

COMUNE DI VALLEDORIA

Provincia di Sassari



PIANO URBANISTICO COMUNALE



GRUPPO DI LAVORO

Giovanni Antonetti	(Ingegnere)
Giovanna Casula	(Architetto)
Silvia Putzolu	(Ingegnere)
Piera Spano	(Geologo)
Walter Carta	(Agronomo)
Denise Marras	(Archeologo)
Giulia Urracci	(Agronomo)
Alessia Vargiu	(Ingegnere collaboratore)

IL SINDACO

TORE TERZITTA

IL RESPONSABILE UFFICIO TECNICO

Gian Pietro Oggiano (Ingegnere)

TAVOLA AA_04

ASSETTO AMBIENTALE_IDROLOGICO-IDRAULICO

TABELLE E SEZIONI DI CALCOLO

Data
DICEMBRE 2016

Scala
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HEC-RAS Plan: Default Scenario

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	9413.08	Tr 50	75.42	94.20	95.68	95.68	96.15	0.008371	3.39	29.43	33.20	0.95
Cuggiani_monte	9413.08	Tr 100	91.30	94.20	95.82	95.82	96.33	0.008215	3.59	34.12	34.85	0.96
Cuggiani_monte	9413.08	Tr 200	107.47	94.20	95.94	95.94	96.50	0.008180	3.79	38.53	36.26	0.97
Cuggiani_monte	9413.08	Tr 500	129.16	94.20	96.10	96.10	96.71	0.008073	4.01	44.37	38.15	0.98
Cuggiani_monte	9387.97	Tr 50	75.42	93.60	95.26	95.26	95.74	0.010054	3.07	24.94	29.50	0.99
Cuggiani_monte	9387.97	Tr 100	91.30	93.60	95.40	95.40	95.92	0.009203	3.22	29.43	32.76	0.97
Cuggiani_monte	9387.97	Tr 200	107.47	93.60	95.53	95.53	96.10	0.008594	3.36	34.07	36.28	0.95
Cuggiani_monte	9387.97	Tr 500	129.16	93.60	95.72	95.72	96.31	0.007500	3.44	41.40	40.88	0.91
Cuggiani_monte	9362.86	Tr 50	75.42	93.00	94.32	94.32	94.77	0.008368	3.15	28.57	32.98	0.93
Cuggiani_monte	9362.86	Tr 100	91.30	93.00	94.44	94.44	94.95	0.008338	3.37	32.76	34.05	0.95
Cuggiani_monte	9362.86	Tr 200	107.47	93.00	94.56	94.56	95.12	0.008249	3.56	36.93	35.17	0.96
Cuggiani_monte	9362.86	Tr 500	129.16	93.00	94.72	94.72	95.33	0.008056	3.77	42.47	36.69	0.96
Cuggiani_monte	9337.75	Tr 50	75.42	93.00	94.06	94.06	94.49	0.010737	2.90	26.08	31.77	1.00
Cuggiani_monte	9337.75	Tr 100	91.30	93.00	94.18	94.18	94.66	0.010188	3.07	30.01	33.09	1.00
Cuggiani_monte	9337.75	Tr 200	107.47	93.00	94.30	94.30	94.82	0.009685	3.22	33.91	34.87	0.99
Cuggiani_monte	9337.75	Tr 500	129.16	93.00	94.45	94.45	95.02	0.008997	3.39	39.31	37.34	0.97
Cuggiani_monte	9312.64	Tr 50	75.42	92.10	93.32	93.32	93.73	0.009355	3.22	30.82	37.97	0.98
Cuggiani_monte	9312.64	Tr 100	91.30	92.10	93.44	93.44	93.89	0.009332	3.43	35.18	38.89	0.99
Cuggiani_monte	9312.64	Tr 200	107.47	92.10	93.55	93.55	94.05	0.009182	3.61	39.57	39.79	1.00
Cuggiani_monte	9312.64	Tr 500	129.16	92.10	93.67	93.67	94.24	0.009368	3.87	44.66	41.03	1.03
Cuggiani_monte	9287.53	Tr 50	75.42	90.60	92.56	92.56	93.01	0.006602	3.22	31.53	40.25	0.85
Cuggiani_monte	9287.53	Tr 100	91.30	90.60	92.74	92.74	93.18	0.005967	3.29	38.67	43.45	0.82
Cuggiani_monte	9287.53	Tr 200	107.47	90.60	92.78	92.78	93.34	0.007417	3.73	40.44	44.16	0.92
Cuggiani_monte	9287.53	Tr 500	129.16	90.60	93.01	93.01	93.55	0.006211	3.73	52.15	54.82	0.86
Cuggiani_monte	9262.42	Tr 50	75.42	91.35	92.64		92.72	0.002414	1.74	68.69	79.13	0.51
Cuggiani_monte	9262.42	Tr 100	91.30	91.35	92.77		92.85	0.002341	1.83	78.42	80.09	0.51
Cuggiani_monte	9262.42	Tr 200	107.47	91.35	92.89		92.98	0.002213	1.89	88.61	80.98	0.50
Cuggiani_monte	9262.42	Tr 500	129.16	91.35	93.02		93.13	0.002236	2.01	99.31	81.86	0.51
Cuggiani_monte	9237.31	Tr 50	75.42	91.20	92.26	92.26	92.58	0.010946	3.26	35.72	54.52	1.04
Cuggiani_monte	9237.31	Tr 100	91.30	91.20	92.35	92.35	92.71	0.010966	3.47	41.00	57.33	1.06
Cuggiani_monte	9237.31	Tr 200	107.47	91.20	92.41	92.41	92.84	0.012516	3.83	44.07	59.15	1.14
Cuggiani_monte	9237.31	Tr 500	129.16	91.20	92.61	92.61	93.00	0.009657	3.74	57.11	70.08	1.03
Cuggiani_monte	9187.14	Tr 50	75.42	89.40	90.83	90.83	91.08	0.006943	2.87	44.94	76.29	0.84
Cuggiani_monte	9187.14	Tr 100	91.30	89.40	90.89	90.89	91.18	0.007706	3.13	49.79	77.50	0.90
Cuggiani_monte	9187.14	Tr 200	107.47	89.40	90.97	90.97	91.27	0.007736	3.27	55.86	78.60	0.91
Cuggiani_monte	9187.14	Tr 500	129.16	89.40	91.05	91.05	91.39	0.008215	3.50	62.24	79.67	0.95
Cuggiani_monte	9137.02	Tr 50	75.42	89.26	89.99	89.99	90.25	0.020143	3.45	36.19	73.21	1.33
Cuggiani_monte	9137.02	Tr 100	91.30	89.26	90.07	90.07	90.36	0.019644	3.66	42.16	79.14	1.34
Cuggiani_monte	9137.02	Tr 200	107.47	89.26	90.15	90.15	90.45	0.018550	3.80	48.68	85.13	1.32
Cuggiani_monte	9137.02	Tr 500	129.16	89.26	90.24	90.24	90.56	0.018176	4.02	56.44	91.66	1.33
Cuggiani_monte	9111.96	Tr 50	75.42	89.01	89.35	89.35	89.56	0.025052	2.04	37.64	93.09	1.27
Cuggiani_monte	9111.96	Tr 100	91.30	89.01	89.41	89.41	89.64	0.024070	2.29	43.38	96.41	1.28
Cuggiani_monte	9111.96	Tr 200	107.47	89.01	89.47	89.47	89.72	0.023808	2.52	48.44	98.55	1.31
Cuggiani_monte	9111.96	Tr 500	129.16	89.01	89.54	89.54	89.82	0.022727	2.76	55.50	101.47	1.32
Cuggiani_monte	9086.95	Tr 50	75.42	88.04	88.65	88.50	88.77	0.010337	1.23	48.06	88.42	0.80
Cuggiani_monte	9086.95	Tr 100	91.30	88.04	88.69	88.57	88.85	0.011829	1.48	52.48	96.61	0.88
Cuggiani_monte	9086.95	Tr 200	107.47	88.04	88.75	88.63	88.93	0.012390	1.70	58.02	100.84	0.93
Cuggiani_monte	9086.95	Tr 500	129.16	88.04	88.80	88.71	89.02	0.014030	1.99	63.34	104.73	1.01
Cuggiani_monte	9061.94	Tr 50	75.42	87.94	88.16	88.16	88.37	0.027025	1.19	37.78	100.53	1.14
Cuggiani_monte	9061.94	Tr 100	91.30	87.94	88.24	88.24	88.44	0.022844	1.34	46.06	119.32	1.10
Cuggiani_monte	9061.94	Tr 200	107.47	87.94	88.29	88.29	88.51	0.022323	1.62	52.48	124.78	1.14
Cuggiani_monte	9061.94	Tr 500	129.16	87.94	88.36	88.36	88.59	0.020529	1.90	61.89	131.84	1.15
Cuggiani_monte	9034.81	Tr 50	75.42	86.85	88.00		88.11	0.004404	1.93	66.93	136.34	0.65
Cuggiani_monte	9034.81	Tr 100	91.30	86.85	88.08		88.19	0.004206	1.99	77.77	139.56	0.64
Cuggiani_monte	9034.81	Tr 200	107.47	86.85	88.15		88.27	0.004053	2.05	88.16	142.27	0.64
Cuggiani_monte	9034.81	Tr 500	129.16	86.85	88.26		88.38	0.003623	2.07	103.98	146.75	0.61
Cuggiani_monte	9007.68	Tr 50	75.42	86.90	87.93		87.98	0.003607	1.62	82.19	167.50	0.56
Cuggiani_monte	9007.68	Tr 100	91.30	86.90	88.02		88.07	0.003210	1.62	97.40	172.42	0.54
Cuggiani_monte	9007.68	Tr 200	107.47	86.90	88.10		88.16	0.003033	1.65	111.34	179.39	0.53
Cuggiani_monte	9007.68	Tr 500	129.16	86.90	88.22		88.28	0.002550	1.61	133.75	186.00	0.49
Cuggiani_monte	8980.45	Tr 50	75.42	85.80	87.88		87.93	0.001353	1.33	96.83	141.46	0.38
Cuggiani_monte	8980.45	Tr 100	91.30	85.80	87.96		88.02	0.001426	1.43	109.22	145.28	0.39
Cuggiani_monte	8980.45	Tr 200	107.47	85.80	88.04		88.10	0.001508	1.52	120.08	147.36	0.41
Cuggiani_monte	8980.45	Tr 500	129.16	85.80	88.16		88.22	0.001476	1.59	138.98	160.14	0.41
Cuggiani_monte	8954.86	Tr 50	75.42	86.40	87.57	87.57	87.83	0.008796	2.88	44.93	94.44	0.93
Cuggiani_monte	8954.86	Tr 100	91.30	86.40	87.68	87.68	87.93	0.007483	2.86	56.88	107.89	0.87
Cuggiani_monte	8954.86	Tr 200	107.47	86.40	87.75	87.75	88.00	0.007514	2.98	64.00	109.50	0.88
Cuggiani_monte	8954.86	Tr 500	129.16	86.40	87.82	87.82	88.15	0.004284	2.54	90.50	121.26	0.69

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	8927.63	Tr 50	75.42	85.80	86.94	86.94	87.26	0.008970	3.10	36.95	53.91	0.96
Cuggiani_monte	8927.63	Tr 100	91.30	85.80	86.96	86.96	87.39	0.011980	3.64	38.19	54.37	1.11
Cuggiani_monte	8927.63	Tr 200	107.47	85.80	87.21	87.21	87.55	0.007800	3.36	56.32	84.98	0.92
Cuggiani_monte	8927.63	Tr 500	129.16	85.80	86.95	86.95	87.84	0.025258	5.24	37.49	54.11	1.61
Cuggiani_monte	8893.39	Tr 50	75.42	84.30	86.08	86.08	86.41	0.008132	2.61	33.09	54.24	0.88
Cuggiani_monte	8893.39	Tr 100	91.30	84.30	86.19	86.19	86.54	0.008290	2.73	39.34	61.06	0.90
Cuggiani_monte	8893.39	Tr 200	107.47	84.30	86.28	86.28	86.66	0.008378	2.86	45.19	67.13	0.91
Cuggiani_monte	8893.39	Tr 500	129.16	84.30	86.41	86.41	86.80	0.007661	2.96	54.24	75.41	0.89
Cuggiani_monte	8867.8		Culvert									
Cuggiani_monte	8842.79	Tr 50	75.42	83.70	85.91	85.76	86.12	0.003309	2.41	51.59	76.13	0.61
Cuggiani_monte	8842.79	Tr 100	91.30	83.70	85.99	85.87	86.23	0.003754	2.65	57.93	80.36	0.66
Cuggiani_monte	8842.79	Tr 200	107.47	83.70	86.06	85.97	86.34	0.004106	2.86	64.34	84.42	0.69
Cuggiani_monte	8842.79	Tr 500	129.16	83.70	86.16	86.09	86.48	0.004514	3.10	72.65	90.24	0.73
Cuggiani_monte	8817.78	Tr 50	75.42	84.60	85.81		85.99	0.007072	2.63	50.52	92.52	0.84
Cuggiani_monte	8817.78	Tr 100	91.30	84.60	85.92		86.09	0.006382	2.67	60.50	97.60	0.81
Cuggiani_monte	8817.78	Tr 200	107.47	84.60	86.01		86.19	0.005950	2.72	70.01	102.21	0.79
Cuggiani_monte	8817.78	Tr 500	129.16	84.60	86.13		86.31	0.005536	2.79	82.22	107.60	0.78
Cuggiani_monte	8792.77	Tr 50	75.42	84.60	85.71		85.86	0.003343	1.86	54.18	89.05	0.58
Cuggiani_monte	8792.77	Tr 100	91.30	84.60	85.82		85.98	0.003293	1.96	63.64	94.76	0.59
Cuggiani_monte	8792.77	Tr 200	107.47	84.60	85.91		86.08	0.003244	2.05	72.76	98.51	0.59
Cuggiani_monte	8792.77	Tr 500	129.16	84.60	86.03		86.21	0.003205	2.16	84.28	103.05	0.59
Cuggiani_monte	8767.76	Tr 50	75.42	84.61	85.65		85.75	0.004824	2.14	58.66	85.32	0.69
Cuggiani_monte	8767.76	Tr 100	91.30	84.61	85.75		85.86	0.004691	2.26	68.00	90.48	0.69
Cuggiani_monte	8767.76	Tr 200	107.47	84.61	85.85		85.97	0.004637	2.38	77.09	95.64	0.70
Cuggiani_monte	8767.76	Tr 500	129.16	84.61	85.97		86.10	0.004645	2.54	88.58	102.24	0.71
Cuggiani_monte	8741.04	Tr 50	75.42	84.30	85.56		85.65	0.002857	1.87	66.09	82.67	0.55
Cuggiani_monte	8741.04	Tr 100	91.30	84.30	85.67		85.77	0.002982	2.02	74.80	86.72	0.57
Cuggiani_monte	8741.04	Tr 200	107.47	84.30	85.76		85.87	0.003096	2.16	83.11	90.41	0.59
Cuggiani_monte	8741.04	Tr 500	129.16	84.30	85.87		86.00	0.003226	2.32	93.37	94.06	0.61
Cuggiani_monte	8716.02	Tr 50	75.42	84.00	85.25	85.25	85.51	0.010034	3.10	40.65	71.08	0.99
Cuggiani_monte	8716.02	Tr 100	91.30	84.00	85.32	85.32	85.62	0.010651	3.34	45.69	73.23	1.03
Cuggiani_monte	8716.02	Tr 200	107.47	84.00	85.39	85.39	85.72	0.010891	3.53	50.99	75.41	1.06
Cuggiani_monte	8716.02	Tr 500	129.16	84.00	85.49	85.49	85.84	0.010606	3.69	58.76	78.51	1.06
Cuggiani_monte	8691.01	Tr 50	75.42	82.80	84.73	84.73	85.05	0.007779	3.14	39.58	62.41	0.89
Cuggiani_monte	8691.01	Tr 100	91.30	82.80	84.83	84.83	85.17	0.008029	3.34	45.54	66.58	0.92
Cuggiani_monte	8691.01	Tr 200	107.47	82.80	84.94	84.93	85.28	0.007582	3.41	53.00	71.09	0.90
Cuggiani_monte	8691.01	Tr 500	129.16	82.80	85.06	85.03	85.42	0.007352	3.55	61.87	75.26	0.90
Cuggiani_monte	8664.28	Tr 50	75.42	83.47	84.69		84.83	0.004532	2.28	50.40	61.28	0.68
Cuggiani_monte	8664.28	Tr 100	91.30	83.47	84.76		84.94	0.005095	2.52	55.14	62.47	0.73
Cuggiani_monte	8664.28	Tr 200	107.47	83.47	84.87		85.06	0.005063	2.66	61.72	64.09	0.74
Cuggiani_monte	8664.28	Tr 500	129.16	83.47	84.99		85.21	0.005107	2.83	69.76	66.10	0.76
Cuggiani_monte	8637.68	Tr 50	75.42	82.80	84.59		84.74	0.002792	2.26	56.42	62.84	0.57
Cuggiani_monte	8637.68	Tr 100	91.30	82.80	84.39	84.39	84.76	0.007722	3.45	44.48	58.70	0.92
Cuggiani_monte	8637.68	Tr 200	107.47	82.80	84.48	84.48	84.87	0.007932	3.64	49.76	60.51	0.95
Cuggiani_monte	8637.68	Tr 500	129.16	82.80	84.60	84.60	85.02	0.007894	3.82	57.19	63.09	0.96
Cuggiani_monte	8586.11	Tr 50	75.42	81.90	84.61		84.65	0.000493	1.20	102.26	69.93	0.25
Cuggiani_monte	8586.11	Tr 100	91.30	81.90	83.89		84.09	0.003796	2.60	56.05	57.17	0.65
Cuggiani_monte	8586.11	Tr 200	107.47	81.90	84.03		84.24	0.003636	2.69	64.17	60.50	0.65
Cuggiani_monte	8586.11	Tr 500	129.16	81.90	84.21		84.42	0.003353	2.75	75.32	63.74	0.63
Cuggiani_monte	8561.14	Tr 50	75.42	81.60	84.60		84.64	0.000388	1.21	105.74	69.08	0.23
Cuggiani_monte	8561.14	Tr 100	91.30	81.60	83.54	83.52	83.95	0.005812	3.40	42.00	48.35	0.83
Cuggiani_monte	8561.14	Tr 200	107.47	81.60	83.64	83.64	84.10	0.006102	3.62	47.03	50.26	0.86
Cuggiani_monte	8561.14	Tr 500	129.16	81.60	83.75	83.75	84.27	0.006693	3.95	52.63	52.94	0.91
Cuggiani_monte	8541.16	Tr 50	75.42	81.60	84.61	83.11	84.63	0.000168	0.79	149.37	93.24	0.15
Cuggiani_monte	8541.16	Tr 100	91.30	81.60	83.65	83.23	83.80	0.001762	1.91	69.47	73.25	0.46
Cuggiani_monte	8541.16	Tr 200	107.47	81.60	83.74	83.34	83.91	0.001963	2.08	75.80	74.95	0.49
Cuggiani_monte	8541.16	Tr 500	129.16	81.60	83.84	83.50	84.04	0.002202	2.29	83.86	77.50	0.52
Cuggiani_monte	8521.18		Culvert									
Cuggiani_monte	8493.17	Tr 50	75.42	80.40	84.59	82.70	84.61	0.000150	0.85	134.49	61.75	0.14
Cuggiani_monte	8493.17	Tr 100	91.30	80.40	82.70	82.70	83.19	0.006990	3.44	34.63	33.24	0.87
Cuggiani_monte	8493.17	Tr 200	107.47	80.40	82.80	82.80	83.36	0.007602	3.73	37.85	34.32	0.91
Cuggiani_monte	8493.17	Tr 500	129.16	80.40	83.00	83.00	83.56	0.006774	3.79	46.76	46.50	0.88
Cuggiani_monte	8470.6	Tr 50	75.42	80.40	84.60		84.61	0.000057	0.59	202.79	74.20	0.09
Cuggiani_monte	8470.6	Tr 100	91.30	80.40	82.37		82.54	0.002859	2.39	58.65	53.54	0.58
Cuggiani_monte	8470.6	Tr 200	107.47	80.40	82.47		82.67	0.003038	2.56	64.43	54.67	0.60
Cuggiani_monte	8470.6	Tr 500	129.16	80.40	82.59		82.83	0.003315	2.79	71.10	55.74	0.64
Cuggiani_monte	8442.59	Tr 50	75.42	80.10	84.60	81.87	84.61	0.000052	0.53	216.62	80.20	0.09

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	8442.59	Tr 100	91.30	80.10	82.03	82.03	82.39	0.009294	3.32	40.64	55.38	0.97
Cuggiani_monte	8442.59	Tr 200	107.47	80.10	82.11	82.11	82.52	0.009816	3.56	44.86	56.62	1.00
Cuggiani_monte	8442.59	Tr 500	129.16	80.10	82.24	82.24	82.67	0.009292	3.69	52.20	58.47	0.99
Cuggiani_monte	8420.02	Tr 50	75.42	80.10	80.69	80.69	84.25	0.379852	9.98	9.45	25.49	5.16
Cuggiani_monte	8420.02	Tr 100	91.30	80.10	81.31	81.31	81.70	0.015444	3.47	34.53	42.51	1.19
Cuggiani_monte	8420.02	Tr 200	107.47	80.10	81.40	81.40	81.83	0.015193	3.61	38.52	43.02	1.19
Cuggiani_monte	8420.02	Tr 500	129.16	80.10	81.51	81.51	82.00	0.015032	3.79	43.46	43.65	1.20
Cuggiani_monte	8395.64	Tr 50	75.42	78.30	80.77	80.45	81.00	0.003092	2.45	43.71	41.81	0.59
Cuggiani_monte	8395.64	Tr 100	91.30	78.30	80.88	80.58	81.15	0.003447	2.69	48.56	43.25	0.63
Cuggiani_monte	8395.64	Tr 200	107.47	78.30	80.99	80.71	81.30	0.003738	2.91	53.33	44.62	0.66
Cuggiani_monte	8395.64	Tr 500	129.16	78.30	81.13	80.86	81.49	0.004062	3.17	59.46	46.36	0.70
Cuggiani_monte	8371.26		Culvert									
Cuggiani_monte	8349.23	Tr 50	75.42	78.60	80.56	80.03	80.69	0.001781	1.80	54.69	52.41	0.45
Cuggiani_monte	8349.23	Tr 100	91.30	78.60	80.71	80.09	80.86	0.001806	1.92	62.75	54.17	0.46
Cuggiani_monte	8349.23	Tr 200	107.47	78.60	80.87	80.31	81.03	0.001766	2.01	71.39	56.00	0.46
Cuggiani_monte	8349.23	Tr 500	129.16	78.60	81.06	80.45	81.24	0.001733	2.13	82.31	58.27	0.47
Cuggiani_monte	8325.48	Tr 50	75.42	78.60	80.05	80.05	80.58	0.009021	3.72	28.47	31.81	1.00
Cuggiani_monte	8325.48	Tr 100	91.30	78.60	80.29	80.29	80.76	0.006726	3.57	37.72	41.31	0.89
Cuggiani_monte	8325.48	Tr 200	107.47	78.60	80.38	80.38	80.92	0.007466	3.89	41.24	42.93	0.94
Cuggiani_monte	8325.48	Tr 500	129.16	78.60	80.64	80.64	81.14	0.006101	3.86	54.42	54.30	0.87
Cuggiani_monte	8303.45	Tr 50	75.42	78.00	79.62	79.58	80.00	0.007372	3.05	32.64	41.22	0.87
Cuggiani_monte	8303.45	Tr 100	91.30	78.00	79.76	79.71	80.16	0.007012	3.19	38.69	46.05	0.86
Cuggiani_monte	8303.45	Tr 200	107.47	78.00	79.92	79.84	80.32	0.006146	3.21	46.28	48.46	0.82
Cuggiani_monte	8303.45	Tr 500	129.16	78.00	80.10	79.97	80.50	0.005625	3.29	54.95	50.07	0.80
Cuggiani_monte	8279.7	Tr 50	75.42	77.40	79.39	79.39	79.81	0.008056	3.41	31.91	37.39	0.92
Cuggiani_monte	8279.7	Tr 100	91.30	77.40	79.52	79.52	79.97	0.008015	3.60	36.82	39.05	0.93
Cuggiani_monte	8279.7	Tr 200	107.47	77.40	79.62	79.62	80.13	0.008401	3.85	40.81	40.20	0.96
Cuggiani_monte	8279.7	Tr 500	129.16	77.40	79.77	79.77	80.32	0.008283	4.05	46.96	41.92	0.97
Cuggiani_monte	8253.39	Tr 50	75.42	76.50	78.57	78.57	79.15	0.007712	3.53	25.33	24.71	0.91
Cuggiani_monte	8253.39	Tr 100	91.30	76.50	78.74	78.74	79.38	0.007458	3.73	29.96	28.40	0.91
Cuggiani_monte	8253.39	Tr 200	107.47	76.50	78.95	78.95	79.58	0.006609	3.79	36.19	33.13	0.88
Cuggiani_monte	8253.39	Tr 500	129.16	76.50	79.17	79.17	79.81	0.006025	3.89	44.12	38.24	0.85
Cuggiani_monte	8227.08	Tr 50	75.42	75.90	78.14	78.14	78.72	0.008464	3.40	23.62	24.16	0.94
Cuggiani_monte	8227.08	Tr 100	91.30	75.90	78.32	78.32	78.94	0.007810	3.55	28.15	26.04	0.92
Cuggiani_monte	8227.08	Tr 200	107.47	75.90	78.48	78.48	79.15	0.007483	3.72	32.35	27.08	0.92
Cuggiani_monte	8227.08	Tr 500	129.16	75.90	78.67	78.67	79.40	0.007284	3.93	37.49	28.28	0.92
Cuggiani_monte	8202.07	Tr 50	75.42	75.00	77.80		78.05	0.002773	2.27	35.46	24.10	0.55
Cuggiani_monte	8202.07	Tr 100	91.30	75.00	78.02		78.30	0.002707	2.41	40.94	25.08	0.55
Cuggiani_monte	8202.07	Tr 200	107.47	75.00	78.24		78.55	0.002613	2.51	46.54	26.03	0.55
Cuggiani_monte	8202.07	Tr 500	129.16	75.00	78.52		78.85	0.002486	2.63	54.06	27.39	0.55
Cuggiani_monte	8177.06	Tr 50	75.42	74.70	77.56		77.95	0.004355	2.79	27.04	15.76	0.68
Cuggiani_monte	8177.06	Tr 100	91.30	74.70	77.70		78.19	0.005100	3.11	29.40	16.42	0.74
Cuggiani_monte	8177.06	Tr 200	107.47	74.70	77.83		78.42	0.005603	3.41	31.56	17.04	0.79
Cuggiani_monte	8177.06	Tr 500	129.16	74.70	77.98	77.75	78.71	0.006361	3.81	34.05	17.73	0.85
Cuggiani_monte	8152.05	Tr 50	75.42	74.10	77.63		77.83	0.001743	1.95	38.59	19.33	0.44
Cuggiani_monte	8152.05	Tr 100	91.30	74.10	77.80		78.04	0.001985	2.18	41.94	20.06	0.48
Cuggiani_monte	8152.05	Tr 200	107.47	74.10	77.96		78.25	0.002199	2.39	45.16	20.74	0.51
Cuggiani_monte	8152.05	Tr 500	129.16	74.10	78.15		78.50	0.002459	2.64	49.15	21.43	0.54
Cuggiani_monte	8127.04	Tr 50	75.42	75.00	77.62		77.77	0.001484	2.04	52.96	35.03	0.44
Cuggiani_monte	8127.04	Tr 100	91.30	75.00	77.81		77.98	0.001584	2.22	59.48	36.62	0.46
Cuggiani_monte	8127.04	Tr 200	107.47	75.00	77.98		78.17	0.001658	2.38	65.91	38.08	0.47
Cuggiani_monte	8127.04	Tr 500	129.16	75.00	78.19		78.41	0.001739	2.57	74.15	39.81	0.49
Cuggiani_monte	8102.03	Tr 50	75.42	75.90	77.17	77.17	77.66	0.009262	3.15	25.24	27.05	0.97
Cuggiani_monte	8102.03	Tr 100	91.30	75.90	77.30	77.30	77.86	0.008954	3.36	29.03	27.98	0.97
Cuggiani_monte	8102.03	Tr 200	107.47	75.90	77.44	77.44	78.05	0.008680	3.54	32.76	28.94	0.97
Cuggiani_monte	8102.03	Tr 500	129.16	75.90	77.60	77.60	78.28	0.008344	3.75	37.70	30.35	0.97
Cuggiani_monte	8077.02	Tr 50	75.42	73.50	75.67	75.67	76.28	0.010263	3.47	21.72	17.90	1.01
Cuggiani_monte	8077.02	Tr 100	91.30	73.50	75.87	75.87	76.52	0.010042	3.59	25.46	19.74	1.01
Cuggiani_monte	8077.02	Tr 200	107.47	73.50	76.02	76.02	76.74	0.009829	3.75	28.71	21.15	1.01
Cuggiani_monte	8077.02	Tr 500	129.16	73.50	76.23	76.23	77.01	0.009282	3.91	33.28	22.99	1.00
Cuggiani_monte	8052.01	Tr 50	75.42	72.90	75.14	75.14	75.76	0.009119	3.49	22.35	20.88	0.97
Cuggiani_monte	8052.01	Tr 100	91.30	72.90	75.33	75.33	76.00	0.008399	3.66	26.42	22.85	0.96
Cuggiani_monte	8052.01	Tr 200	107.47	72.90	75.50	75.50	76.22	0.007842	3.81	30.57	24.51	0.94
Cuggiani_monte	8052.01	Tr 500	129.16	72.90	75.72	75.72	76.49	0.007279	3.98	36.10	26.43	0.92
Cuggiani_monte	8027	Tr 50	75.42	72.30	74.23	74.23	74.77	0.009007	3.41	25.43	25.43	0.97
Cuggiani_monte	8027	Tr 100	91.30	72.30	74.38	74.38	74.98	0.008864	3.64	29.25	26.94	0.98
Cuggiani_monte	8027	Tr 200	107.47	72.30	74.54	74.54	75.18	0.008207	3.77	33.88	29.41	0.96
Cuggiani_monte	8027	Tr 500	129.16	72.30	74.74	74.74	75.42	0.007581	3.93	40.09	32.22	0.94

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	8001.99	Tr 50	75.42	71.40	73.74	73.74	74.32	0.009392	3.40	22.66	22.38	0.97
Cuggiani_monte	8001.99	Tr 100	91.30	71.40	73.94	73.94	74.55	0.008529	3.50	27.50	25.65	0.94
Cuggiani_monte	8001.99	Tr 200	107.47	71.40	74.12	74.12	74.75	0.007931	3.56	32.57	28.34	0.92
Cuggiani_monte	8001.99	Tr 500	129.16	71.40	74.30	74.30	74.99	0.007882	3.74	38.08	32.57	0.93
Cuggiani_monte	7976.98	Tr 50	75.42	70.80	72.90	72.90	73.37	0.008860	3.39	28.43	31.00	0.96
Cuggiani_monte	7976.98	Tr 100	91.30	70.80	73.03	73.03	73.57	0.008850	3.62	32.79	34.20	0.97
Cuggiani_monte	7976.98	Tr 200	107.47	70.80	73.18	73.18	73.74	0.008265	3.74	38.20	37.80	0.95
Cuggiani_monte	7976.98	Tr 500	129.16	70.80	73.35	73.35	73.95	0.007875	3.91	44.89	40.31	0.95
Cuggiani_monte	7951.97	Tr 50	75.42	70.50	71.73	71.73	72.12	0.011391	3.41	30.89	41.12	1.06
Cuggiani_monte	7951.97	Tr 100	91.30	70.50	71.84	71.84	72.28	0.011177	3.62	35.74	43.00	1.07
Cuggiani_monte	7951.97	Tr 200	107.47	70.50	71.96	71.96	72.43	0.010785	3.78	40.76	44.87	1.07
Cuggiani_monte	7951.97	Tr 500	129.16	70.50	72.09	72.09	72.61	0.010441	3.98	47.00	46.58	1.07
Cuggiani_monte	7926.96	Tr 50	75.42	69.60	71.08	71.08	71.55	0.007180	3.15	28.79	35.93	0.88
Cuggiani_monte	7926.96	Tr 100	91.30	69.60	71.23	71.23	71.72	0.006889	3.31	34.21	38.08	0.88
Cuggiani_monte	7926.96	Tr 200	107.47	69.60	71.35	71.35	71.89	0.006782	3.47	39.17	39.62	0.88
Cuggiani_monte	7926.96	Tr 500	129.16	69.60	71.51	71.51	72.09	0.006750	3.68	45.31	41.50	0.89
Cuggiani_monte	7901.95	Tr 50	75.42	68.10	70.41	70.41	70.52	0.001872	1.75	63.65	72.68	0.45
Cuggiani_monte	7901.95	Tr 100	91.30	68.10	70.67	70.67	70.76	0.001327	1.63	82.79	75.75	0.39
Cuggiani_monte	7901.95	Tr 200	107.47	68.10	70.91	70.91	71.00	0.001023	1.56	101.87	78.78	0.35
Cuggiani_monte	7901.95	Tr 500	129.16	68.10	71.06	71.06	71.15	0.001096	1.69	113.21	80.74	0.37
Cuggiani_monte	7876.94	Tr 50	75.42	67.20	69.73	69.73	70.38	0.009120	3.58	21.50	19.32	0.97
Cuggiani_monte	7876.94	Tr 100	91.30	67.20	69.93	69.93	70.63	0.008707	3.72	25.68	21.64	0.96
Cuggiani_monte	7876.94	Tr 200	107.47	67.20	70.05	70.05	70.87	0.009225	4.03	28.44	24.06	1.00
Cuggiani_monte	7876.94	Tr 500	129.16	67.20	70.54	70.54	71.06	0.004637	3.39	51.93	66.05	0.74
Cuggiani_monte	7851.93	Tr 50	75.42	67.20	68.54	68.54	68.95	0.007803	2.94	29.86	41.59	0.89
Cuggiani_monte	7851.93	Tr 100	91.30	67.20	68.66	68.66	69.11	0.007587	3.11	35.15	44.02	0.90
Cuggiani_monte	7851.93	Tr 200	107.47	67.20	68.78	68.78	69.26	0.007372	3.26	40.44	46.51	0.90
Cuggiani_monte	7851.93	Tr 500	129.16	67.20	68.91	68.91	69.44	0.007249	3.45	47.06	49.57	0.90
Cuggiani_monte	7826.92	Tr 50	75.42	66.00	67.56	67.56	67.94	0.012119	3.47	30.83	37.63	1.07
Cuggiani_monte	7826.92	Tr 100	91.30	66.00	67.67	67.67	68.09	0.012448	3.66	34.78	38.36	1.10
Cuggiani_monte	7826.92	Tr 200	107.47	66.00	67.83	67.83	68.23	0.010580	3.49	41.25	39.88	1.02
Cuggiani_monte	7826.92	Tr 500	129.16	66.00	67.91	67.91	68.38	0.012601	3.71	44.54	41.28	1.11
Cuggiani_monte	7801.91	Tr 50	75.42	65.70	67.07	67.07	67.44	0.012461	3.20	30.81	40.45	1.08
Cuggiani_monte	7801.91	Tr 100	91.30	65.70	67.19	67.17	67.59	0.012040	3.35	35.41	41.53	1.08
Cuggiani_monte	7801.91	Tr 200	107.47	65.70	67.32	67.27	67.73	0.010856	3.41	40.91	42.83	1.04
Cuggiani_monte	7801.91	Tr 500	129.16	65.70	67.47	67.39	67.91	0.009922	3.50	47.76	44.40	1.01
Cuggiani_monte	7776.9	Tr 50	75.42	65.10	66.68	66.68	67.08	0.015924	3.29	27.79	35.02	1.18
Cuggiani_monte	7776.9	Tr 100	91.30	65.10	66.79	66.79	67.24	0.015346	3.49	31.77	35.74	1.18
Cuggiani_monte	7776.9	Tr 200	107.47	65.10	66.89	66.89	67.40	0.014988	3.71	35.45	36.38	1.18
Cuggiani_monte	7776.9	Tr 500	129.16	65.10	67.02	67.02	67.60	0.014364	3.94	40.34	37.26	1.18
Cuggiani_monte	7751.89	Tr 50	75.42	64.20	66.58		66.77	0.003063	2.14	44.26	45.63	0.58
Cuggiani_monte	7751.89	Tr 100	91.30	64.20	66.68		66.91	0.003454	2.38	48.76	47.46	0.62
Cuggiani_monte	7751.89	Tr 200	107.47	64.20	66.75		67.04	0.003938	2.62	52.42	48.91	0.67
Cuggiani_monte	7751.89	Tr 500	129.16	64.20	66.81		67.18	0.004911	3.00	55.37	50.05	0.75
Cuggiani_monte	7726.88	Tr 50	75.42	64.20	66.34	66.34	66.65	0.006424	3.11	41.08	59.82	0.82
Cuggiani_monte	7726.88	Tr 100	91.30	64.20	66.42	66.42	66.78	0.007118	3.39	45.84	61.61	0.87
Cuggiani_monte	7726.88	Tr 200	107.47	64.20	66.51	66.51	66.90	0.007330	3.57	51.41	63.64	0.89
Cuggiani_monte	7726.88	Tr 500	129.16	64.20	66.64	66.64	67.04	0.007034	3.68	59.95	66.01	0.89
Cuggiani_monte	7701.8	Tr 50	75.42	62.70	65.10	65.10	65.50	0.005891	3.18	34.00	41.18	0.80
Cuggiani_monte	7701.8	Tr 100	91.30	62.70	65.21	65.21	65.67	0.006254	3.43	38.67	42.08	0.83
Cuggiani_monte	7701.8	Tr 200	107.47	62.70	65.33	65.33	65.82	0.006312	3.60	43.72	43.02	0.85
Cuggiani_monte	7701.8	Tr 500	129.16	62.70	65.46	65.46	66.00	0.006565	3.85	49.60	44.71	0.87
Cuggiani_monte	7676.72	Tr 50	75.42	63.00	64.66	64.66	65.03	0.007489	3.09	34.70	48.75	0.89
Cuggiani_monte	7676.72	Tr 100	91.30	63.00	64.78	64.78	65.17	0.007234	3.23	40.81	51.49	0.88
Cuggiani_monte	7676.72	Tr 200	107.47	63.00	64.87	64.87	65.31	0.007493	3.44	45.59	53.08	0.91
Cuggiani_monte	7676.72	Tr 500	129.16	63.00	64.99	64.99	65.47	0.007592	3.65	52.08	55.00	0.93
Cuggiani_monte	7651.64	Tr 50	75.42	62.70	64.11	64.11	64.41	0.009205	3.22	39.05	64.67	0.96
Cuggiani_monte	7651.64	Tr 100	91.30	62.70	64.20	64.20	64.52	0.009577	3.44	44.38	66.88	0.99
Cuggiani_monte	7651.64	Tr 200	107.47	62.70	64.27	64.27	64.63	0.009821	3.63	49.57	68.37	1.02
Cuggiani_monte	7651.64	Tr 500	129.16	62.70	64.37	64.37	64.76	0.009832	3.82	56.61	70.29	1.03
Cuggiani_monte	7626.56	Tr 50	75.42	61.50	63.48	63.48	63.87	0.006038	3.16	34.64	42.54	0.82
Cuggiani_monte	7626.56	Tr 100	91.30	61.50	63.57	63.57	64.03	0.006654	3.45	38.71	43.47	0.87
Cuggiani_monte	7626.56	Tr 200	107.47	61.50	63.75	63.75	64.17	0.005612	3.40	48.92	61.05	0.81
Cuggiani_monte	7626.56	Tr 500	129.16	61.50	63.88	63.88	64.33	0.005718	3.59	56.93	63.60	0.83
Cuggiani_monte	7601.53	Tr 50	75.42	62.10	63.10	63.10	63.49	0.018795	2.82	27.12	34.88	1.21
Cuggiani_monte	7601.53	Tr 100	91.30	62.10	63.21	63.21	63.64	0.018878	2.91	31.42	38.37	1.23
Cuggiani_monte	7601.53	Tr 200	107.47	62.10	63.40	63.40	63.77	0.016442	3.04	41.03	64.45	1.18
Cuggiani_monte	7601.53	Tr 500	129.16	62.10	63.50	63.50	63.91	0.015347	3.24	48.02	66.02	1.17

