.767	437.687	430.837	401.88	987.04	8890	
5.685	378.121	375.846	377.997	985.65	8890	
5.614	90.6387	98.6917	153.338	524.67	8890	D
5.595	428.109	431.378	425.28	580.28	8890	D
5.513	469.943	467.951	471.423	711.16	8890	D
5.425	466.479	470.91	455.561	1317.95	8890	D
5.336	379.791	387.355	387.752	856.55	8890	D,(B)
5.262	318.295	327.846	307.56	860.8	12810	
5.2	430.872	438.137	459.94	952.9	12810	
5.117	348.003	487.716	387.045	1161.38	12810	D
5.025	374.532	380.615	352.092	1210.39	12810	C
4.953	352.823	382.45	373.674	3376.24	12810	D
4.88	363.688	429.492	473.749	3617.27	12810	D
4.799	410.244	494.407	480.897	3990.24	12810	D
4.705	382.208	410.291	475.046	3586.6	12810	D
4.628	371.299	432.139	439.603	3515.24	12810	
4.546	488.012	479.438	435.77	3318.66	12810	D
4.455	447.477	498.744	498.278	3126.52	12810	D
4.36	408.981	451.197	489.898	3062.4	12810	D
4.275	464.132	477.569	493.296	3439.37	12810	D
4.185	461.819	462.404	478.569	3501.35	12810	D
4.097	458.042	483.19	427.51	3387.46	12810	D
4.005	491.993	460.651	485.673	2856.88	12810	D
3.918	490.547	496.964	493.127	2400.76	12810	D
3.824	314.363	420.457	473.582	3596.12	17460	D
3.744	360.877	321.326	324.721	2937.51	17460	
3.684	491.609	466.487	464.981	2960.22	17460	
3.595	467.92	446.087	445.922	2725.41	17460	
3.511	473.455	443.976	445.546	2666.02	17460	
3.427	467.78	498.935	419.989	2739.61	17460	D
3.332	495.392	460.977	427.274	2100.07	17460	
3.245	483.712	483.558	494.117	1113.99	17460	
3.153	495.14	471.997	474.541	863.65	17460	(C)
3.064	458.983	466.745	464.59	1853.77	17460	
2.975	426.311	422.685	418.379	1969.08	17460	
2.895	371.22	370.372	370.034	999.87	17460	
2.825	396.751	392.325	390.56	1255.96	17460	
2.751	384.348	383.067	383.886	1199.93	17460	
2.678	142.247	140.939	141.324	1105.09	17460	
2.652	259.575	262.511	264.757	1252.2	17460	
2.602	0	0	0	1129.85	17460	

Blocked flow due to structures in flood zone.

"C" flow due to sudden increase in conveyance area. Fr =0.66

B=blocked obstruction XS SC 05
C=critial depth XS SC 03
D=divided flow XS SC 01
E=cross section extended XS SC 02
K=known water-surface XS SC 04

DISTANCE CHECK

SPACING CHECK

INEFFECTIVE FLOW CHECK

```
DISCHARGE CHECK
---------------

RS:      10.12
XS DC 01 Discharge decreases in the downstream direction.

RS:      9.718
XS DC 01 Discharge decreases in the downstream direction.

RS:      8.685
XS DC 01 Discharge decreases in the downstream direction.

RS:      7.848
XS DC 01 Discharge decreases in the downstream direction.

RS:      6.075
XS DC 01 Discharge decreases in the downstream direction.

LOCATION CHECK
--------------

BOUNDARY CONDITION CHECK
------------------------

XS BC 02 The name of the stream is WintersWash,WintersWithEmban
         Normal S = 0.004 is specified as the downstream boundary
         for profile FP

XS BC 02 The name of the stream is WintersWash,WintersWithEmban
         Normal S = 0.004 is specified as the downstream boundary
         for profile FW

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

Hydrology split west into Zone A: Winters Wash-W1.

Incidental split west into Zone A: Winters Wash-W2. See App. E for supporting documentation.

Incidental split east into Zone A: Winters Wash-E4. See App. E for supporting documentation.

Incidental split west into Zone A: Winters Wash-W5. See App. E for supporting documentation.

No iterations are required for slope area boundary condition.