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	7576.5	Tr 50	75.42	61.50	62.77		62.98	0.006106	2.86	41.56	45.78	0.81
Cuggiani_monte	7576.5	Tr 100	91.30	61.50	62.93		63.16	0.005450	2.93	49.22	47.67	0.78
Cuggiani_monte	7576.5	Tr 200	107.47	61.50	63.07		63.34	0.005830	3.22	57.06	64.90	0.82
Cuggiani_monte	7576.5	Tr 500	129.16	61.50	63.30		63.53	0.004422	3.07	72.01	68.22	0.73
Cuggiani_monte	7551.52	Tr 50	75.42	60.90	62.65		62.85	0.004659	2.67	42.10	38.91	0.71
Cuggiani_monte	7551.52	Tr 100	91.30	60.90	62.81		63.03	0.004445	2.80	48.55	39.84	0.70
Cuggiani_monte	7551.52	Tr 200	107.47	60.90	62.97		63.20	0.004268	2.92	54.84	40.70	0.70
Cuggiani_monte	7551.52	Tr 500	129.16	60.90	63.16		63.42	0.004167	3.08	62.57	41.90	0.70
Cuggiani_monte	7526.54	Tr 50	75.42	59.70	62.50		62.73	0.004124	2.77	39.99	32.05	0.64
Cuggiani_monte	7526.54	Tr 100	91.30	59.70	62.64		62.91	0.004395	3.00	44.58	32.82	0.67
Cuggiani_monte	7526.54	Tr 200	107.47	59.70	62.77		63.08	0.004647	3.22	49.48	40.13	0.69
Cuggiani_monte	7526.54	Tr 500	129.16	59.70	62.94		63.29	0.004831	3.45	56.50	42.01	0.72
Cuggiani_monte	7501.4	Tr 50	75.42	60.00	62.15	62.15	62.57	0.009274	3.50	30.65	33.72	0.96
Cuggiani_monte	7501.4	Tr 100	91.30	60.00	62.27	62.27	62.74	0.009478	3.74	34.66	34.29	0.99
Cuggiani_monte	7501.4	Tr 200	107.47	60.00	62.38	62.38	62.90	0.009740	3.98	38.36	34.81	1.01
Cuggiani_monte	7501.4	Tr 500	129.16	60.00	62.52	62.52	63.10	0.009864	4.23	43.27	35.67	1.03
Cuggiani_monte	7476.26	Tr 50	75.42	59.10	61.64	61.64	62.12	0.005296	3.26	30.68	38.23	0.77
Cuggiani_monte	7476.26	Tr 100	91.30	59.10	61.81	61.81	62.30	0.004994	3.36	38.05	44.01	0.76
Cuggiani_monte	7476.26	Tr 200	107.47	59.10	61.94	61.94	62.46	0.005095	3.54	43.72	44.94	0.77
Cuggiani_monte	7476.26	Tr 500	129.16	59.10	62.09	62.09	62.65	0.005309	3.78	50.30	45.98	0.80
Cuggiani_monte	7451.21	Tr 50	75.42	59.10	61.38	61.38	61.80	0.006415	3.29	32.91	37.48	0.83
Cuggiani_monte	7451.21	Tr 100	91.30	59.10	61.48	61.48	61.97	0.007128	3.60	36.58	38.18	0.89
Cuggiani_monte	7451.21	Tr 200	107.47	59.10	61.69	61.69	62.15	0.006019	3.58	46.19	47.86	0.83
Cuggiani_monte	7451.21	Tr 500	129.16	59.10	61.83	61.83	62.33	0.006119	3.79	53.04	50.00	0.85
Cuggiani_monte	7426.16	Tr 50	75.42	58.80	60.76	60.76	61.18	0.005698	3.29	34.80	43.72	0.81
Cuggiani_monte	7426.16	Tr 100	91.30	58.80	60.90	60.90	61.34	0.005683	3.46	41.09	48.25	0.82
Cuggiani_monte	7426.16	Tr 200	107.47	58.80	61.01	61.01	61.49	0.005870	3.66	46.70	50.72	0.84
Cuggiani_monte	7426.16	Tr 500	129.16	58.80	61.19	61.19	61.67	0.005555	3.78	55.90	54.49	0.83
Cuggiani_monte	7401.15	Tr 50	75.42	58.20	60.60	60.60	60.92	0.006446	2.98	39.59	57.34	0.80
Cuggiani_monte	7401.15	Tr 100	91.30	58.20	60.67	60.67	61.04	0.007219	3.27	43.93	58.28	0.86
Cuggiani_monte	7401.15	Tr 200	107.47	58.20	60.76	60.76	61.16	0.007530	3.46	48.91	59.34	0.88
Cuggiani_monte	7401.15	Tr 500	129.16	58.20	60.89	60.89	61.31	0.007316	3.60	56.66	60.95	0.88
Cuggiani_monte	7376.14	Tr 50	75.42	57.30	60.15	60.15	60.61	0.004956	3.18	33.14	49.11	0.74
Cuggiani_monte	7376.14	Tr 100	91.30	57.30	60.34	60.34	60.77	0.004506	3.23	42.92	55.55	0.72
Cuggiani_monte	7376.14	Tr 200	107.47	57.30	60.47	60.47	60.91	0.004430	3.34	50.39	56.80	0.72
Cuggiani_monte	7376.14	Tr 500	129.16	57.30	60.60	60.60	61.08	0.004632	3.55	58.04	58.06	0.74
Cuggiani_monte	7351.13	Tr 50	75.42	57.60	59.91	59.91	60.37	0.005694	3.18	31.88	44.14	0.79
Cuggiani_monte	7351.13	Tr 100	91.30	57.60	60.13	60.13	60.53	0.004621	3.11	42.98	56.00	0.72
Cuggiani_monte	7351.13	Tr 200	107.47	57.60	60.23	60.23	60.67	0.004911	3.31	48.56	56.77	0.75
Cuggiani_monte	7351.13	Tr 500	129.16	57.60	60.34	60.34	60.84	0.005308	3.58	55.12	57.77	0.79
Cuggiani_monte	7326.12	Tr 50	75.42	57.00	59.63	59.63	60.03	0.005219	3.08	36.48	50.14	0.75
Cuggiani_monte	7326.12	Tr 100	91.30	57.00	59.75	59.75	60.18	0.005576	3.32	42.16	52.91	0.78
Cuggiani_monte	7326.12	Tr 200	107.47	57.00	59.88	59.88	60.32	0.005387	3.42	49.50	56.97	0.77
Cuggiani_monte	7326.12	Tr 500	129.16	57.00	60.01	60.01	60.48	0.005522	3.61	57.39	60.77	0.79
Cuggiani_monte	7301.11	Tr 50	75.42	56.10	59.25	59.25	59.80	0.005712	2.96	37.74	56.66	0.75
Cuggiani_monte	7301.11	Tr 100	91.30	56.10	59.36	59.36	59.74	0.005752	3.12	44.43	58.10	0.76
Cuggiani_monte	7301.11	Tr 200	107.47	56.10	59.45	59.45	59.86	0.006095	3.32	49.61	58.90	0.79
Cuggiani_monte	7301.11	Tr 500	129.16	56.10	59.56	59.56	60.01	0.006424	3.55	56.16	59.64	0.82
Cuggiani_monte	7276.1	Tr 50	75.42	56.10	58.58	58.58	59.03	0.005890	3.16	30.60	38.43	0.79
Cuggiani_monte	7276.1	Tr 100	91.30	56.10	58.71	58.71	59.21	0.005947	3.35	35.97	39.05	0.81
Cuggiani_monte	7276.1	Tr 200	107.47	56.10	58.84	58.84	59.37	0.006039	3.53	40.85	39.81	0.82
Cuggiani_monte	7276.1	Tr 500	129.16	56.10	58.99	58.99	59.57	0.006071	3.74	47.20	41.39	0.83
Cuggiani_monte	7251.09	Tr 50	75.42	55.80	58.20	58.20	58.69	0.006401	3.34	30.04	37.17	0.81
Cuggiani_monte	7251.09	Tr 100	91.30	55.80	58.40	58.40	58.87	0.005522	3.34	38.17	40.66	0.77
Cuggiani_monte	7251.09	Tr 200	107.47	55.80	58.52	58.52	59.03	0.005748	3.54	42.93	41.40	0.79
Cuggiani_monte	7251.09	Tr 500	129.16	55.80	58.65	58.65	59.22	0.006093	3.81	48.56	42.38	0.82
Cuggiani_monte	7226.08	Tr 50	75.42	55.20	57.77	57.77	58.31	0.006339	3.35	26.95	29.00	0.82
Cuggiani_monte	7226.08	Tr 100	91.30	55.20	57.89	57.89	58.52	0.007051	3.69	30.36	29.95	0.88
Cuggiani_monte	7226.08	Tr 200	107.47	55.20	58.09	58.09	58.73	0.006438	3.78	36.86	35.95	0.85
Cuggiani_monte	7226.08	Tr 500	129.16	55.20	58.34	58.34	58.96	0.005628	3.82	46.62	42.60	0.81
Cuggiani_monte	7201.07	Tr 50	75.42	55.20	57.57	57.57	58.07	0.007651	3.36	28.14	30.39	0.87
Cuggiani_monte	7201.07	Tr 100	91.30	55.20	57.75	57.75	58.26	0.007458	3.45	34.08	34.72	0.87
Cuggiani_monte	7201.07	Tr 200	107.47	55.20	57.89	57.89	58.43	0.007538	3.60	39.07	37.21	0.89
Cuggiani_monte	7201.07	Tr 500	129.16	55.20	58.04	58.04	58.64	0.007562	3.82	45.02	40.07	0.90
Cuggiani_monte	7176.06	Tr 50	75.42	54.90	57.46		57.77	0.004051	2.72	38.18	44.56	0.65
Cuggiani_monte	7176.06	Tr 100	91.30	54.90	57.59	57.43	57.93	0.004340	2.94	43.82	46.82	0.69
Cuggiani_monte	7176.06	Tr 200	107.47	54.90	57.68	57.57	58.08	0.004808	3.20	48.35	49.57	0.73
Cuggiani_monte	7176.06	Tr 500	129.16	54.90	57.77	57.71	58.26	0.005726	3.59	52.64	52.18	0.80

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	7151.05	Tr 50	75.42	54.60	57.23	57.23	57.64	0.005227	3.09	34.97	49.33	0.74
Cuggiani_monte	7151.05	Tr 100	91.30	54.60	57.36	57.36	57.80	0.005403	3.30	41.49	53.38	0.77
Cuggiani_monte	7151.05	Tr 200	107.47	54.60	57.48	57.48	57.95	0.005454	3.45	48.17	56.94	0.78
Cuggiani_monte	7151.05	Tr 500	129.16	54.60	57.64	57.64	58.11	0.005246	3.57	57.90	61.46	0.77
Cuggiani_monte	7126.04	Tr 50	75.42	54.30	56.77		56.86	0.001805	1.74	65.62	65.40	0.44
Cuggiani_monte	7126.04	Tr 100	91.30	54.30	57.20		57.26	0.000947	1.48	95.35	73.68	0.33
Cuggiani_monte	7126.04	Tr 200	107.47	54.30	56.79		56.97	0.003455	2.43	67.04	65.74	0.61
Cuggiani_monte	7126.04	Tr 500	129.16	54.30	56.92		57.12	0.003565	2.60	75.66	67.74	0.63
Cuggiani_monte	7106.18	Tr 50	75.42	53.10	56.77		56.83	0.000601	1.32	89.09	71.89	0.27
Cuggiani_monte	7106.18	Tr 100	91.30	53.10	57.20		57.24	0.000428	1.24	122.42	84.35	0.23
Cuggiani_monte	7106.18	Tr 200	107.47	53.10	56.79		56.90	0.001174	1.86	90.65	72.54	0.37
Cuggiani_monte	7106.18	Tr 500	129.16	53.10	56.91		57.05	0.001366	2.07	99.83	76.27	0.40
Cuggiani_monte	7092.89	Tr 50	75.42	53.70	56.72	56.10	56.81	0.001068	1.61	74.06	74.64	0.35
Cuggiani_monte	7092.89	Tr 100	91.30	53.70	57.17	56.10	57.23	0.000592	1.37	111.02	88.07	0.27
Cuggiani_monte	7092.89	Tr 200	107.47	53.70	56.66	56.21	56.86	0.002459	2.40	69.78	71.42	0.54
Cuggiani_monte	7092.89	Tr 500	129.16	53.70	56.75	56.35	57.00	0.002883	2.68	76.76	75.67	0.58
Cuggiani_monte	7079.6		Bridge									
Cuggiani_monte	7061.55	Tr 50	75.42	53.40	55.80	55.80	56.67	0.008585	4.25	21.99	57.47	1.00
Cuggiani_monte	7061.55	Tr 100	91.30	53.40	55.80	55.80	57.07	0.012581	5.15	21.99	57.47	1.21
Cuggiani_monte	7061.55	Tr 200	107.47	53.40	56.10	56.10	56.36	0.003306	2.71	65.16	75.99	0.63
Cuggiani_monte	7061.55	Tr 500	129.16	53.40	56.10	56.10	56.48	0.004776	3.25	65.16	75.99	0.75
Cuggiani_monte	7036.54	Tr 50	75.42	53.40	54.85	54.85	55.24	0.011623	3.38	30.72	45.28	1.06
Cuggiani_monte	7036.54	Tr 100	91.30	53.40	54.98	54.98	55.39	0.010625	3.50	37.11	50.85	1.03
Cuggiani_monte	7036.54	Tr 200	107.47	53.40	55.09	55.09	55.53	0.010201	3.64	42.95	54.68	1.03
Cuggiani_monte	7036.54	Tr 500	129.16	53.40	55.24	55.23	55.69	0.009302	3.75	51.54	59.30	1.00
Cuggiani_monte	7011.53	Tr 50	75.42	52.20	54.59	54.59	55.02	0.005028	3.29	36.12	46.60	0.76
Cuggiani_monte	7011.53	Tr 100	91.30	52.20	54.74	54.74	55.18	0.004971	3.44	43.32	50.29	0.76
Cuggiani_monte	7011.53	Tr 200	107.47	52.20	54.86	54.86	55.32	0.005100	3.62	49.56	53.26	0.78
Cuggiani_monte	7011.53	Tr 500	129.16	52.20	55.00	55.00	55.50	0.005331	3.85	57.10	56.88	0.80
Cuggiani_monte	6986.52	Tr 50	75.42	52.50	54.40	54.40	54.70	0.006600	2.72	38.73	56.59	0.81
Cuggiani_monte	6986.52	Tr 100	91.30	52.50	54.48	54.48	54.81	0.007915	2.94	42.85	58.95	0.89
Cuggiani_monte	6986.52	Tr 200	107.47	52.50	54.53	54.53	54.92	0.008986	3.19	46.39	60.94	0.95
Cuggiani_monte	6986.52	Tr 500	129.16	52.50	54.64	54.64	55.06	0.008839	3.36	53.20	64.10	0.96
Cuggiani_monte	6961.51	Tr 50	75.42	51.90	53.56	53.56	53.86	0.007127	2.97	41.70	67.79	0.85
Cuggiani_monte	6961.51	Tr 100	91.30	51.90	53.65	53.65	53.97	0.007347	3.15	47.70	69.60	0.87
Cuggiani_monte	6961.51	Tr 200	107.47	51.90	53.71	53.71	54.08	0.008164	3.42	51.85	70.94	0.93
Cuggiani_monte	6961.51	Tr 500	129.16	51.90	53.83	53.83	54.21	0.007974	3.57	60.38	75.00	0.93
Cuggiani_monte	6936.52	Tr 50	75.42	51.60	53.40		53.58	0.003704	2.25	51.88	72.96	0.63
Cuggiani_monte	6936.52	Tr 100	91.30	51.60	53.31	53.31	53.65	0.007300	3.03	46.08	69.90	0.87
Cuggiani_monte	6936.52	Tr 200	107.47	51.60	53.40	53.40	53.76	0.007362	3.19	52.32	73.17	0.89
Cuggiani_monte	6936.52	Tr 500	129.16	51.60	53.51	53.51	53.89	0.007242	3.34	60.67	76.38	0.89
Cuggiani_monte	6911.53	Tr 50	75.42	51.00	52.76	52.76	53.38	0.011102	4.19	27.90	35.22	1.09
Cuggiani_monte	6911.53	Tr 100	91.30	51.00	53.13	53.13	53.48	0.005424	3.39	50.78	72.99	0.79
Cuggiani_monte	6911.53	Tr 200	107.47	51.00	53.23	53.23	53.59	0.005377	3.50	58.70	76.59	0.79
Cuggiani_monte	6911.53	Tr 500	129.16	51.00	53.35	53.35	53.72	0.005591	3.70	67.38	80.35	0.82
Cuggiani_monte	6886.49	Tr 50	75.42	50.40	52.40	52.40	52.80	0.007095	3.18	34.32	51.28	0.86
Cuggiani_monte	6886.49	Tr 100	91.30	50.40	52.56	52.56	52.95	0.006388	3.23	43.00	59.96	0.83
Cuggiani_monte	6886.49	Tr 200	107.47	50.40	52.66	52.66	53.07	0.006355	3.37	49.60	62.84	0.84
Cuggiani_monte	6886.49	Tr 500	129.16	50.40	52.78	52.78	53.23	0.006622	3.60	56.88	65.88	0.86
Cuggiani_monte	6861.45	Tr 50	75.42	50.10	52.15		52.33	0.004114	2.35	49.57	67.57	0.65
Cuggiani_monte	6861.45	Tr 100	91.30	50.10	52.31		52.48	0.003586	2.36	60.35	72.02	0.62
Cuggiani_monte	6861.45	Tr 200	107.47	50.10	52.44		52.62	0.003339	2.41	69.94	75.19	0.61
Cuggiani_monte	6861.45	Tr 500	129.16	50.10	52.60		52.78	0.003105	2.48	82.40	79.81	0.59
Cuggiani_monte	6836.44	Tr 50	75.42	49.80	51.83	51.83	52.19	0.006148	3.06	37.33	51.73	0.79
Cuggiani_monte	6836.44	Tr 100	91.30	49.80	51.92	51.92	52.34	0.006771	3.34	42.07	53.85	0.84
Cuggiani_monte	6836.44	Tr 200	107.47	49.80	52.05	52.05	52.48	0.006611	3.46	49.00	58.57	0.84
Cuggiani_monte	6836.44	Tr 500	129.16	49.80	52.17	52.17	52.64	0.006963	3.72	56.13	63.05	0.87
Cuggiani_monte	6811.43	Tr 50	75.42	49.50	51.53	51.53	51.89	0.007068	3.13	36.21	49.27	0.85
Cuggiani_monte	6811.43	Tr 100	91.30	49.50	51.64	51.64	52.04	0.007268	3.34	41.66	51.48	0.87
Cuggiani_monte	6811.43	Tr 200	107.47	49.50	51.74	51.74	52.17	0.007455	3.53	46.84	53.46	0.89
Cuggiani_monte	6811.43	Tr 500	129.16	49.50	51.85	51.85	52.33	0.007739	3.77	53.23	55.80	0.92
Cuggiani_monte	6786.27	Tr 50	75.42	49.20	51.25	51.25	51.61	0.006994	3.19	36.68	50.11	0.85
Cuggiani_monte	6786.27	Tr 100	91.30	49.20	51.35	51.35	51.76	0.007456	3.44	41.76	53.05	0.88
Cuggiani_monte	6786.27	Tr 200	107.47	49.20	51.45	51.45	51.89	0.007725	3.65	47.21	57.49	0.91
Cuggiani_monte	6786.27	Tr 500	129.16	49.20	51.61	51.61	52.05	0.007064	3.72	57.22	64.63	0.88
Cuggiani_monte	6760.92	Tr 50	75.42	48.90	51.10		51.34	0.004554	2.64	44.59	54.58	0.70
Cuggiani_monte	6760.92	Tr 100	91.30	48.90	51.25		51.49	0.004237	2.71	52.72	56.63	0.68

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	6760.92	Tr 200	107.47	48.90	51.39		51.63	0.003962	2.77	60.77	58.39	0.67
Cuggiani_monte	6760.92	Tr 500	129.16	48.90	51.56		51.81	0.003698	2.85	71.00	60.41	0.66
Cuggiani_monte	6735.76	Tr 50	75.42	49.20	51.11		51.20	0.003144	1.61	60.50	67.32	0.53
Cuggiani_monte	6735.76	Tr 100	91.30	49.20	51.27		51.36	0.002801	1.68	70.99	68.70	0.51
Cuggiani_monte	6735.76	Tr 200	107.47	49.20	51.41		51.51	0.002604	1.76	81.03	70.53	0.51
Cuggiani_monte	6735.76	Tr 500	129.16	49.20	51.59		51.69	0.002435	1.86	93.73	72.97	0.50
Cuggiani_monte	6710.38	Tr 50	75.42	48.00	51.00		51.12	0.002668	1.93	52.33	45.57	0.49
Cuggiani_monte	6710.38	Tr 100	91.30	48.00	51.14		51.28	0.002814	2.10	58.82	47.48	0.51
Cuggiani_monte	6710.38	Tr 200	107.47	48.00	51.27		51.43	0.002931	2.25	65.13	49.26	0.53
Cuggiani_monte	6710.38	Tr 500	129.16	48.00	51.43		51.62	0.003052	2.42	73.63	55.41	0.55
Cuggiani_monte	6685.03	Tr 50	75.42	48.60	50.99		51.06	0.001298	1.43	70.87	52.80	0.37
Cuggiani_monte	6685.03	Tr 100	91.30	48.60	51.14		51.21	0.001381	1.57	78.50	53.57	0.38
Cuggiani_monte	6685.03	Tr 200	107.47	48.60	51.27		51.36	0.001456	1.69	85.67	54.25	0.40
Cuggiani_monte	6685.03	Tr 500	129.16	48.60	51.43		51.54	0.001545	1.85	94.56	55.07	0.42
Cuggiani_monte	6660.02	Tr 50	75.42	48.30	50.95		51.02	0.001262	1.61	69.04	47.98	0.36
Cuggiani_monte	6660.02	Tr 100	91.30	48.30	51.09		51.18	0.001392	1.76	75.70	48.54	0.38
Cuggiani_monte	6660.02	Tr 200	107.47	48.30	51.22		51.32	0.001511	1.91	81.93	49.07	0.40
Cuggiani_monte	6660.02	Tr 500	129.16	48.30	51.37		51.50	0.001656	2.08	89.62	49.72	0.42
Cuggiani_monte	6634.64	Tr 50	75.42	48.00	50.53	50.53	50.93	0.008178	3.48	33.96	42.08	0.87
Cuggiani_monte	6634.64	Tr 100	91.30	48.00	50.66	50.66	51.07	0.008019	3.63	39.55	44.85	0.87
Cuggiani_monte	6634.64	Tr 200	107.47	48.00	50.78	50.78	51.21	0.007921	3.76	45.21	49.88	0.88
Cuggiani_monte	6634.64	Tr 500	129.16	48.00	50.89	50.89	51.38	0.008519	4.05	50.64	50.97	0.92
Cuggiani_monte	6609.63	Tr 50	75.42	47.70	50.21		50.38	0.004455	2.28	44.85	45.63	0.65
Cuggiani_monte	6609.63	Tr 100	91.30	47.70	50.34		50.54	0.004429	2.42	50.95	46.39	0.65
Cuggiani_monte	6609.63	Tr 200	107.47	47.70	50.48		50.69	0.004316	2.55	57.30	47.63	0.66
Cuggiani_monte	6609.63	Tr 500	129.16	47.70	50.62		50.87	0.004466	2.75	64.17	49.31	0.68
Cuggiani_monte	6584.32	Tr 50	75.42	47.40	50.11		50.28	0.003902	2.35	48.79	51.80	0.60
Cuggiani_monte	6584.32	Tr 100	91.30	47.40	50.25		50.43	0.003761	2.45	56.26	52.75	0.60
Cuggiani_monte	6584.32	Tr 200	107.47	47.40	50.40		50.59	0.003528	2.51	64.19	53.75	0.59
Cuggiani_monte	6584.32	Tr 500	129.16	47.40	50.55		50.76	0.003593	2.67	72.15	54.70	0.61
Cuggiani_monte	6559.01	Tr 50	75.42	47.10	50.07		50.19	0.002145	1.93	58.84	58.31	0.47
Cuggiani_monte	6559.01	Tr 100	91.30	47.10	50.21		50.35	0.002157	2.03	67.45	60.95	0.48
Cuggiani_monte	6559.01	Tr 200	107.47	47.10	50.36		50.51	0.002068	2.10	77.00	64.07	0.48
Cuggiani_monte	6559.01	Tr 500	129.16	47.10	50.51		50.67	0.002201	2.27	86.67	68.93	0.50
Cuggiani_monte	6534.43	Tr 50	75.42	46.80	49.68	49.68	50.07	0.007880	3.19	34.10	45.98	0.86
Cuggiani_monte	6534.43	Tr 100	91.30	46.80	49.79	49.79	50.22	0.008024	3.40	39.58	48.91	0.88
Cuggiani_monte	6534.43	Tr 200	107.47	46.80	49.86	49.86	50.37	0.009134	3.73	43.11	51.26	0.95
Cuggiani_monte	6534.43	Tr 500	129.16	46.80	50.07	50.07	50.55	0.007671	3.71	54.77	61.18	0.89
Cuggiani_monte	6509.34	Tr 50	75.42	46.80	49.25	49.25	49.70	0.009961	3.48	30.15	39.29	0.98
Cuggiani_monte	6509.34	Tr 100	91.30	46.80	49.34	49.34	49.87	0.011300	3.82	33.67	44.33	1.05
Cuggiani_monte	6509.34	Tr 200	107.47	46.80	49.62	49.62	50.02	0.007670	3.43	48.83	59.38	0.89
Cuggiani_monte	6509.34	Tr 500	129.16	46.80	49.74	49.74	50.17	0.007844	3.64	55.75	63.19	0.91
Cuggiani_monte	6484.26	Tr 50	75.42	46.50	48.69	48.69	49.02	0.008753	3.21	36.68	51.34	0.93
Cuggiani_monte	6484.26	Tr 100	91.30	46.50	48.78	48.78	49.15	0.008990	3.43	41.75	52.88	0.95
Cuggiani_monte	6484.26	Tr 200	107.47	46.50	48.85	48.85	49.28	0.009779	3.70	45.56	54.01	1.00
Cuggiani_monte	6484.26	Tr 500	129.16	46.50	48.96	48.96	49.44	0.010277	3.98	51.36	56.65	1.04
Cuggiani_monte	6459.67	Tr 50	75.42	45.60	48.30	48.30	48.63	0.007172	3.00	37.62	53.73	0.83
Cuggiani_monte	6459.67	Tr 100	91.30	45.60	48.40	48.39	48.76	0.007421	3.20	42.97	55.30	0.86
Cuggiani_monte	6459.67	Tr 200	107.47	45.60	48.49	48.49	48.88	0.007778	3.41	47.72	56.66	0.89
Cuggiani_monte	6459.67	Tr 500	129.16	45.60	48.59	48.59	49.04	0.008295	3.67	53.41	58.25	0.93
Cuggiani_monte	6434.66	Tr 50	75.42	46.50	48.40		48.47	0.001567	1.45	66.07	63.38	0.41
Cuggiani_monte	6434.66	Tr 100	91.30	46.50	48.50		48.60	0.001736	1.60	72.82	64.03	0.43
Cuggiani_monte	6434.66	Tr 200	107.47	46.50	48.60		48.71	0.001901	1.75	78.94	64.61	0.46
Cuggiani_monte	6434.66	Tr 500	129.16	46.50	48.69		48.83	0.002196	1.96	85.15	65.07	0.50
Cuggiani_monte	6409.65	Tr 50	75.42	47.10	48.11	48.11	48.37	0.012698	3.53	39.47	68.78	1.12
Cuggiani_monte	6409.65	Tr 100	91.30	47.10	48.15	48.15	48.48	0.014767	3.93	42.87	70.53	1.22
Cuggiani_monte	6409.65	Tr 200	107.47	47.10	48.26	48.26	48.59	0.013834	4.05	50.62	79.81	1.20
Cuggiani_monte	6409.65	Tr 500	129.16	47.10	48.41	48.41	48.71	0.011415	3.99	63.97	95.15	1.11
Cuggiani_monte	6384.64	Tr 50	75.42	44.70	47.31	47.31	47.70	0.006992	3.13	33.83	44.47	0.84
Cuggiani_monte	6384.64	Tr 100	91.30	44.70	47.42	47.42	47.85	0.007184	3.33	38.80	45.48	0.86
Cuggiani_monte	6384.64	Tr 200	107.47	44.70	47.53	47.53	47.99	0.007134	3.49	44.06	47.18	0.87
Cuggiani_monte	6384.64	Tr 500	129.16	44.70	47.66	47.66	48.16	0.007230	3.70	50.39	49.14	0.89
Cuggiani_monte	6359.63	Tr 50	75.42	45.00	46.78	46.78	47.12	0.011548	3.30	35.84	59.24	1.04
Cuggiani_monte	6359.63	Tr 100	91.30	45.00	46.91	46.91	47.24	0.009785	3.29	44.44	65.42	0.97
Cuggiani_monte	6359.63	Tr 200	107.47	45.00	47.00	47.00	47.35	0.009850	3.45	49.96	67.72	0.99
Cuggiani_monte	6359.63	Tr 500	129.16	45.00	47.06	47.06	47.49	0.011471	3.84	54.05	69.37	1.07
Cuggiani_monte	6334.62	Tr 50	75.42	44.70	46.50		46.65	0.004981	2.18	48.36	61.39	0.69
Cuggiani_monte	6334.62	Tr 100	91.30	44.70	46.60		46.78	0.005522	2.43	54.39	66.90	0.74

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani_monte	6334.62	Tr 200	107.47	44.70	46.70		46.90	0.005717	2.62	61.35	72.75	0.76
Cuggiani_monte	6334.62	Tr 500	129.16	44.70	46.81		47.05	0.005948	2.84	70.16	79.50	0.79
Cuggiani_monte	6309.61	Tr 50	75.42	44.85	46.50		46.55	0.001827	1.65	90.30	122.28	0.44
Cuggiani_monte	6309.61	Tr 100	91.30	44.85	46.62		46.67	0.001763	1.71	104.49	127.28	0.44
Cuggiani_monte	6309.61	Tr 200	107.47	44.85	46.73		46.78	0.001799	1.81	119.83	142.46	0.45
Cuggiani_monte	6309.61	Tr 500	129.16	44.85	46.87		46.92	0.001638	1.82	139.85	146.44	0.44
Cuggiani_monte	6284.61	Tr 50	75.42	44.55	46.51		46.52	0.000380	0.85	155.28	156.45	0.21
Cuggiani_monte	6284.61	Tr 100	91.30	44.55	46.62		46.64	0.000403	0.92	173.19	158.88	0.22
Cuggiani_monte	6284.61	Tr 200	107.47	44.55	46.73		46.75	0.000429	0.99	191.24	166.73	0.23
Cuggiani_monte	6284.61	Tr 500	129.16	44.55	46.87		46.89	0.000464	1.07	215.07	179.99	0.24
Cuggiani_monte	6259.61	Tr 50	75.42	44.40	46.51		46.51	0.000193	0.66	212.04	188.84	0.15
Cuggiani_monte	6259.61	Tr 100	91.30	44.40	46.62		46.63	0.000212	0.72	233.77	193.29	0.16
Cuggiani_monte	6259.61	Tr 200	107.47	44.40	46.73		46.74	0.000233	0.79	256.08	203.78	0.17
Cuggiani_monte	6259.61	Tr 500	129.16	44.40	46.87		46.88	0.000245	0.84	284.36	207.01	0.18
Cuggiani_monte	6254	Tr 50	75.42	43.70	46.50		46.51	0.000127	0.59	226.13	166.19	0.13
Cuggiani_monte	6254	Tr 100	91.30	43.70	46.62		46.62	0.000147	0.66	245.11	169.80	0.14
Cuggiani_monte	6254	Tr 200	107.47	43.70	46.73		46.74	0.000166	0.72	264.19	174.27	0.15
Cuggiani_monte	6254	Tr 500	129.16	43.70	46.86		46.88	0.000186	0.79	288.38	179.28	0.16
Cuggiani-med1	6246.02	Tr 50	164.69	43.35	46.42	45.77	46.49	0.000939	1.76	182.87	160.66	0.35
Cuggiani-med1	6246.02	Tr 100	199.37	43.35	46.51	45.88	46.61	0.001120	1.97	198.25	166.49	0.39
Cuggiani-med1	6246.02	Tr 200	234.68	43.35	46.61	45.88	46.72	0.001266	2.14	214.31	170.84	0.41
Cuggiani-med1	6246.02	Tr 500	282.04	43.35	46.72	46.11	46.85	0.001451	2.36	234.41	177.48	0.45
Cuggiani-med1	6241.36		Bridge									
Cuggiani-med1	6232.64	Tr 50	164.69	43.40	45.68	45.60	45.76	0.001148	1.68	154.51	115.88	0.38
Cuggiani-med1	6232.64	Tr 100	199.37	43.40	45.86	45.60	45.95	0.001166	1.79	175.22	119.46	0.39
Cuggiani-med1	6232.64	Tr 200	234.68	43.40	46.00	45.60	46.09	0.001248	1.93	191.54	122.52	0.40
Cuggiani-med1	6232.64	Tr 500	282.04	43.40	46.18	45.60	46.29	0.001299	2.07	214.47	126.30	0.42
Cuggiani-med1	6214.03	Tr 50	164.69	43.05	45.51	45.72	45.72	0.003028	2.82	109.81	109.43	0.62
Cuggiani-med1	6214.03	Tr 100	199.37	43.05	45.69	45.34	45.90	0.002984	2.95	130.13	118.57	0.62
Cuggiani-med1	6214.03	Tr 200	234.68	43.05	45.82	46.05	46.05	0.003016	3.08	146.23	122.48	0.63
Cuggiani-med1	6214.03	Tr 500	282.04	43.05	46.03	46.25	46.25	0.002777	3.12	171.64	126.55	0.61
Cuggiani-med1	6203.48	Tr 50	164.69	43.05	45.21	45.21	45.85	0.006151	3.77	77.40	89.77	0.87
Cuggiani-med1	6203.48	Tr 100	199.37	43.05	45.30	45.30	45.82	0.007185	4.19	85.24	93.67	0.94
Cuggiani-med1	6203.48	Tr 200	234.68	43.05	45.47	45.47	45.98	0.006539	4.23	102.45	103.81	0.91
Cuggiani-med1	6203.48	Tr 500	282.04	43.05	45.66	45.66	46.18	0.006291	4.39	123.78	117.56	0.91
Cuggiani-med1	6176.33	Tr 50	164.69	42.15	44.89	44.89	45.36	0.004673	3.52	74.41	78.93	0.77
Cuggiani-med1	6176.33	Tr 100	199.37	42.15	45.04	45.04	45.55	0.004902	3.77	86.59	85.68	0.79
Cuggiani-med1	6176.33	Tr 200	234.68	42.15	45.12	45.12	45.73	0.005679	4.15	93.50	87.56	0.86
Cuggiani-med1	6176.33	Tr 500	282.04	42.15	45.49	45.49	45.96	0.004065	3.86	133.19	122.57	0.74
Cuggiani-med1	6153.46	Tr 50	164.69	42.00	44.59	44.59	45.05	0.005900	3.78	71.80	81.92	0.85
Cuggiani-med1	6153.46	Tr 100	199.37	42.00	44.73	44.73	45.23	0.006058	4.01	83.60	83.91	0.87
Cuggiani-med1	6153.46	Tr 200	234.68	42.00	44.85	44.85	45.39	0.006335	4.25	94.20	87.06	0.90
Cuggiani-med1	6153.46	Tr 500	282.04	42.00	45.02	45.02	45.60	0.006418	4.49	109.24	91.98	0.91
Cuggiani-med1	6127.86	Tr 50	164.69	41.70	44.35	44.75	44.75	0.004575	3.36	68.62	48.96	0.74
Cuggiani-med1	6127.86	Tr 100	199.37	41.70	44.42	44.23	44.95	0.005921	3.91	72.77	95.50	0.85
Cuggiani-med1	6127.86	Tr 200	234.68	41.70	44.57	44.57	45.14	0.006043	4.13	86.92	96.61	0.87
Cuggiani-med1	6127.86	Tr 500	282.04	41.70	44.76	44.76	45.35	0.005890	4.29	105.43	98.00	0.87
Cuggiani-med1	6103.44	Tr 50	164.69	41.10	44.17	44.17	44.62	0.005399	3.62	73.07	84.96	0.80
Cuggiani-med1	6103.44	Tr 100	199.37	41.10	44.31	44.31	44.79	0.005511	3.83	85.73	86.21	0.82
Cuggiani-med1	6103.44	Tr 200	234.68	41.10	44.44	44.44	44.96	0.005754	4.06	96.37	87.18	0.84
Cuggiani-med1	6103.44	Tr 500	282.04	41.10	44.59	44.59	45.15	0.005971	4.31	109.72	88.21	0.86
Cuggiani-med1	6078.94	Tr 50	164.69	40.80	43.85	43.72	44.25	0.003717	3.04	75.01	77.01	0.67
Cuggiani-med1	6078.94	Tr 100	199.37	40.80	44.03	43.89	44.45	0.003684	3.20	88.90	78.56	0.68
Cuggiani-med1	6078.94	Tr 200	234.68	40.80	44.19	44.63	44.63	0.003662	3.34	101.85	79.99	0.68
Cuggiani-med1	6078.94	Tr 500	282.04	40.80	44.37	44.85	44.85	0.003772	3.56	116.35	81.58	0.70
Cuggiani-med1	6053.42	Tr 50	164.69	40.50	43.88	44.13	44.13	0.001892	2.46	95.19	71.22	0.49
Cuggiani-med1	6053.42	Tr 100	199.37	40.50	44.05	44.33	44.33	0.002035	2.67	107.33	71.54	0.52
Cuggiani-med1	6053.42	Tr 200	234.68	40.50	44.21	44.52	44.52	0.002168	2.86	118.50	71.94	0.54
Cuggiani-med1	6053.42	Tr 500	282.04	40.50	44.37	44.74	44.74	0.002413	3.13	130.39	72.40	0.58
Cuggiani-med1	6027.99	Tr 50	164.69	40.80	43.87	44.06	44.06	0.002605	2.66	101.59	73.13	0.55
Cuggiani-med1	6027.99	Tr 100	199.37	40.80	44.04	44.26	44.26	0.002676	2.83	114.45	73.75	0.57
Cuggiani-med1	6027.99	Tr 200	234.68	40.80	44.20	44.44	44.44	0.002758	2.99	126.29	74.32	0.58
Cuggiani-med1	6027.99	Tr 500	282.04	40.80	44.37	44.65	44.65	0.002987	3.24	138.90	74.92	0.61
Cuggiani-med1	6003.4	Tr 50	164.69	40.80	43.82	43.99	43.99	0.002574	2.66	105.72	75.92	0.55
Cuggiani-med1	6003.4	Tr 100	199.37	40.80	43.99	44.18	44.18	0.002686	2.84	119.04	78.28	0.57
Cuggiani-med1	6003.4	Tr 200	234.68	40.80	44.15	44.36	44.36	0.002804	3.02	131.44	80.48	0.59
Cuggiani-med1	6003.4	Tr 500	282.04	40.80	44.31	44.56	44.56	0.003076	3.29	144.83	82.93	0.62

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med1	5977.06	Tr 50	164.69	39.90	43.57		43.88	0.004638	3.15	85.42	82.87	0.70
Cuggiani-med1	5977.06	Tr 100	199.37	39.90	43.79	43.49	44.09	0.003997	3.13	104.11	86.39	0.66
Cuggiani-med1	5977.06	Tr 200	234.68	39.90	43.97		44.27	0.003788	3.20	119.55	89.07	0.65
Cuggiani-med1	5977.06	Tr 500	282.04	39.90	44.13		44.46	0.003971	3.42	134.04	91.22	0.68
Cuggiani-med1	5953.38	Tr 50	164.69	39.90	43.41		43.77	0.005381	3.44	77.17	72.73	0.74
Cuggiani-med1	5953.38	Tr 100	199.37	39.90	43.38	43.38	43.93	0.008412	4.26	75.14	71.55	0.93
Cuggiani-med1	5953.38	Tr 200	234.68	39.90	43.60	43.50	44.12	0.007439	4.26	91.90	86.93	0.89
Cuggiani-med1	5953.38	Tr 500	282.04	39.90	43.81	43.77	44.33	0.006724	4.30	111.14	92.97	0.86
Cuggiani-med1	5928.97	Tr 50	164.69	39.90	43.15	43.15	43.60	0.007048	3.83	71.65	74.03	0.88
Cuggiani-med1	5928.97	Tr 100	199.37	39.90	43.29	43.29	43.78	0.007192	4.06	82.15	76.78	0.90
Cuggiani-med1	5928.97	Tr 200	234.68	39.90	43.42	43.42	43.94	0.007283	4.25	92.40	79.46	0.91
Cuggiani-med1	5928.97	Tr 500	282.04	39.90	43.55	43.55	44.15	0.007796	4.57	103.18	81.91	0.95
Cuggiani-med1	5903.36	Tr 50	164.69	39.60	42.61	42.61	43.05	0.007793	3.82	69.30	74.87	0.89
Cuggiani-med1	5903.36	Tr 100	199.37	39.60	42.74	42.72	43.22	0.008034	4.06	79.40	77.29	0.91
Cuggiani-med1	5903.36	Tr 200	234.68	39.60	42.92	42.86	43.39	0.007127	4.05	93.93	80.45	0.87
Cuggiani-med1	5903.36	Tr 500	282.04	39.60	43.14		43.80	0.006367	4.07	111.59	82.70	0.84
Cuggiani-med1	5879.86	Tr 50	164.69	38.70	42.61		42.82	0.003104	2.78	99.40	80.86	0.58
Cuggiani-med1	5879.86	Tr 100	199.37	38.70	42.80		43.02	0.003023	2.89	114.66	82.46	0.58
Cuggiani-med1	5879.86	Tr 200	234.68	38.70	42.96		43.20	0.003050	3.02	127.98	83.89	0.59
Cuggiani-med1	5879.86	Tr 500	282.04	38.70	43.17		43.43	0.003048	3.17	145.33	85.82	0.60
Cuggiani-med1	5853.34	Tr 50	164.69	39.00	42.58		42.75	0.002212	2.70	112.96	83.62	0.51
Cuggiani-med1	5853.34	Tr 100	199.37	39.00	42.76		42.95	0.002225	2.83	128.77	85.34	0.52
Cuggiani-med1	5853.34	Tr 200	234.68	39.00	42.92		43.12	0.002303	2.98	142.46	86.87	0.53
Cuggiani-med1	5853.34	Tr 500	282.04	39.00	43.13		43.35	0.002386	3.16	160.37	89.76	0.55
Cuggiani-med1	5826.95	Tr 50	164.69	38.70	42.54		42.67	0.002458	2.32	116.23	89.74	0.49
Cuggiani-med1	5826.95	Tr 100	199.37	38.70	42.73		42.87	0.002361	2.40	133.37	90.66	0.49
Cuggiani-med1	5826.95	Tr 200	234.68	38.70	42.89		43.05	0.002371	2.51	147.93	91.30	0.50
Cuggiani-med1	5826.95	Tr 500	282.04	38.70	43.10		43.27	0.002361	2.63	166.72	92.16	0.50
Cuggiani-med1	5803.32	Tr 50	164.69	38.70	42.49		42.64	0.001165	2.13	119.37	72.86	0.39
Cuggiani-med1	5803.32	Tr 100	199.37	38.70	42.63		42.83	0.001472	2.46	130.00	77.10	0.45
Cuggiani-med1	5803.32	Tr 200	234.68	38.70	42.77		43.00	0.001651	2.69	140.63	78.41	0.48
Cuggiani-med1	5803.32	Tr 500	282.04	38.70	42.95		43.21	0.001840	2.94	154.74	80.11	0.51
Cuggiani-med1	5775.77	Tr 50	164.69	39.00	42.09	42.09	42.55	0.005518	3.83	75.89	74.53	0.80
Cuggiani-med1	5775.77	Tr 100	199.37	39.00	42.23	42.23	42.72	0.005858	4.10	86.02	76.70	0.84
Cuggiani-med1	5775.77	Tr 200	234.68	39.00	42.36	42.36	42.89	0.005977	4.29	96.63	78.77	0.85
Cuggiani-med1	5775.77	Tr 500	282.04	39.00	42.50	42.50	43.09	0.006480	4.62	107.54	80.67	0.89
Cuggiani-med1	5753.3	Tr 50	164.69	38.70	41.64	41.64	42.14	0.006958	3.91	69.41	73.40	0.89
Cuggiani-med1	5753.3	Tr 100	199.37	38.70	41.85	41.85	42.33	0.006252	3.97	86.08	83.47	0.86
Cuggiani-med1	5753.3	Tr 200	234.68	38.70	42.01	42.01	42.49	0.005938	4.05	99.80	90.48	0.85
Cuggiani-med1	5753.3	Tr 500	282.04	38.70	42.12	42.12	42.68	0.006647	4.43	109.99	92.25	0.90
Cuggiani-med1	5729.86	Tr 50	164.69	38.10	41.39	41.39	41.80	0.005578	3.50	79.18	87.99	0.79
Cuggiani-med1	5729.86	Tr 100	199.37	38.10	41.52	41.52	41.96	0.005797	3.72	90.39	89.47	0.81
Cuggiani-med1	5729.86	Tr 200	234.68	38.10	41.55	41.55	42.12	0.007372	4.23	93.37	89.83	0.92
Cuggiani-med1	5729.86	Tr 500	282.04	38.10	41.67	41.67	42.31	0.007972	4.56	103.98	91.11	0.96
Cuggiani-med1	5703.28	Tr 50	164.69	38.10	41.03	41.03	41.45	0.007057	3.60	75.29	87.93	0.87
Cuggiani-med1	5703.28	Tr 100	199.37	38.10	41.17	41.17	41.62	0.007152	3.81	88.09	96.06	0.89
Cuggiani-med1	5703.28	Tr 200	234.68	38.10	41.30	41.30	41.77	0.007092	3.96	100.44	100.70	0.90
Cuggiani-med1	5703.28	Tr 500	282.04	38.10	41.49	41.49	41.96	0.006510	4.04	121.44	112.26	0.87
Cuggiani-med1	5679.7	Tr 50	164.69	37.80	40.64	40.64	41.04	0.006940	3.67	77.51	87.53	0.86
Cuggiani-med1	5679.7	Tr 100	199.37	37.80	40.74	40.74	41.20	0.007555	3.97	86.78	90.54	0.91
Cuggiani-med1	5679.7	Tr 200	234.68	37.80	40.93	40.93	41.36	0.006655	3.96	105.31	102.76	0.86
Cuggiani-med1	5679.7	Tr 500	282.04	37.80	41.05	41.05	41.52	0.007019	4.22	117.57	103.92	0.90
Cuggiani-med1	5653.26	Tr 50	164.69	37.20	40.43		40.61	0.002675	2.59	111.66	97.67	0.55
Cuggiani-med1	5653.26	Tr 100	199.37	37.20	40.61		40.79	0.002566	2.67	129.38	99.85	0.55
Cuggiani-med1	5653.26	Tr 200	234.68	37.20	40.77		40.96	0.002538	2.77	145.40	101.94	0.55
Cuggiani-med1	5653.26	Tr 500	282.04	37.20	40.96		41.17	0.002517	2.90	165.27	104.07	0.56
Cuggiani-med1	5630.84	Tr 50	164.69	37.50	40.43		40.53	0.002216	2.03	125.75	99.65	0.48
Cuggiani-med1	5630.84	Tr 100	199.37	37.50	40.61		40.72	0.002131	2.11	143.70	101.10	0.48
Cuggiani-med1	5630.84	Tr 200	234.68	37.50	40.76		40.89	0.002114	2.21	159.81	102.42	0.48
Cuggiani-med1	5630.84	Tr 500	282.04	37.50	40.96		41.10	0.002119	2.35	179.78	106.16	0.49
Cuggiani-med1	5603.24	Tr 50	164.69	37.50	40.34		40.47	0.002109	2.34	131.65	120.18	0.49
Cuggiani-med1	5603.24	Tr 100	199.37	37.50	40.54		40.66	0.001883	2.33	155.70	121.68	0.47
Cuggiani-med1	5603.24	Tr 200	234.68	37.50	40.71		40.84	0.001800	2.38	176.24	122.89	0.47
Cuggiani-med1	5603.24	Tr 500	282.04	37.50	40.91		41.04	0.001755	2.47	200.74	124.47	0.47
Cuggiani-med1	5576.34	Tr 50	164.69	36.60	40.27		40.42	0.001265	2.14	131.51	102.97	0.41
Cuggiani-med1	5576.34	Tr 100	199.37	36.60	40.46		40.62	0.001283	2.25	151.08	104.47	0.41
Cuggiani-med1	5576.34	Tr 200	234.68	36.60	40.62		40.79	0.001346	2.38	169.07	120.22	0.43
Cuggiani-med1	5576.34	Tr 500	282.04	36.60	40.81		41.00	0.001396	2.52	192.61	125.20	0.44

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med1	5553.22	Tr 50	164.69	36.60	40.00		40.36	0.002986	3.15	88.69	84.29	0.62
Cuggiani-med1	5553.22	Tr 100	199.37	36.60	40.12		40.54	0.003444	3.49	99.41	90.34	0.67
Cuggiani-med1	5553.22	Tr 200	234.68	36.60	40.30	40.18	40.72	0.003329	3.57	117.00	105.34	0.66
Cuggiani-med1	5553.22	Tr 500	282.04	36.60	40.52		40.93	0.003135	3.63	140.60	110.04	0.65
Cuggiani-med1	5529.69	Tr 50	164.69	36.90	40.01		40.26	0.002351	2.71	99.98	82.86	0.55
Cuggiani-med1	5529.69	Tr 100	199.37	36.90	40.15		40.43	0.002589	2.95	111.30	83.56	0.58
Cuggiani-med1	5529.69	Tr 200	234.68	36.90	40.31		40.61	0.002619	3.09	124.85	84.32	0.59
Cuggiani-med1	5529.69	Tr 500	282.04	36.90	40.51		40.83	0.002658	3.25	141.58	85.21	0.60
Cuggiani-med1	5503.2	Tr 50	164.69	36.30	39.68	39.68	40.15	0.005513	3.68	74.08	75.74	0.80
Cuggiani-med1	5503.2	Tr 100	199.37	36.30	39.95		40.33	0.004276	3.49	94.07	76.78	0.71
Cuggiani-med1	5503.2	Tr 200	234.68	36.30	40.13		40.52	0.003990	3.54	108.45	77.68	0.70
Cuggiani-med1	5503.2	Tr 500	282.04	36.30	40.34		40.74	0.003907	3.68	124.30	78.61	0.70
Cuggiani-med1	5477.36	Tr 50	164.69	35.70	39.54	39.50	40.01	0.003761	3.57	76.68	69.73	0.67
Cuggiani-med1	5477.36	Tr 100	199.37	35.70	39.67	39.66	40.21	0.004215	3.90	86.21	73.63	0.71
Cuggiani-med1	5477.36	Tr 200	234.68	35.70	39.80	39.80	40.39	0.004546	4.16	95.83	75.25	0.75
Cuggiani-med1	5477.36	Tr 500	282.04	35.70	39.98	39.98	40.61	0.004762	4.41	109.21	77.14	0.77
Cuggiani-med1	5453.18	Tr 50	164.69	36.00	39.57		39.87	0.003438	3.11	89.41	76.48	0.63
Cuggiani-med1	5453.18	Tr 100	199.37	36.00	39.70		40.04	0.003724	3.35	99.76	76.92	0.67
Cuggiani-med1	5453.18	Tr 200	234.68	36.00	39.82		40.20	0.004015	3.59	109.05	77.32	0.70
Cuggiani-med1	5453.18	Tr 500	282.04	36.00	39.98		40.41	0.004279	3.85	121.24	77.80	0.73
Cuggiani-med1	5428.21	Tr 50	164.69	35.70	39.33	39.33	39.75	0.004959	3.68	80.68	82.20	0.75
Cuggiani-med1	5428.21	Tr 100	199.37	35.70	39.45	39.45	39.92	0.005437	3.97	90.13	82.83	0.79
Cuggiani-med1	5428.21	Tr 200	234.68	35.70	39.56	39.56	40.07	0.005790	4.22	99.38	83.44	0.82
Cuggiani-med1	5428.21	Tr 500	282.04	35.70	39.70	39.70	40.26	0.006203	4.51	110.76	84.22	0.86
Cuggiani-med1	5403.16	Tr 50	164.69	36.00	39.04		39.32	0.003371	3.04	89.45	72.26	0.65
Cuggiani-med1	5403.16	Tr 100	199.37	36.00	39.25		39.55	0.003259	3.18	105.94	79.82	0.64
Cuggiani-med1	5403.16	Tr 200	234.68	36.00	39.43		39.74	0.003223	3.31	120.12	82.65	0.65
Cuggiani-med1	5403.16	Tr 500	282.04	36.00	39.64		39.97	0.003155	3.45	137.95	84.49	0.65
Cuggiani-med1	5379.99	Tr 50	164.69	35.40	38.64	38.62	39.19	0.005350	3.99	68.17	61.74	0.80
Cuggiani-med1	5379.99	Tr 100	199.37	35.40	38.86	38.86	39.43	0.005218	4.16	82.51	68.61	0.80
Cuggiani-med1	5379.99	Tr 200	234.68	35.40	39.03	39.03	39.61	0.005228	4.33	94.27	72.06	0.81
Cuggiani-med1	5379.99	Tr 500	282.04	35.40	39.18	39.18	39.84	0.005711	4.68	105.15	74.00	0.85
Cuggiani-med1	5353.14	Tr 50	164.69	35.40	38.63		38.95	0.007794	3.36	72.78	69.27	0.86
Cuggiani-med1	5353.14	Tr 100	199.37	35.40	38.81		39.15	0.007079	3.45	85.55	71.16	0.83
Cuggiani-med1	5353.14	Tr 200	234.68	35.40	38.97		39.33	0.006655	3.55	97.35	72.47	0.82
Cuggiani-med1	5353.14	Tr 500	282.04	35.40	39.16		39.55	0.006466	3.73	111.27	74.39	0.82
Cuggiani-med1	5330.79	Tr 50	164.69	34.80	38.60		38.82	0.002859	2.71	96.87	75.13	0.56
Cuggiani-med1	5330.79	Tr 100	199.37	34.80	38.78		39.02	0.002899	2.86	110.48	76.51	0.57
Cuggiani-med1	5330.79	Tr 200	234.68	34.80	38.94		39.20	0.002977	3.02	122.79	77.77	0.59
Cuggiani-med1	5330.79	Tr 500	282.04	34.80	39.14		39.43	0.003061	3.21	138.19	79.15	0.60
Cuggiani-med1	5303.12	Tr 50	164.69	34.80	38.57		38.75	0.001715	2.34	107.93	71.94	0.45
Cuggiani-med1	5303.12	Tr 100	199.37	34.80	38.74		38.95	0.001876	2.55	120.28	73.15	0.48
Cuggiani-med1	5303.12	Tr 200	234.68	34.80	38.89		39.13	0.002045	2.76	131.40	74.36	0.51
Cuggiani-med1	5303.12	Tr 500	282.04	34.80	39.08		39.35	0.002240	3.00	145.31	75.85	0.53
Cuggiani-med1	5278.9	Tr 50	164.69	34.80	38.15	38.15	38.64	0.007341	4.12	67.91	63.01	0.88
Cuggiani-med1	5278.9	Tr 100	199.37	34.80	38.30	38.30	38.83	0.007529	4.36	77.56	65.61	0.90
Cuggiani-med1	5278.9	Tr 200	234.68	34.80	38.45	38.45	39.01	0.007472	4.52	87.56	67.52	0.90
Cuggiani-med1	5278.9	Tr 500	282.04	34.80	38.60	38.60	39.22	0.007915	4.83	97.50	68.03	0.94
Cuggiani-med1	5253.1	Tr 50	164.69	34.50	37.85		38.19	0.005425	3.47	79.30	73.16	0.74
Cuggiani-med1	5253.1	Tr 100	199.37	34.50	37.99		38.37	0.005613	3.68	89.69	73.88	0.77
Cuggiani-med1	5253.1	Tr 200	234.68	34.50	38.13		38.53	0.005730	3.86	99.87	74.84	0.78
Cuggiani-med1	5253.1	Tr 500	282.04	34.50	38.30		38.75	0.005945	4.11	112.78	77.26	0.80
Cuggiani-med1	5228.67	Tr 50	164.69	34.50	37.74		38.03	0.005707	3.11	78.82	72.54	0.76
Cuggiani-med1	5228.67	Tr 100	199.37	34.50	37.85		38.21	0.006344	3.42	87.22	75.66	0.81
Cuggiani-med1	5228.67	Tr 200	234.68	34.50	38.00		38.38	0.006259	3.57	97.93	76.21	0.81
Cuggiani-med1	5228.67	Tr 500	282.04	34.50	38.17	37.95	38.58	0.006230	3.76	110.98	76.88	0.82
Cuggiani-med1	5203.08	Tr 50	164.69	34.50	37.40	37.40	37.84	0.009298	4.23	67.08	71.77	0.95
Cuggiani-med1	5203.08	Tr 100	199.37	34.50	37.54	37.54	38.01	0.009214	4.40	77.32	73.56	0.96
Cuggiani-med1	5203.08	Tr 200	234.68	34.50	37.65	37.65	38.17	0.009634	4.65	85.52	75.09	0.99
Cuggiani-med1	5203.08	Tr 500	282.04	34.50	37.77	37.77	38.38	0.010353	5.00	94.98	76.82	1.04
Cuggiani-med1	5179.68	Tr 50	164.69	34.20	37.12	37.12	37.56	0.011578	3.83	63.25	72.29	1.02
Cuggiani-med1	5179.68	Tr 100	199.37	34.20	37.27	37.25	37.73	0.011066	3.96	73.80	74.98	1.01
Cuggiani-med1	5179.68	Tr 200	234.68	34.20	37.46	37.37	37.90	0.009083	3.88	88.52	76.90	0.93
Cuggiani-med1	5179.68	Tr 500	282.04	34.20	37.68		38.12	0.007869	3.90	105.53	79.51	0.89
Cuggiani-med1	5153.06	Tr 50	164.69	34.20	37.07		37.33	0.002981	2.86	93.25	80.83	0.61
Cuggiani-med1	5153.06	Tr 100	199.37	34.20	37.26		37.53	0.002907	2.98	108.91	83.27	0.61
Cuggiani-med1	5153.06	Tr 200	234.68	34.20	37.45		37.73	0.002825	3.08	124.24	85.32	0.60
Cuggiani-med1	5153.06	Tr 500	282.04	34.20	37.65		37.96	0.002902	3.28	142.01	89.89	0.62

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med1	5130.41	Tr 50	164.69	33.60	37.08		37.24	0.002218	2.46	113.83	90.94	0.50
Cuggiani-med1	5130.41	Tr 100	199.37	33.60	37.27		37.44	0.002157	2.55	131.77	93.07	0.50
Cuggiani-med1	5130.41	Tr 200	234.68	33.60	37.46		37.64	0.002093	2.63	149.37	95.16	0.50
Cuggiani-med1	5130.41	Tr 500	282.04	33.60	37.67		37.86	0.002110	2.77	169.78	97.49	0.51
Cuggiani-med1	5103.04	Tr 50	164.69	34.50	36.59	36.59	37.10	0.009721	4.10	60.48	57.30	1.04
Cuggiani-med1	5103.04	Tr 100	199.37	34.50	36.73	36.73	37.30	0.009755	4.35	68.85	57.79	1.05
Cuggiani-med1	5103.04	Tr 200	234.68	34.50	36.87	36.87	37.49	0.009856	4.60	76.60	58.24	1.07
Cuggiani-med1	5103.04	Tr 500	282.04	34.50	37.08	37.08	37.72	0.008933	4.71	92.13	78.89	1.04
Cuggiani-med1	5078.87	Tr 50	164.69	33.90	36.14	36.14	36.63	0.014335	3.76	56.21	67.63	1.15
Cuggiani-med1	5078.87	Tr 100	199.37	33.90	36.29	36.29	36.81	0.013413	3.96	66.46	70.09	1.14
Cuggiani-med1	5078.87	Tr 200	234.68	33.90	36.43	36.43	36.99	0.012745	4.14	76.19	71.63	1.13
Cuggiani-med1	5078.87	Tr 500	282.04	33.90	36.58	36.58	37.20	0.012627	4.42	87.08	73.24	1.14
Cuggiani-med1	5053.02	Tr 50	164.69	33.30	36.07		36.28	0.004458	2.44	86.44	76.97	0.67
Cuggiani-med1	5053.02	Tr 100	199.37	33.30	36.23		36.47	0.004440	2.63	99.12	80.24	0.68
Cuggiani-med1	5053.02	Tr 200	234.68	33.30	36.38		36.64	0.004437	2.79	111.28	83.27	0.69
Cuggiani-med1	5053.02	Tr 500	282.04	33.30	36.57		36.86	0.004382	2.98	127.32	87.10	0.70
Cuggiani-med1	5029.98	Tr 50	164.69	33.60	35.98		36.17	0.004481	2.29	88.10	71.81	0.64
Cuggiani-med1	5029.98	Tr 100	199.37	33.60	36.14		36.36	0.004513	2.49	99.90	75.41	0.66
Cuggiani-med1	5029.98	Tr 200	234.68	33.60	36.29		36.53	0.004565	2.67	111.20	78.62	0.67
Cuggiani-med1	5029.98	Tr 500	282.04	33.60	36.47		36.75	0.004805	2.94	126.10	84.22	0.70
Cuggiani-med1	5003	Tr 50	164.69	33.60	35.85		36.04	0.004830	2.22	86.32	65.23	0.65
Cuggiani-med1	5003	Tr 100	199.37	33.60	36.01		36.23	0.005093	2.20	96.55	67.68	0.67
Cuggiani-med1	5003	Tr 200	234.68	33.60	36.15		36.40	0.005195	2.36	106.16	68.26	0.68
Cuggiani-med1	5003	Tr 500	282.04	33.60	36.32		36.61	0.005345	2.56	117.98	71.70	0.71
Cuggiani-med1	4977.07	Tr 50	164.69	33.90	35.74		35.92	0.004442	2.14	89.04	64.99	0.61
Cuggiani-med1	4977.07	Tr 100	199.37	33.90	35.89		36.10	0.004702	2.29	98.54	65.62	0.64
Cuggiani-med1	4977.07	Tr 200	234.68	33.90	36.02		36.26	0.004937	2.44	107.57	73.57	0.66
Cuggiani-med1	4977.07	Tr 500	282.04	33.90	36.19		36.47	0.005174	2.69	119.83	75.07	0.69
Cuggiani-med1	4952.98	Tr 50	164.69	33.60	35.56		35.79	0.005995	2.69	80.33	70.61	0.75
Cuggiani-med1	4952.98	Tr 100	199.37	33.60	35.69		35.96	0.006372	2.95	89.42	71.71	0.79
Cuggiani-med1	4952.98	Tr 200	234.68	33.60	35.81		36.12	0.006687	3.19	98.16	73.79	0.82
Cuggiani-med1	4952.98	Tr 500	282.04	33.60	35.96		36.32	0.007021	3.47	109.13	74.98	0.85
Cuggiani-med1	4929.03	Tr 50	164.69	33.30	35.56		35.67	0.002245	1.95	118.26	86.15	0.49
Cuggiani-med1	4929.03	Tr 100	199.37	33.30	35.70		35.83	0.002442	2.14	129.96	86.95	0.52
Cuggiani-med1	4929.03	Tr 200	234.68	33.30	35.82		35.98	0.002610	2.32	141.07	87.55	0.55
Cuggiani-med1	4929.03	Tr 500	282.04	33.30	35.98		36.17	0.002803	2.54	154.94	88.30	0.57
Cuggiani-med1	4902.96	Tr 50	164.69	33.30	35.51		35.62	0.001892	1.98	122.00	84.61	0.47
Cuggiani-med1	4902.96	Tr 100	199.37	33.30	35.64		35.77	0.002120	2.20	132.90	85.18	0.50
Cuggiani-med1	4902.96	Tr 200	234.68	33.30	35.76		35.91	0.002330	2.40	143.17	85.85	0.53
Cuggiani-med1	4902.96	Tr 500	282.04	33.30	35.90		36.10	0.002583	2.64	156.01	86.87	0.57
Cuggiani-med1	4877.64	Tr 50	164.69	33.00	35.46		35.57	0.001848	1.93	124.25	86.22	0.46
Cuggiani-med1	4877.64	Tr 100	199.37	33.00	35.59		35.71	0.002094	2.15	134.84	86.75	0.50
Cuggiani-med1	4877.64	Tr 200	234.68	33.00	35.70		35.85	0.002318	2.35	144.81	87.24	0.53
Cuggiani-med1	4877.64	Tr 500	282.04	33.00	35.84		36.03	0.002582	2.60	157.25	87.84	0.57
Cuggiani-med1	4852.94	Tr 50	164.69	32.70	35.43		35.52	0.001516	1.99	133.20	88.37	0.43
Cuggiani-med1	4852.94	Tr 100	199.37	32.70	35.54		35.66	0.001760	2.22	143.56	89.00	0.47
Cuggiani-med1	4852.94	Tr 200	234.68	32.70	35.65		35.80	0.001987	2.44	153.33	89.59	0.50
Cuggiani-med1	4852.94	Tr 500	282.04	32.70	35.79		35.97	0.002271	2.70	165.51	90.67	0.54
Cuggiani-med1	4828.81	Tr 50	164.69	32.40	35.41		35.49	0.000971	1.80	154.93	92.40	0.36
Cuggiani-med1	4828.81	Tr 100	199.37	32.40	35.53		35.62	0.001158	2.03	165.55	92.79	0.39
Cuggiani-med1	4828.81	Tr 200	234.68	32.40	35.64		35.75	0.001337	2.23	175.54	93.16	0.42
Cuggiani-med1	4828.81	Tr 500	282.04	32.40	35.77		35.91	0.001559	2.49	187.98	93.60	0.46
Cuggiani-med1	4802.92	Tr 50	164.69	32.70	35.39		35.46	0.000971	1.72	156.15	93.48	0.36
Cuggiani-med1	4802.92	Tr 100	199.37	32.70	35.50		35.59	0.001162	1.94	166.45	93.76	0.39
Cuggiani-med1	4802.92	Tr 200	234.68	32.70	35.60		35.71	0.001348	2.14	176.10	94.02	0.43
Cuggiani-med1	4802.92	Tr 500	282.04	32.70	35.73		35.87	0.001580	2.40	188.09	94.34	0.46
Cuggiani-med1	4779.46	Tr 50	164.69	32.40	35.37		35.44	0.000843	1.62	158.13	90.62	0.33
Cuggiani-med1	4779.46	Tr 100	199.37	32.40	35.47		35.56	0.001032	1.84	167.58	91.03	0.37
Cuggiani-med1	4779.46	Tr 200	234.68	32.40	35.57		35.68	0.001219	2.05	176.37	91.42	0.41
Cuggiani-med1	4779.46	Tr 500	282.04	32.40	35.69		35.83	0.001463	2.32	187.24	91.90	0.45
Cuggiani-med1	4752.9	Tr 50	164.69	31.50	35.35		35.42	0.000605	1.59	166.92	85.40	0.29
Cuggiani-med1	4752.9	Tr 100	199.37	31.50	35.45		35.54	0.000766	1.83	175.37	85.87	0.33
Cuggiani-med1	4752.9	Tr 200	234.68	31.50	35.54		35.65	0.000933	2.05	183.09	86.27	0.36
Cuggiani-med1	4752.9	Tr 500	282.04	31.50	35.65		35.80	0.001160	2.34	192.48	86.76	0.41
Cuggiani-med1	4730.42	Tr 50	164.69	32.10	35.33		35.41	0.000747	1.65	160.46	90.37	0.32
Cuggiani-med1	4730.42	Tr 100	199.37	32.10	35.42		35.52	0.000948	1.90	168.93	91.86	0.36
Cuggiani-med1	4730.42	Tr 200	234.68	32.10	35.51		35.63	0.001149	2.14	176.70	92.41	0.40
Cuggiani-med1	4730.42	Tr 500	282.04	32.10	35.61		35.77	0.001424	2.43	185.98	93.06	0.45

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med1	4717.3	Tr 50	164.69	31.50	35.33		35.39	0.000582	1.48	182.09	99.76	0.28
Cuggiani-med1	4717.3	Tr 100	199.37	31.50	35.43		35.50	0.000740	1.71	191.62	101.54	0.31
Cuggiani-med1	4717.3	Tr 200	234.68	31.50	35.51		35.61	0.000898	1.92	200.41	102.22	0.35
Cuggiani-med1	4717.3	Tr 500	282.04	31.50	35.62		35.74	0.001113	2.18	211.00	103.03	0.39
Cuggiani-med1	4703.26	Tr 50	164.69	31.50	35.33	34.50	35.38	0.000475	1.41	219.76	140.11	0.25
Cuggiani-med1	4703.26	Tr 100	199.37	31.50	35.43	34.50	35.49	0.000591	1.61	233.34	142.53	0.28
Cuggiani-med1	4703.26	Tr 200	234.68	31.50	35.52	34.50	35.59	0.000713	1.80	246.01	145.97	0.31
Cuggiani-med1	4703.26	Tr 500	282.04	31.50	35.63	34.61	35.72	0.000875	2.03	261.84	150.14	0.35
Cuggiani-med1	4692.85		Bridge									
Cuggiani-med1	4678.04	Tr 50	164.69	31.80	34.50	34.50	34.62	0.003090	2.36	121.10	115.29	0.56
Cuggiani-med1	4678.04	Tr 100	199.37	31.80	34.55	34.50	34.70	0.003996	2.73	126.27	116.51	0.64
Cuggiani-med1	4678.04	Tr 200	234.68	31.80	34.68	34.50	34.84	0.003937	2.83	141.58	120.02	0.64
Cuggiani-med1	4678.04	Tr 500	282.04	31.80	34.82	34.50	35.01	0.004157	3.05	158.99	126.81	0.67
Cuggiani-med1	4652.95	Tr 50	164.69	30.90	34.35		34.48	0.002440	2.38	129.17	120.75	0.50
Cuggiani-med1	4652.95	Tr 100	199.37	30.90	34.48		34.62	0.002620	2.52	144.37	123.82	0.52
Cuggiani-med1	4652.95	Tr 200	234.68	30.90	34.61		34.76	0.002679	2.60	160.92	127.17	0.52
Cuggiani-med1	4652.95	Tr 500	282.04	30.90	34.75		34.92	0.002858	2.75	179.25	130.81	0.55
Cuggiani-med1	4628.07	Tr 50	164.69	30.90	34.00	34.00	34.37	0.005663	3.52	88.07	114.56	0.78
Cuggiani-med1	4628.07	Tr 100	199.37	30.90	34.13	34.13	34.50	0.005623	3.65	103.40	121.25	0.79
Cuggiani-med1	4628.07	Tr 200	234.68	30.90	34.19	34.19	34.63	0.006520	4.01	111.15	124.49	0.85
Cuggiani-med1	4628.07	Tr 500	282.04	30.90	34.34	34.34	34.79	0.006352	4.14	131.25	134.27	0.85
Cuggiani-med2	4602.84	Tr 50	164.69	30.60	33.95	33.95	34.30	0.006369	3.61	89.07	124.26	0.81
Cuggiani-med2	4602.84	Tr 100	199.37	30.60	34.07	34.07	34.43	0.006312	3.75	105.13	132.94	0.82
Cuggiani-med2	4602.84	Tr 200	234.68	30.60	34.16	34.16	34.55	0.006850	4.00	116.38	138.68	0.85
Cuggiani-med2	4602.84	Tr 500	282.04	30.60	34.31	34.31	34.69	0.006378	4.04	139.63	150.61	0.83
Cuggiani-med2	4578.57	Tr 50	164.69	30.90	33.54	33.54	34.02	0.008769	4.02	69.82	89.03	0.95
Cuggiani-med2	4578.57	Tr 100	199.37	30.90	33.82	33.82	34.17	0.005848	3.61	104.96	139.63	0.79
Cuggiani-med2	4578.57	Tr 200	234.68	30.90	33.88	33.88	34.29	0.006623	3.92	114.30	142.41	0.85
Cuggiani-med2	4578.57	Tr 500	282.04	30.90	34.05	34.05	34.43	0.006091	3.94	139.13	156.28	0.82
Cuggiani-med2	4552.82	Tr 50	164.69	29.70	33.08	33.08	33.48	0.008076	3.78	74.40	90.65	0.86
Cuggiani-med2	4552.82	Tr 100	199.37	29.70	33.20	33.20	33.62	0.008240	3.94	86.24	95.74	0.87
Cuggiani-med2	4552.82	Tr 200	234.68	29.70	33.27	33.27	33.77	0.009499	4.30	92.86	98.48	0.94
Cuggiani-med2	4552.82	Tr 500	282.04	29.70	33.46	33.46	33.96	0.008991	4.41	113.28	123.81	0.92
Cuggiani-med2	4525.89	Tr 50	164.69	30.30	32.63	32.63	32.96	0.010272	3.61	78.08	104.62	1.01
Cuggiani-med2	4525.89	Tr 100	199.37	30.30	32.73	32.73	33.09	0.010572	3.84	88.83	109.46	1.04
Cuggiani-med2	4525.89	Tr 200	234.68	30.30	32.81	32.81	33.22	0.011112	4.09	97.52	110.91	1.07
Cuggiani-med2	4525.89	Tr 500	282.04	30.30	32.94	32.90	33.37	0.010590	4.22	112.17	113.32	1.06
Cuggiani-med2	4502.8	Tr 50	164.69	30.60	32.51		32.69	0.006244	2.72	99.21	122.91	0.79
Cuggiani-med2	4502.8	Tr 100	199.37	30.60	32.65		32.83	0.005695	2.72	115.99	124.75	0.76
Cuggiani-med2	4502.8	Tr 200	234.68	30.60	32.77		32.96	0.005529	2.81	131.79	130.16	0.76
Cuggiani-med2	4502.8	Tr 500	282.04	30.60	32.93		33.13	0.005189	2.93	152.55	135.35	0.75
Cuggiani-med2	4478.85	Tr 50	164.69	29.70	32.32		32.56	0.004337	2.89	99.27	111.06	0.70
Cuggiani-med2	4478.85	Tr 100	199.37	29.70	32.46		32.70	0.004192	2.99	114.84	112.58	0.70
Cuggiani-med2	4478.85	Tr 200	234.68	29.70	32.59		32.84	0.004108	3.10	129.12	113.21	0.70
Cuggiani-med2	4478.85	Tr 500	282.04	29.70	32.75		33.02	0.003997	3.21	147.31	114.00	0.70
Cuggiani-med2	4452.78	Tr 50	164.69	29.70	32.25		32.44	0.003743	2.78	102.32	96.88	0.65
Cuggiani-med2	4452.78	Tr 100	199.37	29.70	32.38		32.59	0.003884	2.96	114.91	98.08	0.67
Cuggiani-med2	4452.78	Tr 200	234.68	29.70	32.49		32.74	0.004010	3.12	126.57	98.64	0.68
Cuggiani-med2	4452.78	Tr 500	282.04	29.70	32.64		32.91	0.004130	3.32	141.25	99.15	0.70
Cuggiani-med2	4427	Tr 50	164.69	29.70	31.92	31.92	32.28	0.009272	4.04	75.51	88.35	0.98
Cuggiani-med2	4427	Tr 100	199.37	29.70	32.02	32.02	32.42	0.009679	4.29	84.64	88.94	1.01
Cuggiani-med2	4427	Tr 200	234.68	29.70	32.13	32.10	32.56	0.009680	4.46	94.32	89.57	1.02
Cuggiani-med2	4427	Tr 500	282.04	29.70	32.27	32.23	32.74	0.009565	4.64	106.89	90.41	1.03
Cuggiani-med2	4402.76	Tr 50	164.69	29.10	31.80		32.05	0.006589	3.17	86.20	91.74	0.77
Cuggiani-med2	4402.76	Tr 100	199.37	29.10	31.91		32.19	0.007022	3.40	95.79	92.19	0.80
Cuggiani-med2	4402.76	Tr 200	234.68	29.10	32.01		32.32	0.007330	3.60	105.10	92.63	0.83
Cuggiani-med2	4402.76	Tr 500	282.04	29.10	32.15		32.50	0.007414	3.80	118.02	93.29	0.84
Cuggiani-med2	4379.15	Tr 50	164.69	28.80	31.55		31.84	0.010614	3.58	76.23	91.95	0.91
Cuggiani-med2	4379.15	Tr 100	199.37	28.80	31.67		31.98	0.010489	3.60	87.01	93.30	0.91
Cuggiani-med2	4379.15	Tr 200	234.68	28.80	31.77		32.11	0.010634	3.68	96.51	94.48	0.93
Cuggiani-med2	4379.15	Tr 500	282.04	28.80	31.89	31.77	32.28	0.011149	3.91	107.72	97.81	0.96
Cuggiani-med2	4352.74	Tr 50	164.69	29.10	31.43		31.60	0.006032	2.64	95.79	109.18	0.70
Cuggiani-med2	4352.74	Tr 100	199.37	29.10	31.54		31.74	0.006296	2.83	107.77	112.56	0.73
Cuggiani-med2	4352.74	Tr 200	234.68	29.10	31.64		31.86	0.006450	2.99	119.05	113.31	0.74
Cuggiani-med2	4352.74	Tr 500	282.04	29.10	31.76		32.02	0.006644	3.18	132.94	114.21	0.76
Cuggiani-med2	4328.74	Tr 50	164.69	29.10	31.26		31.44	0.007442	2.85	94.30	117.05	0.77
Cuggiani-med2	4328.74	Tr 100	199.37	29.10	31.38		31.57	0.007393	2.95	107.68	120.36	0.78
Cuggiani-med2	4328.74	Tr 200	234.68	29.10	31.48		31.69	0.007453	3.06	120.01	123.33	0.79

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	4328.74	Tr 500	282.04	29.10	31.60		31.84	0.007471	3.21	135.44	126.68	0.80
Cuggiani-med2	4302.72	Tr 50	164.69	29.10	31.13		31.28	0.005026	2.71	107.19	121.29	0.70
Cuggiani-med2	4302.72	Tr 100	199.37	29.10	31.24		31.40	0.005228	2.89	120.43	124.40	0.72
Cuggiani-med2	4302.72	Tr 200	234.68	29.10	31.33		31.52	0.005406	3.05	132.48	125.88	0.74
Cuggiani-med2	4302.72	Tr 500	282.04	29.10	31.45		31.67	0.005597	3.25	147.67	127.72	0.77
Cuggiani-med2	4279.5	Tr 50	164.69	29.10	30.85	30.77	31.09	0.012109	3.36	81.46	117.40	1.00
Cuggiani-med2	4279.5	Tr 100	199.37	29.10	30.95	30.85	31.22	0.012056	3.54	92.98	121.22	1.01
Cuggiani-med2	4279.5	Tr 200	234.68	29.10	31.05	30.94	31.33	0.011660	3.66	104.72	123.31	1.01
Cuggiani-med2	4279.5	Tr 500	282.04	29.10	31.16	31.04	31.48	0.011476	3.83	118.85	125.78	1.01
Cuggiani-med2	4252.7	Tr 50	164.69	28.80	30.58	30.50	30.81	0.009196	3.50	87.28	117.78	0.95
Cuggiani-med2	4252.7	Tr 100	199.37	28.80	30.67	30.59	30.93	0.009261	3.68	98.83	119.44	0.96
Cuggiani-med2	4252.7	Tr 200	234.68	28.80	30.74	30.66	31.04	0.009989	3.94	107.36	120.72	1.01
Cuggiani-med2	4252.7	Tr 500	282.04	28.80	30.86	30.75	31.19	0.009944	4.12	121.37	122.79	1.02
Cuggiani-med2	4229.18	Tr 50	164.69	28.50	30.28	30.28	30.58	0.009198	3.63	84.04	118.04	0.99
Cuggiani-med2	4229.18	Tr 100	199.37	28.50	30.37	30.37	30.70	0.009575	3.86	94.24	118.57	1.02
Cuggiani-med2	4229.18	Tr 200	234.68	28.50	30.50	30.45	30.82	0.008463	3.84	109.32	119.41	0.98
Cuggiani-med2	4229.18	Tr 500	282.04	28.50	30.62	30.54	30.97	0.008362	4.01	123.74	120.22	0.98
Cuggiani-med2	4202.68	Tr 50	164.69	27.90	30.03	30.03	30.34	0.007278	3.49	86.93	114.76	0.89
Cuggiani-med2	4202.68	Tr 100	199.37	27.90	30.12	30.12	30.47	0.007666	3.72	97.54	115.72	0.92
Cuggiani-med2	4202.68	Tr 200	234.68	27.90	30.19	30.19	30.59	0.008511	4.02	105.26	116.41	0.98
Cuggiani-med2	4202.68	Tr 500	282.04	27.90	30.30	30.30	30.74	0.008595	4.22	118.88	117.63	0.99
Cuggiani-med2	4176.94	Tr 50	164.69	27.30	29.81	29.81	30.12	0.006195	3.54	90.98	114.89	0.83
Cuggiani-med2	4176.94	Tr 100	199.37	27.30	29.88	29.88	30.25	0.007024	3.87	99.53	115.23	0.89
Cuggiani-med2	4176.94	Tr 200	234.68	27.30	29.98	29.98	30.36	0.007219	4.05	110.30	115.66	0.91
Cuggiani-med2	4176.94	Tr 500	282.04	27.30	30.08	30.08	30.51	0.007591	4.30	122.81	116.16	0.94
Cuggiani-med2	4152.66	Tr 50	164.69	27.00	29.71		29.91	0.003684	2.83	108.53	115.11	0.65
Cuggiani-med2	4152.66	Tr 100	199.37	27.00	29.82		30.04	0.003917	3.03	121.09	115.87	0.67
Cuggiani-med2	4152.66	Tr 200	234.68	27.00	29.93		30.17	0.004060	3.19	133.52	116.63	0.69
Cuggiani-med2	4152.66	Tr 500	282.04	27.00	30.05		30.32	0.004356	3.42	147.40	117.37	0.72
Cuggiani-med2	4128.22	Tr 50	164.69	26.70	29.45	29.45	29.78	0.006192	3.35	89.49	119.13	0.83
Cuggiani-med2	4128.22	Tr 100	199.37	26.70	29.55	29.55	29.90	0.006497	3.56	100.98	120.02	0.85
Cuggiani-med2	4128.22	Tr 200	234.68	26.70	29.62	29.62	30.02	0.007237	3.85	109.11	120.65	0.91
Cuggiani-med2	4128.22	Tr 500	282.04	26.70	29.74	29.74	30.17	0.007336	4.04	123.43	121.71	0.92
Cuggiani-med2	4102.64	Tr 50	164.69	27.00	29.19	29.19	29.47	0.010519	3.53	85.72	130.93	1.01
Cuggiani-med2	4102.64	Tr 100	199.37	27.00	29.26	29.26	29.58	0.011075	3.76	95.53	131.78	1.05
Cuggiani-med2	4102.64	Tr 200	234.68	27.00	29.35	29.33	29.68	0.010960	3.90	106.59	132.73	1.05
Cuggiani-med2	4102.64	Tr 500	282.04	27.00	29.45	29.43	29.82	0.010922	4.08	120.14	133.68	1.06
Cuggiani-med2	4077.03	Tr 50	164.69	26.10	28.97		29.21	0.008229	3.26	93.31	134.62	0.85
Cuggiani-med2	4077.03	Tr 100	199.37	26.10	29.08		29.32	0.007729	3.29	108.59	136.80	0.83
Cuggiani-med2	4077.03	Tr 200	234.68	26.10	29.16		29.42	0.008060	3.46	119.24	137.72	0.85
Cuggiani-med2	4077.03	Tr 500	282.04	26.10	29.25		29.55	0.008492	3.68	132.09	138.58	0.89
Cuggiani-med2	4052.62	Tr 50	164.69	25.80	28.70	28.70	29.00	0.007800	3.64	91.41	133.29	0.86
Cuggiani-med2	4052.62	Tr 100	199.37	25.80	28.78	28.78	29.11	0.008330	3.87	102.28	134.60	0.90
Cuggiani-med2	4052.62	Tr 200	234.68	25.80	28.89	28.88	29.22	0.007948	3.92	117.35	138.62	0.88
Cuggiani-med2	4052.62	Tr 500	282.04	25.80	29.01		29.35	0.007669	4.01	134.22	139.12	0.88
Cuggiani-med2	4026.06	Tr 50	164.69	26.10	28.66		28.79	0.003732	2.49	121.03	138.87	0.63
Cuggiani-med2	4026.06	Tr 100	199.37	26.10	28.76		28.91	0.003891	2.64	135.11	139.54	0.65
Cuggiani-med2	4026.06	Tr 200	234.68	26.10	28.85		29.02	0.003996	2.78	148.73	140.12	0.66
Cuggiani-med2	4026.06	Tr 500	282.04	26.10	28.97		29.16	0.004188	2.96	164.73	140.75	0.68
Cuggiani-med2	4002.6	Tr 50	164.69	25.50	28.36	28.36	28.66	0.006705	3.55	94.32	134.35	0.83
Cuggiani-med2	4002.6	Tr 100	199.37	25.50	28.45	28.45	28.77	0.007155	3.77	105.64	134.89	0.86
Cuggiani-med2	4002.6	Tr 200	234.68	25.50	28.52	28.52	28.87	0.007753	4.02	115.10	135.32	0.90
Cuggiani-med2	4002.6	Tr 500	282.04	25.50	28.62	28.62	29.00	0.008071	4.23	128.74	135.82	0.93
Cuggiani-med2	3978.42	Tr 50	164.69	24.90	28.09	28.09	28.38	0.006034	3.42	95.53	128.42	0.77
Cuggiani-med2	3978.42	Tr 100	199.37	24.90	28.17	28.17	28.50	0.006719	3.70	105.62	130.22	0.82
Cuggiani-med2	3978.42	Tr 200	234.68	24.90	28.24	28.24	28.61	0.007627	4.03	114.46	133.50	0.88
Cuggiani-med2	3978.42	Tr 500	282.04	24.90	28.35	28.35	28.74	0.007704	4.19	129.54	134.21	0.89
Cuggiani-med2	3952.58	Tr 50	164.69	26.10	27.80	27.80	28.09	0.008732	3.43	87.34	127.60	0.96
Cuggiani-med2	3952.58	Tr 100	199.37	26.10	27.87	27.87	28.20	0.009757	3.75	95.71	128.14	1.02
Cuggiani-med2	3952.58	Tr 200	234.68	26.10	27.95	27.95	28.31	0.009733	3.90	106.77	128.73	1.03
Cuggiani-med2	3952.58	Tr 500	282.04	26.10	28.05	28.05	28.45	0.010013	4.13	119.35	129.32	1.06
Cuggiani-med2	3928.35	Tr 50	164.69	25.80	27.64		27.84	0.006776	2.99	97.45	130.04	0.84
Cuggiani-med2	3928.35	Tr 100	199.37	25.80	27.73		27.96	0.006993	3.18	109.24	130.57	0.86
Cuggiani-med2	3928.35	Tr 200	234.68	25.80	27.81		28.07	0.007173	3.35	120.37	131.06	0.88
Cuggiani-med2	3928.35	Tr 500	282.04	25.80	27.92		28.20	0.007367	3.56	134.27	131.68	0.90
Cuggiani-med2	3902.56	Tr 50	164.69	24.90	27.36	27.36	27.64	0.008056	3.51	90.76	130.60	0.90
Cuggiani-med2	3902.56	Tr 100	199.37	24.90	27.45	27.44	27.75	0.008152	3.67	102.95	131.54	0.91
Cuggiani-med2	3902.56	Tr 200	234.68	24.90	27.54	27.51	27.86	0.008213	3.82	114.57	132.44	0.92