Winters Wash

CHECK-RAS Program: NT Check
Manning's n Value and Transition Loss Coefficient Review

Selected profiles: PF 1
Date: 8/1/2011
Time: 12:03:10 PM

SECNO	STRUCTURE	NLOB	NCHL	NROB	CNTR	EXP
Winters Wash,Winters Wash						
3.52		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
		0.065	-----	-----		
3.479		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.06	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
3.44		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.06	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
3.401		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.06	-----	-----		
		0.065	-----	-----		
		0.042	-----	-----		
3.341		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.27		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.179		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.099		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
3.011		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
2.93		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
2.844		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
		0.042	-----	-----		
2.754		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
2.678		0.02	-----	-----	0.1	0.3
2.652		0.042	-----	-----	0.1	0.3
		0.065	-----	-----		
2.602		0.042	-----	-----	0.1	0.3
		0.065	-----	0.042		

Very clean, smooth, well-maintained paved road approximately 50 ft wide and parallel to cross section.

---Summary of Statistics---

	Minimum	Maximum
Left Overbank n Value:	0.02	0.065
Right Overbank n Value:	0.042	0.042

Channel n Value:	99999	-99999
Contraction Coefficient:	0.1	0.1
Expansion Coefficient:	0.3	0.3

ROUGHNESS COEFFICIENT CHECK

RS: 2.678
NT RC 01 Left overbank n value is less than 0.035
The n value for overbank is usually larger then 0.035.
The n value should be reevaluated.

TRANSITION LOSS COEFFICIENT CHECK

ROUGHNESS COEFFICIENT AT STRUCTURES

---END---

Very clean, smooth, well-maintained paved road approximately 50 ft wide and parallel to cross section.

Winters Wash

CHECK-RAS Program, XS Check
Cross Section Location and Alignment Review

**General Note for "D"* There are several cross sections showing divided flow, but they are isolated islands.*

Selected profiles: PF 1
Date: 8/1/2011
Time: 12:13:48 PM

SECNO	Len Lob	Len Chl	Len Rob	TopWdthAct	Q Total	Flow Code
Winters Wash,Winters Wash						
3.52	228.155	215.074	226.558	2881.94	17460	B
3.479	193.418	204.88	195.112	2520.34	17460	D,B
3.44	194.86	204.264	190.668	2605.96	17460	D,B
3.401	293.291	319.881	304.42	2583.52	17460	D,B
3.341	406.528	372.573	402.539	2632.45	17460	
3.27	494.247	482.119	413.51	2669.94	17460	
3.179	482.408	420.577	288.457	2830.62	17460	D
3.099	487.205	465.651	395.034	3032.54	17460	D
3.011	491.962	428.325	480.977	3649.37	17460	D
2.93	394.478	455.934	476.138	3623.21	17460	D
2.844	418.165	474.816	468.367	2560.17	17460	D
2.754	407.802	397.865	411.337	2526.35	17460	D
2.678	150.991	140.928	140.612	2027.96	17460	
2.652	258.934	262.506	266.619	2134.98	17460	D
2.602	0	0	0	1423.68	17460	D

Blocked due to non-conveyance area. See section 5.5.7 of the TDN.

B=blocked obstruction
C=critial depth
D=divided flow
E=cross section extended
K=known water-surface

XS SC 05
XS SC 03
XS SC 01
XS SC 02
XS SC 04

DISTANCE CHECK
---------- RS: 3.011
XS DT 01 Both right and left overbank distances are longer than the channel distance.

This cross section was checked and verified. This is mainly due to wide shallow flow in the area that results in long reach lengths for the overbanks.

SPACING CHECK

INEFFECTIVE FLOW CHECK

DISCHARGE CHECK

XS DC 02 Constant dicharge used for the River #1,Reach #1

LOCATION CHECK

BOUNDARY CONDITION CHECK

```
XS BC 02 The name of the stream is Winters Wash,Winters Wash
         Normal S = 0.004 is specified as the downstream boundary
         for profile PF 1

XS BC 03 Maximum number of iterations is 0
         It should not be less than 20.

LATERAL WEIRS CHECK
-----------------------

---END---
```

No iterations are required for slope area boundary condition.