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	3902.56	Tr 500	282.04	24.90	27.65		27.99	0.008289	3.99	129.02	133.46	0.94
Cuggiani-med2	3877.65	Tr 50	164.69	25.20	27.21		27.40	0.008396	3.11	95.26	132.67	0.85
Cuggiani-med2	3877.65	Tr 100	199.37	25.20	27.30		27.52	0.008585	3.25	107.26	134.76	0.87
Cuggiani-med2	3877.65	Tr 200	234.68	25.20	27.39		27.62	0.008749	3.37	118.54	136.29	0.88
Cuggiani-med2	3877.65	Tr 500	282.04	25.20	27.49		27.76	0.008854	3.51	133.08	138.23	0.89
Cuggiani-med2	3852.54	Tr 50	164.69	25.20	26.95	26.90	27.17	0.010539	3.30	89.30	136.78	0.97
Cuggiani-med2	3852.54	Tr 100	199.37	25.20	27.03	26.97	27.28	0.010673	3.44	100.94	138.72	0.98
Cuggiani-med2	3852.54	Tr 200	234.68	25.20	27.11	27.04	27.38	0.010764	3.56	111.98	140.17	0.99
Cuggiani-med2	3852.54	Tr 500	282.04	25.20	27.21	27.12	27.51	0.010858	3.70	125.87	141.96	1.00
Cuggiani-med2	3827.86	Tr 50	164.69	24.60	26.73		26.91	0.009677	3.04	95.78	145.89	0.87
Cuggiani-med2	3827.86	Tr 100	199.37	24.60	26.82		27.01	0.009557	3.13	108.73	147.68	0.88
Cuggiani-med2	3827.86	Tr 200	234.68	24.60	26.90		27.11	0.009614	3.23	120.51	149.30	0.88
Cuggiani-med2	3827.86	Tr 500	282.04	24.60	27.01		27.24	0.009405	3.07	137.61	153.63	0.88
Cuggiani-med2	3802.52	Tr 50	164.69	24.90	26.47	26.37	26.65	0.010652	3.05	93.83	147.67	0.95
Cuggiani-med2	3802.52	Tr 100	199.37	24.90	26.54	26.43	26.75	0.011104	3.26	104.80	150.33	0.98
Cuggiani-med2	3802.52	Tr 200	234.68	24.90	26.63	26.51	26.86	0.010547	3.35	118.51	153.60	0.97
Cuggiani-med2	3802.52	Tr 500	282.04	24.90	26.71	26.59	26.97	0.011279	3.61	130.92	156.26	1.02
Cuggiani-med2	3777.5	Tr 50	164.69	23.70	26.13	26.13	26.38	0.009893	3.69	92.73	149.51	0.91
Cuggiani-med2	3777.5	Tr 100	199.37	23.70	26.21	26.21	26.48	0.010178	3.81	104.70	151.31	0.93
Cuggiani-med2	3777.5	Tr 200	234.68	23.70	26.25	26.25	26.57	0.011561	4.10	112.00	152.40	1.00
Cuggiani-med2	3777.5	Tr 500	282.04	23.70	26.35	26.35	26.68	0.011480	4.16	127.03	154.61	1.00
Cuggiani-med2	3752.5	Tr 50	164.69	24.60	25.80	25.77	26.01	0.015421	3.37	85.27	153.06	1.14
Cuggiani-med2	3752.5	Tr 100	199.37	24.60	25.87	25.83	26.11	0.015004	3.48	97.06	154.66	1.13
Cuggiani-med2	3752.5	Tr 200	234.68	24.60	25.95	25.89	26.21	0.014716	3.58	108.27	156.16	1.13
Cuggiani-med2	3752.5	Tr 500	282.04	24.60	26.04	25.97	26.33	0.014464	3.71	122.30	158.01	1.13
Cuggiani-med2	3725.88	Tr 50	164.69	24.00	25.58		25.72	0.007987	2.59	105.81	163.75	0.85
Cuggiani-med2	3725.88	Tr 100	199.37	24.00	25.65		25.82	0.008128	2.75	118.72	165.39	0.87
Cuggiani-med2	3725.88	Tr 200	234.68	24.00	25.73		25.91	0.008257	2.91	130.95	166.92	0.89
Cuggiani-med2	3725.88	Tr 500	282.04	24.00	25.82		26.03	0.008352	3.09	146.55	168.76	0.90
Cuggiani-med2	3701.02	Tr 50	164.69	24.00	25.38		25.53	0.007304	2.77	109.57	173.81	0.84
Cuggiani-med2	3701.02	Tr 100	199.37	24.00	25.46		25.63	0.007255	2.89	123.99	174.28	0.85
Cuggiani-med2	3701.02	Tr 200	234.68	24.00	25.54		25.72	0.007331	3.03	136.97	174.66	0.86
Cuggiani-med2	3701.02	Tr 500	282.04	24.00	25.63		25.83	0.007419	3.19	153.12	175.09	0.88
Cuggiani-med2	3676.62	Tr 50	164.69	23.40	25.15		25.33	0.009297	3.08	101.40	167.44	0.93
Cuggiani-med2	3676.62	Tr 100	199.37	23.40	25.24		25.43	0.009056	3.17	116.43	172.88	0.92
Cuggiani-med2	3676.62	Tr 200	234.68	23.40	25.33		25.52	0.008604	3.23	131.10	173.67	0.91
Cuggiani-med2	3676.62	Tr 500	282.04	23.40	25.43		25.64	0.008289	3.34	148.84	174.61	0.91
Cuggiani-med2	3651	Tr 50	164.69	22.50	25.02		25.16	0.004291	2.60	128.64	187.98	0.66
Cuggiani-med2	3651	Tr 100	199.37	22.50	25.12		25.26	0.004256	2.66	146.96	189.53	0.66
Cuggiani-med2	3651	Tr 200	234.68	22.50	25.21		25.36	0.004294	2.73	163.97	193.21	0.67
Cuggiani-med2	3651	Tr 500	282.04	22.50	25.32		25.48	0.004267	2.84	185.09	193.90	0.67
Cuggiani-med2	3627.71	Tr 50	164.69	22.95	24.94		25.05	0.004368	2.43	130.24	189.45	0.66
Cuggiani-med2	3627.71	Tr 100	199.37	22.95	25.03		25.15	0.004377	2.55	148.09	192.83	0.67
Cuggiani-med2	3627.71	Tr 200	234.68	22.95	25.12		25.25	0.004377	2.65	165.07	195.28	0.68
Cuggiani-med2	3627.71	Tr 500	282.04	22.95	25.23		25.37	0.004373	2.77	186.40	198.07	0.68
Cuggiani-med2	3600.98	Tr 50	164.69	22.50	24.64	24.64	24.89	0.007382	3.17	100.92	170.61	0.88
Cuggiani-med2	3600.98	Tr 100	199.37	22.50	24.71	24.71	24.99	0.007881	3.39	113.01	172.97	0.91
Cuggiani-med2	3600.98	Tr 200	234.68	22.50	24.77	24.77	25.08	0.008336	3.59	124.29	175.15	0.95
Cuggiani-med2	3600.98	Tr 500	282.04	22.50	24.85	24.85	25.19	0.008909	3.85	138.05	177.78	0.99
Cuggiani-med2	3566.97	Tr 50	164.69	22.35	24.42	24.28	24.59	0.004067	3.23	115.65	172.95	0.72
Cuggiani-med2	3566.97	Tr 100	199.37	22.35	24.36	24.36	24.67	0.007158	4.21	108.32	171.34	0.95
Cuggiani-med2	3566.97	Tr 200	234.68	22.35	24.44	24.44	24.77	0.007644	4.46	118.88	173.66	0.99
Cuggiani-med2	3566.97	Tr 500	282.04	22.35	24.53	24.53	24.90	0.008100	4.73	133.07	180.67	1.02
Cuggiani-med2	3558.31		Bridge									
Cuggiani-med2	3550.96	Tr 50	164.69	21.45	23.89	23.89	24.18	0.010009	3.77	82.86	140.29	0.90
Cuggiani-med2	3550.96	Tr 100	199.37	21.45	23.98	23.98	24.30	0.010251	3.95	94.84	145.13	0.92
Cuggiani-med2	3550.96	Tr 200	234.68	21.45	24.07	24.07	24.41	0.010341	4.08	107.05	158.76	0.93
Cuggiani-med2	3550.96	Tr 500	282.04	21.45	24.17	24.17	24.53	0.010672	4.29	121.39	168.65	0.96
Cuggiani-med2	3525.58	Tr 50	164.69	22.05	23.58		23.77	0.009121	3.02	94.50	142.22	0.92
Cuggiani-med2	3525.58	Tr 100	199.37	22.05	23.67	23.51	23.88	0.009351	3.21	106.12	143.48	0.94
Cuggiani-med2	3525.58	Tr 200	234.68	22.05	23.74	23.64	23.98	0.009624	3.39	116.95	145.08	0.97
Cuggiani-med2	3525.58	Tr 500	282.04	22.05	23.83	23.72	24.11	0.010093	3.64	129.96	147.41	1.00
Cuggiani-med2	3500.94	Tr 50	164.69	21.60	23.50		23.61	0.003738	2.32	134.93	184.52	0.63
Cuggiani-med2	3500.94	Tr 100	199.37	21.60	23.58		23.71	0.004041	2.50	149.75	188.51	0.66
Cuggiani-med2	3500.94	Tr 200	234.68	21.60	23.66		23.80	0.004295	2.66	163.99	192.31	0.68
Cuggiani-med2	3500.94	Tr 500	282.04	21.60	23.75		23.91	0.004580	2.86	181.82	198.90	0.71
Cuggiani-med2	3479.51	Tr 50	164.69	21.60	23.44		23.53	0.003416	2.01	142.42	201.82	0.59

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	3479.51	Tr 100	199.37	21.60	23.51		23.62	0.003758	2.20	157.25	206.48	0.62
Cuggiani-med2	3479.51	Tr 200	234.68	21.60	23.58		23.70	0.004034	2.36	171.72	210.92	0.65
Cuggiani-med2	3479.51	Tr 500	282.04	21.60	23.67		23.81	0.004360	2.55	189.82	216.35	0.68
Cuggiani-med2	3450.92	Tr 50	164.69	21.60	23.22		23.37	0.009275	2.84	109.81	234.37	0.90
Cuggiani-med2	3450.92	Tr 100	199.37	21.60	23.31		23.46	0.008171	2.83	131.66	240.03	0.86
Cuggiani-med2	3450.92	Tr 200	234.68	21.60	23.39		23.55	0.007586	2.85	151.36	245.02	0.83
Cuggiani-med2	3450.92	Tr 500	282.04	21.60	23.49		23.65	0.007045	2.90	175.78	248.03	0.81
Cuggiani-med2	3426.13	Tr 50	164.69	21.60	23.06		23.19	0.005717	2.33	115.36	175.25	0.74
Cuggiani-med2	3426.13	Tr 100	199.37	21.60	23.14		23.29	0.006007	2.51	131.78	225.40	0.76
Cuggiani-med2	3426.13	Tr 200	234.68	21.60	23.22		23.38	0.006062	2.64	149.80	236.76	0.78
Cuggiani-med2	3426.13	Tr 500	282.04	21.60	23.33		23.49	0.005914	2.76	174.98	251.76	0.78
Cuggiani-med2	3400.9	Tr 50	164.69	20.70	22.92		23.05	0.004933	2.56	125.18	196.45	0.70
Cuggiani-med2	3400.9	Tr 100	199.37	20.70	23.01		23.15	0.004919	2.66	142.93	199.09	0.71
Cuggiani-med2	3400.9	Tr 200	234.68	20.70	23.08		23.24	0.005144	2.81	157.26	201.16	0.73
Cuggiani-med2	3400.9	Tr 500	282.04	20.70	23.17		23.35	0.005457	3.01	176.23	214.98	0.76
Cuggiani-med2	3376.88	Tr 50	164.69	20.70	22.59	22.59	22.86	0.012645	3.48	83.90	170.01	1.08
Cuggiani-med2	3376.88	Tr 100	199.37	20.70	22.73	22.73	22.97	0.011025	3.47	110.38	196.91	1.02
Cuggiani-med2	3376.88	Tr 200	234.68	20.70	22.80	22.80	23.05	0.011216	3.59	123.27	200.13	1.04
Cuggiani-med2	3376.88	Tr 500	282.04	20.70	22.86	22.86	23.15	0.012126	3.78	136.52	203.02	1.08
Cuggiani-med2	3350.88	Tr 50	164.69	20.85	22.36		22.50	0.007583	2.57	111.15	208.25	0.83
Cuggiani-med2	3350.88	Tr 100	199.37	20.85	22.44		22.59	0.007464	2.69	127.83	210.83	0.83
Cuggiani-med2	3350.88	Tr 200	234.68	20.85	22.51		22.68	0.007780	2.86	142.93	219.99	0.86
Cuggiani-med2	3350.88	Tr 500	282.04	20.85	22.60		22.79	0.007613	2.99	163.44	225.10	0.86
Cuggiani-med2	3322.48	Tr 50	164.69	20.55	22.15		22.28	0.007734	2.54	111.98	201.53	0.83
Cuggiani-med2	3322.48	Tr 100	199.37	20.55	22.22		22.37	0.008085	2.57	127.95	220.51	0.85
Cuggiani-med2	3322.48	Tr 200	234.68	20.55	22.29		22.45	0.008034	2.69	143.12	222.93	0.86
Cuggiani-med2	3322.48	Tr 500	282.04	20.55	22.38		22.56	0.008078	2.86	164.30	236.97	0.87
Cuggiani-med2	3300.86	Tr 50	164.69	20.40	22.03		22.13	0.005571	2.42	135.65	247.56	0.73
Cuggiani-med2	3300.86	Tr 100	199.37	20.40	22.11		22.22	0.005396	2.50	155.69	250.21	0.73
Cuggiani-med2	3300.86	Tr 200	234.68	20.40	22.19		22.30	0.005261	2.57	174.79	252.72	0.72
Cuggiani-med2	3300.86	Tr 500	282.04	20.40	22.29		22.41	0.005120	2.66	200.62	263.15	0.72
Cuggiani-med2	3277.59	Tr 50	164.69	20.40	21.96		22.02	0.003274	1.86	164.54	254.07	0.57
Cuggiani-med2	3277.59	Tr 100	199.37	20.40	22.04		22.11	0.003294	1.95	185.05	254.84	0.57
Cuggiani-med2	3277.59	Tr 200	234.68	20.40	22.11		22.19	0.003313	2.04	204.45	255.56	0.58
Cuggiani-med2	3277.59	Tr 500	282.04	20.40	22.21		22.30	0.003499	2.20	229.31	269.12	0.61
Cuggiani-med2	3265.43	Tr 50	164.69	20.70	21.92		21.98	0.003270	1.62	162.79	246.24	0.55
Cuggiani-med2	3265.43	Tr 100	199.37	20.70	22.00		22.07	0.003332	1.73	182.18	247.51	0.57
Cuggiani-med2	3265.43	Tr 200	234.68	20.70	22.07		22.15	0.003381	1.83	200.65	248.72	0.58
Cuggiani-med2	3265.43	Tr 500	282.04	20.70	22.17		22.26	0.003403	1.95	224.41	250.27	0.59
Cuggiani-med2	3250.84	Tr 50	164.69	20.70	21.84		21.92	0.005119	2.09	140.60	237.34	0.70
Cuggiani-med2	3250.84	Tr 100	199.37	20.70	21.91		22.01	0.005077	2.20	159.07	239.88	0.71
Cuggiani-med2	3250.84	Tr 200	234.68	20.70	21.99		22.09	0.004983	2.29	176.91	240.52	0.71
Cuggiani-med2	3250.84	Tr 500	282.04	20.70	22.08		22.20	0.004832	2.39	199.98	241.35	0.71
Cuggiani-med2	3225.92	Tr 50	164.69	20.40	21.70		21.79	0.004940	2.04	139.04	239.71	0.69
Cuggiani-med2	3225.92	Tr 100	199.37	20.40	21.78		21.88	0.004821	2.13	158.49	242.62	0.69
Cuggiani-med2	3225.92	Tr 200	234.68	20.40	21.86		21.97	0.004684	2.21	177.65	245.46	0.69
Cuggiani-med2	3225.92	Tr 500	282.04	20.40	21.95		22.08	0.004769	2.36	201.44	257.49	0.70
Cuggiani-med2	3200.82	Tr 50	164.69	20.40	21.60		21.67	0.003979	2.03	151.86	240.43	0.63
Cuggiani-med2	3200.82	Tr 100	199.37	20.40	21.68		21.77	0.003933	2.12	171.95	242.27	0.63
Cuggiani-med2	3200.82	Tr 200	234.68	20.40	21.77		21.86	0.003849	2.20	191.84	244.08	0.63
Cuggiani-med2	3200.82	Tr 500	282.04	20.40	21.86		21.96	0.003871	2.32	215.01	246.16	0.64
Cuggiani-med2	3172.8	Tr 50	164.69	20.10	21.51		21.58	0.002947	1.91	164.95	237.32	0.55
Cuggiani-med2	3172.8	Tr 100	199.37	20.10	21.59		21.67	0.003026	2.02	184.46	238.51	0.57
Cuggiani-med2	3172.8	Tr 200	234.68	20.10	21.67		21.75	0.003261	2.18	203.92	253.33	0.59
Cuggiani-med2	3172.8	Tr 500	282.04	20.10	21.77		21.86	0.003290	2.29	227.92	253.91	0.60
Cuggiani-med2	3150.8	Tr 50	164.69	19.80	21.46		21.51	0.002536	1.85	183.31	280.30	0.52
Cuggiani-med2	3150.8	Tr 100	199.37	19.80	21.54		21.60	0.002583	1.95	206.63	284.92	0.53
Cuggiani-med2	3150.8	Tr 200	234.68	19.80	21.62		21.69	0.002624	2.04	228.78	289.04	0.54
Cuggiani-med2	3150.8	Tr 500	282.04	19.80	21.71		21.79	0.002660	2.14	256.65	293.27	0.55
Cuggiani-med2	3127.02	Tr 50	164.69	20.10	21.39		21.45	0.002846	1.85	176.10	276.27	0.54
Cuggiani-med2	3127.02	Tr 100	199.37	20.10	21.47		21.54	0.002882	1.94	198.66	279.83	0.55
Cuggiani-med2	3127.02	Tr 200	234.68	20.10	21.55		21.62	0.002922	2.03	219.92	283.14	0.56
Cuggiani-med2	3127.02	Tr 500	282.04	20.10	21.64		21.72	0.003019	2.16	246.52	290.87	0.58
Cuggiani-med2	3100.78	Tr 50	164.69	19.50	21.34		21.38	0.002118	1.61	195.50	286.18	0.47
Cuggiani-med2	3100.78	Tr 100	199.37	19.50	21.42		21.47	0.002202	1.71	218.37	289.37	0.48
Cuggiani-med2	3100.78	Tr 200	234.68	19.50	21.49		21.55	0.002279	1.81	239.88	292.33	0.49
Cuggiani-med2	3100.78	Tr 500	282.04	19.50	21.58		21.65	0.002375	1.93	266.49	295.96	0.51
Cuggiani-med2	3074.4	Tr 50	164.69	19.80	21.26		21.32	0.002708	1.95	180.38	285.87	0.54

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	3074.4	Tr 100	199.37	19.80	21.34		21.40	0.002786	2.06	202.65	289.75	0.55
Cuggiani-med2	3074.4	Tr 200	234.68	19.80	21.41		21.48	0.002849	2.15	223.64	292.51	0.56
Cuggiani-med2	3074.4	Tr 500	282.04	19.80	21.50		21.58	0.002936	2.27	249.47	295.88	0.58
Cuggiani-med2	3050.76	Tr 50	164.69	19.20	21.17		21.25	0.002765	2.21	174.40	282.83	0.55
Cuggiani-med2	3050.76	Tr 100	199.37	19.20	21.24		21.33	0.002901	2.33	195.57	287.15	0.57
Cuggiani-med2	3050.76	Tr 200	234.68	19.20	21.31		21.41	0.003007	2.44	215.76	290.82	0.58
Cuggiani-med2	3050.76	Tr 500	282.04	19.20	21.40		21.50	0.003109	2.56	240.83	293.31	0.60
Cuggiani-med2	3023.59	Tr 50	164.69	18.90	21.01		21.15	0.004603	2.79	144.85	274.14	0.71
Cuggiani-med2	3023.59	Tr 100	199.37	18.90	21.10		21.23	0.004192	2.76	170.71	277.79	0.68
Cuggiani-med2	3023.59	Tr 200	234.68	18.90	21.17		21.31	0.004222	2.85	190.24	280.51	0.69
Cuggiani-med2	3023.59	Tr 500	282.04	18.90	21.26		21.40	0.004325	2.98	213.53	283.73	0.70
Cuggiani-med2	3000.74	Tr 50	164.69	18.60	20.97		21.05	0.002570	2.07	163.68	262.79	0.52
Cuggiani-med2	3000.74	Tr 100	199.37	18.60	21.04		21.14	0.003325	2.28	182.33	270.76	0.59
Cuggiani-med2	3000.74	Tr 200	234.68	18.60	21.10		21.21	0.003517	2.41	199.59	273.06	0.61
Cuggiani-med2	3000.74	Tr 500	282.04	18.60	21.18		21.30	0.003798	2.59	219.88	275.74	0.64
Cuggiani-med2	2985.65	Tr 50	164.69	18.60	20.80	20.80	20.99	0.006169	3.19	128.00	264.38	0.81
Cuggiani-med2	2985.65	Tr 100	199.37	18.60	20.86	20.86	21.06	0.006624	3.39	142.92	267.17	0.84
Cuggiani-med2	2985.65	Tr 200	234.68	18.60	20.91	20.91	21.13	0.007132	3.59	156.07	269.60	0.88
Cuggiani-med2	2985.65	Tr 500	282.04	18.60	21.01	20.97	21.22	0.006609	3.58	182.27	278.46	0.85
Cuggiani-med2	2975.43		Bridge									
Cuggiani-med2	2964.64	Tr 50	164.69	18.90	20.56	20.56	20.77	0.007928	3.38	109.99	230.58	0.91
Cuggiani-med2	2964.64	Tr 100	199.37	18.90	20.62	20.62	20.85	0.008499	3.61	124.24	240.82	0.95
Cuggiani-med2	2964.64	Tr 200	234.68	18.90	20.68	20.68	20.93	0.008939	3.80	138.20	250.45	0.98
Cuggiani-med2	2964.64	Tr 500	282.04	18.90	20.79	20.79	21.04	0.008739	3.93	164.70	264.98	0.98
Cuggiani-med2	2950.72	Tr 50	164.69	18.30	20.30	20.09	20.50	0.005664	2.98	109.95	182.11	0.79
Cuggiani-med2	2950.72	Tr 100	199.37	18.30	20.41	20.10	20.61	0.005486	3.08	131.00	232.47	0.78
Cuggiani-med2	2950.72	Tr 200	234.68	18.30	20.58	20.39	20.73	0.003847	2.76	172.64	247.70	0.67
Cuggiani-med2	2950.72	Tr 500	282.04	18.30	20.69	20.50	20.84	0.003832	2.87	199.27	256.97	0.67
Cuggiani-med2	2924.83	Tr 50	164.69	18.60	20.03	20.02	20.28	0.012123	3.53	86.47	170.50	1.09
Cuggiani-med2	2924.83	Tr 100	199.37	18.60	20.08	20.04	20.38	0.013634	3.86	95.61	176.01	1.17
Cuggiani-med2	2924.83	Tr 200	234.68	18.60	20.07	20.07	20.51	0.020259	4.67	93.11	174.52	1.42
Cuggiani-med2	2924.83	Tr 500	282.04	18.60	20.23	20.09	20.63	0.018203	4.85	128.99	242.19	1.38
Cuggiani-med2	2900.7	Tr 50	164.69	18.00	19.98		20.07	0.004304	2.28	145.50	237.17	0.66
Cuggiani-med2	2900.7	Tr 100	199.37	18.00	20.05		20.15	0.004448	2.41	163.21	240.53	0.68
Cuggiani-med2	2900.7	Tr 200	234.68	18.00	20.12		20.24	0.004936	2.63	180.91	263.38	0.72
Cuggiani-med2	2900.7	Tr 500	282.04	18.00	20.21		20.34	0.005029	2.76	203.31	268.88	0.73
Cuggiani-med2	2875.32	Tr 50	164.69	17.40	19.68	19.68	19.90	0.009120	3.55	108.61	227.88	0.95
Cuggiani-med2	2875.32	Tr 100	199.37	17.40	19.73	19.73	19.98	0.009841	3.78	121.05	232.72	0.99
Cuggiani-med2	2875.32	Tr 200	234.68	17.40	19.78	19.78	20.05	0.010391	3.98	133.18	237.35	1.03
Cuggiani-med2	2875.32	Tr 500	282.04	17.40	19.88	19.88	20.15	0.009956	4.06	157.57	248.53	1.02
Cuggiani-med2	2850.68	Tr 50	164.69	17.10	19.38	19.38	19.59	0.005572	3.07	119.68	220.86	0.78
Cuggiani-med2	2850.68	Tr 100	199.37	17.10	19.41	19.41	19.68	0.007017	3.49	126.62	222.35	0.88
Cuggiani-med2	2850.68	Tr 200	234.68	17.10	19.47	19.47	19.76	0.007465	3.68	139.47	225.08	0.91
Cuggiani-med2	2850.68	Tr 500	282.04	17.10	19.58	19.58	19.87	0.007130	3.76	165.96	242.56	0.90
Cuggiani-med2	2824.79	Tr 50	164.69	17.10	19.09	19.09	19.30	0.007617	3.18	110.39	208.47	0.89
Cuggiani-med2	2824.79	Tr 100	199.37	17.10	19.13	19.13	19.39	0.008754	3.49	120.30	210.60	0.95
Cuggiani-med2	2824.79	Tr 200	234.68	17.10	19.21	19.21	19.47	0.008742	3.61	136.43	227.41	0.96
Cuggiani-med2	2824.79	Tr 500	282.04	17.10	19.29	19.29	19.56	0.008770	3.75	154.60	229.53	0.97
Cuggiani-med2	2800.66	Tr 50	164.69	16.80	18.89		19.08	0.007065	3.03	114.86	216.25	0.85
Cuggiani-med2	2800.66	Tr 100	199.37	16.80	18.98		19.17	0.007347	3.21	134.62	247.66	0.87
Cuggiani-med2	2800.66	Tr 200	234.68	16.80	19.05		19.25	0.007053	3.26	153.07	251.96	0.86
Cuggiani-med2	2800.66	Tr 500	282.04	16.80	19.13		19.34	0.006993	3.37	174.28	256.80	0.86
Cuggiani-med2	2775.16	Tr 50	164.69	16.50	18.69	18.69	18.89	0.007645	3.52	114.54	235.47	0.86
Cuggiani-med2	2775.16	Tr 100	199.37	16.50	18.74	18.74	18.97	0.008573	3.80	126.55	238.91	0.91
Cuggiani-med2	2775.16	Tr 200	234.68	16.50	18.80	18.80	19.04	0.009147	4.00	139.19	242.49	0.95
Cuggiani-med2	2775.16	Tr 500	282.04	16.50	18.86	18.86	19.13	0.009601	4.20	156.04	247.16	0.98
Cuggiani-med2	2750.64	Tr 50	164.69	15.90	18.41	18.41	18.62	0.004980	2.99	126.95	244.31	0.74
Cuggiani-med2	2750.64	Tr 100	199.37	15.90	18.47	18.47	18.70	0.005611	3.24	140.32	247.24	0.79
Cuggiani-med2	2750.64	Tr 200	234.68	15.90	18.49	18.49	18.78	0.006829	3.62	147.28	248.76	0.87
Cuggiani-med2	2750.64	Tr 500	282.04	15.90	18.60	18.60	18.87	0.006349	3.62	173.04	254.30	0.85
Cuggiani-med2	2722.95	Tr 50	164.69	16.50	18.18	18.18	18.37	0.009761	3.26	108.56	230.82	0.97
Cuggiani-med2	2722.95	Tr 100	199.37	16.50	18.23	18.23	18.44	0.010531	3.47	120.92	236.61	1.02
Cuggiani-med2	2722.95	Tr 200	234.68	16.50	18.27	18.27	18.51	0.011947	3.75	129.69	240.64	1.09
Cuggiani-med2	2722.95	Tr 500	282.04	16.50	18.36	18.36	18.62	0.011571	3.87	154.26	261.48	1.08
Cuggiani-med2	2700.62	Tr 50	164.69	15.90	17.90	17.90	18.09	0.008926	3.14	113.66	242.03	0.92
Cuggiani-med2	2700.62	Tr 100	199.37	15.90	17.95	17.95	18.16	0.009737	3.35	125.76	244.16	0.97
Cuggiani-med2	2700.62	Tr 200	234.68	15.90	18.00	18.00	18.22	0.010293	3.51	137.84	246.27	1.00
Cuggiani-med2	2700.62	Tr 500	282.04	15.90	18.07	18.06	18.31	0.010400	3.66	155.56	253.22	1.02

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	2674.69	Tr 50	164.69	16.50	17.68		17.79	0.007358	2.69	124.89	238.37	0.84
Cuggiani-med2	2674.69	Tr 100	199.37	16.50	17.75		17.88	0.007485	2.84	143.53	251.57	0.86
Cuggiani-med2	2674.69	Tr 200	234.68	16.50	17.85		17.97	0.006143	2.73	169.41	253.98	0.79
Cuggiani-med2	2674.69	Tr 500	282.04	16.50	17.93		18.06	0.006376	2.89	188.02	255.70	0.81
Cuggiani-med2	2650.6	Tr 50	164.69	16.20	17.55		17.64	0.004590	2.30	141.84	235.00	0.69
Cuggiani-med2	2650.6	Tr 100	199.37	16.20	17.62		17.73	0.004780	2.45	158.56	238.79	0.71
Cuggiani-med2	2650.6	Tr 200	234.68	16.20	17.76		17.85	0.003755	2.32	190.62	245.90	0.64
Cuggiani-med2	2650.6	Tr 500	282.04	16.20	17.81		17.93	0.004322	2.56	205.12	249.05	0.69
Cuggiani-med2	2623.89	Tr 50	164.69	15.60	17.43		17.53	0.003571	2.45	152.54	242.38	0.63
Cuggiani-med2	2623.89	Tr 100	199.37	15.60	17.49		17.61	0.004003	2.65	166.70	243.78	0.67
Cuggiani-med2	2623.89	Tr 200	234.68	15.60	17.68	17.38	17.77	0.002660	2.33	212.07	248.20	0.56
Cuggiani-med2	2623.89	Tr 500	282.04	15.60	17.71		17.83	0.003375	2.66	221.26	249.27	0.63
Cuggiani-med2	2600.58	Tr 50	164.69	15.60	17.18	17.18	17.40	0.008950	3.32	109.36	223.12	0.96
Cuggiani-med2	2600.58	Tr 100	199.37	15.60	17.07	17.07	17.43	0.013753	3.86	86.22	161.34	1.17
Cuggiani-med2	2600.58	Tr 200	234.68	15.60	17.05	17.05	17.59	0.021110	4.72	82.45	158.34	1.45
Cuggiani-med2	2600.58	Tr 500	282.04	15.60	17.30	17.07	17.66	0.014138	4.43	135.10	228.11	1.23
Cuggiani-med2	2573.79	Tr 50	164.69	15.90	16.88	16.76	17.03	0.009447	3.00	110.32	218.39	0.97
Cuggiani-med2	2573.79	Tr 100	199.37	15.90	16.96	16.87	17.12	0.008839	3.05	127.93	222.57	0.95
Cuggiani-med2	2573.79	Tr 200	234.68	15.90	17.03		17.20	0.008384	3.11	144.89	226.52	0.93
Cuggiani-med2	2573.79	Tr 500	282.04	15.90	17.14	17.01	17.31	0.008464	3.31	168.69	245.18	0.95
Cuggiani-med2	2550.56	Tr 50	164.69	15.30	16.72		16.84	0.006468	2.62	121.94	208.02	0.78
Cuggiani-med2	2550.56	Tr 100	199.37	15.30	16.81		16.94	0.006141	2.66	141.08	218.81	0.77
Cuggiani-med2	2550.56	Tr 200	234.68	15.30	16.90		17.03	0.005835	2.69	160.03	223.80	0.76
Cuggiani-med2	2550.56	Tr 500	282.04	15.30	17.01		17.15	0.005385	2.70	185.82	230.41	0.73
Cuggiani-med2	2523.73	Tr 50	164.69	15.30	16.58		16.69	0.004879	2.34	123.02	190.85	0.70
Cuggiani-med2	2523.73	Tr 100	199.37	15.30	16.66		16.79	0.005021	2.49	139.87	200.71	0.72
Cuggiani-med2	2523.73	Tr 200	234.68	15.30	16.74		16.88	0.005141	2.63	156.19	209.82	0.74
Cuggiani-med2	2523.73	Tr 500	282.04	15.30	16.84		17.00	0.005568	2.88	178.28	231.81	0.78
Cuggiani-med2	2486.55	Tr 50	164.69	14.70	16.19	16.16	16.40	0.013542	3.44	89.04	167.62	1.06
Cuggiani-med2	2486.55	Tr 100	199.37	14.70	16.26	16.22	16.49	0.013600	3.56	102.02	179.44	1.07
Cuggiani-med2	2486.55	Tr 200	234.68	14.70	16.33	16.28	16.57	0.013731	3.68	114.14	185.91	1.08
Cuggiani-med2	2486.55	Tr 500	282.04	14.70	16.42	16.37	16.68	0.013115	3.73	132.20	195.17	1.07
Cuggiani-med2	2450.52	Tr 50	164.69	14.10	15.86		16.01	0.007900	2.89	107.84	176.18	0.86
Cuggiani-med2	2450.52	Tr 100	199.37	14.10	15.95		16.11	0.007531	2.94	124.18	182.05	0.84
Cuggiani-med2	2450.52	Tr 200	234.68	14.10	16.07		16.23	0.006326	2.84	146.54	190.78	0.78
Cuggiani-med2	2450.52	Tr 500	282.04	14.10	16.14		16.33	0.006837	3.04	161.49	196.40	0.82
Cuggiani-med2	2423.47	Tr 50	164.69	14.40	15.72		15.82	0.005617	2.23	126.33	191.34	0.71
Cuggiani-med2	2423.47	Tr 100	199.37	14.40	15.82		15.93	0.005115	2.27	146.59	193.36	0.69
Cuggiani-med2	2423.47	Tr 200	234.68	14.40	15.97		16.07	0.004323	2.27	175.24	208.30	0.65
Cuggiani-med2	2423.47	Tr 500	282.04	14.40	16.03		16.15	0.004995	2.51	188.08	209.89	0.70
Cuggiani-med2	2400.5	Tr 50	164.69	13.80	15.65		15.72	0.002835	1.88	148.93	171.70	0.52
Cuggiani-med2	2400.5	Tr 100	199.37	13.80	15.76		15.83	0.002854	1.98	167.16	172.39	0.53
Cuggiani-med2	2400.5	Tr 200	234.68	13.80	15.90		15.99	0.002635	2.03	192.94	206.61	0.51
Cuggiani-med2	2400.5	Tr 500	282.04	13.80	15.95		16.06	0.003341	2.33	202.12	210.83	0.58
Cuggiani-med2	2375.61	Tr 50	164.69	14.10	15.56		15.63	0.004032	1.68	138.09	179.65	0.54
Cuggiani-med2	2375.61	Tr 100	199.37	14.10	15.66		15.75	0.004399	1.85	159.08	216.76	0.57
Cuggiani-med2	2375.61	Tr 200	234.68	14.10	15.84		15.91	0.003186	1.69	197.24	224.91	0.49
Cuggiani-med2	2375.61	Tr 500	282.04	14.10	15.86		15.96	0.004294	1.98	201.80	225.86	0.57
Cuggiani-med2	2350.48	Tr 50	164.69	13.20	15.44		15.52	0.004854	2.08	133.68	202.84	0.57
Cuggiani-med2	2350.48	Tr 100	199.37	13.20	15.54		15.63	0.004504	2.03	155.68	206.91	0.55
Cuggiani-med2	2350.48	Tr 200	234.68	13.20	15.76		15.83	0.002887	1.60	204.32	231.96	0.45
Cuggiani-med2	2350.48	Tr 500	282.04	13.20	15.74		15.85	0.004494	2.00	199.01	230.49	0.56
Cuggiani-med2	2326.11	Tr 50	164.69	13.20	15.36		15.42	0.003179	1.79	156.99	223.92	0.50
Cuggiani-med2	2326.11	Tr 100	199.37	13.20	15.47		15.54	0.002929	1.79	183.12	229.32	0.49
Cuggiani-med2	2326.11	Tr 200	234.68	13.20	15.72		15.77	0.001817	1.41	243.22	252.20	0.39
Cuggiani-med2	2326.11	Tr 500	282.04	13.20	15.67		15.75	0.003118	1.80	229.46	249.52	0.51
Cuggiani-med2	2300.46	Tr 50	164.69	13.20	15.27		15.34	0.002863	1.91	151.01	219.19	0.53
Cuggiani-med2	2300.46	Tr 100	199.37	13.20	15.37		15.46	0.003314	2.17	174.52	231.37	0.58
Cuggiani-med2	2300.46	Tr 200	234.68	13.20	15.67		15.73	0.001631	1.73	247.23	248.17	0.42
Cuggiani-med2	2300.46	Tr 500	282.04	13.20	15.56		15.67	0.003383	2.38	219.29	243.54	0.60
Cuggiani-med2	2275.29	Tr 50	164.69	13.20	15.15		15.25	0.004215	2.46	139.12	223.02	0.66
Cuggiani-med2	2275.29	Tr 100	199.37	13.20	15.27		15.37	0.003675	2.43	166.25	229.42	0.63
Cuggiani-med2	2275.29	Tr 200	234.68	13.20	15.64		15.69	0.001491	1.79	256.75	252.02	0.41
Cuggiani-med2	2275.29	Tr 500	282.04	13.20	15.45		15.57	0.004015	2.73	209.57	245.79	0.67
Cuggiani-med2	2250.44	Tr 50	164.69	12.60	14.88	14.63	15.10	0.008191	3.46	104.89	182.14	0.87
Cuggiani-med2	2250.44	Tr 100	199.37	12.60	15.10		15.25	0.005493	3.08	150.35	241.79	0.73
Cuggiani-med2	2250.44	Tr 200	234.68	12.60	15.61		15.65	0.001174	1.68	281.69	263.32	0.35
Cuggiani-med2	2250.44	Tr 500	282.04	12.60	15.11	14.99	15.40	0.010187	4.22	154.45	243.01	0.99

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	2224.52	Tr 50	164.69	12.90	14.65	14.63	14.85	0.010891	3.28	98.60	191.71	0.97
Cuggiani-med2	2224.52	Tr 100	199.37	12.90	15.05		15.12	0.003096	2.02	185.70	244.07	0.54
Cuggiani-med2	2224.52	Tr 200	234.68	12.90	15.60		15.62	0.000765	1.24	326.21	266.78	0.28
Cuggiani-med2	2224.52	Tr 500	282.04	12.90	14.95		15.13	0.008153	3.17	162.11	221.67	0.87
Cuggiani-med2	2200.42	Tr 50	164.69	12.00	14.62		14.70	0.002479	2.23	163.75	213.30	0.50
Cuggiani-med2	2200.42	Tr 100	199.37	12.00	15.04		15.07	0.000944	1.56	256.75	227.25	0.32
Cuggiani-med2	2200.42	Tr 200	234.68	12.00	15.59		15.61	0.000366	1.11	385.57	242.72	0.21
Cuggiani-med2	2200.42	Tr 500	282.04	12.00	14.89		15.00	0.002869	2.61	224.53	225.32	0.55
Cuggiani-med2	2176.93	Tr 50	164.69	12.30	14.51		14.62	0.003907	2.51	140.46	209.19	0.64
Cuggiani-med2	2176.93	Tr 100	199.37	12.30	15.01		15.05	0.001025	1.54	253.32	236.34	0.34
Cuggiani-med2	2176.93	Tr 200	234.68	12.30	15.58		15.60	0.000381	1.11	393.63	259.84	0.22
Cuggiani-med2	2176.93	Tr 500	282.04	12.30	14.76		14.91	0.004399	2.94	196.46	227.02	0.69
Cuggiani-med2	2150.4	Tr 50	164.69	12.30	14.49		14.54	0.001757	1.71	189.53	229.64	0.43
Cuggiani-med2	2150.4	Tr 100	199.37	12.30	15.00		15.03	0.000548	1.15	313.50	245.33	0.25
Cuggiani-med2	2150.4	Tr 200	234.68	12.30	15.58		15.59	0.000232	0.88	456.41	253.77	0.17
Cuggiani-med2	2150.4	Tr 500	282.04	12.30	14.73		14.81	0.002340	2.17	246.88	241.62	0.51
Cuggiani-med2	2125.63	Tr 50	164.69	12.15	14.45		14.50	0.001492	1.75	197.02	220.50	0.41
Cuggiani-med2	2125.63	Tr 100	199.37	12.15	14.99		15.01	0.000503	1.21	328.14	256.50	0.25
Cuggiani-med2	2125.63	Tr 200	234.68	12.15	15.57		15.59	0.000208	0.90	479.12	262.39	0.17
Cuggiani-med2	2125.63	Tr 500	282.04	12.15	14.67		14.75	0.002235	2.31	248.15	234.11	0.51
Cuggiani-med2	2100.38	Tr 50	164.69	11.40	14.40		14.46	0.001018	1.70	196.18	186.26	0.36
Cuggiani-med2	2100.38	Tr 100	199.37	11.40	14.97		15.00	0.000429	1.28	311.22	218.59	0.24
Cuggiani-med2	2100.38	Tr 200	234.68	11.40	15.56		15.58	0.000222	1.04	454.90	270.93	0.18
Cuggiani-med2	2100.38	Tr 500	282.04	11.40	14.57		14.70	0.001956	2.47	228.82	194.06	0.50
Cuggiani-med2	2075.54	Tr 50	164.69	11.70	14.37		14.43	0.001368	1.79	176.25	159.42	0.39
Cuggiani-med2	2075.54	Tr 100	199.37	11.70	14.96		14.99	0.000540	1.33	272.95	172.62	0.26
Cuggiani-med2	2075.54	Tr 200	234.68	11.70	15.55		15.57	0.000277	1.08	378.87	183.80	0.19
Cuggiani-med2	2075.54	Tr 500	282.04	11.70	14.51		14.64	0.002850	2.70	197.36	161.94	0.57
Cuggiani-med2	2050.36	Tr 50	164.69	11.40	14.33		14.40	0.001109	1.64	173.13	145.27	0.36
Cuggiani-med2	2050.36	Tr 100	199.37	11.40	14.94		14.98	0.000472	1.27	264.96	158.66	0.25
Cuggiani-med2	2050.36	Tr 200	234.68	11.40	15.54		15.57	0.000262	1.08	366.15	175.58	0.19
Cuggiani-med2	2050.36	Tr 500	282.04	11.40	14.37		14.56	0.002953	2.71	179.22	146.73	0.60
Cuggiani-med2	2023.17	Tr 50	164.69	11.10	14.31		14.37	0.000848	1.62	184.72	151.07	0.33
Cuggiani-med2	2023.17	Tr 100	199.37	11.10	14.93		14.96	0.000388	1.28	287.10	177.49	0.23
Cuggiani-med2	2023.17	Tr 200	234.68	11.10	15.53		15.56	0.000210	1.06	399.42	190.06	0.18
Cuggiani-med2	2023.17	Tr 500	282.04	11.10	14.26		14.48	0.002774	2.90	177.34	149.11	0.60
Cuggiani-med2	2000.34	Tr 50	164.69	10.80	14.30		14.35	0.000597	1.33	215.34	167.70	0.27
Cuggiani-med2	2000.34	Tr 100	199.37	10.80	14.93		14.95	0.000275	1.05	324.56	181.72	0.19
Cuggiani-med2	2000.34	Tr 200	234.68	10.80	15.53		15.55	0.000158	0.90	437.89	191.20	0.15
Cuggiani-med2	2000.34	Tr 500	282.04	10.80	14.25		14.40	0.001953	2.37	206.59	165.79	0.49
Cuggiani-med2	1974.98	Tr 50	164.69	10.80	14.31		14.33	0.000295	1.08	300.34	196.08	0.20
Cuggiani-med2	1974.98	Tr 100	199.37	10.80	14.93		14.94	0.000152	0.88	424.99	206.91	0.15
Cuggiani-med2	1974.98	Tr 200	234.68	10.80	15.54		15.55	0.000094	0.77	554.31	216.05	0.12
Cuggiani-med2	1974.98	Tr 500	282.04	10.80	14.28		14.34	0.000922	1.89	293.76	195.21	0.35
Cuggiani-med2	1950.32	Tr 50	164.69	10.20	14.31		14.33	0.000168	0.81	354.05	206.70	0.15
Cuggiani-med2	1950.32	Tr 100	199.37	10.20	14.93		14.94	0.000098	0.70	485.39	218.04	0.12
Cuggiani-med2	1950.32	Tr 200	234.68	10.20	15.54		15.55	0.000065	0.63	620.62	226.82	0.10
Cuggiani-med2	1950.32	Tr 500	282.04	10.20	14.27		14.32	0.000524	1.42	346.48	205.81	0.26
Cuggiani-med2	1927.13	Tr 50	164.69	10.20	14.31		14.32	0.000125	0.73	399.56	204.85	0.13
Cuggiani-med2	1927.13	Tr 100	199.37	10.20	14.93		14.94	0.000080	0.65	530.94	219.84	0.11
Cuggiani-med2	1927.13	Tr 200	234.68	10.20	15.54		15.54	0.000055	0.60	667.27	229.07	0.09
Cuggiani-med2	1927.13	Tr 500	282.04	10.20	14.27		14.31	0.000388	1.27	392.04	204.65	0.23
Cuggiani-med2	1900.3	Tr 50	164.69	9.90	14.31		14.32	0.000119	0.73	410.26	210.84	0.13
Cuggiani-med2	1900.3	Tr 100	199.37	9.90	14.93		14.93	0.000074	0.64	543.31	218.36	0.10
Cuggiani-med2	1900.3	Tr 200	234.68	9.90	15.53		15.54	0.000052	0.59	678.54	225.99	0.09
Cuggiani-med2	1900.3	Tr 500	282.04	9.90	14.26		14.30	0.000374	1.29	401.10	210.25	0.22
Cuggiani-med2	1875.18	Tr 50	164.69	10.20	14.31		14.31	0.000085	0.60	457.09	207.41	0.11
Cuggiani-med2	1875.18	Tr 100	199.37	10.20	14.93		14.93	0.000058	0.56	588.19	216.16	0.09
Cuggiani-med2	1875.18	Tr 200	234.68	10.20	15.53		15.54	0.000043	0.53	722.44	224.31	0.08
Cuggiani-med2	1875.18	Tr 500	282.04	10.20	14.26		14.29	0.000267	1.06	447.92	207.00	0.19
Cuggiani-med2	1850.28	Tr 50	164.69	9.90	14.31		14.31	0.000042	0.51	559.58	208.03	0.08
Cuggiani-med2	1850.28	Tr 100	199.37	9.90	14.93		14.93	0.000032	0.49	689.66	212.33	0.07
Cuggiani-med2	1850.28	Tr 200	234.68	9.90	15.53		15.54	0.000026	0.48	819.90	216.10	0.07
Cuggiani-med2	1850.28	Tr 500	282.04	9.90	14.26		14.28	0.000130	0.89	550.40	207.85	0.14
Cuggiani-med2	1823.94	Tr 50	164.69	9.30	14.31	11.45	14.31	0.000030	0.45	636.06	231.34	0.07
Cuggiani-med2	1823.94	Tr 100	199.37	9.30	14.93	11.55	14.93	0.000024	0.44	784.38	244.13	0.06
Cuggiani-med2	1823.94	Tr 200	234.68	9.30	15.53	11.63	15.54	0.000019	0.43	935.06	251.36	0.06
Cuggiani-med2	1823.94	Tr 500	282.04	9.30	14.26	11.76	14.28	0.000091	0.79	625.74	229.22	0.12

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	1800.26	Tr 50	164.69	9.00	14.31		14.31	0.000027	0.44	700.60	265.91	0.06
Cuggiani-med2	1800.26	Tr 100	199.37	9.00	14.93		14.93	0.000021	0.42	883.58	324.09	0.06
Cuggiani-med2	1800.26	Tr 200	234.68	9.00	15.53		15.54	0.000018	0.42	1098.30	363.08	0.06
Cuggiani-med2	1800.26	Tr 500	282.04	9.00	14.26		14.27	0.000083	0.76	688.69	264.05	0.11
Cuggiani-med2	1785.69	Tr 50	164.69	9.30	14.31	12.64	14.31	0.000034	0.47	657.51	302.85	0.07
Cuggiani-med2	1785.69	Tr 100	199.37	9.30	14.93	13.05	14.93	0.000026	0.45	863.68	348.71	0.07
Cuggiani-med2	1785.69	Tr 200	234.68	9.30	15.53	13.44	15.54	0.000019	0.42	1081.63	365.14	0.06
Cuggiani-med2	1785.69	Tr 500	282.04	9.30	14.26	13.50	14.27	0.000107	0.82	643.01	299.68	0.13
Cuggiani-med2	1778.16		Bridge									
Cuggiani-med2	1771.01	Tr 50	164.69	9.00	12.62	12.62	14.14	0.007694	5.45	30.19	199.69	1.00
Cuggiani-med2	1771.01	Tr 100	199.37	9.00	13.04	13.04	14.75	0.007308	5.80	34.39	238.56	1.00
Cuggiani-med2	1771.01	Tr 200	234.68	9.00	13.43	13.43	15.34	0.007073	6.13	38.30	259.70	1.00
Cuggiani-med2	1771.01	Tr 500	282.04	9.00	13.50	13.50	13.52	0.000201	1.01	509.43	277.02	0.17
Cuggiani-med2	1750.24	Tr 50	164.69	7.80	10.82	10.82	11.18	0.004938	3.55	92.11	125.92	0.75
Cuggiani-med2	1750.24	Tr 100	199.37	7.80	10.93	10.93	11.32	0.005156	3.75	107.12	134.10	0.78
Cuggiani-med2	1750.24	Tr 200	234.68	7.80	11.05	11.05	11.44	0.005181	3.88	123.13	142.30	0.78
Cuggiani-med2	1750.24	Tr 500	282.04	7.80	11.17	11.17	11.58	0.005416	4.09	140.83	148.45	0.81
Cuggiani-med2	1725.5	Tr 50	164.69	8.10	10.63	10.63	10.99	0.005937	3.57	87.93	116.95	0.82
Cuggiani-med2	1725.5	Tr 100	199.37	8.10	10.73	10.73	11.12	0.006440	3.85	99.96	124.09	0.86
Cuggiani-med2	1725.5	Tr 200	234.68	8.10	10.84	10.84	11.25	0.006482	4.00	114.47	135.18	0.87
Cuggiani-med2	1725.5	Tr 500	282.04	8.10	10.98	10.98	11.40	0.006378	4.14	134.01	146.73	0.87
Cuggiani-med2	1700.22	Tr 50	164.69	7.80	10.44	10.44	10.75	0.005282	3.36	96.06	133.17	0.77
Cuggiani-med2	1700.22	Tr 100	199.37	7.80	10.52	10.52	10.88	0.005799	3.63	107.98	138.09	0.82
Cuggiani-med2	1700.22	Tr 200	234.68	7.80	10.62	10.62	10.99	0.005991	3.80	121.69	145.11	0.84
Cuggiani-med2	1700.22	Tr 500	282.04	7.80	10.73	10.73	11.14	0.006342	4.05	137.91	153.00	0.87
Cuggiani-med2	1676.13	Tr 50	164.69	7.80	10.21	10.21	10.48	0.005767	3.34	103.55	174.09	0.79
Cuggiani-med2	1676.13	Tr 100	199.37	7.80	10.32	10.30	10.59	0.005551	3.41	123.07	178.99	0.79
Cuggiani-med2	1676.13	Tr 200	234.68	7.80	10.46		10.70	0.004821	3.32	147.64	184.97	0.74
Cuggiani-med2	1676.13	Tr 500	282.04	7.80	10.54		10.81	0.005355	3.59	163.13	189.71	0.79
Cuggiani-med2	1650.2	Tr 50	164.69	7.50	10.05	10.05	10.32	0.006115	3.08	100.63	168.78	0.81
Cuggiani-med2	1650.2	Tr 100	199.37	7.50	10.12	10.12	10.42	0.006868	3.36	111.80	174.04	0.87
Cuggiani-med2	1650.2	Tr 200	234.68	7.50	10.16	10.16	10.52	0.008178	3.73	118.63	177.18	0.95
Cuggiani-med2	1650.2	Tr 500	282.04	7.50	10.31	10.31	10.64	0.006961	3.67	150.81	223.92	0.89
Cuggiani-med2	1626.29	Tr 50	164.69	7.80	9.83		10.03	0.005636	3.00	110.07	170.02	0.77
Cuggiani-med2	1626.29	Tr 100	199.37	7.80	9.90		10.13	0.006277	3.27	123.22	183.48	0.82
Cuggiani-med2	1626.29	Tr 200	234.68	7.80	9.99		10.23	0.006423	3.42	138.24	191.11	0.83
Cuggiani-med2	1626.29	Tr 500	282.04	7.80	10.09		10.35	0.006379	3.55	159.23	201.30	0.84
Cuggiani-med2	1600.18	Tr 50	164.69	7.50	9.75		9.89	0.003940	2.56	126.57	172.95	0.65
Cuggiani-med2	1600.18	Tr 100	199.37	7.50	9.80		9.98	0.004636	2.85	136.54	174.32	0.71
Cuggiani-med2	1600.18	Tr 200	234.68	7.50	9.87		10.06	0.005109	3.06	147.68	175.83	0.75
Cuggiani-med2	1600.18	Tr 500	282.04	7.50	9.94		10.18	0.005905	3.39	161.93	205.37	0.81
Cuggiani-med2	1577.83	Tr 50	164.69	7.50	9.67		9.80	0.003370	2.57	146.49	264.58	0.61
Cuggiani-med2	1577.83	Tr 100	199.37	7.50	9.72		9.87	0.004073	2.87	158.11	266.28	0.68
Cuggiani-med2	1577.83	Tr 200	234.68	7.50	9.78		9.95	0.004293	3.01	175.62	268.81	0.70
Cuggiani-med2	1577.83	Tr 500	282.04	7.50	9.87		10.05	0.004364	3.13	200.06	272.32	0.71
Cuggiani-med2	1550.16	Tr 50	164.69	6.90	9.38	9.30	9.66	0.006418	3.37	112.78	237.21	0.83
Cuggiani-med2	1550.16	Tr 100	199.37	6.90	9.49	9.49	9.73	0.005688	3.30	138.18	245.67	0.78
Cuggiani-med2	1550.16	Tr 200	234.68	6.90	9.57	9.54	9.81	0.005562	3.36	158.14	252.12	0.78
Cuggiani-med2	1550.16	Tr 500	282.04	6.90	9.66		9.90	0.005663	3.50	180.97	262.46	0.79
Cuggiani-med2	1523.28	Tr 50	164.69	6.60	9.36		9.50	0.003067	2.50	150.92	251.15	0.59
Cuggiani-med2	1523.28	Tr 100	199.37	6.60	9.42		9.58	0.003418	2.70	167.58	256.25	0.62
Cuggiani-med2	1523.28	Tr 200	234.68	6.60	9.50		9.67	0.003509	2.81	187.57	262.24	0.63
Cuggiani-med2	1523.28	Tr 500	282.04	6.60	9.57		9.76	0.003940	3.05	205.92	267.62	0.68
Cuggiani-med2	1500.14	Tr 50	164.69	6.90	9.19	9.19	9.40	0.004905	3.17	130.04	254.12	0.74
Cuggiani-med2	1500.14	Tr 100	199.37	6.90	9.25		9.48	0.005202	3.34	147.16	258.09	0.77
Cuggiani-med2	1500.14	Tr 200	234.68	6.90	9.33		9.56	0.005322	3.46	166.19	267.60	0.78
Cuggiani-med2	1500.14	Tr 500	282.04	6.90	9.41		9.64	0.005424	3.59	188.52	271.69	0.79
Cuggiani-med2	1474.71	Tr 50	164.69	6.60	9.06	9.06	9.27	0.004502	3.03	134.07	258.44	0.71
Cuggiani-med2	1474.71	Tr 100	199.37	6.60	9.16		9.35	0.004294	3.06	158.93	267.98	0.70
Cuggiani-med2	1474.71	Tr 200	234.68	6.60	9.24		9.43	0.004159	3.10	180.74	269.46	0.69
Cuggiani-med2	1474.71	Tr 500	282.04	6.60	9.30		9.51	0.004659	3.34	197.59	270.59	0.73
Cuggiani-med2	1450.12	Tr 50	164.69	6.15	8.96	8.96	9.15	0.004353	2.86	137.24	266.31	0.69
Cuggiani-med2	1450.12	Tr 100	199.37	6.15	8.99	8.99	9.22	0.005393	3.22	146.24	267.30	0.77
Cuggiani-med2	1450.12	Tr 200	234.68	6.15	9.04	9.04	9.30	0.005833	3.42	160.90	272.10	0.81
Cuggiani-med2	1450.12	Tr 500	282.04	6.15	9.14	9.14	9.38	0.005606	3.47	186.65	276.32	0.80
Cuggiani-med2	1425.77	Tr 50	164.69	6.30	8.70	8.70	8.95	0.006876	3.19	112.74	225.75	0.85
Cuggiani-med2	1425.77	Tr 100	199.37	6.30	8.80	8.80	9.03	0.006411	3.21	136.58	248.38	0.83

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	1425.77	Tr 200	234.68	6.30	8.87	8.87	9.11	0.006247	3.28	155.94	255.59	0.82
Cuggiani-med2	1425.77	Tr 500	282.04	6.30	8.96		9.20	0.006270	3.40	177.80	260.52	0.83
Cuggiani-med2	1400.11	Tr 50	164.69	5.85	8.64		8.78	0.002892	2.46	150.57	246.06	0.58
Cuggiani-med2	1400.11	Tr 100	199.37	5.85	8.72		8.87	0.003044	2.60	171.96	260.16	0.60
Cuggiani-med2	1400.11	Tr 200	234.68	5.85	8.82		8.96	0.002932	2.63	197.18	271.07	0.59
Cuggiani-med2	1400.11	Tr 500	282.04	5.85	8.90		9.06	0.003125	2.79	222.26	297.83	0.61
Cuggiani-med2	1380.23	Tr 50	164.69	5.85	8.52		8.71	0.003598	2.82	138.75	236.57	0.63
Cuggiani-med2	1380.23	Tr 100	199.37	5.85	8.61		8.80	0.003692	2.94	160.16	245.65	0.64
Cuggiani-med2	1380.23	Tr 200	234.68	5.85	8.71		8.89	0.003567	2.98	185.59	262.25	0.64
Cuggiani-med2	1380.23	Tr 500	282.04	5.85	8.79		8.99	0.003867	3.18	206.41	269.71	0.67
Cuggiani-med2	1349.97	Tr 50	164.69	5.40	8.44		8.60	0.002862	2.48	151.59	269.74	0.57
Cuggiani-med2	1349.97	Tr 100	199.37	5.40	8.53		8.69	0.002877	2.56	176.34	275.23	0.58
Cuggiani-med2	1349.97	Tr 200	234.68	5.40	8.65		8.79	0.002570	2.52	208.69	282.24	0.55
Cuggiani-med2	1349.97	Tr 500	282.04	5.40	8.70		8.88	0.003131	2.82	223.92	291.40	0.61
Cuggiani-med2	1324.44	Tr 50	164.69	5.40	8.26	8.26	8.52	0.003896	3.09	131.64	253.05	0.67
Cuggiani-med2	1324.44	Tr 100	199.37	5.40	8.35	8.35	8.60	0.003936	3.19	155.61	268.84	0.68
Cuggiani-med2	1324.44	Tr 200	234.68	5.40	8.46	8.46	8.70	0.003839	3.25	187.59	316.80	0.68
Cuggiani-med2	1324.44	Tr 500	282.04	5.40	8.55	8.55	8.78	0.003862	3.34	215.47	320.56	0.69
Cuggiani-med2	1300.05	Tr 50	164.69	5.40	8.04	8.03	8.35	0.005798	3.10	108.84	228.39	0.79
Cuggiani-med2	1300.05	Tr 100	199.37	5.40	8.22	8.22	8.44	0.004287	2.86	158.30	317.83	0.69
Cuggiani-med2	1300.05	Tr 200	234.68	5.40	8.29	8.29	8.51	0.004218	2.92	182.86	328.62	0.69
Cuggiani-med2	1300.05	Tr 500	282.04	5.40	8.34	8.34	8.60	0.005053	3.25	197.42	334.86	0.76
Cuggiani-med2	1275.17	Tr 50	164.69	5.40	7.97	7.97	8.20	0.004121	3.04	128.49	267.31	0.68
Cuggiani-med2	1275.17	Tr 100	199.37	5.40	8.04	8.04	8.29	0.004575	3.27	147.16	282.24	0.73
Cuggiani-med2	1275.17	Tr 200	234.68	5.40	8.09	8.09	8.37	0.005123	3.52	162.64	294.38	0.77
Cuggiani-med2	1275.17	Tr 500	282.04	5.40	8.22	8.22	8.46	0.004608	3.47	203.24	337.33	0.74
Cuggiani-med2	1250.03	Tr 50	164.69	5.10	7.74	7.72	7.98	0.004533	2.80	124.68	269.28	0.71
Cuggiani-med2	1250.03	Tr 100	199.37	5.10	7.80	7.79	8.09	0.005478	3.15	140.73	303.04	0.78
Cuggiani-med2	1250.03	Tr 200	234.68	5.10	7.92	7.90	8.15	0.004525	2.99	176.56	319.38	0.72
Cuggiani-med2	1250.03	Tr 500	282.04	5.10	8.02		8.24	0.004263	3.02	210.39	334.07	0.70
Cuggiani-med2	1223.87	Tr 50	164.69	5.10	7.66	7.66	7.86	0.003800	2.90	139.29	290.72	0.66
Cuggiani-med2	1223.87	Tr 100	199.37	5.10	7.72	7.72	7.94	0.004299	3.14	156.35	296.27	0.70
Cuggiani-med2	1223.87	Tr 200	234.68	5.10	7.83		8.03	0.003972	3.13	189.69	325.45	0.68
Cuggiani-med2	1223.87	Tr 500	282.04	5.10	7.94		8.12	0.003610	3.09	227.91	339.73	0.66
Cuggiani-med2	1200.01	Tr 50	164.69	4.80	7.63		7.74	0.002323	2.04	171.15	297.84	0.51
Cuggiani-med2	1200.01	Tr 100	199.37	4.80	7.72		7.82	0.002403	2.15	196.14	308.49	0.52
Cuggiani-med2	1200.01	Tr 200	234.68	4.80	7.80		7.93	0.002699	2.35	223.65	357.37	0.56
Cuggiani-med2	1200.01	Tr 500	282.04	4.80	7.91		8.03	0.002545	2.37	262.68	367.02	0.54
Cuggiani-med2	1173.78	Tr 50	164.69	4.50	7.56		7.68	0.002103	2.29	174.51	300.94	0.50
Cuggiani-med2	1173.78	Tr 100	199.37	4.50	7.64		7.76	0.002194	2.40	199.98	314.12	0.51
Cuggiani-med2	1173.78	Tr 200	234.68	4.50	7.75		7.86	0.001988	2.36	236.24	331.98	0.49
Cuggiani-med2	1173.78	Tr 500	282.04	4.50	7.82		7.96	0.002482	2.69	259.35	355.19	0.55
Cuggiani-med2	1149.99	Tr 50	164.69	4.50	7.51		7.62	0.002195	2.10	180.80	340.58	0.50
Cuggiani-med2	1149.99	Tr 100	199.37	4.50	7.59		7.71	0.002219	2.18	209.71	348.55	0.51
Cuggiani-med2	1149.99	Tr 200	234.68	4.50	7.72		7.81	0.001891	2.10	252.75	360.08	0.47
Cuggiani-med2	1149.99	Tr 500	282.04	4.50	7.79		7.90	0.002085	2.26	279.63	367.10	0.50
Cuggiani-med2	1125.76	Tr 50	164.69	4.80	7.39		7.55	0.003357	2.80	151.74	273.39	0.62
Cuggiani-med2	1125.76	Tr 100	199.37	4.80	7.47		7.63	0.003396	2.89	175.40	280.85	0.63
Cuggiani-med2	1125.76	Tr 200	234.68	4.80	7.54		7.73	0.004149	3.26	194.95	339.83	0.70
Cuggiani-med2	1125.76	Tr 500	282.04	4.80	7.61		7.81	0.004439	3.44	218.90	347.14	0.73
Cuggiani-med2	1099.97	Tr 50	164.69	4.50	7.37	7.22	7.46	0.002109	1.98	185.39	322.01	0.49
Cuggiani-med2	1099.97	Tr 100	199.37	4.50	7.45		7.55	0.002179	2.07	211.19	326.59	0.50
Cuggiani-med2	1099.97	Tr 200	234.68	4.50	7.50		7.63	0.002707	2.35	228.51	372.18	0.56
Cuggiani-med2	1099.97	Tr 500	282.04	4.50	7.55		7.69	0.003191	2.60	245.98	373.74	0.61
Cuggiani-med2	1077.82	Tr 50	164.69	4.50	7.17	7.17	7.39	0.003861	3.12	144.43	296.78	0.67
Cuggiani-med2	1077.82	Tr 100	199.37	4.50	7.27	7.27	7.48	0.003742	3.16	177.53	343.32	0.67
Cuggiani-med2	1077.82	Tr 200	234.68	4.50	7.33		7.54	0.003930	3.30	197.54	345.68	0.69
Cuggiani-med2	1077.82	Tr 500	282.04	4.50	7.45		7.62	0.003258	3.11	242.42	350.93	0.63
Cuggiani-med2	1049.95	Tr 50	164.69	4.20	7.12		7.20	0.002020	1.88	187.06	301.92	0.47
Cuggiani-med2	1049.95	Tr 100	199.37	4.20	7.23		7.31	0.001854	1.89	221.15	307.12	0.46
Cuggiani-med2	1049.95	Tr 200	234.68	4.20	7.35		7.42	0.001683	1.88	256.67	313.58	0.44
Cuggiani-med2	1049.95	Tr 500	282.04	4.20	7.45		7.53	0.001732	1.97	288.82	319.31	0.45
Cuggiani-med2	1027.58	Tr 50	164.69	4.50	7.12		7.16	0.001086	1.58	233.44	283.89	0.35
Cuggiani-med2	1027.58	Tr 100	199.37	4.50	7.23		7.27	0.001125	1.66	264.29	293.74	0.36
Cuggiani-med2	1027.58	Tr 200	234.68	4.50	7.34		7.38	0.001115	1.71	297.85	304.13	0.36
Cuggiani-med2	1027.58	Tr 500	282.04	4.50	7.44		7.49	0.001226	1.85	328.35	313.27	0.38
Cuggiani-med2	999.93	Tr 50	164.69	4.50	7.11		7.13	0.000547	1.04	303.25	326.07	0.25
Cuggiani-med2	999.93	Tr 100	199.37	4.50	7.22		7.24	0.000577	1.11	338.14	330.28	0.26

HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-med2	999.93	Tr 200	234.68	4.50	7.33		7.36	0.000578	1.15	375.32	332.20	0.26
Cuggiani-med2	999.93	Tr 500	282.04	4.50	7.43		7.46	0.000644	1.26	407.88	333.86	0.28
Cuggiani-med2	965.92	Tr 50	164.69	4.20	7.10		7.12	0.000330	0.92	376.14	357.01	0.20
Cuggiani-med2	965.92	Tr 100	199.37	4.20	7.21		7.22	0.000380	1.02	414.09	379.79	0.21
Cuggiani-med2	965.92	Tr 200	234.68	4.20	7.32		7.34	0.000389	1.06	457.05	384.62	0.22
Cuggiani-med2	965.92	Tr 500	282.04	4.20	7.42		7.44	0.000442	1.16	494.51	388.78	0.23
Cuggiani-med2	941.41	Tr 50	164.69	4.20	7.05	6.55	7.10	0.000900	1.57	212.85	351.72	0.33
Cuggiani-med2	941.41	Tr 100	199.37	4.20	7.15	6.63	7.20	0.001012	1.71	233.13	354.61	0.35
Cuggiani-med2	941.41	Tr 200	234.68	4.20	7.24	6.69	7.32	0.001282	1.97	254.76	391.02	0.40
Cuggiani-med2	941.41	Tr 500	282.04	4.20	7.39	6.77	7.42	0.000602	1.29	437.77	401.77	0.27
Cuggiani-med2	933.09		Bridge									
Cuggiani-med2	924.77	Tr 50	164.69	4.20	6.79	6.79	7.04	0.003580	3.08	121.00	254.20	0.66
Cuggiani-med2	924.77	Tr 100	199.37	4.20	6.86	6.86	7.14	0.003988	3.32	134.90	256.17	0.70
Cuggiani-med2	924.77	Tr 200	234.68	4.20	6.94	6.94	7.24	0.004294	3.53	149.94	295.44	0.73
Cuggiani-med2	924.77	Tr 500	282.04	4.20	7.03	7.03	7.35	0.004586	3.74	169.31	314.41	0.76
Cuggiani-med2	921.5		Bridge									
Cuggiani-med2	915.41	Tr 50	164.69	3.30	6.00	6.00	6.46	0.004955	3.71	78.08	113.30	0.79
Cuggiani-med2	915.41	Tr 100	199.37	3.30	6.17	6.17	6.64	0.004915	3.87	95.92	133.75	0.79
Cuggiani-med2	915.41	Tr 200	234.68	3.30	6.29	6.29	6.79	0.005145	4.09	110.91	148.63	0.82
Cuggiani-med2	915.41	Tr 500	282.04	3.30	6.59	6.59	6.92	0.003474	3.62	176.82	253.77	0.68
Cuggiani-med2	899.89	Tr 50	164.69	3.30	5.86	6.03	6.03	0.002963	2.38	111.16	131.79	0.58
Cuggiani-med2	899.89	Tr 100	199.37	3.30	5.93	6.14	6.14	0.003569	2.69	120.36	134.63	0.64
Cuggiani-med2	899.89	Tr 200	234.68	3.30	5.96	6.24	6.24	0.004537	3.06	124.59	135.91	0.72
Cuggiani-med2	899.89	Tr 500	282.04	3.30	6.01	5.92	6.37	0.005636	3.48	132.35	144.48	0.81
Cuggiani-med2	883.33	Tr 50	164.69	3.00	5.64	5.64	5.95	0.006183	3.38	92.53	176.89	0.81
Cuggiani-med2	883.33	Tr 100	199.37	3.00	5.79	5.79	6.06	0.005465	3.35	121.71	218.86	0.77
Cuggiani-med2	883.33	Tr 200	234.68	3.00	5.86	5.86	6.15	0.005759	3.53	137.70	222.76	0.80
Cuggiani-med2	883.33	Tr 500	282.04	3.00	5.95	5.95	6.26	0.006140	3.74	156.72	227.33	0.83
Cuggiani-med2	867.13	Tr 50	164.69	3.00	5.68	5.81	5.81	0.002841	2.36	145.80	209.47	0.55
Cuggiani-med2	867.13	Tr 100	199.37	3.00	5.76	5.90	5.90	0.003065	2.53	162.79	210.24	0.57
Cuggiani-med2	867.13	Tr 200	234.68	3.00	5.85	5.99	6.03	0.003174	2.64	180.29	211.04	0.59
Cuggiani-med2	867.13	Tr 500	282.04	3.00	5.95	6.10	6.10	0.003337	2.79	201.08	211.98	0.61
Cuggiani-med2	849.86	Tr 50	164.69	2.70	5.64	5.76	5.76	0.002597	2.31	152.14	215.87	0.54
Cuggiani-med2	849.86	Tr 100	199.37	2.70	5.72	5.85	5.85	0.002872	2.50	168.38	217.19	0.57
Cuggiani-med2	849.86	Tr 200	234.68	2.70	5.80	5.94	5.94	0.002999	2.62	185.96	218.29	0.58
Cuggiani-med2	849.86	Tr 500	282.04	2.70	5.89	6.04	6.04	0.003230	2.80	205.77	219.51	0.61
Cuggiani-med2	828.07	Tr 50	164.69	2.70	5.54	5.69	5.69	0.003464	2.70	143.37	230.32	0.61
Cuggiani-med2	828.07	Tr 100	199.37	2.70	5.62	5.78	5.78	0.003611	2.81	162.20	231.45	0.63
Cuggiani-med2	828.07	Tr 200	234.68	2.70	5.71	5.86	5.86	0.003692	2.90	181.35	234.88	0.63
Cuggiani-med2	828.07	Tr 500	282.04	2.70	5.80	5.97	5.97	0.003774	3.02	203.73	235.51	0.65
Cuggiani-med2	799.84	Tr 50	164.69	3.30	5.38	5.58	5.58	0.004278	2.97	131.10	231.81	0.70
Cuggiani-med2	799.84	Tr 100	199.37	3.30	5.47	5.66	5.66	0.004226	3.04	151.92	233.97	0.70
Cuggiani-med2	799.84	Tr 200	234.68	3.30	5.53	5.74	5.74	0.004619	3.24	165.46	235.05	0.74
Cuggiani-med2	799.84	Tr 500	282.04	3.30	5.67	5.85	5.85	0.004038	3.17	197.28	237.57	0.70
Cuggiani-med2	774.78	Tr 50	164.69	2.40	5.23	5.23	5.47	0.003935	3.00	129.70	236.05	0.67
Cuggiani-med2	774.78	Tr 100	199.37	2.40	5.31	5.30	5.55	0.004202	3.17	147.18	237.68	0.70
Cuggiani-med2	774.78	Tr 200	234.68	2.40	5.43	5.63	5.63	0.003573	3.04	176.96	239.97	0.65
Cuggiani-med2	774.78	Tr 500	282.04	2.40	5.59	5.76	5.76	0.003020	2.92	213.96	241.19	0.60
Cuggiani-med2	749.82	Tr 50	164.69	2.40	5.17	5.33	5.33	0.002667	2.60	149.77	235.12	0.56
Cuggiani-med2	749.82	Tr 100	199.37	2.40	5.29	5.44	5.44	0.002533	2.63	177.66	241.38	0.55
Cuggiani-med2	749.82	Tr 200	234.68	2.40	5.40	5.54	5.54	0.002416	2.65	204.66	247.28	0.55
Cuggiani-med2	749.82	Tr 500	282.04	2.40	5.55	5.68	5.68	0.002165	2.61	241.70	249.11	0.52
Cuggiani-med2	729.03	Tr 50	164.69	2.70	5.11	5.28	5.28	0.003097	2.61	143.29	238.33	0.60
Cuggiani-med2	729.03	Tr 100	199.37	2.70	5.24	5.39	5.39	0.002813	2.60	173.08	244.88	0.58
Cuggiani-med2	729.03	Tr 200	234.68	2.70	5.35	5.49	5.49	0.002603	2.59	201.59	250.98	0.56
Cuggiani-med2	729.03	Tr 500	282.04	2.70	5.51	5.63	5.63	0.002294	2.55	241.11	258.07	0.54
Cuggiani-med2	699.8	Tr 50	164.69	2.70	5.08	5.19	5.19	0.002006	2.15	159.37	212.54	0.49
Cuggiani-med2	699.8	Tr 100	199.37	2.70	5.19	5.30	5.30	0.002017	2.24	183.14	215.66	0.50
Cuggiani-med2	699.8	Tr 200	234.68	2.70	5.30	5.42	5.42	0.001974	2.29	207.55	220.93	0.50
Cuggiani-med2	699.8	Tr 500	282.04	2.70	5.45	5.57	5.57	0.001851	2.32	242.34	237.74	0.49
Cuggiani-valle	674.31	Tr 50	181.26	2.10	4.89	5.06	5.06	0.002784	2.59	146.90	198.55	0.58
Cuggiani-valle	674.31	Tr 100	219.43	2.10	5.00	5.18	5.18	0.002771	2.67	169.38	199.60	0.58
Cuggiani-valle	674.31	Tr 200	258.29	2.10	5.13	5.30	5.30	0.002608	2.69	194.22	200.38	0.57
Cuggiani-valle	674.31	Tr 500	310.42	2.10	5.30	5.46	5.46	0.002353	2.68	228.31	201.47	0.55
Cuggiani-valle	649.78	Tr 50	181.26	1.65	4.88	4.99	4.99	0.001646	2.11	174.52	193.50	0.45
Cuggiani-valle	649.78	Tr 100	219.43	1.65	4.99	5.11	5.11	0.001774	2.25	194.71	194.47	0.47
Cuggiani-valle	649.78	Tr 200	258.29	1.65	5.10	5.23	5.23	0.001777	2.33	217.82	195.08	0.48