E.8 Summary of Errors and Warnings

Delaney Wash

Errors Warnings and Notes for Plan : Current mode

Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.663 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.579 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.491 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.403 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.309 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.221 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Split1 Reach: SouthSplit RS: 0.157 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.579 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.510 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.440 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.357 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.316 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.273 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.179 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.097 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 5.021 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 4.957 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 4.893 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 4.827 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyUpstream RS: 4.777 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	A flow split was encountered. The program first calculated the momentum of both channels below
	the junction. An energy balance was performed across the junction from the stream with the highest
	momentum downstream to the section upstream.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.693 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.605 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Delaney Wash Reach: NorthSplit RS: 4.519 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.430 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.327 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.237 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.167 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: NorthSplit RS: 4.047 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.946 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.871 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.815 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.757 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.709 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.640 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.560 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.499 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.446 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.371 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.289 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.210 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.139 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.111 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.073 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 3.033 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.951 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.858 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.792 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.727 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.676 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.584 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.519 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.458 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.387 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.305 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.236 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.154 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.142 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.128 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.055 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 2.007 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.947 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.900 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.848 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.797 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.739 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.666 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.592 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.515 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.438 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.339 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Current mode (Continued)

	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.255 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.151 Profile: Floodplain
Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 1.053 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.935 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.864 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.772 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.690 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.606 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.539 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.480 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.437 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.291 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.228 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.158 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Delaney Wash Reach: DelaneyDownstm RS: 0.086 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

Four Mile Wash

Errors Warnings and Notes for Plan : Current mode

Location:	River: Four Mile - W1 Reach: Four Mile - W1 RS: 0.175 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile - W1 Reach: Four Mile - W1 RS: 0.112 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile - W1 Reach: Four Mile - W1 RS: 0.077 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile - W2 Reach: Four Mile - W2 RS: 0.259 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile - W2 Reach: Four Mile - W2 RS: 0.181 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile - W2 Reach: Four Mile - W2 RS: 0.138 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile - W2 Reach: Four Mile - W2 RS: 0.084 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.960 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.869 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.800 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.735 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Current mode (Continued)

	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.649 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.567 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.497 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.408 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.318 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.305 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.246 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.174 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.095 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 13.004 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.939 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.873 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.798 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.706 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.619 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.556 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.502 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.457 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.403 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.342 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.282 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.238 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.154 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.092 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 12.030 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.989 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.954 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.885 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.830 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.762 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.713 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.656 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.607 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.500 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.414 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.356 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.302 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.249 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.180 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.144 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.092 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 11.032 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.958 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.881 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.806 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.727 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.663 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.572 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.513 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.425 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.346 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.265 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 1 RS: 10.216 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	A flow split was encountered. The program first calculated the momentum of both channels below
	the junction. An energy balance was performed across the junction from the stream with the highest
	momentum downstream to the section upstream.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 2 RS: 10.183 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 2 RS: 10.140 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 2 RS: 10.099 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 2 RS: 10.028 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.996 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.960 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.875 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.796 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.733 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.655 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.571 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.498 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.418 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.359 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.266 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.184 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.123 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 9.046 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.957 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.871 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.815 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.736 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.645 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.557 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.483 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.394 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.329 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.259 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.185 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.109 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 8.046 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.981 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.903 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.840 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.758 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.707 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.622 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.535 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.470 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Current mode (Continued)

	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.389 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.339 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.253 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.180 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.106 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 7.041 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.973 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.909 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.854 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.768 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.700 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.631 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.546 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.473 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.387 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Current mode (Continued)

	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.322 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.263 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.171 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.081 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 6.020 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.944 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.879 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.864 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.852 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.801 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.716 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.642 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.574 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.512 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.463 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.376 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.307 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.248 Profile: Floodplain
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.165 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.146 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.106 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.066 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.045 Profile: Floodplain Culv: CULVERT#1
Note:	During the supercritical calculations a hydraulic jump occurred inside of the culvert.