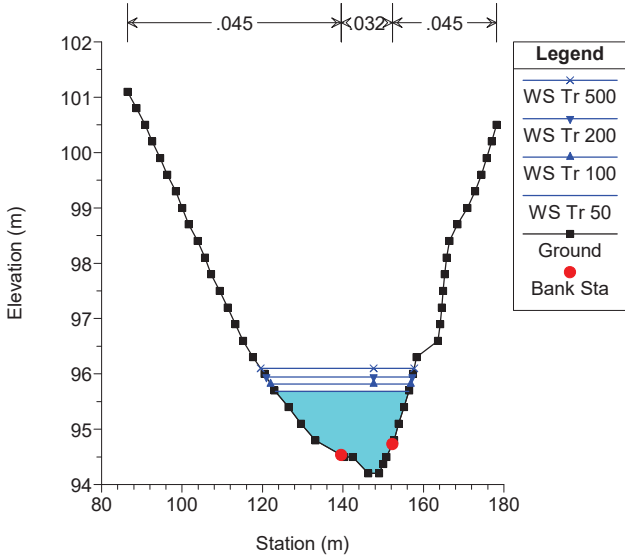
HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-valle	649.78	Tr 500	310.42	1.65	5.27		5.40	0.001711	2.39	249.92	195.99	0.47
Cuggiani-valle	623.41	Tr 50	181.26	1.95	4.89		4.94	0.001024	1.65	214.48	189.56	0.35
Cuggiani-valle	623.41	Tr 100	219.43	1.95	4.99		5.05	0.001149	1.80	233.78	190.21	0.38
Cuggiani-valle	623.41	Tr 200	258.29	1.95	5.11		5.18	0.001201	1.90	255.79	190.78	0.39
Cuggiani-valle	623.41	Tr 500	310.42	1.95	5.27		5.34	0.001216	1.99	286.55	191.78	0.39
Cuggiani-valle	599.76	Tr 50	181.26	1.95	4.84		4.91	0.001170	1.86	202.50	194.14	0.38
Cuggiani-valle	599.76	Tr 100	219.43	1.95	4.94		5.02	0.001319	2.03	221.28	194.77	0.41
Cuggiani-valle	599.76	Tr 200	258.29	1.95	5.06		5.14	0.001369	2.13	243.68	195.62	0.42
Cuggiani-valle	599.76	Tr 500	310.42	1.95	5.22		5.31	0.001363	2.21	275.60	196.87	0.42
Cuggiani-valle	584.15	Tr 50	181.26	1.95	4.81		4.89	0.001334	2.03	192.10	195.86	0.41
Cuggiani-valle	584.15	Tr 100	219.43	1.95	4.90		5.00	0.001514	2.22	210.19	196.74	0.44
Cuggiani-valle	584.15	Tr 200	258.29	1.95	5.02		5.12	0.001559	2.31	232.83	197.70	0.45
Cuggiani-valle	584.15	Tr 500	310.42	1.95	5.18		5.29	0.001526	2.38	265.59	199.14	0.45
Cuggiani-valle	567.08	Tr 50	181.26	1.95	4.69	4.56	4.85	0.003293	2.81	137.97	204.50	0.62
Cuggiani-valle	567.08	Tr 100	219.43	1.95	4.76	4.64	4.95	0.003822	3.09	149.43	204.92	0.67
Cuggiani-valle	567.08	Tr 200	258.29	1.95	4.88	4.70	5.07	0.003576	3.11	170.50	205.73	0.66
Cuggiani-valle	567.08	Tr 500	310.42	1.95	5.07	4.79	5.25	0.003133	3.06	201.04	207.08	0.62
Cuggiani-valle	558.8		Bridge									
Cuggiani-valle	549.74	Tr 50	181.26	2.10	4.47	4.47	4.75	0.003993	3.19	119.70	204.56	0.70
Cuggiani-valle	549.74	Tr 100	219.43	2.10	4.55	4.55	4.86	0.004497	3.46	132.21	205.70	0.75
Cuggiani-valle	549.74	Tr 200	258.29	2.10	4.70	4.63	4.97	0.003895	3.37	156.74	207.59	0.71
Cuggiani-valle	549.74	Tr 500	310.42	2.10	4.94	4.72	5.16	0.002934	3.12	196.33	210.10	0.62
Cuggiani-valle	536.69	Tr 50	181.26	1.80	4.47		4.53	0.000925	1.54	223.21	226.69	0.34
Cuggiani-valle	536.69	Tr 100	219.43	1.80	4.66		4.72	0.000829	1.55	266.49	228.10	0.32
Cuggiani-valle	536.69	Tr 200	258.29	1.80	4.83		4.88	0.000780	1.57	304.93	229.52	0.32
Cuggiani-valle	536.69	Tr 500	310.42	1.80	5.04		5.09	0.000737	1.61	352.56	231.53	0.31
Cuggiani-valle	524.15	Tr 50	181.26	1.80	4.48		4.51	0.000545	1.20	271.18	244.96	0.26
Cuggiani-valle	524.15	Tr 100	219.43	1.80	4.67		4.70	0.000513	1.23	317.67	246.49	0.26
Cuggiani-valle	524.15	Tr 200	258.29	1.80	4.84		4.87	0.000499	1.27	359.03	247.21	0.26
Cuggiani-valle	524.15	Tr 500	310.42	1.80	5.04		5.08	0.000485	1.32	410.14	248.23	0.26
Cuggiani-valle	512.78	Tr 50	181.26	1.65	4.45		4.50	0.000997	1.59	219.15	225.37	0.35
Cuggiani-valle	512.78	Tr 100	219.43	1.65	4.64		4.69	0.000901	1.60	263.12	230.77	0.33
Cuggiani-valle	512.78	Tr 200	258.29	1.65	4.81		4.86	0.000833	1.61	302.53	232.85	0.33
Cuggiani-valle	512.78	Tr 500	310.42	1.65	5.02		5.07	0.000768	1.63	351.18	234.31	0.32
Cuggiani-valle	499.72	Tr 50	181.26	2.10	4.42		4.49	0.001111	1.64	197.19	204.22	0.37
Cuggiani-valle	499.72	Tr 100	219.43	2.10	4.61		4.68	0.001010	1.66	237.24	207.12	0.36
Cuggiani-valle	499.72	Tr 200	258.29	2.10	4.78		4.85	0.000966	1.71	272.78	211.08	0.36
Cuggiani-valle	499.72	Tr 500	310.42	2.10	4.99		5.06	0.000904	1.75	317.13	213.40	0.35
Cuggiani-valle	487.59	Tr 50	181.26	1.95	4.40		4.47	0.001223	1.77	189.16	183.89	0.39
Cuggiani-valle	487.59	Tr 100	219.43	1.95	4.60		4.67	0.001125	1.80	225.51	188.10	0.38
Cuggiani-valle	487.59	Tr 200	258.29	1.95	4.77		4.84	0.001069	1.84	257.59	189.45	0.37
Cuggiani-valle	487.59	Tr 500	310.42	1.95	4.97		5.05	0.001019	1.89	297.18	191.31	0.37
Cuggiani-valle	474.47	Tr 50	181.26	2.10	4.30		4.44	0.002782	2.60	145.16	169.60	0.59
Cuggiani-valle	474.47	Tr 100	219.43	2.10	4.53		4.64	0.002078	2.41	183.80	172.65	0.52
Cuggiani-valle	474.47	Tr 200	258.29	2.10	4.70		4.81	0.001822	2.38	215.03	176.00	0.49
Cuggiani-valle	474.47	Tr 500	310.42	2.10	4.92		5.03	0.001614	2.37	253.16	178.70	0.47
Cuggiani-valle	462.55	Tr 50	181.26	1.80	4.30		4.40	0.001624	2.07	163.63	154.09	0.45
Cuggiani-valle	462.55	Tr 100	219.43	1.80	4.52		4.61	0.001428	2.06	197.33	157.61	0.43
Cuggiani-valle	462.55	Tr 200	258.29	1.80	4.70		4.79	0.001354	2.11	225.23	160.04	0.42
Cuggiani-valle	462.55	Tr 500	310.42	1.80	4.91		5.01	0.001290	2.17	259.43	162.77	0.42
Cuggiani-valle	449.54	Tr 50	181.26	1.65	4.29		4.38	0.001566	1.88	159.46	135.11	0.43
Cuggiani-valle	449.54	Tr 100	219.43	1.65	4.50		4.60	0.001402	1.91	188.68	137.25	0.42
Cuggiani-valle	449.54	Tr 200	258.29	1.65	4.67		4.77	0.001366	1.98	212.37	138.91	0.42
Cuggiani-valle	449.54	Tr 500	310.42	1.65	4.88		4.99	0.001355	2.09	241.35	141.82	0.42
Cuggiani-valle	436.22	Tr 50	181.26	1.80	4.28		4.35	0.001238	1.63	168.51	118.78	0.38
Cuggiani-valle	436.22	Tr 100	219.43	1.80	4.49		4.57	0.001205	1.73	194.04	123.59	0.38
Cuggiani-valle	436.22	Tr 200	258.29	1.80	4.66		4.75	0.001217	1.83	215.12	125.61	0.39
Cuggiani-valle	436.22	Tr 500	310.42	1.80	4.87		4.97	0.001241	1.96	241.02	128.00	0.40
Cuggiani-valle	413.57	Tr 50	181.26	1.65	4.21		4.32	0.001568	2.02	142.17	96.73	0.44
Cuggiani-valle	413.57	Tr 100	219.43	1.65	4.42		4.54	0.001530	2.12	162.48	98.32	0.44
Cuggiani-valle	413.57	Tr 200	258.29	1.65	4.58		4.72	0.001596	2.27	178.40	99.61	0.46
Cuggiani-valle	413.57	Tr 500	310.42	1.65	4.77		4.93	0.001693	2.45	197.73	101.53	0.48
Cuggiani-valle	399.71	Tr 50	181.26	1.95	4.16		4.29	0.002175	2.18	127.27	93.90	0.51
Cuggiani-valle	399.71	Tr 100	219.43	1.95	4.37		4.51	0.002065	2.28	147.18	96.36	0.50
Cuggiani-valle	399.71	Tr 200	258.29	1.95	4.53		4.69	0.002125	2.43	162.55	98.26	0.52
Cuggiani-valle	399.71	Tr 500	310.42	1.95	4.72		4.90	0.002215	2.62	181.33	100.36	0.54
Cuggiani-valle	386.81	Tr 50	181.26	2.25	4.14		4.26	0.002144	1.87	123.47	94.24	0.49

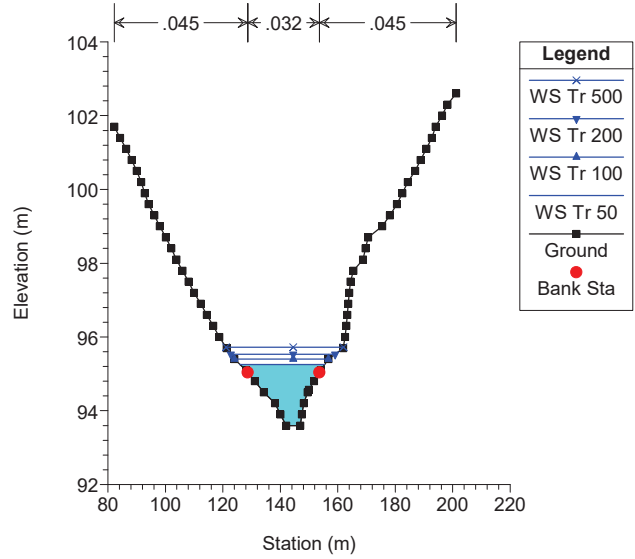
HEC-RAS Plan: Default Scenario (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Cuggiani-valle	386.81	Tr 100	219.43	2.25	4.35		4.49	0.001989	1.96	144.12	101.71	0.48
Cuggiani-valle	386.81	Tr 200	258.29	2.25	4.50		4.66	0.002029	2.10	160.29	104.19	0.50
Cuggiani-valle	386.81	Tr 500	310.42	2.25	4.69		4.87	0.002070	2.27	180.13	106.22	0.51
Cuggiani-valle	369.27	Tr 50	181.26	1.35	4.14		4.22	0.001265	1.77	161.24	115.32	0.39
Cuggiani-valle	369.27	Tr 100	219.43	1.35	4.35		4.45	0.001214	1.85	186.41	127.38	0.39
Cuggiani-valle	369.27	Tr 200	258.29	1.35	4.50		4.62	0.001417	2.09	206.97	147.85	0.42
Cuggiani-valle	369.27	Tr 500	310.42	1.35	4.70		4.83	0.001409	2.19	236.61	150.62	0.43
Cuggiani-valle	349.46	Tr 50	181.26	1.05	4.03	3.52	4.18	0.002849	2.19	118.36	98.84	0.55
Cuggiani-valle	349.46	Tr 100	219.43	1.05	4.25	3.59	4.40	0.002772	2.28	143.21	130.93	0.55
Cuggiani-valle	349.46	Tr 200	258.29	1.05	4.41	3.77	4.57	0.002703	2.34	164.47	134.86	0.55
Cuggiani-valle	349.46	Tr 500	310.42	1.05	4.62	3.91	4.79	0.002497	2.36	194.22	138.95	0.53
Cuggiani-valle	317.59	Tr 50	181.26	0.90	3.92	3.12	4.10	0.002053	2.44	123.56	100.04	0.51
Cuggiani-valle	317.59	Tr 100	219.43	0.90	4.15	3.26	4.33	0.001908	2.51	146.57	104.04	0.50
Cuggiani-valle	317.59	Tr 200	258.29	0.90	4.29	3.40	4.49	0.002039	2.68	161.20	105.92	0.52
Cuggiani-valle	317.59	Tr 500	310.42	0.90	4.48	3.64	4.71	0.002097	2.85	182.04	108.09	0.54
Cuggiani-valle	299.46	Tr 50	181.26	1.05	3.88	3.19	4.06	0.002004	2.46	124.89	99.60	0.51
Cuggiani-valle	299.46	Tr 100	219.43	1.05	4.11	3.38	4.29	0.001821	2.50	148.27	101.82	0.49
Cuggiani-valle	299.46	Tr 200	258.29	1.05	4.25	3.52	4.45	0.001956	2.68	162.23	103.17	0.52
Cuggiani-valle	299.46	Tr 500	310.42	1.05	4.44	3.58	4.67	0.002024	2.85	182.36	105.03	0.53
Cuggiani-valle	288.87	Tr 50	181.26	1.05	3.79	3.24	4.03	0.002782	2.79	109.93	96.57	0.60
Cuggiani-valle	288.87	Tr 100	219.43	1.05	4.05	3.43	4.27	0.002284	2.72	135.26	98.28	0.55
Cuggiani-valle	288.87	Tr 200	258.29	1.05	4.18	3.54	4.43	0.002438	2.91	148.18	99.13	0.57
Cuggiani-valle	288.87	Tr 500	310.42	1.05	4.43	3.74	4.64	0.001971	2.78	201.84	144.08	0.52
Cuggiani-valle	233.7	Tr 50	181.26	1.10	3.77	2.92	3.89	0.001435	2.07	141.62	93.32	0.43
Cuggiani-valle	233.7	Tr 100	219.43	1.10	4.02	3.02	4.14	0.001342	2.14	165.49	96.87	0.43
Cuggiani-valle	233.7	Tr 200	258.29	1.10	4.14	3.02	4.29	0.001527	2.36	177.46	99.09	0.46
Cuggiani-valle	233.7	Tr 500	310.42	1.10	4.36	3.45	4.53	0.001626	2.56	199.73	111.57	0.48
Cuggiani-valle	215.52	Tr 50	181.26	0.90	3.71	2.85	3.86	0.001657	2.35	130.42	84.92	0.47
Cuggiani-valle	215.52	Tr 100	219.43	0.90	3.96	3.17	4.11	0.001567	2.43	152.27	88.65	0.47
Cuggiani-valle	215.52	Tr 200	258.29	0.90	4.07	3.30	4.26	0.001817	2.69	162.07	90.14	0.51
Cuggiani-valle	215.52	Tr 500	310.42	0.90	4.29	3.45	4.49	0.001898	2.88	181.64	93.11	0.52
Cuggiani-valle	199.42	Tr 50	181.26	1.00	3.52	3.10	3.80	0.003450	2.92	94.46	74.39	0.66
Cuggiani-valle	199.42	Tr 100	219.43	1.00	3.80	3.36	4.07	0.002903	2.92	115.49	78.66	0.61
Cuggiani-valle	199.42	Tr 200	258.29	1.00	3.85	3.50	4.20	0.003662	3.32	119.48	79.45	0.69
Cuggiani-valle	199.42	Tr 500	310.42	1.00	4.04	3.66	4.43	0.003771	3.55	135.00	82.39	0.71
Cuggiani-valle	183.39	Tr 50	181.26	0.90	3.18	3.18	3.70	0.007957	4.07	70.60	65.82	0.97
Cuggiani-valle	183.39	Tr 100	219.43	0.90	3.69	3.35	4.01	0.003716	3.29	106.11	72.38	0.69
Cuggiani-valle	183.39	Tr 200	258.29	0.90	3.48	3.48	4.09	0.007913	4.50	91.31	70.16	0.99
Cuggiani-valle	183.39	Tr 500	310.42	0.90	3.66	3.66	4.33	0.007952	4.76	103.67	72.03	1.01
Cuggiani-valle	168.83	Tr 50	181.26	1.10	2.80	2.80	3.50	0.015823	4.70	53.87	56.46	1.30
Cuggiani-valle	168.83	Tr 100	219.43	1.10	2.80	2.80	3.83	0.023189	5.69	53.87	56.46	1.57
Cuggiani-valle	168.83	Tr 200	258.29	1.10	3.35	3.35	3.85	0.008469	4.34	100.68	93.23	1.01
Cuggiani-valle	168.83	Tr 500	310.42	1.10	3.49	3.49	4.04	0.008657	4.60	113.88	96.14	1.03
Cuggiani-valle	149.4	Tr 50	181.26	1.05	3.00	2.68	3.23	0.005029	2.85	96.64	94.11	0.75
Cuggiani-valle	149.4	Tr 100	219.43	1.05	3.11	2.80	3.38	0.005571	3.13	106.66	98.00	0.79
Cuggiani-valle	149.4	Tr 200	258.29	1.05	3.20	2.93	3.52	0.006086	3.41	116.37	102.55	0.84
Cuggiani-valle	149.4	Tr 500	310.42	1.05	3.32	3.10	3.70	0.006679	3.73	128.20	104.90	0.89
Cuggiani-valle	130.62	Tr 50	181.26	1.05	2.91	2.67	3.12	0.005428	2.72	99.88	108.17	0.76
Cuggiani-valle	130.62	Tr 100	219.43	1.05	3.01	2.80	3.26	0.005847	2.97	110.85	110.38	0.80
Cuggiani-valle	130.62	Tr 200	258.29	1.05	3.11	2.90	3.40	0.006149	3.18	121.67	112.47	0.83
Cuggiani-valle	130.62	Tr 500	310.42	1.05	3.22	3.03	3.56	0.006666	3.47	134.35	118.94	0.87
Cuggiani-valle	118.93	Tr 50	181.26	0.90	2.66	2.66	3.02	0.009567	3.33	82.97	120.70	0.99
Cuggiani-valle	118.93	Tr 100	219.43	0.90	2.78	2.78	3.15	0.009263	3.49	97.06	125.98	0.99
Cuggiani-valle	118.93	Tr 200	258.29	0.90	2.87	2.87	3.28	0.009481	3.70	108.64	129.84	1.01
Cuggiani-valle	118.93	Tr 500	310.42	0.90	2.99	2.99	3.44	0.009498	3.91	124.61	135.62	1.03
Cuggiani-valle	91.22	Tr 50	181.26	0.90	2.47	2.37	2.71	0.005420	2.90	106.40	140.60	0.78
Cuggiani-valle	91.22	Tr 100	219.43	0.90	2.59	2.47	2.84	0.005334	3.03	123.34	147.28	0.78
Cuggiani-valle	91.22	Tr 200	258.29	0.90	2.71	2.56	2.97	0.005280	3.17	141.41	154.53	0.79
Cuggiani-valle	91.22	Tr 500	310.42	0.90	2.85	2.70	3.13	0.005195	3.32	164.23	166.23	0.79
Cuggiani-valle	59.97	Tr 50	181.26	0.70	2.16	2.16	2.49	0.006817	2.90	88.50	136.34	0.85
Cuggiani-valle	59.97	Tr 100	219.43	0.70	2.26	2.26	2.63	0.006839	3.08	103.20	142.08	0.86
Cuggiani-valle	59.97	Tr 200	258.29	0.70	2.35	2.35	2.75	0.007272	3.30	114.84	147.46	0.90
Cuggiani-valle	59.97	Tr 500	310.42	0.70	2.47	2.47	2.91	0.007315	3.50	133.81	163.11	0.91
Cuggiani-valle	7.57	Tr 50	181.26	0.12	2.00	0.90	2.03	0.000504	1.04	273.94	231.31	0.25
Cuggiani-valle	7.57	Tr 100	219.43	0.12	2.00	1.00	2.04	0.000739	1.26	273.94	231.31	0.30
Cuggiani-valle	7.57	Tr 200	258.29	0.12	2.00	1.08	2.06	0.001023	1.48	273.94	231.31	0.35
Cuggiani-valle	7.57	Tr 500	310.42	0.12	2.00	1.16	2.08	0.001478	1.78	273.94	231.31	0.42

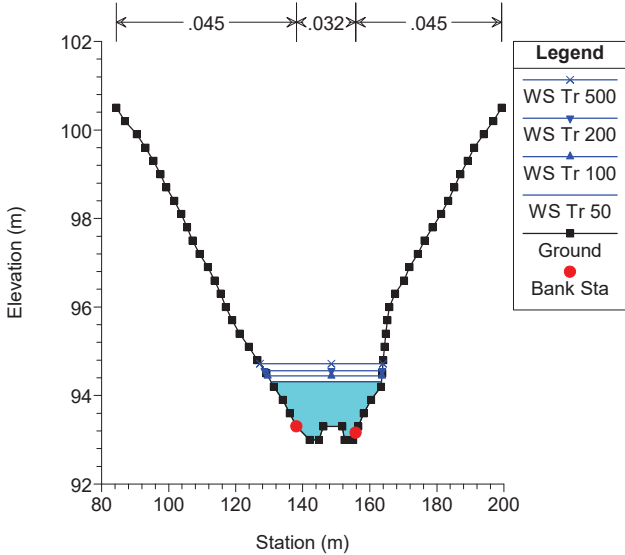
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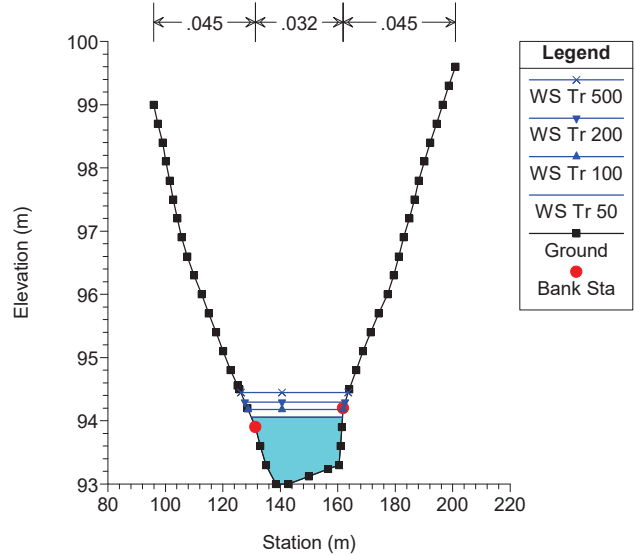
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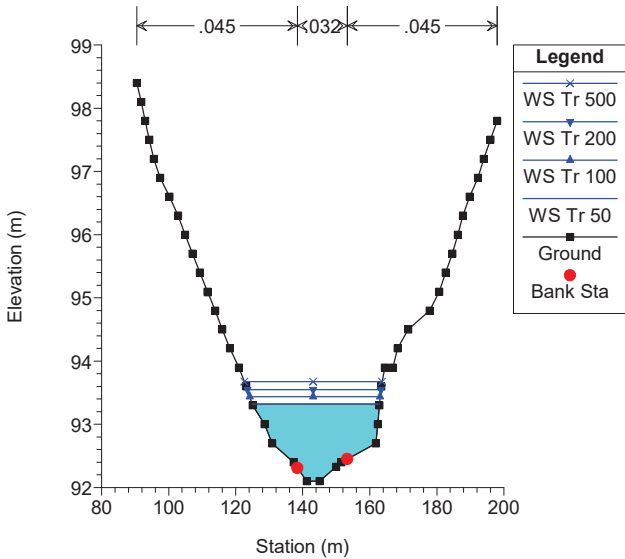
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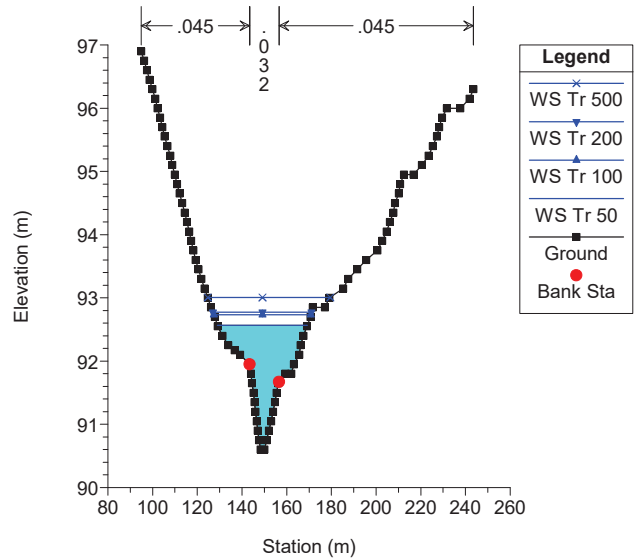
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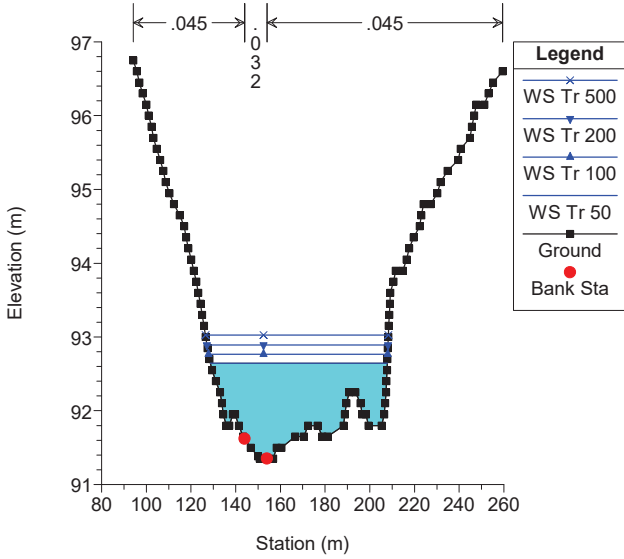
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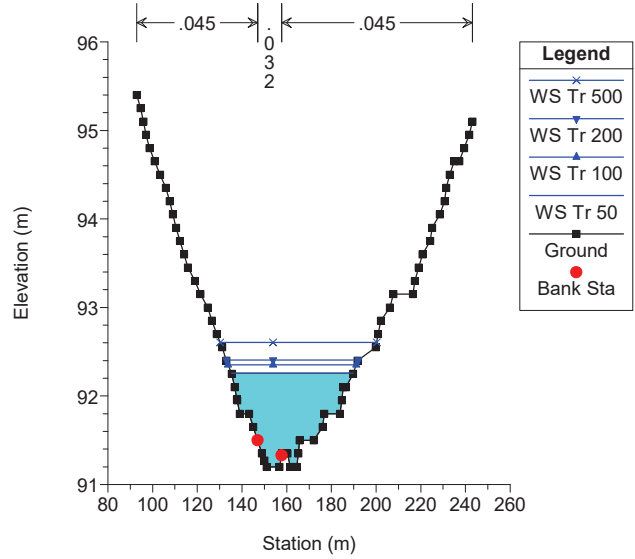
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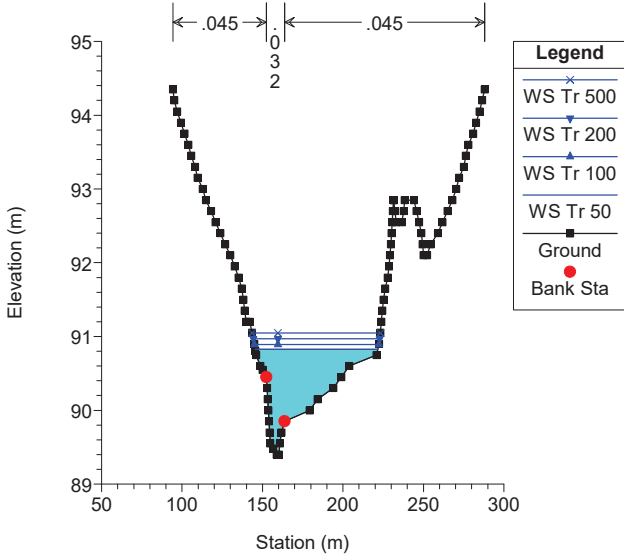
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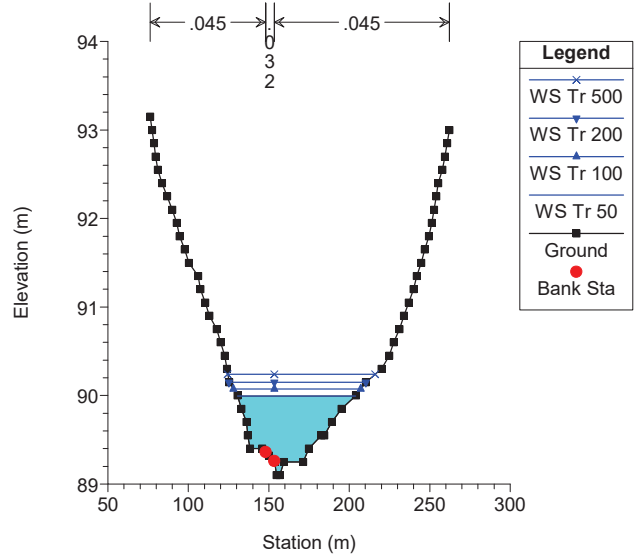
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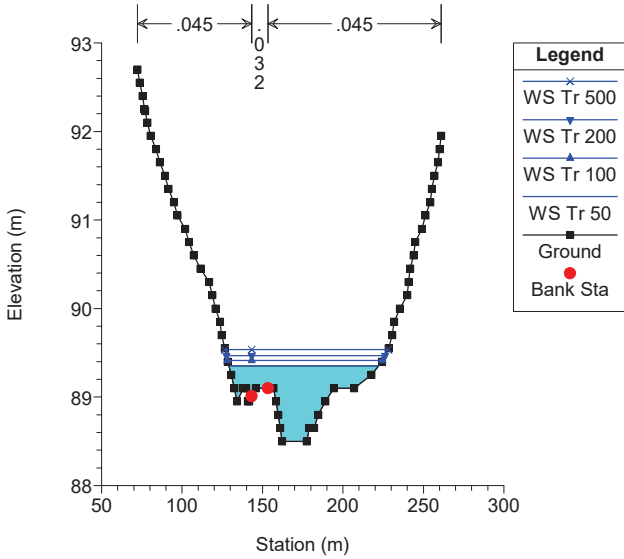
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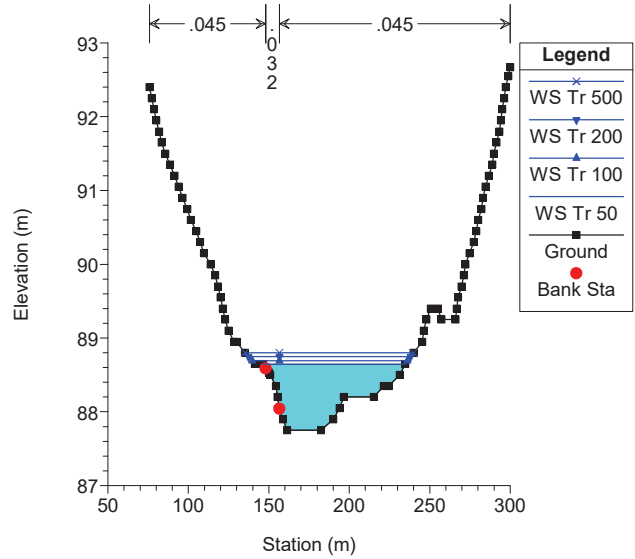
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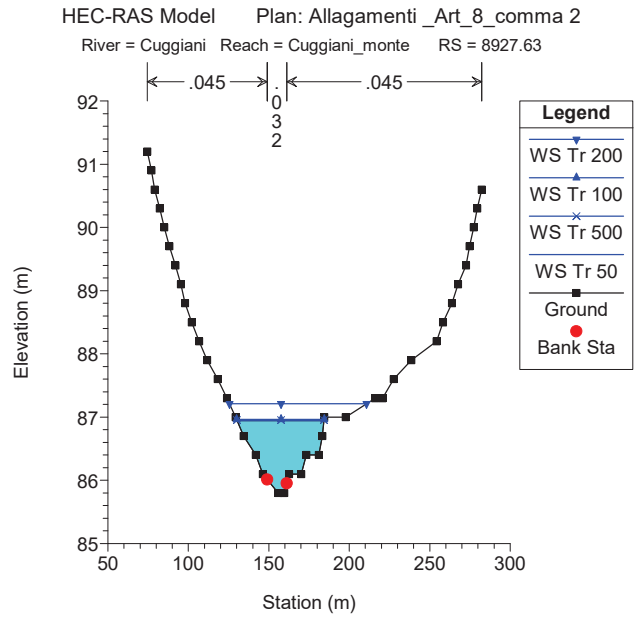
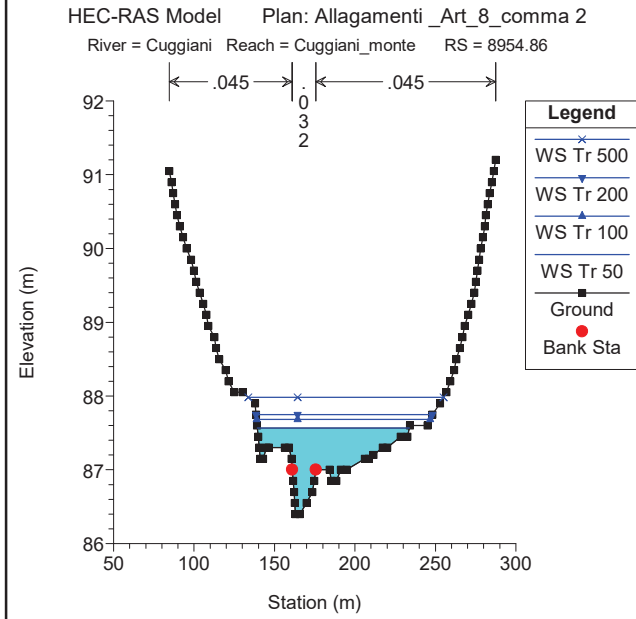
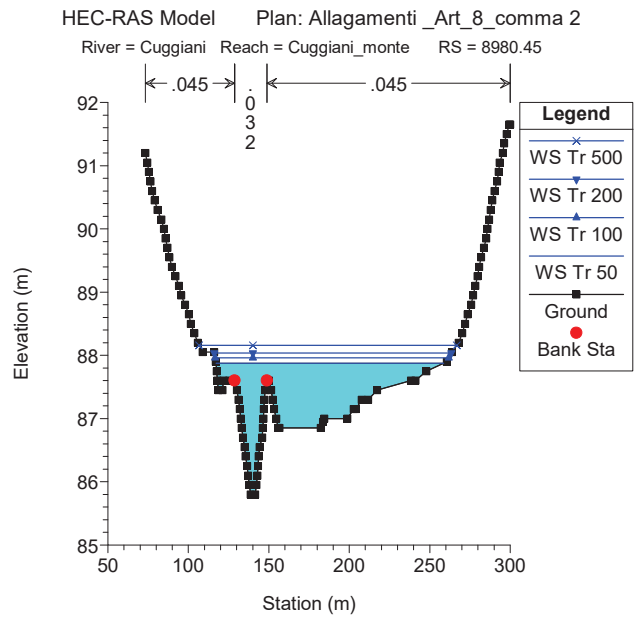
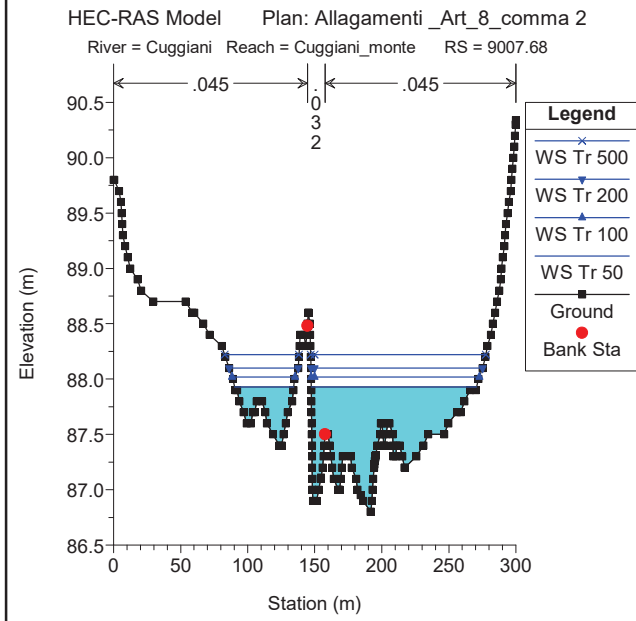
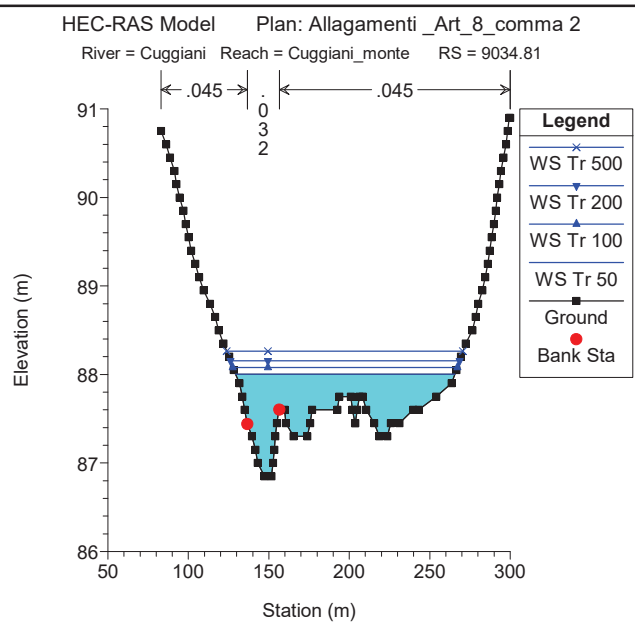
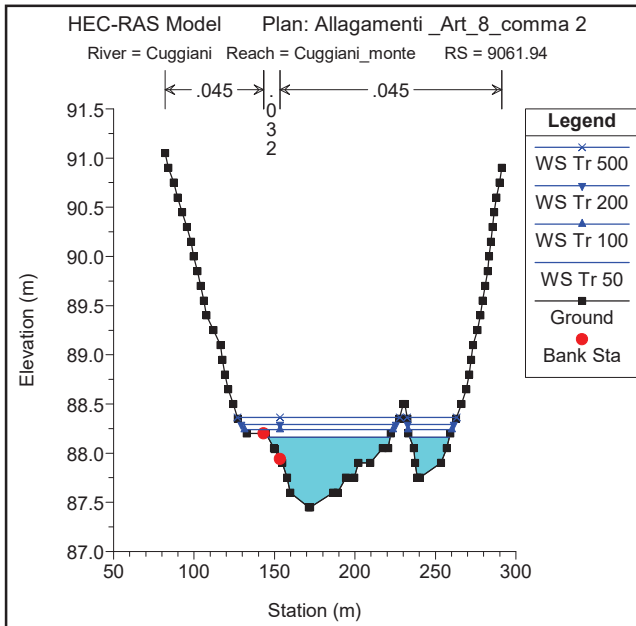


HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani_monte RS = 9111.96

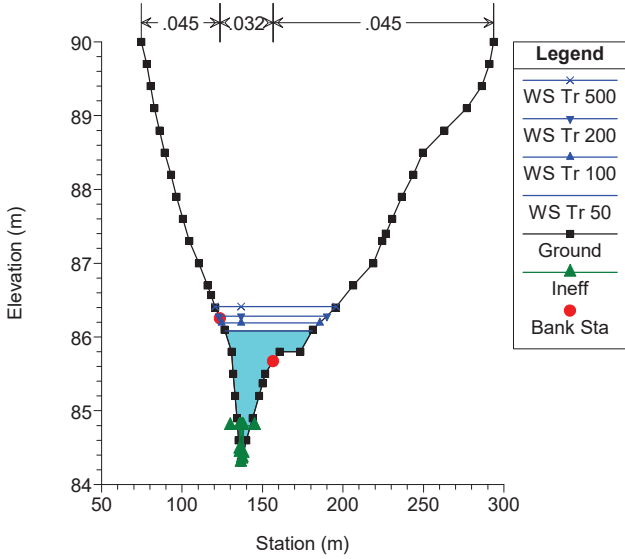


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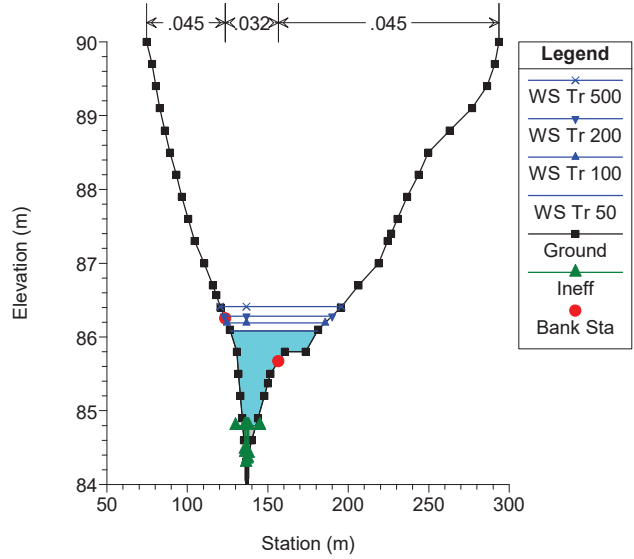




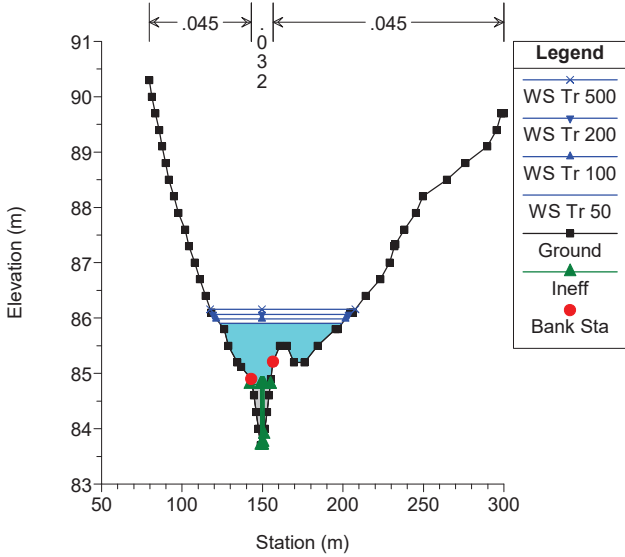
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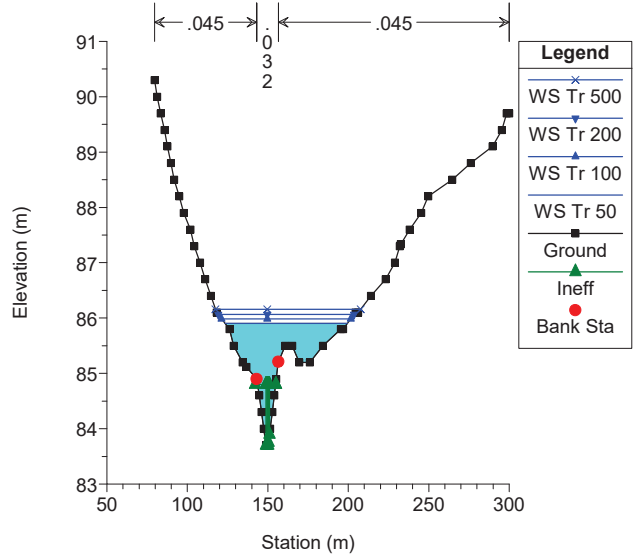
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani_monte RS = 8867.8 Culv