Note:	The culvert inlet is submerged and the culvert flows full over part or all of its length. Therefore, the
	culvert inlet equations are not valid and the supercritical result has been discarded. The outlet
	answer will be used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 5.023 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.974 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.912 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.904 Profile: Floodplain Culv: CULVERT#1
Note:	The normal depth exceeds the height of the culvert. The program assumes that the normal depth is
	equal to the height of the culvert.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.898 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.835 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.778 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.719 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.651 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.569 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.508 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.428 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.354 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.295 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.273 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.249 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.182 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.104 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 4.018 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.930 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.848 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.763 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.690 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.604 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.525 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.462 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.387 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.299 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.233 Profile: Floodplain
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.147 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 3.074 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.997 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.919 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.850 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.762 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Current mode (Continued)

	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.683 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.618 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.559 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.484 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.454 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.420 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.343 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.268 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.195 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.184 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.132 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 2.060 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.970 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.882 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.792 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.723 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.682 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.635 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	Critical depth could not be determined within the specified number of iterations. The program used
	the iteration with the lowest energy.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Warning:	The parabolic search method failed to converge on critical depth. The program will try the cross
	section slice/secant method to find critical depth.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.624 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.574 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.531 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 3 RS: 1.443 Profile: Floodplain
Warning:	A flow split was encountered. The program first calculated the momentum of both channels below
	the junction. An energy balance was performed across the junction from the stream with the highest
	momentum downstream to the section upstream.
Location:	River: Four Mile Wash Reach: Four Mile Wash 4 RS: 1.412 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 4 RS: 1.353 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: Four Mile Wash Reach: Four Mile Wash 4 RS: 1.310 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 1.154 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 1.120 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 1.036 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.963 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.885 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.798 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.722 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.645 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.579 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.505 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.428 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.371 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.325 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.253 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.163 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: Four Mile Wash Reach: Four Mile Wash 5 RS: 0.079 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T1N-R6W-S17 FW

Errors Warnings and Notes for Plan : S17 FW Analysis

Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.156 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.091 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.091 Profile: PF 2
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.016 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.016 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.962 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.962 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.891 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.824 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.824 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.734 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.734 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.670 Profile: PF 1

Errors Warnings and Notes for Plan : S17 FW Analysis (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.670 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.660 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.660 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.646 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.646 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.563 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.563 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.483 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.483 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.436 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.436 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.301 Profile: PF 1

Errors Warnings and Notes for Plan : S17 FW Analysis (Continued)

Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.301 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.255 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.255 Profile: PF 2
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.205 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.205 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.137 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.137 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.097 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.050 Profile: PF 1
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.050 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.037 Profile: PF 1

Errors Warnings and Notes for Plan : S17 FW Analysis (Continued)

Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.037 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.020 Profile: PF 1
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.020 Profile: PF 2
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.959 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.959 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.892 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.892 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.812 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.812 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : S17 FW Analysis (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.727 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.727 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.659 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.581 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.581 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.526 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.526 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.437 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.437 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.392 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.310 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : S17 FW Analysis (Continued)

Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.310 Profile: PF 2
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.243 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.243 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.161 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.161 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.112 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.112 Profile: PF 2
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.083 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.083 Profile: PF 2

Errors Warnings and Notes for Plan : S17 FW Analysis (Continued)

Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.024 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.024 Profile: PF 2
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T1N-R6W-S17 & S18 FP

Errors Warnings and Notes for Plan : FP Analysis

Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.156 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.091 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 2.016 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.962 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.891 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.824 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.734 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.670 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.660 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.646 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.563 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.483 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.436 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7

Errors Warnings and Notes for Plan : FP Analysis (Continued)

	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.301 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.255 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.205 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.137 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.050 Profile: PF 1
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.037 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 1.020 Profile: PF 1
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.959 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

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Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.892 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.812 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.727 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.659 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.581 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.526 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.437 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.392 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.310 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.243 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.161 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

Errors Warnings and Notes for Plan : FP Analysis (Continued)

	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.112 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.083 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S17 Reach: T1N-R6W-S17 RS: 0.024 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.237 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.236 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.163 Profile: PF 1
Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.162 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.161 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.097 Profile: PF 1
Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.096 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : FP Analysis (Continued)

	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.095 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.021 Profile: PF 1
Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 2.020 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.953 Profile: PF 1
Warning:	The cross-section end points had to be extended vertically for the computed water surface.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.888 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.819 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.754 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

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Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.694 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.632 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.552 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.471 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.411 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.360 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.274 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.208 Profile: PF 1
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : FP Analysis (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.177 Profile: PF 1
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - NORTH RS: 1.152 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	A flow split was encountered. The program first calculated the momentum of both channels below
	the junction. An energy balance was performed across the junction from the stream with the highest
	momentum downstream to the section upstream.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 1.097 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 1.036 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.994 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.948 Profile: PF 1
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.877 Profile: PF 1
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.832 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.741 Profile: PF 1
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