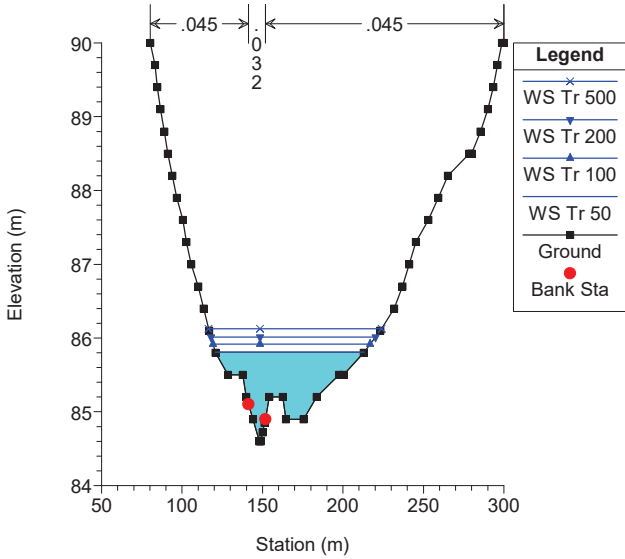
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani_monte RS = 8867.8 Culv



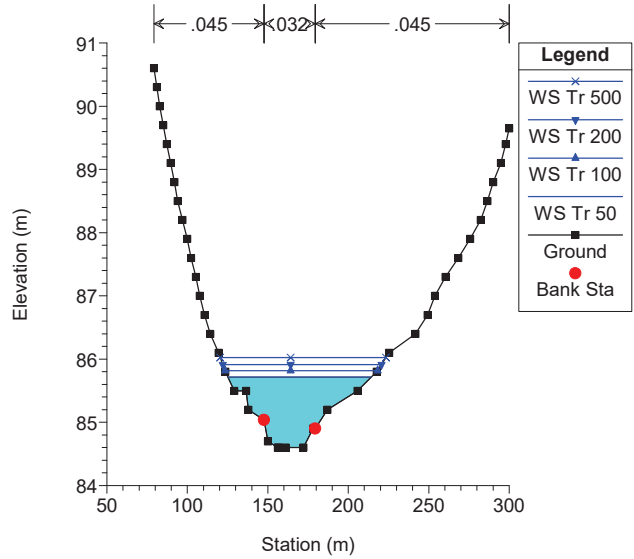
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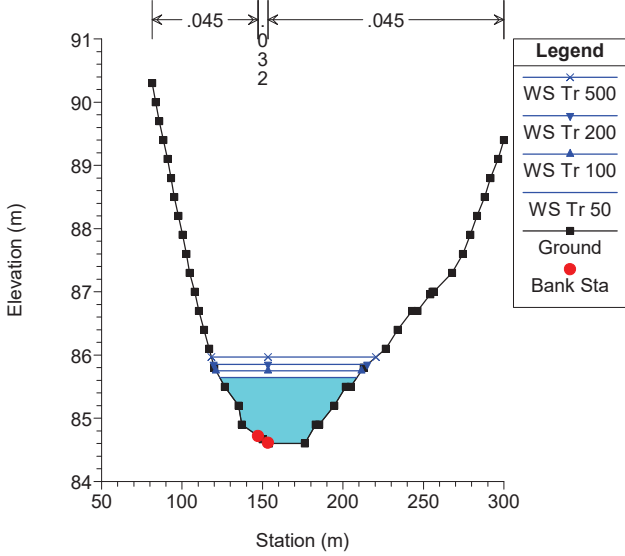
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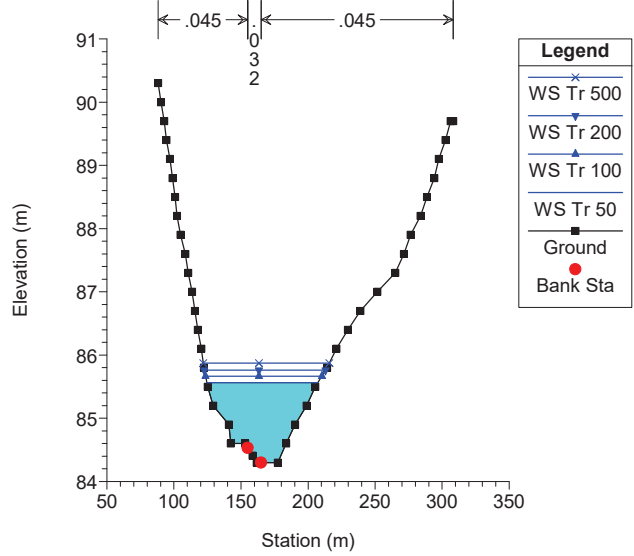
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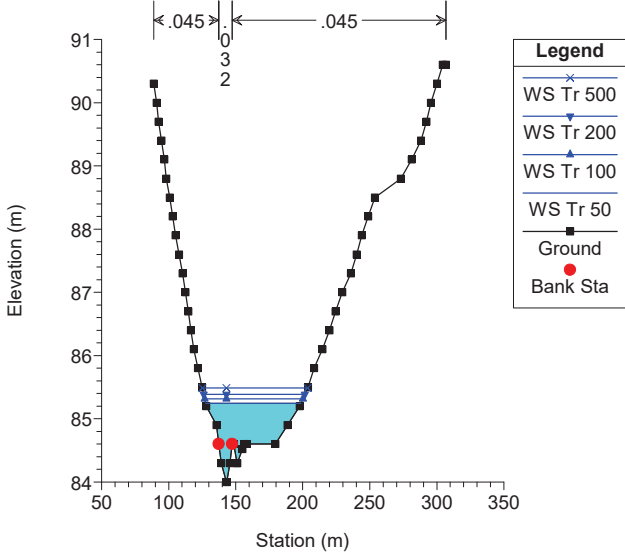
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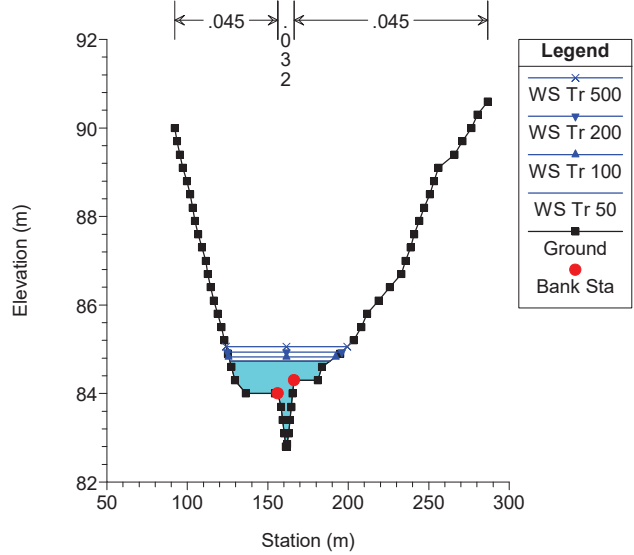
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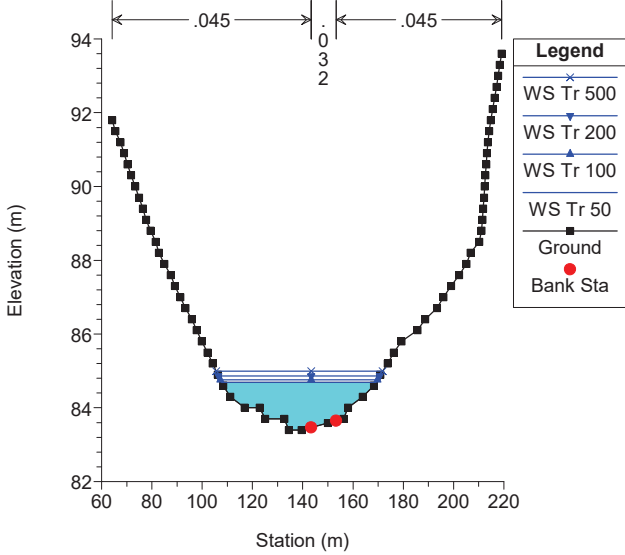
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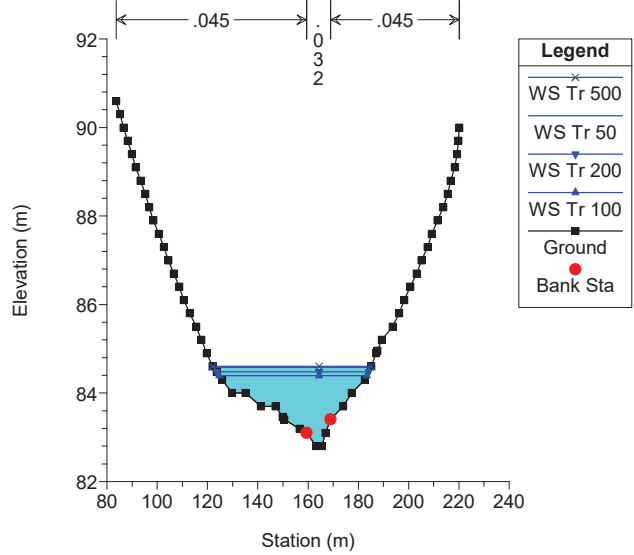
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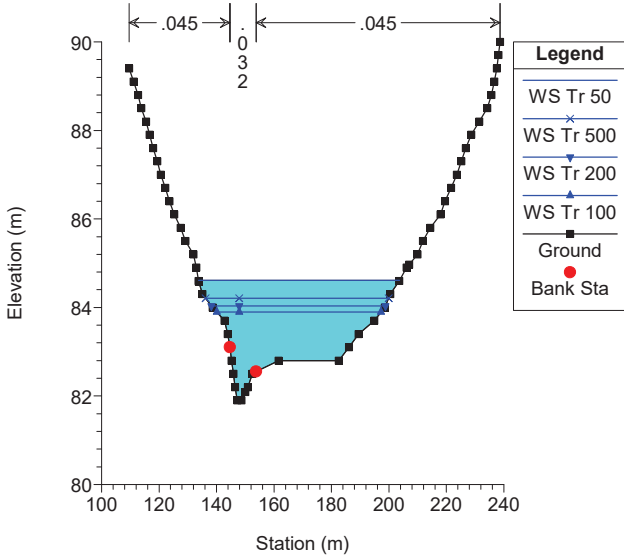
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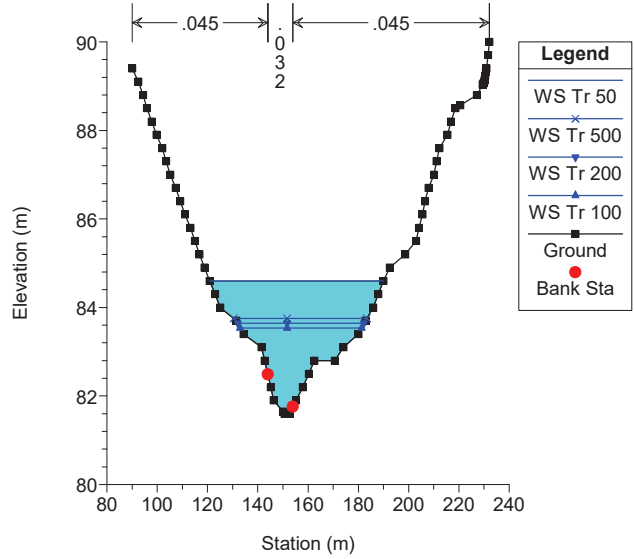
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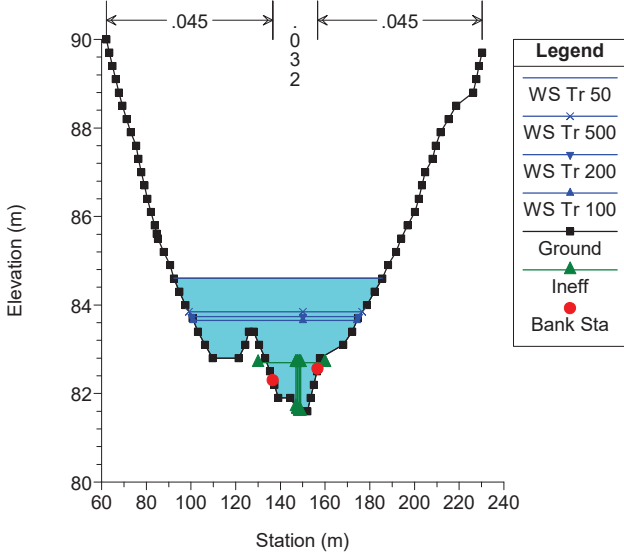
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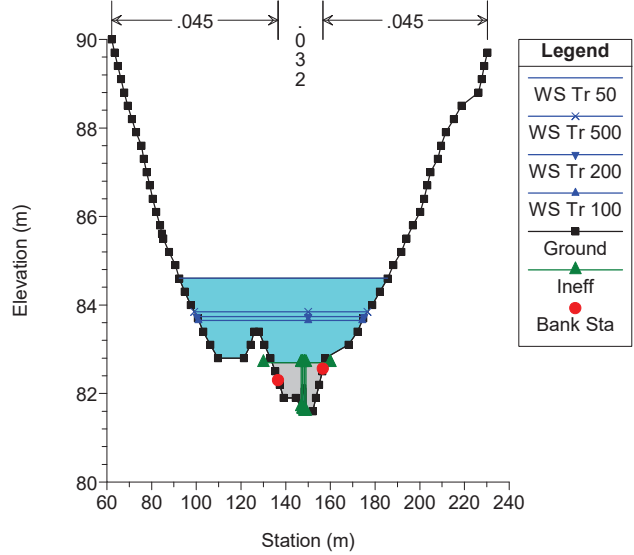
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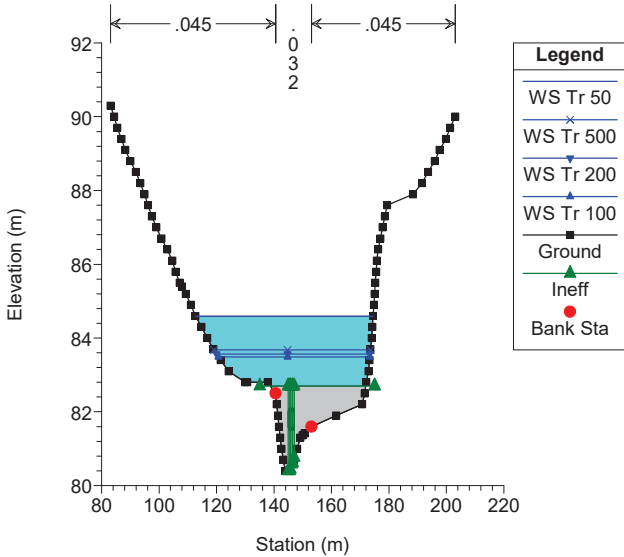
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 River = Cuggiani Reach = Cuggiani_monte RS = 8541.16



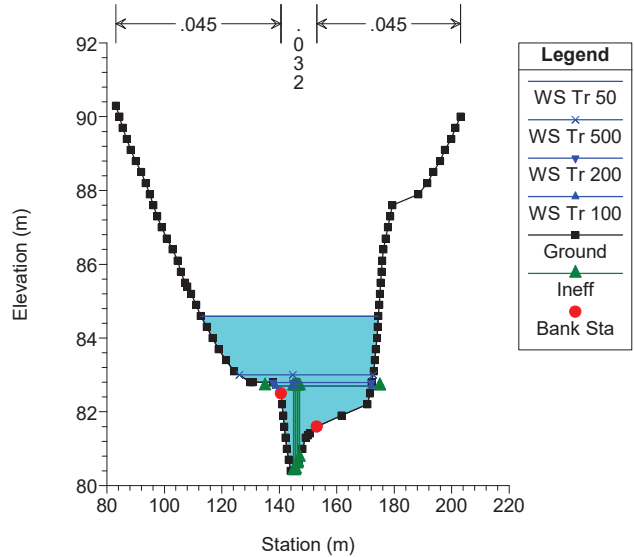
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
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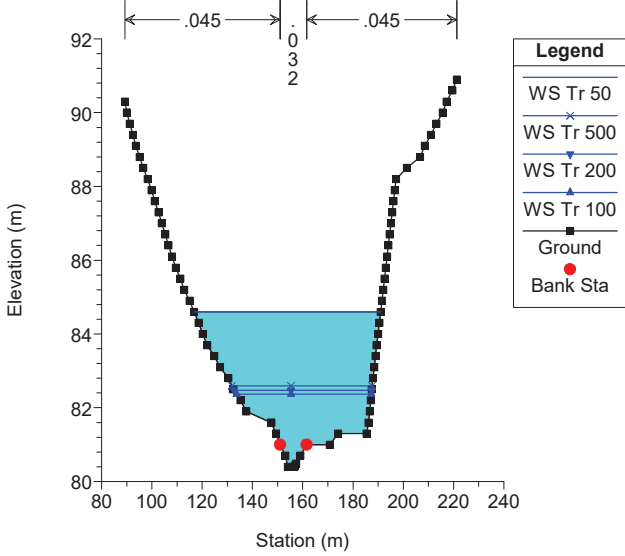
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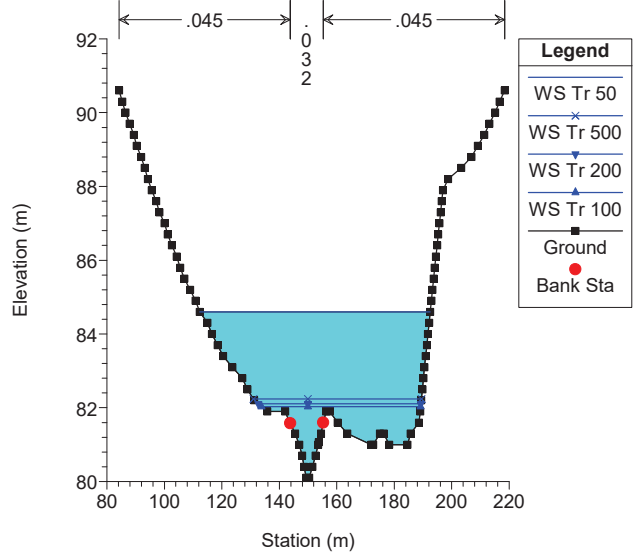
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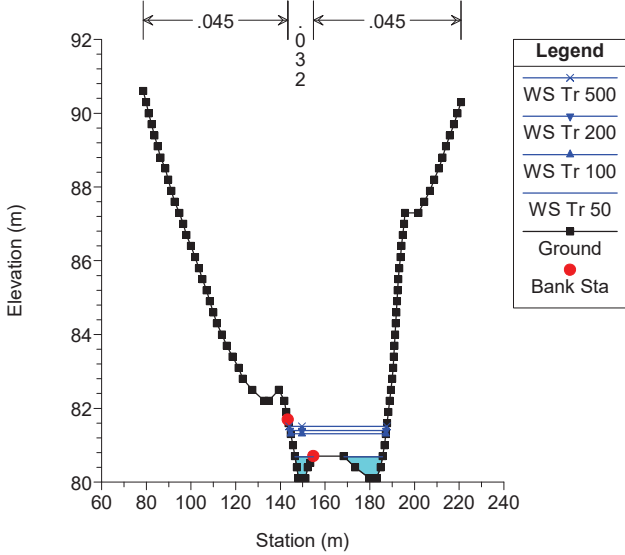
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 River = Cuggiani Reach = Cuggiani_monte RS = 8470.6