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	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.691 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.679 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.606 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.522 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.493 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.421 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.339 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.256 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.165 Profile: PF 1
Warning:	The energy equation could not be balanced within the specified number of iterations. The program

Errors Warnings and Notes for Plan : FP Analysis (Continued)

	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.068 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1N-R6W-S18 Reach: S18 - SOUTH RS: 0.011 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T1S-R6W-S05S

Errors Warnings and Notes for Plan : Plan 01

Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.726 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.647 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.564 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.490 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.399 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.313 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.244 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.138 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 1.054 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.994 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.884 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.805 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.715 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.626 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan 01 (Continued)

Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.554 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.465 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.387 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.320 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.258 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.197 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.132 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S05S Reach: Reach 1 RS: 0.066 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T1S-R6W-S08

Errors Warnings and Notes for Plan : Plan1

Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 5.334 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 5.273 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 5.203 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 5.121 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 5.047 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.961 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.897 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.829 Profile: Floodplain

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.763 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.696 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.621 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.546 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.484 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.404 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.321 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.239 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.162 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 4.070 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Plan1 (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.980 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.888 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.798 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.710 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.558 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.471 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.394 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.300 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.216 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.149 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7

Errors Warnings and Notes for Plan : Plan1 (Continued)

	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.077 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 3.001 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.916 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.836 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.783 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.725 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.653 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.568 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.515 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.443 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.381 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.319 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.251 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.195 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.142 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.083 Profile: Floodplain

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 2.016 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.936 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.860 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.812 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.770 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.696 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.638 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.492 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.447 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.363 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.310 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.270 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.198 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 1.111 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.977 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.893 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.821 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.748 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.558 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.421 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.352 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.301 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.234 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.180 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.142 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.106 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S_R6W_S08 Reach: T1S_R6W_S08 RS: 0.053 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T1S-R6W-S27

Errors Warnings and Notes for Plan : Current mode

Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.620 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.539 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.474 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.468 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.461 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.453 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.369 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.279 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.189 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.105 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 13.018 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.952 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.944 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.857 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.769 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.687 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.597 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.508 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

Errors Warnings and Notes for Plan : Current mode (Continued)

	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.426 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.422 Profile: Floodplain Culv: CULVERT#1
Warning:	During subcritical analysis, with the exit loss set =1.0, the projected WSEL in culvert has a lower
	energy than the downstream energy. Most likely, the downstream cross section blocks part of the
	culvert or the ineffective area is set too far in. Instead of projecting the WSEL, the program did an
	energy balance to get the WSEL inside the culvert at the downstream end.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.408 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.403 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.398 Profile: Floodplain Culv: CULVERT#1
Note:	During the supercritical analysis, the water surface at the inlet was within 0.01 feet of normal depth.
	Therefore, the outlet will be at normal depth.
Note:	During the supercritical calculations a hydraulic jump occurred inside of the culvert.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.386 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.350 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.267 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.202 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.119 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 12.043 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.957 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.879 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.787 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.699 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.609 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.525 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.429 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.349 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.262 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.170 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.099 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 11.018 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.966 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.917 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.824 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.742 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.665 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.611 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.497 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.422 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.338 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.280 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.270 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.258 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.214 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.163 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 10.093 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.998 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.941 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.886 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.826 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.783 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.742 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.736 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.722 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.664 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.581 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.488 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.397 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.318 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.234 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.229 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid

Errors Warnings and Notes for Plan : Current mode (Continued)

	subcritical answer. The program defaulted to critical depth.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.218 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.150 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.071 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 9.011 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.932 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.879 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.829 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.774 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.725 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.667 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.606 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.526 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.467 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.421 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

Errors Warnings and Notes for Plan : Current mode (Continued)

	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.326 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.261 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.171 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.135 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 8.016 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.920 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.886 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.874 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.844 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.774 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.703 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.630 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.542 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.458 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.374 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.293 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.229 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.155 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.110 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.081 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 7.039 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 6.954 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 6.886 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 6.725 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T1S-R6W-S27 Reach: T1S-R6W-S27 RS: 6.667 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode

Location:	River: T2N-R6W-S22S Reach: T2N-R6W-S22S RS: 0.353 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22S Reach: T2N-R6W-S22S RS: 0.281 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22S Reach: T2N-R6W-S22S RS: 0.201 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22S Reach: T2N-R6W-S22S RS: 0.106 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

T2N-R6W-S02

Errors Warnings and Notes for Plan : S02

Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 2.437 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 2.342 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 2.257 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 2.174 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 2.076 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 2.003 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.907 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.811 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.718 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.634 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.550 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.475 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : S02 (Continued)

Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.428 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.360 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.356 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.351 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.284 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.194 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.143 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.091 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

Errors Warnings and Notes for Plan : S02 (Continued)

Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 1.041 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.977 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.878 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.821 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.774 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.705 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.661 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.612 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.532 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.442 Profile: Floodplain

Errors Warnings and Notes for Plan : S02 (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.379 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.279 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.200 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.148 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.101 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S02 Reach: T2N-R6W-S02 RS: 0.031 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

T2N-R6W-S05E

Errors Warnings and Notes for Plan : Plan1

Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.806 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.769 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.715 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.670 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.625 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.548 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.502 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.434 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.366 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.300 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.232 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.173 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.111 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7

Errors Warnings and Notes for Plan : Plan1 (Continued)

	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.049 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 4.000 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.920 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.861 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.800 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.724 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.668 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.627 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.561 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.498 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.422 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.366 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.299 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.242 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.176 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.103 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 3.040 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.947 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.865 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.797 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.727 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.644 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.576 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.499 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.428 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.344 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.261 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.181 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.091 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 2.015 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.931 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.853 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.770 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.696 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.615 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.556 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.480 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.418 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.367 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

Errors Warnings and Notes for Plan : Plan1 (Continued)

	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.314 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.272 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.191 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.112 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.085 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.054 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 1.008 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.918 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.902 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.830 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.757 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.698 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.618 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.550 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.468 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.420 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.349 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.288 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.226 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.172 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.106 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.076 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.062 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

Errors Warnings and Notes for Plan : Plan1 (Continued)

	surface was used.
Location:	River: T2N_R6W_S05E Reach: Reach1 RS: 0.031 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R6W-S05N

Errors Warnings and Notes for Plan : T2N-R6W-S05N

Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.831 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.763 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.721 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.675 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.635 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.592 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.546 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.487 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.402 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.350 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : T2N-R6W-S05N (Continued)

Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.291 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.184 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.106 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.045 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 3.004 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.951 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.878 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.808 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.726 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.651 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.581 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.485 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : T2N-R6W-S05N (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.400 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.316 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.296 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.239 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.160 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.074 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 2.012 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.965 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.876 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.800 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.713 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : T2N-R6W-S05N (Continued)

Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.609 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.543 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.473 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.410 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.369 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.288 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.222 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.144 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 1.033 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.962 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.895 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.807 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.751 Profile: Floodplain

Errors Warnings and Notes for Plan : T2N-R6W-S05N (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.665 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.631 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.591 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.581 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.568 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.499 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.411 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.341 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.260 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.175 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

Errors Warnings and Notes for Plan : T2N-R6W-S05N (Continued)

	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.095 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S05N Reach: T2N-R6W-S05N RS: 0.005 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R6W-S05S

Errors Warnings and Notes for Plan : Plan1

Location:	River: T2N_R6W_S05S Reach: Reach1 RS: 0.702 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05S Reach: Reach1 RS: 0.552 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05S Reach: Reach1 RS: 0.472 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05S Reach: Reach1 RS: 0.416 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

T2N-R6W-S05W

Errors Warnings and Notes for Plan : Plan1

Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.919 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.845 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.815 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.768 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.704 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.651 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.584 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.523 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.436 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.365 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.309 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.237 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.206 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.142 Profile: Floodplain

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.075 Profile: Floodplain
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R6W_S05W Reach: T2N_R6W_S05W RS: 0.015 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R6W-S22

Errors Warnings and Notes for Plan : Plan1

Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 2.274 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 2.196 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 2.126 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 2.031 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.941 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.886 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.829 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.749 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.657 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.617 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.538 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.482 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.411 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.299 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.219 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.129 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 1.049 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.952 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.890 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.821 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.761 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.709 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.654 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.548 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Plan1 (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.456 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.367 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.274 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.220 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.161 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.084 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R6W-S22 Reach: T2N-R6W-S22 RS: 0.000 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R6W-S28N

Errors Warnings and Notes for Plan : Plan1

Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 4.118 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 4.043 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.963 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.892 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.825 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.755 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.700 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.612 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.525 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.441 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.371 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.289 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.209 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.134 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.064 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 3.004 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.941 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.870 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.802 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.732 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.658 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.576 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.504 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.431 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.350 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.287 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.203 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Plan1 (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.129 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 2.064 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.986 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.922 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.841 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.752 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.675 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.589 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.505 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.434 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.347 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.264 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.191 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.146 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Plan1 (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.085 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 1.013 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.944 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.878 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.806 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.758 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.751 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.741 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.623 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.598 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.554 Profile: Floodplain

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.480 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.460 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.412 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.351 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.301 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.219 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.153 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.095 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Location:	River: T2N_R6W_S28N Reach: T2N_R6W_S28N RS: 0.003 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R7W-S20W

Errors Warnings and Notes for Plan : Current mode

Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 2.035 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.962 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.883 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.789 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.704 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.618 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.547 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.508 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.442 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.366 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.303 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.223 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.136 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.092 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 1.046 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7

Errors Warnings and Notes for Plan : Current mode (Continued)

	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.990 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.925 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.913 Profile: Floodplain Culv: CULVERT#1
Note:	During the supercritical calculations a hydraulic jump occurred inside of the culvert.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.902 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.888 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.879 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.855 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, energy
	was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.788 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.710 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.655 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.608 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.540 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.445 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.392 Profile: Floodplain

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.312 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.238 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.189 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.135 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.073 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S20W Reach: T2N_R7W_S20W RS: 0.008 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R7W-S32E

Errors Warnings and Notes for Plan : Floodplain

Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.386 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.374 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.287 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.221 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.150 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.095 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 2.020 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.955 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Floodplain (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.862 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.798 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.730 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.663 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.579 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.529 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.471 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.405 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.393 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.381 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.326 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Floodplain (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.237 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.171 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.088 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 1.002 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.935 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.862 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.785 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.713 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.626 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.515 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.438 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.347 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid

Errors Warnings and Notes for Plan : Floodplain (Continued)

	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.300 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.255 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.197 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.144 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.081 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N_R7W_S32E Reach: T2N_R7W_S32E RS: 0.000 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T2N-R7W-S35W

Errors Warnings and Notes for Plan : S35W

Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.752 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.663 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.608 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.563 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.499 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.446 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.385 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.336 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.243 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.179 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : S35W (Continued)

	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.127 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 3.037 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.924 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.842 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.768 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.694 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.639 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.562 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.486 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.411 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.333 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : S35W (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.258 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.152 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 2.084 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.989 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.895 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.779 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.713 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.644 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.584 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.511 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.433 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.358 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : S35W (Continued)

Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.271 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.193 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.117 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 1.047 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.965 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.869 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.795 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.731 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.672 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.595 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.529 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.429 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.337 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.231 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : S35W (Continued)

Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.158 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.086 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.010 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T2N-R7W-S35W Reach: T2N-R7W-S35W RS: 0.000 Profile: Floodplain
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T3N-R6W-S27W

Errors Warnings and Notes for Plan : S27W

Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.675 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.612 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.586 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.516 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.449 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.354 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.298 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.219 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.149 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.110 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 1.040 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.960 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.897 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : S27W (Continued)

	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.847 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.777 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.715 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.656 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.568 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.517 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.460 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.409 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.357 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.279 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.203 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.114 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S27W Reach: T3N-R6W-S27W RS: 0.073 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water

	surface was used.

T3N-R6W-S32

Errors Warnings and Notes for Plan : Plan1

Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.886 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.834 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.762 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.675 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.609 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.565 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.476 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.427 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.366 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.275 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.227 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.188 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Plan1 (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.148 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T3N-R6W-S32 Reach: T3N-R6W-S32 RS: 0.079 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

T3N-R6W-S33

Errors Warnings and Notes for Plan : Current mode

Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.542 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.471 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.403 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.338 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.271 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.207 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.141 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T3N-R6W-S33 Reach: T3N-R6W-S33 RS: 0.088 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.

T3N-R6W-S35

Errors Warnings and Notes for Plan : 310.047

Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.676 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.590 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.531 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.474 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.426 Profile: Floodplain
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.353 Profile: Floodplain
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.293 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.260 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7

Errors Warnings and Notes for Plan : 310.047 (Continued)

	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.223 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.171 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.127 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.098 Profile: Floodplain
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.055 Profile: Floodplain
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: T3N-R6W-S35 Reach: T3N-R6W-S35 RS: 0.010 Profile: Floodplain
Warning:	Divided flow computed for this cross-section.

Winters Wash with Embankment

Errors Warnings and Notes for Plan : Current mode

Location:	River: WintersWash Reach: WintersWithEmban RS: 10.295 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 10.207 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 10.120 Profile: FP
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 10.047 Profile: FP
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.962 Profile: FP
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.870 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.800 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.718 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.635 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.577 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: WintersWash Reach: WintersWithEmban RS: 9.493 Profile: FP
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.435 Profile: FP
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.354 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.278 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.190 Profile: FP
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 9.026 Profile: FP
Warning:	Divided flow computed for this cross-section.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.936 Profile: FP
Warning:	Divided flow computed for this cross-section.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.843 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.

Errors Warnings and Notes for Plan : Current mode (Continued)

Location:	River: WintersWash Reach: WintersWithEmban RS: 8.788 Profile: FP
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.754 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.685 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.601 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.531 Profile: FP
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.460 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.368 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.278 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.193 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.103 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: WintersWash Reach: WintersWithEmban RS: 8.011 Profile: FP
Warning:	Divided flow computed for this cross-section.

Errors Warnings and Notes for Plan : Current mode (Continued)

Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.924 Profile: FP
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.848 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.758 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.668 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.590 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.507 Profile: FP
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.447 Profile: FP
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.412 Profile: FP
Warning:	Divided flow computed for this cross-section.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.366 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.287 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.212 Profile: FP
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.129 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 7.045 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.959 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.872 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.789 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.707 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.625 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.543 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.463 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.372 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.289 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.

Errors Warnings and Notes for Plan : Current mode (Continued)

	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.220 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.162 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.075 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 6.016 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.928 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.855 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.767 Profile: FP
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.685 Profile: FP
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.614 Profile: FP
Warning:	Divided flow computed for this cross-section.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.595 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.513 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.425 Profile: FP
Warning:	Divided flow computed for this cross-section.
Note:	Manning's n values were composited to a single value in the main channel.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.336 Profile: FP
Warning:	Divided flow computed for this cross-section.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.200 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.117 Profile: FP

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 5.025 Profile: FP
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.953 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.880 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.799 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.705 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.628 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.546 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.455 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.360 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.275 Profile: FP

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.185 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.097 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 4.005 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.918 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.824 Profile: FP
Warning:	Divided flow computed for this cross-section.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.427 Profile: FP
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.332 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.245 Profile: FP
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.153 Profile: FP
Warning:	The energy equation could not be balanced within the specified number of iterations. The program
	used critical depth for the water surface and continued on with the calculations.
Warning:	The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
	additional cross sections.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Warning:	During the standard step iterations, when the assumed water surface was set equal to critical depth,
	the calculated water surface came back below critical depth. This indicates that there is not a valid
	subcritical answer. The program defaulted to critical depth.

Errors Warnings and Notes for Plan : Current mode (Continued)

Warning:	The parabolic search method failed to converge on critical depth. The program will try the cross
	section slice/secant method to find critical depth.
Location:	River: WintersWash Reach: WintersWithEmban RS: 3.064 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 2.975 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 2.895 Profile: FP
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 2.825 Profile: FP
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 2.751 Profile: FP
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: WintersWash Reach: WintersWithEmban RS: 2.678 Profile: FP
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.
Location:	River: WintersWash Reach: WintersWithEmban RS: 2.652 Profile: FP
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Note:	Multiple critical depths were found at this location. The critical depth with the lowest, valid, water
	surface was used.

Winters Wash without Embankment

Errors Warnings and Notes for Plan : Current mode

Location:	River: Winters Wash Reach: Winters Wash RS: 3.520 Profile: PF 1
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.479 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.440 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.401 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.341 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.270 Profile: PF 1
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.179 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.099 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 3.011 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 2.930 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Location:	River: Winters Wash Reach: Winters Wash RS: 2.844 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Warning:	The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
	This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 2.754 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 2.652 Profile: PF 1
Warning:	Divided flow computed for this cross-section.
Warning:	The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7
	or greater than 1.4. This may indicate the need for additional cross sections.
Location:	River: Winters Wash Reach: Winters Wash RS: 2.602 Profile: PF 1
Warning:	Divided flow computed for this cross-section.

E.9 Effective FIS models

As part of this study, there were no effective hydraulic models utilized.

APPENDIX F: DVD