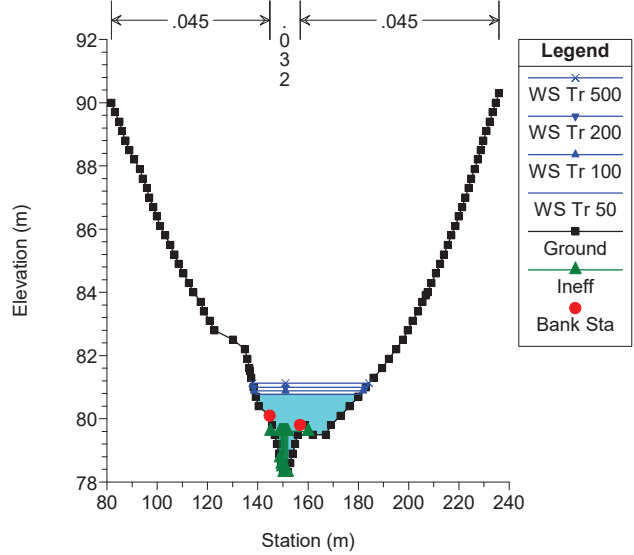
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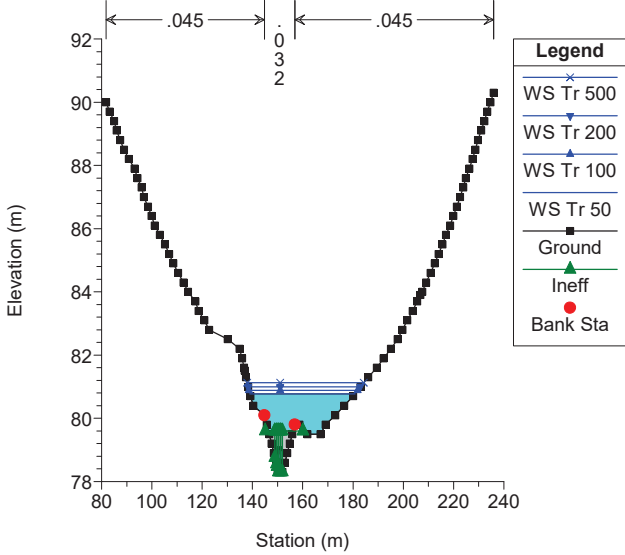
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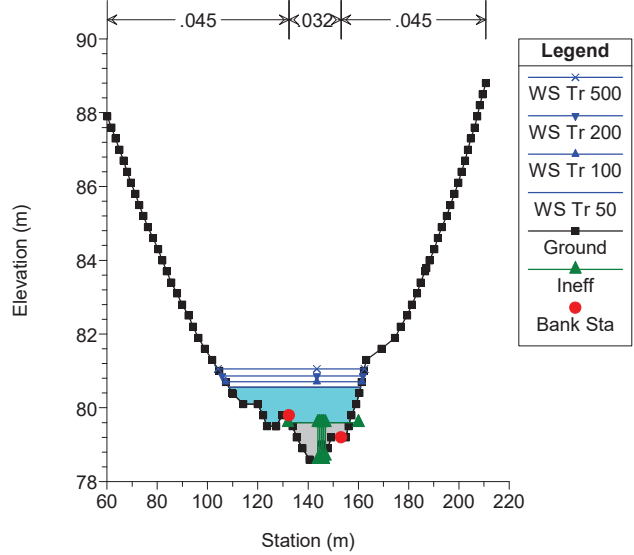
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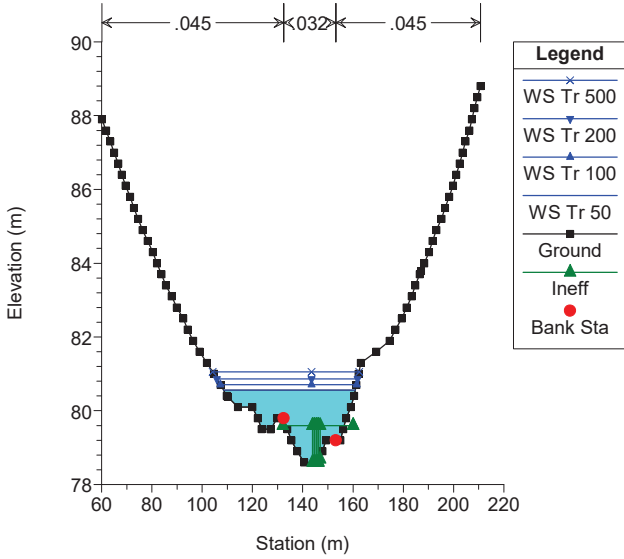
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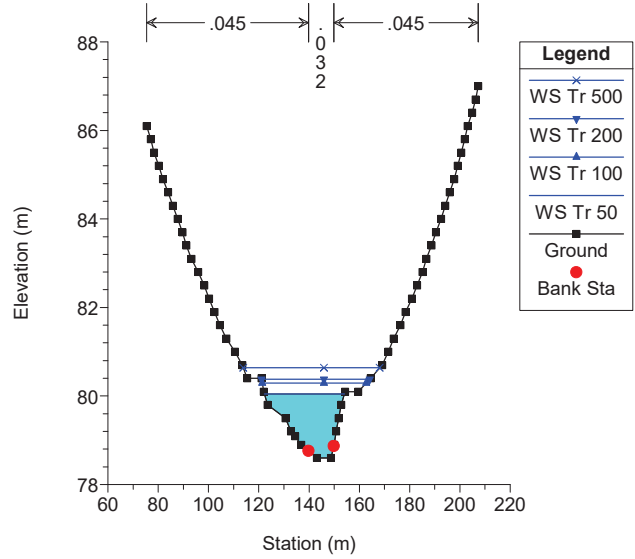
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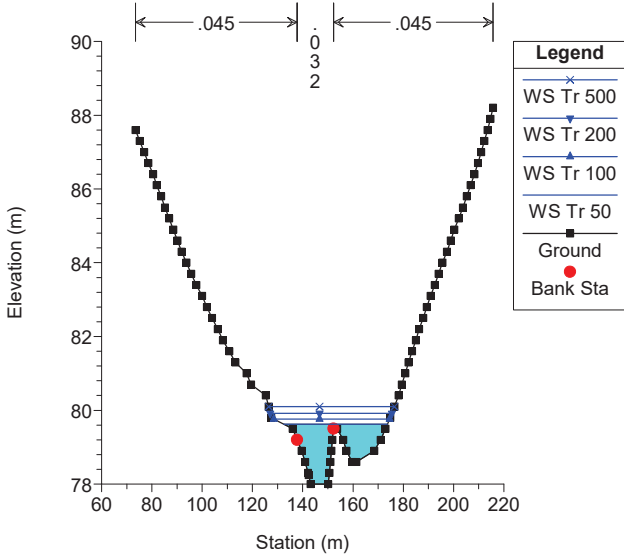
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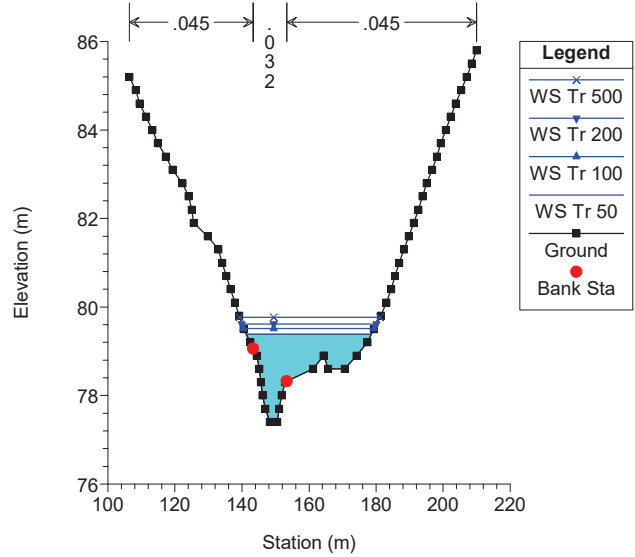
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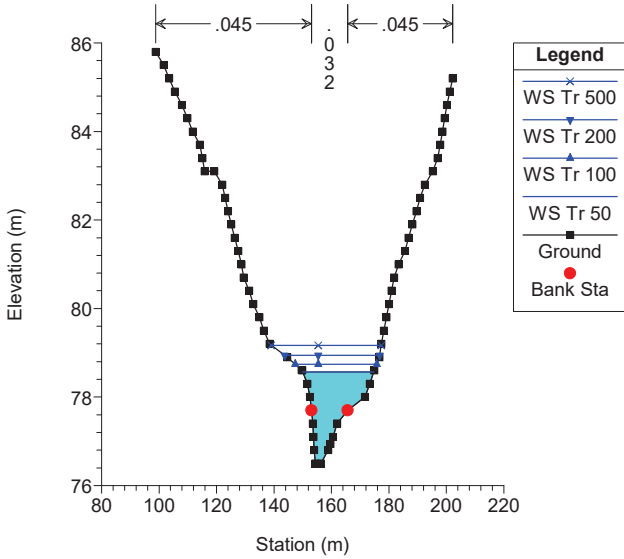
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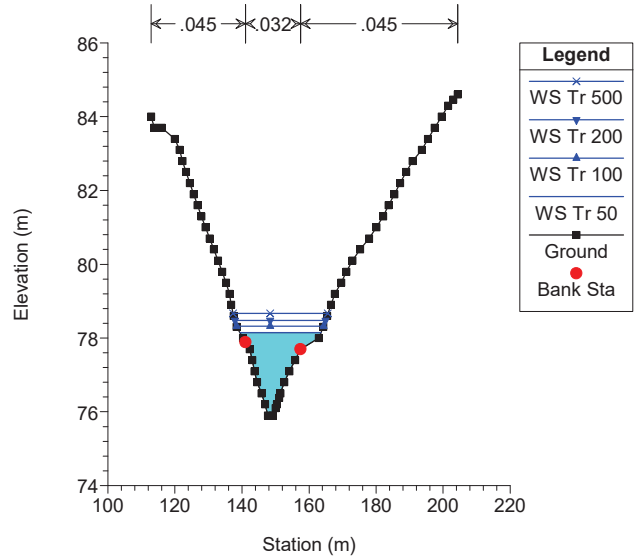
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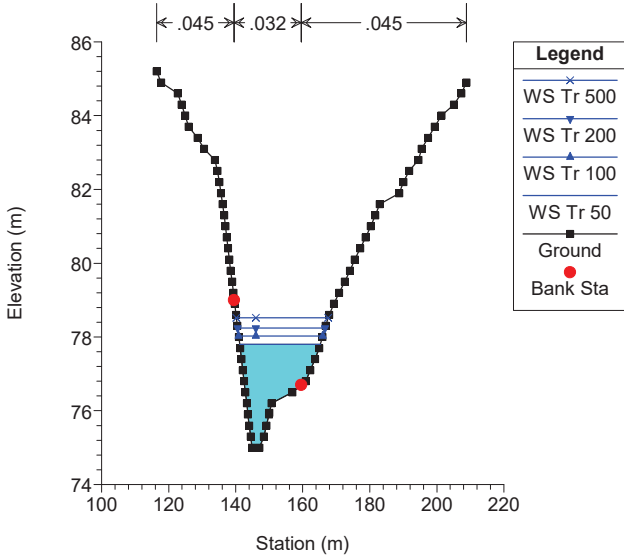
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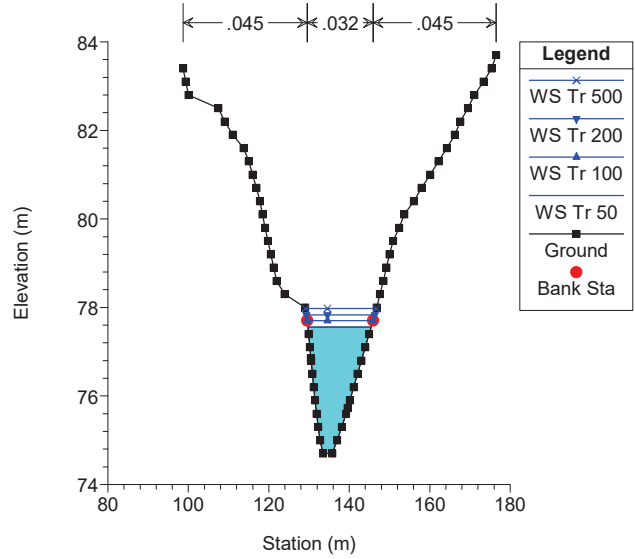
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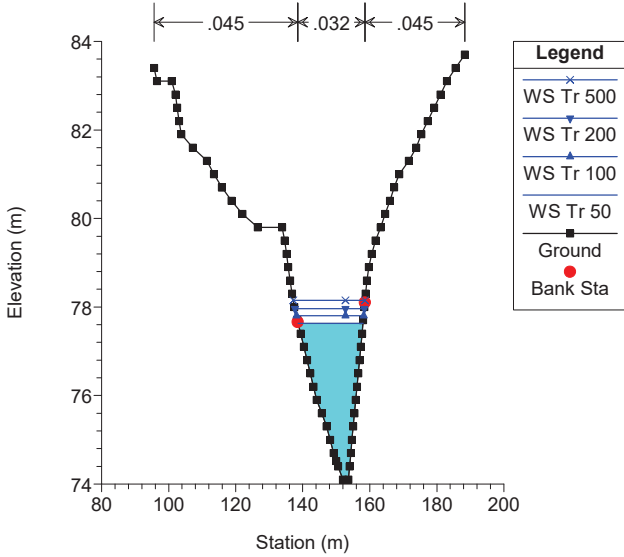
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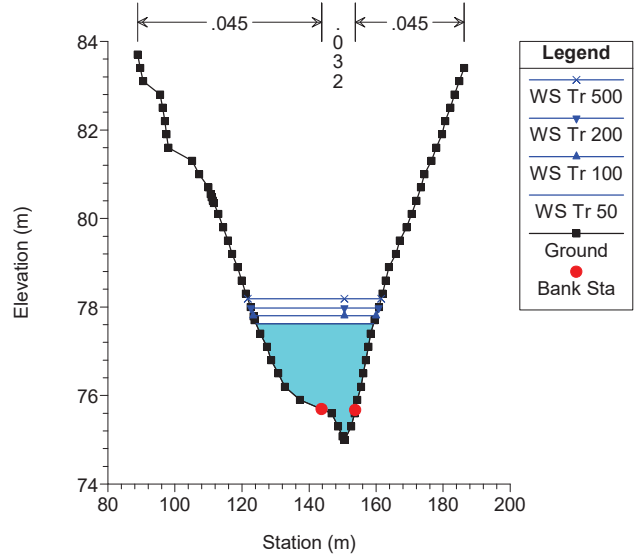
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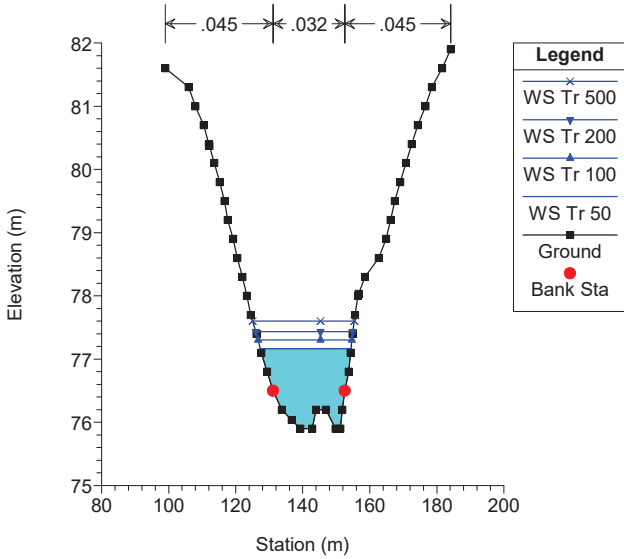
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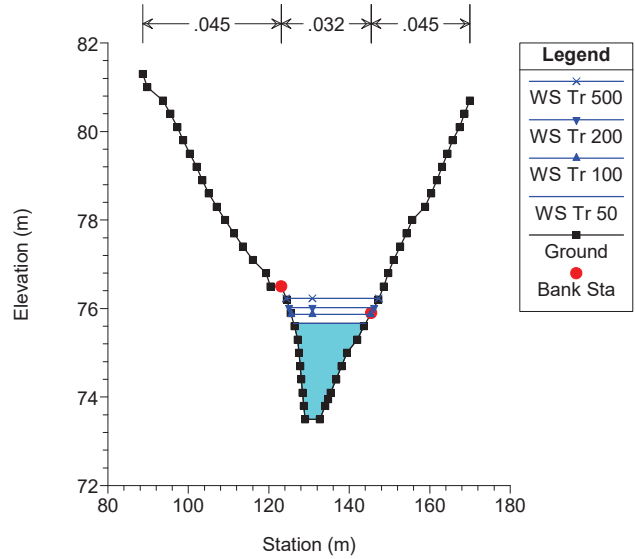
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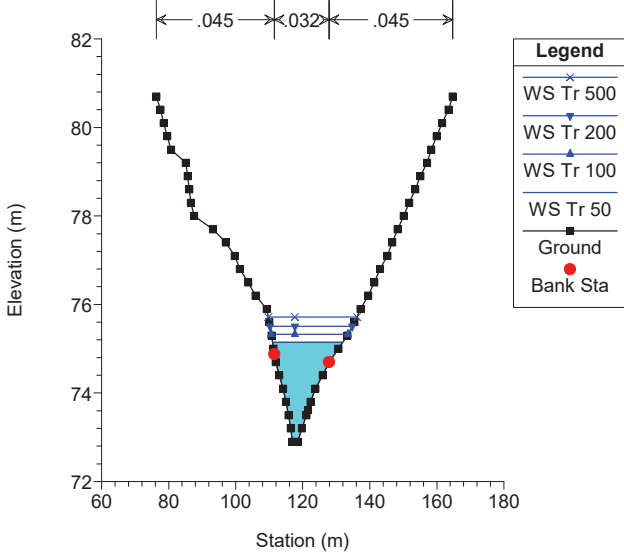
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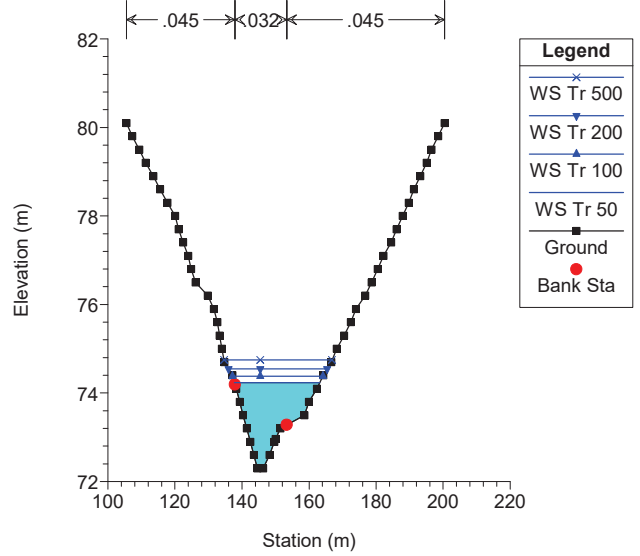
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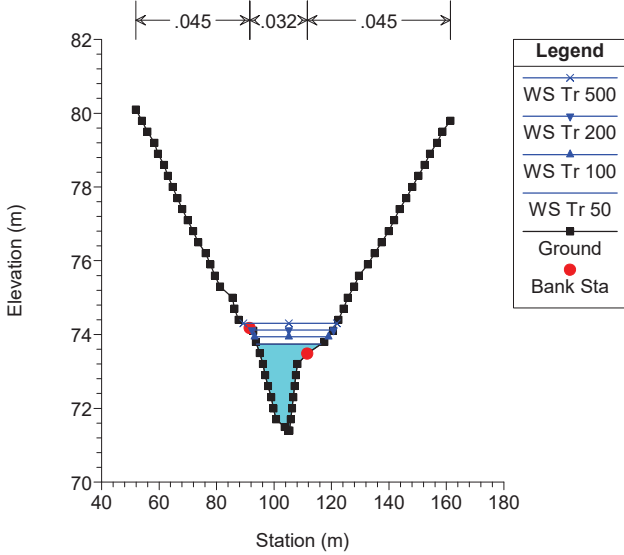
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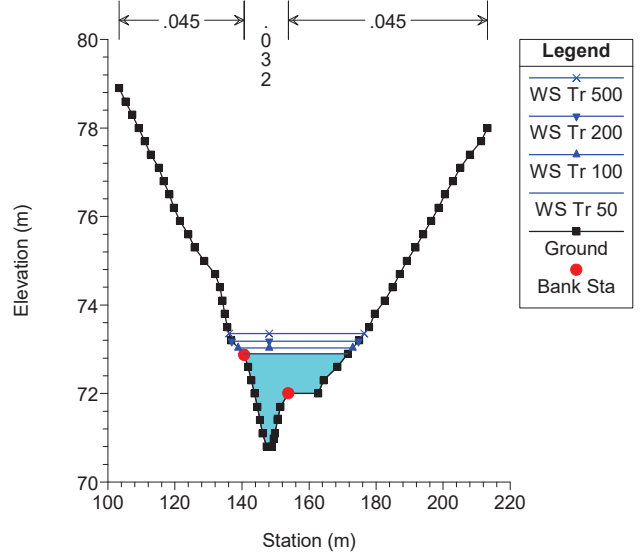
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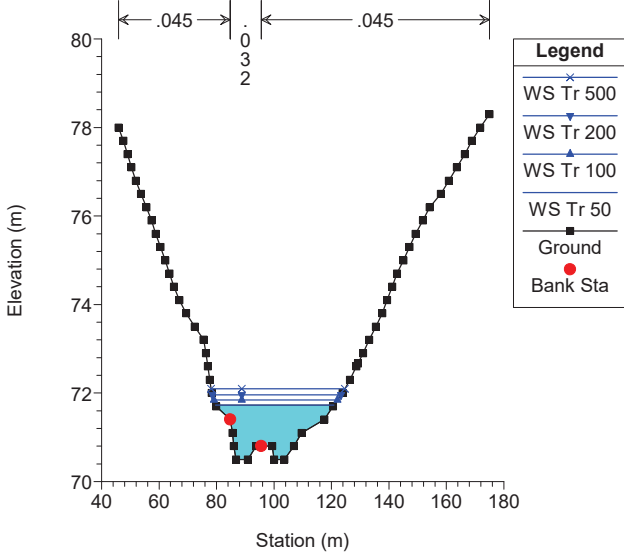
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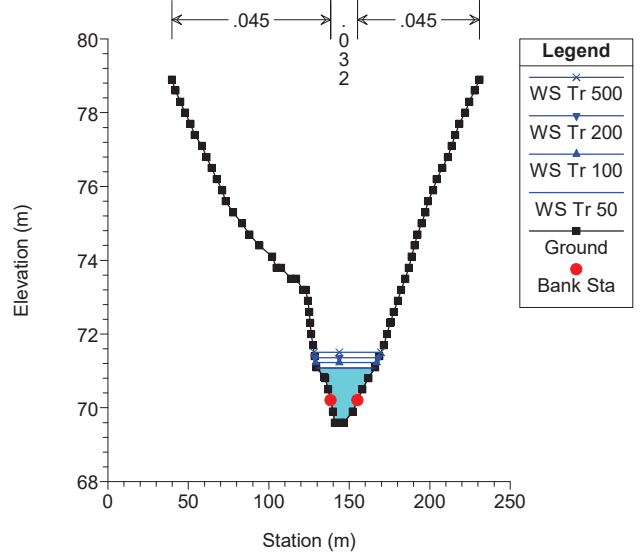
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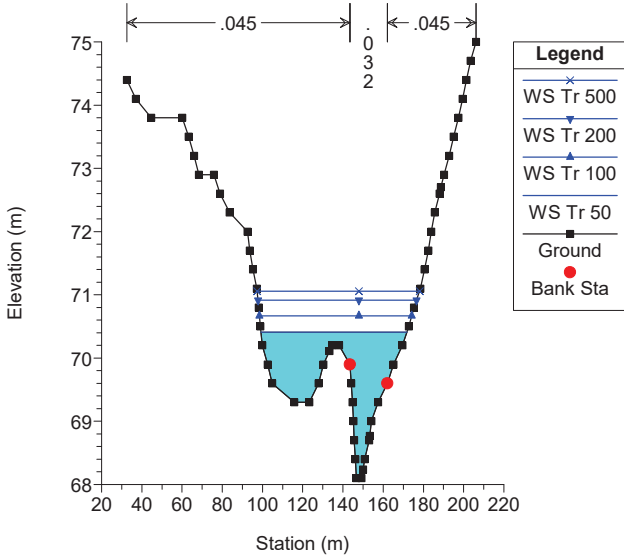
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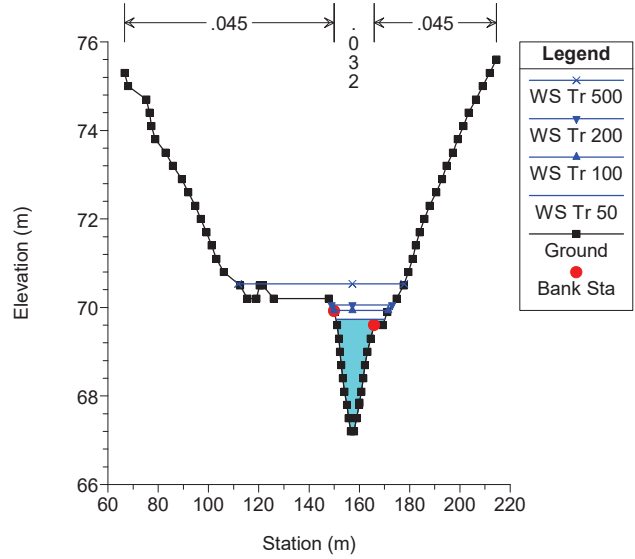
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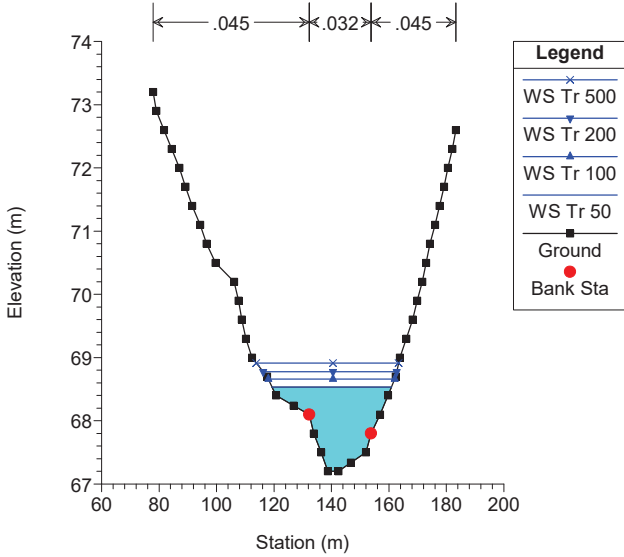
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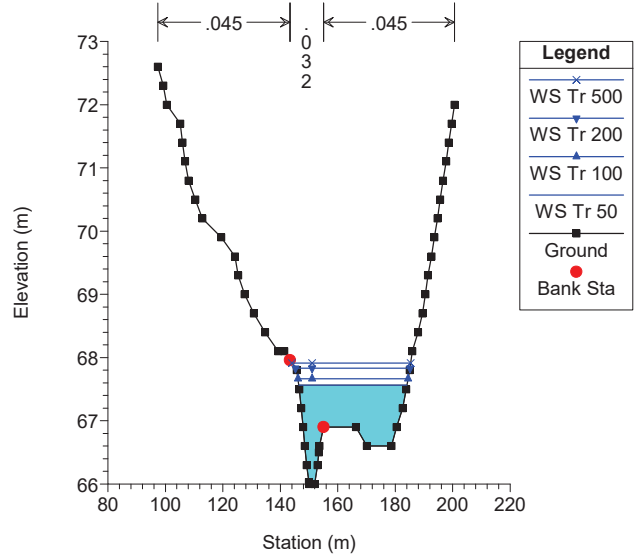
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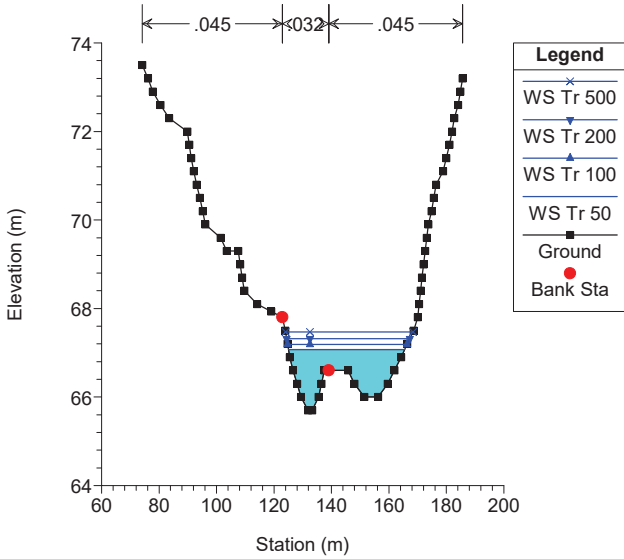
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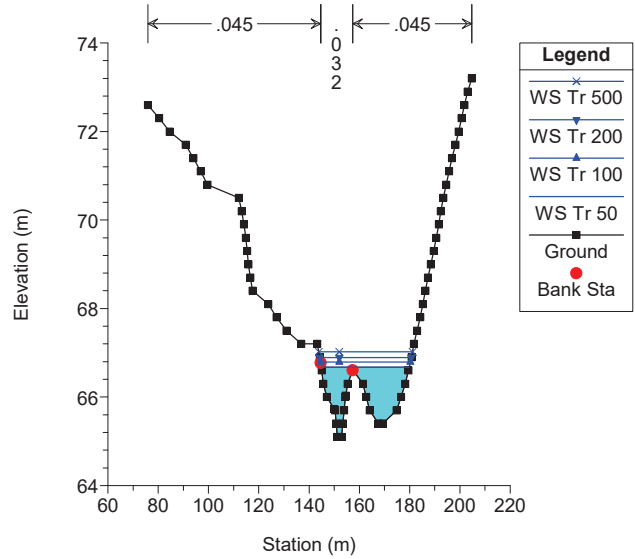
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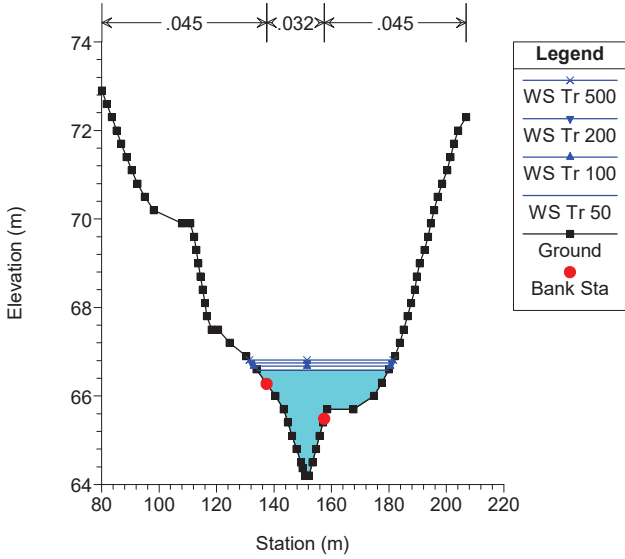
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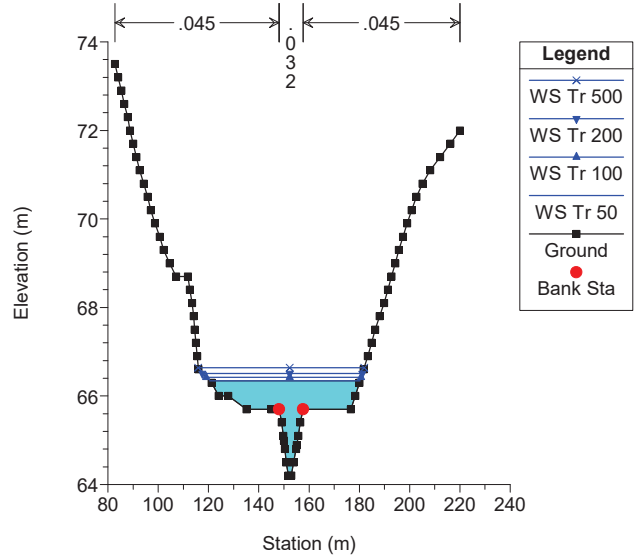
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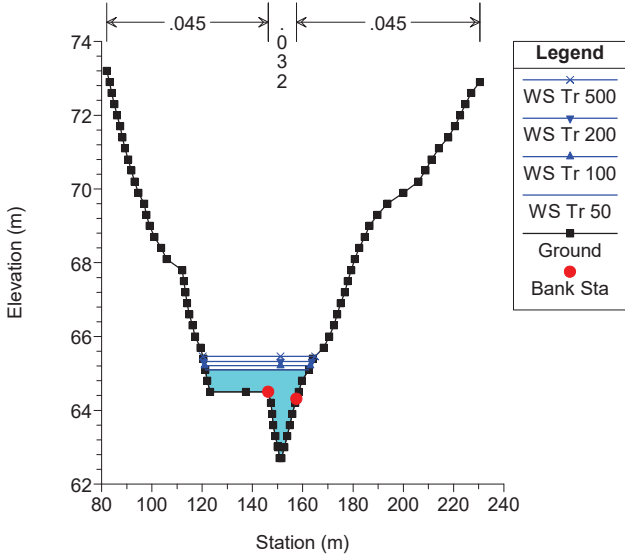
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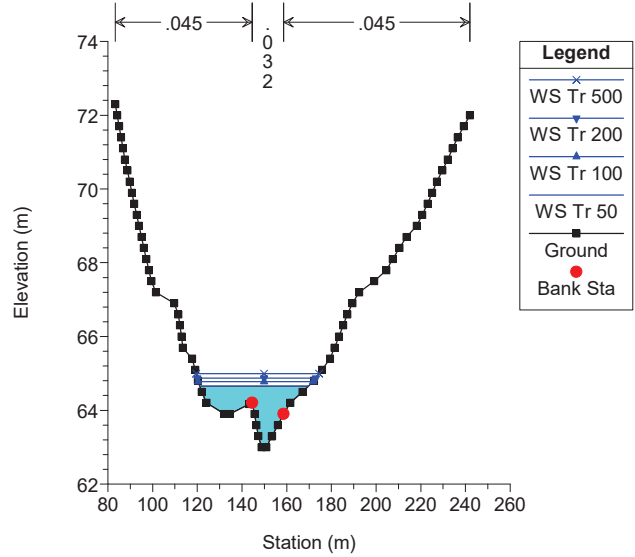
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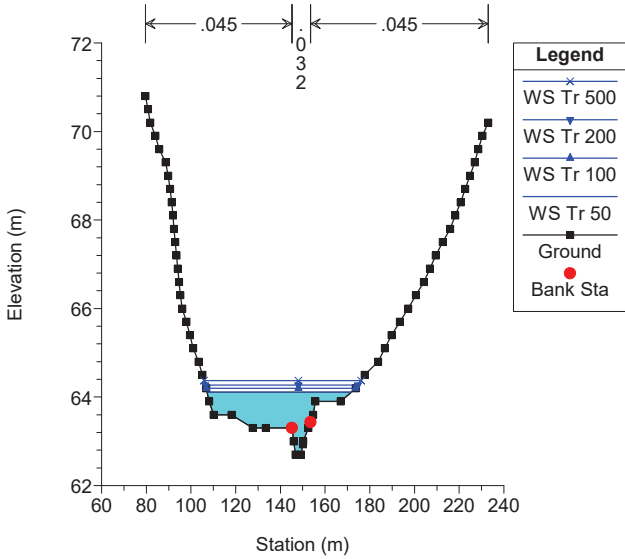
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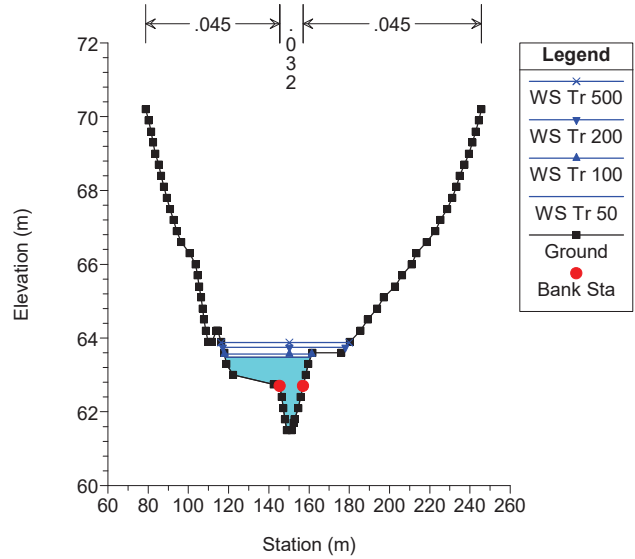
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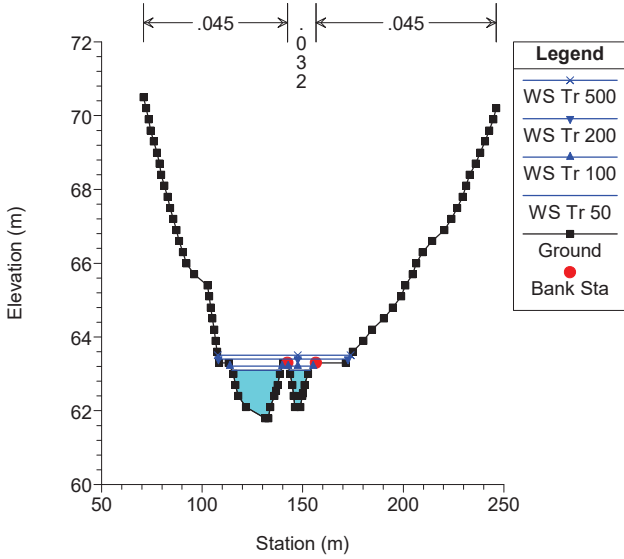
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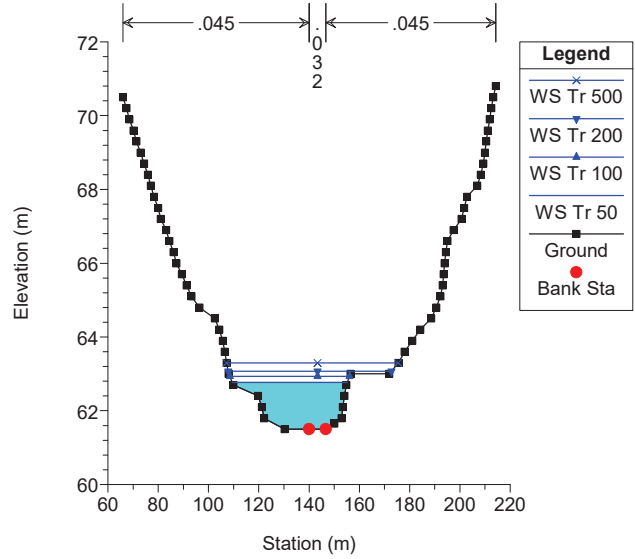
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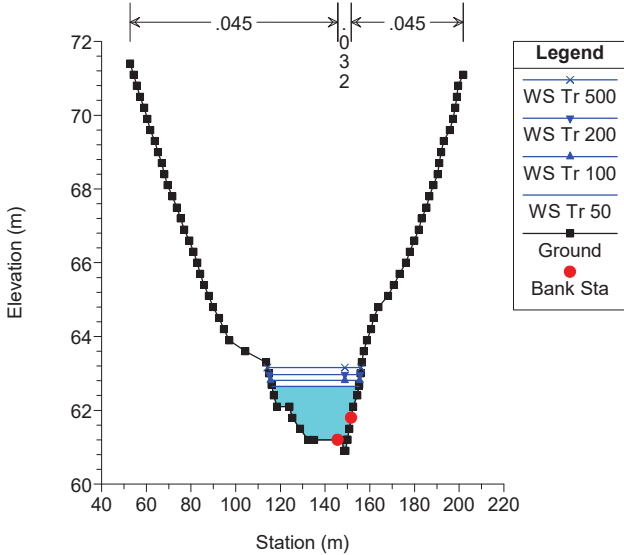
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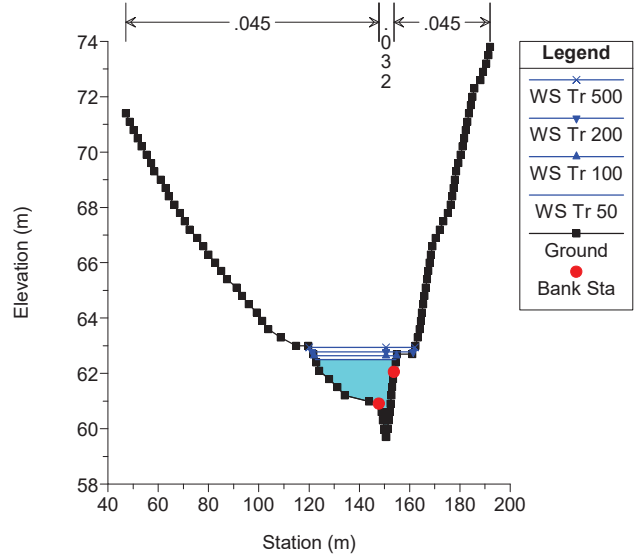
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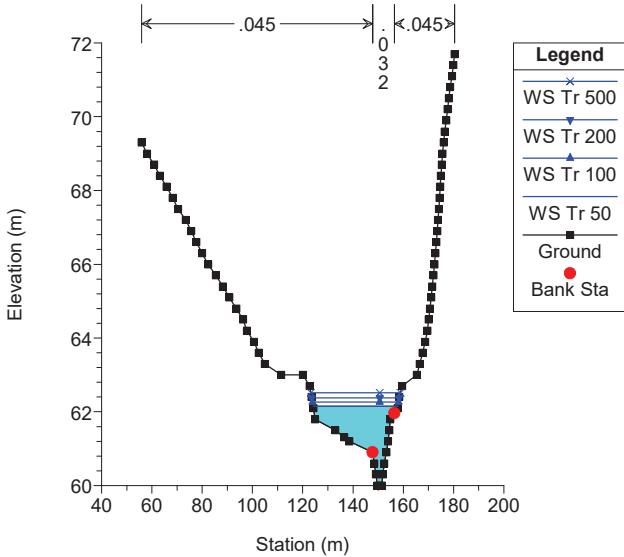
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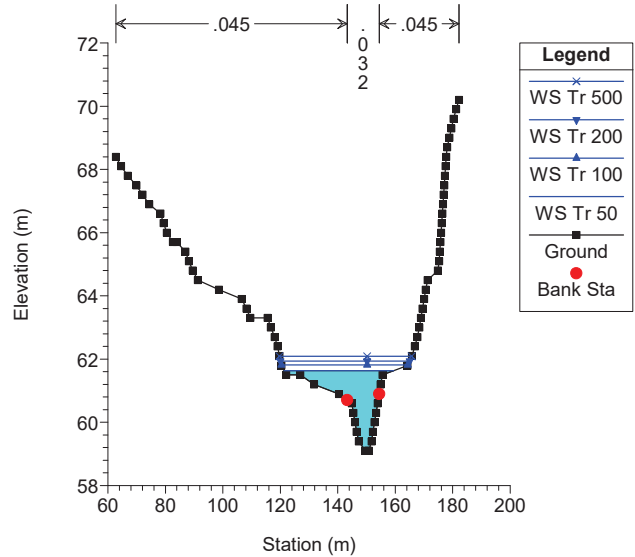
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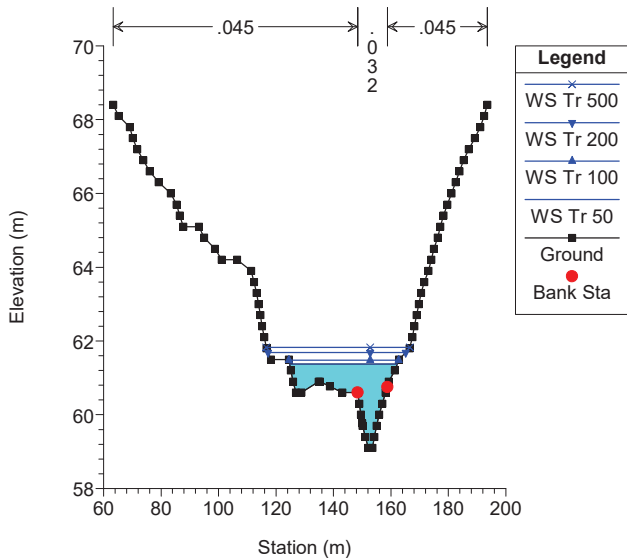
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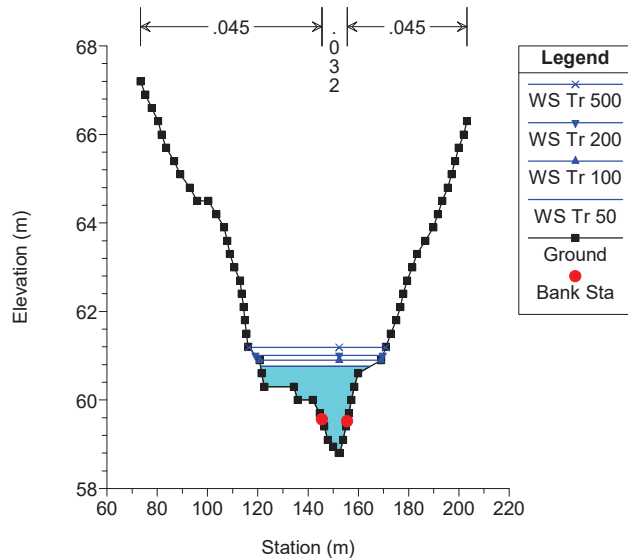
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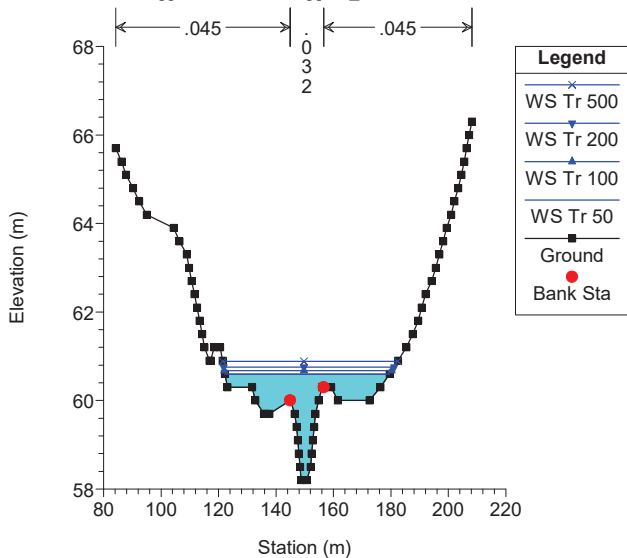
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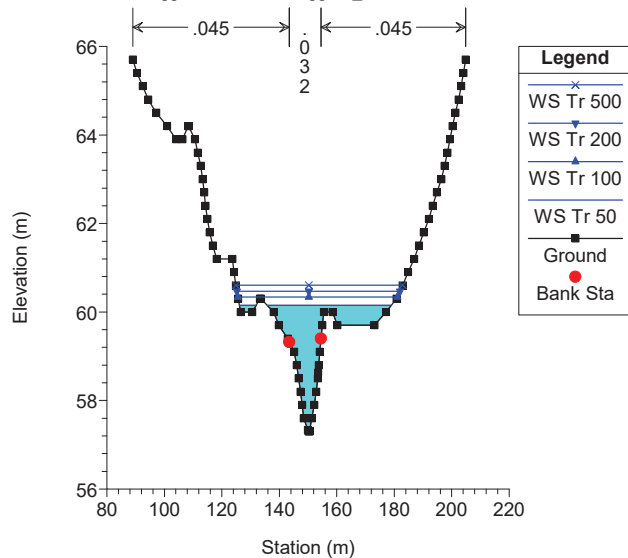
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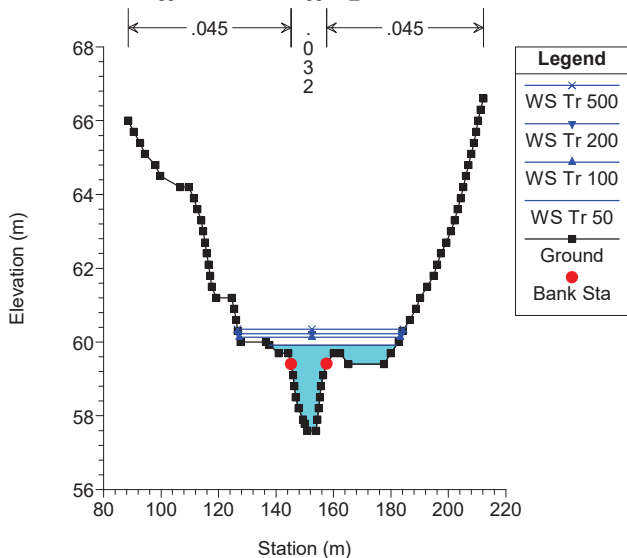
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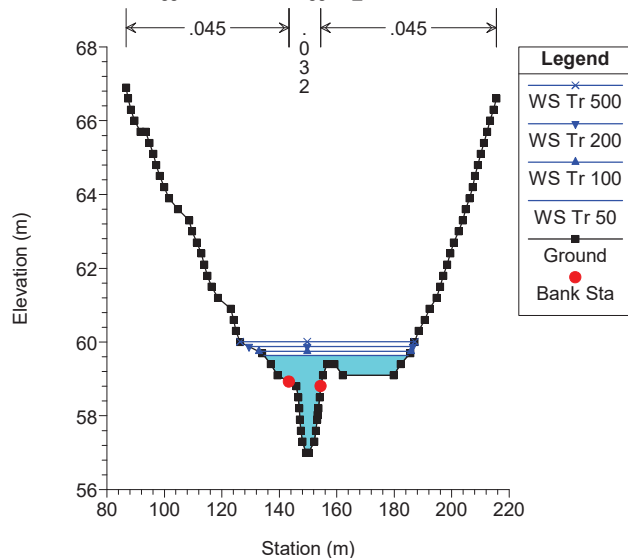
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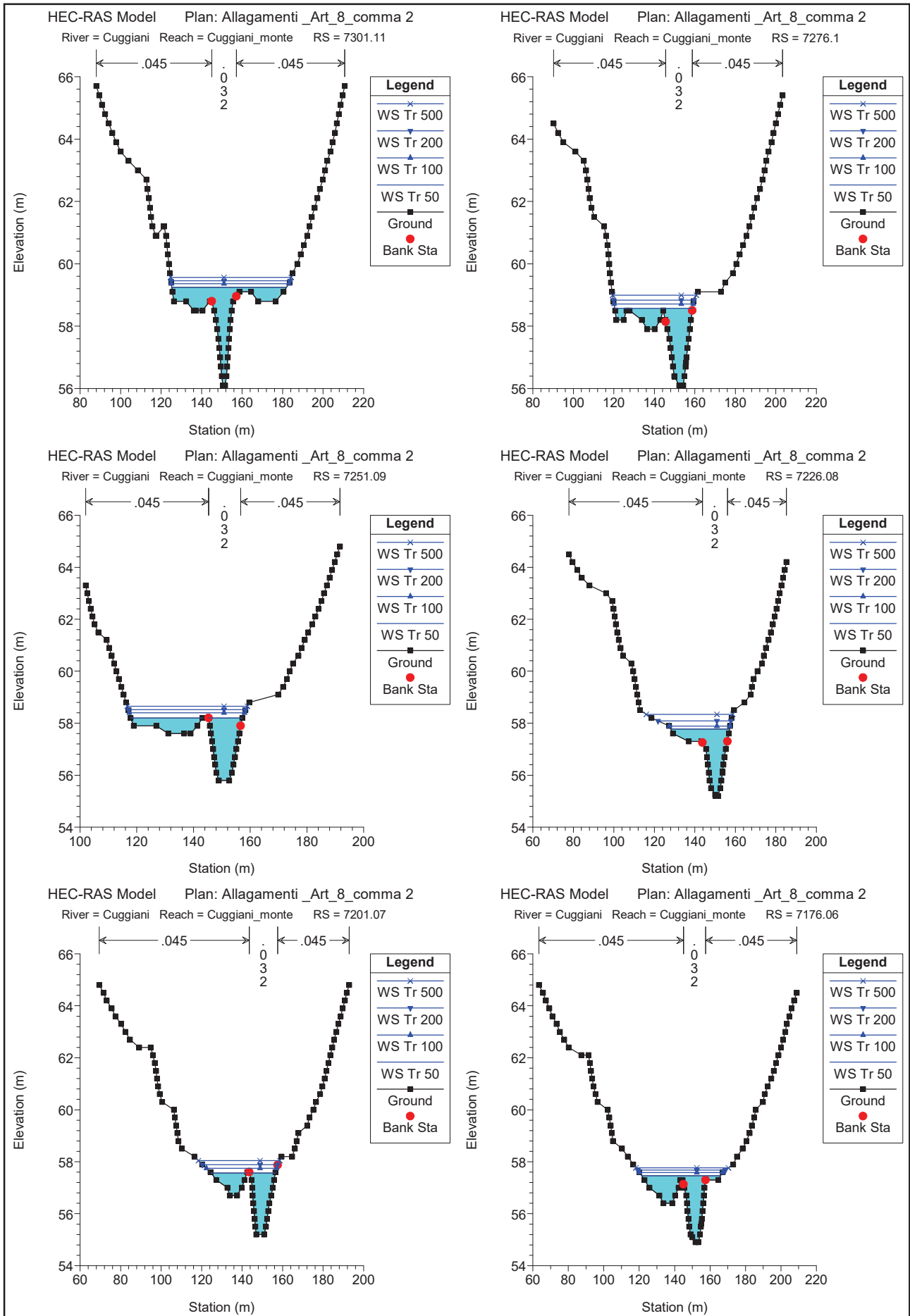


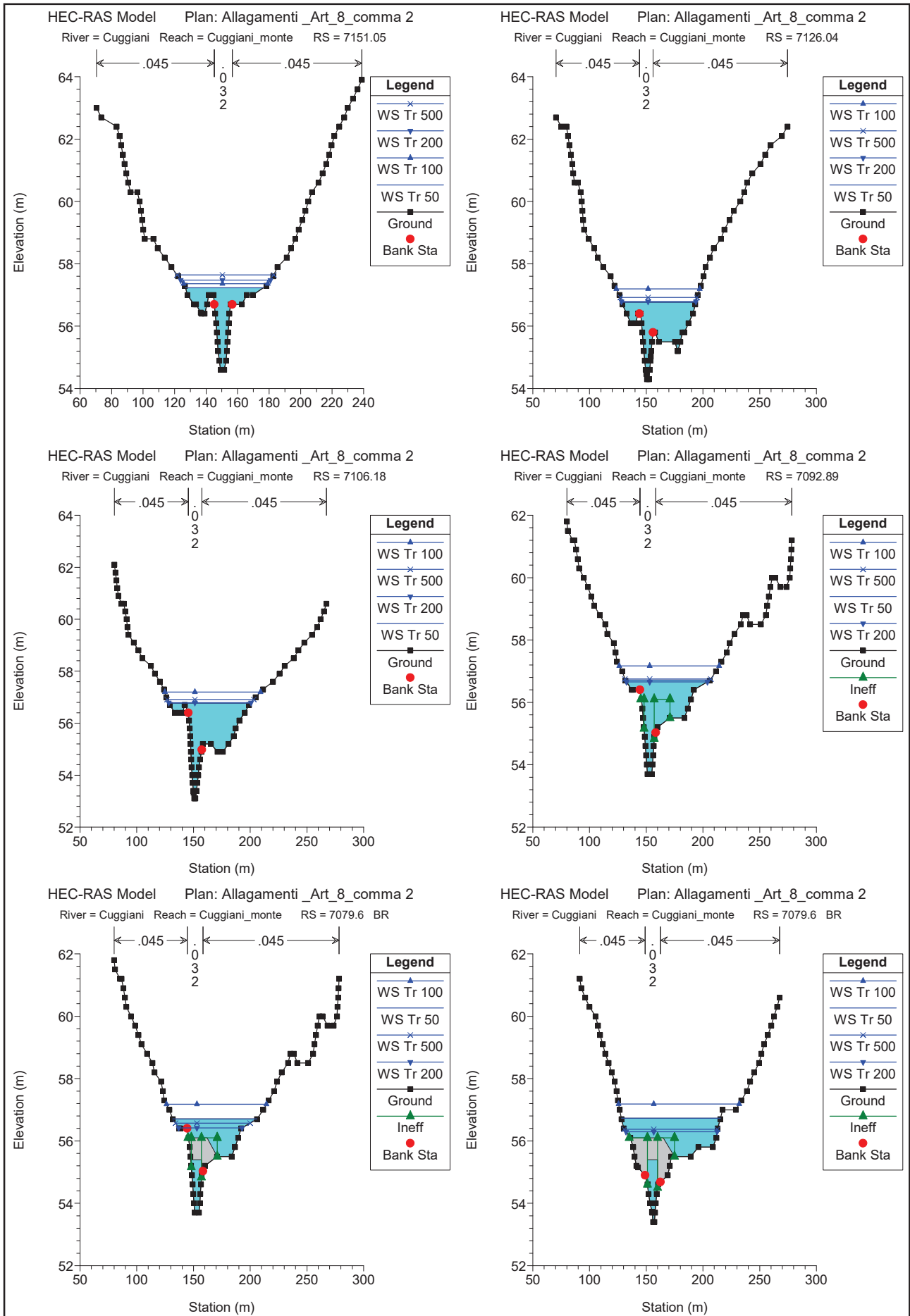
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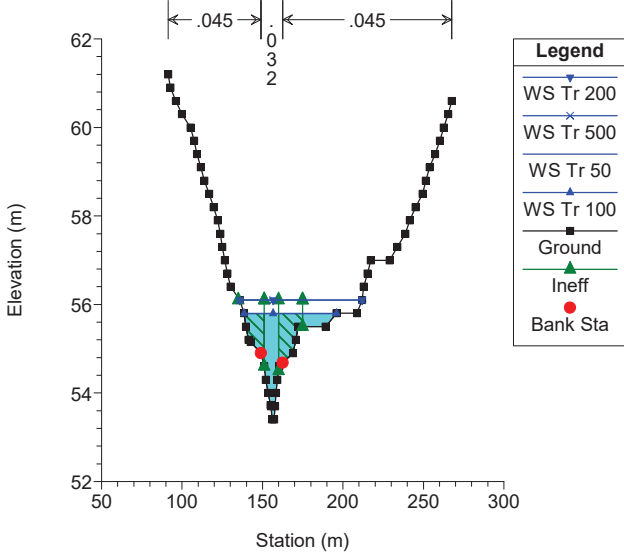
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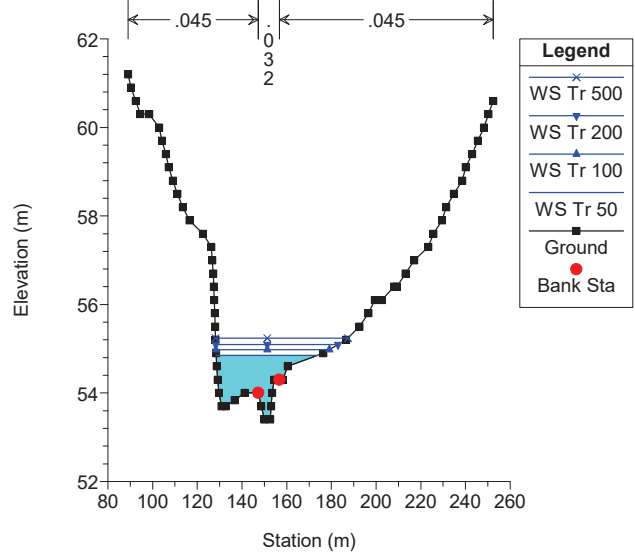




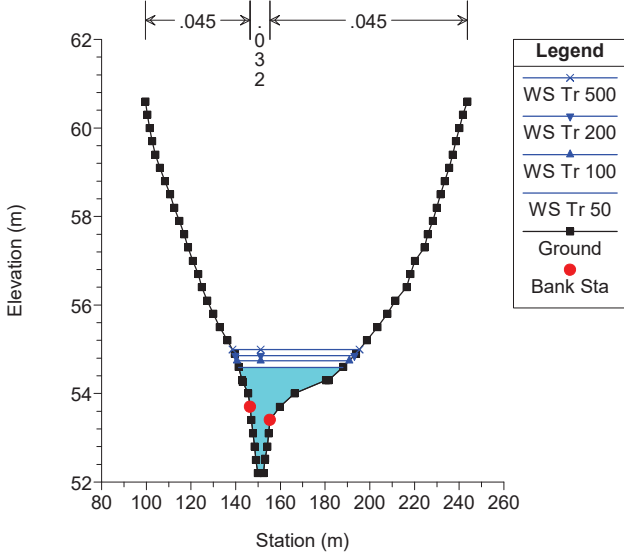
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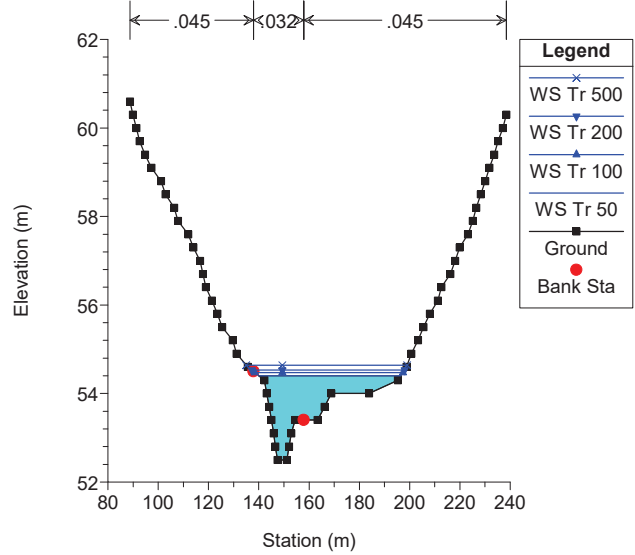
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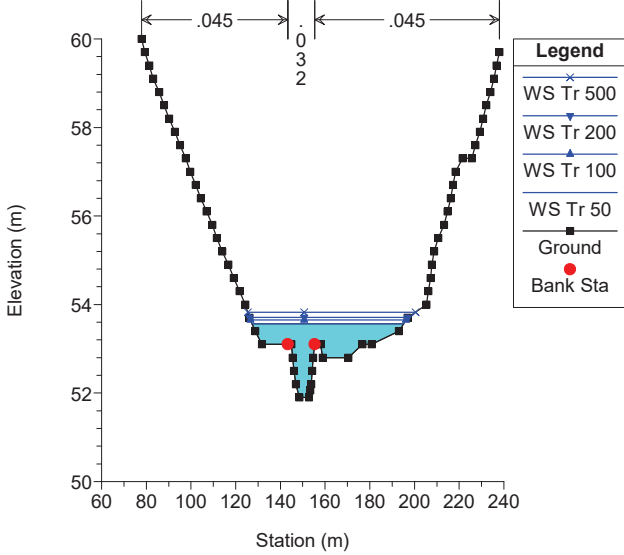
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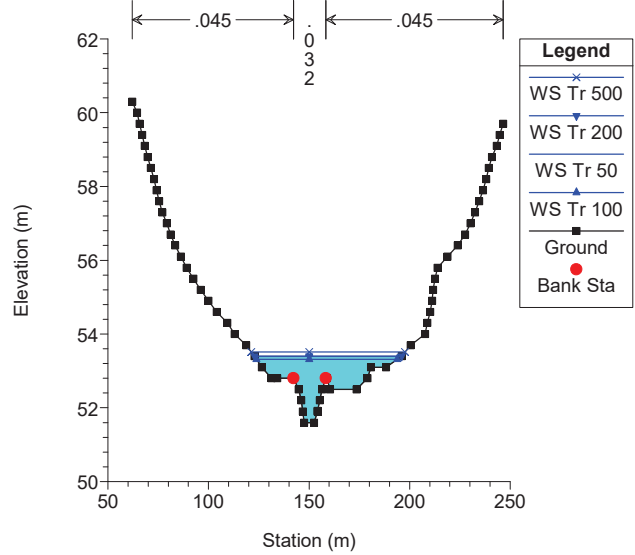
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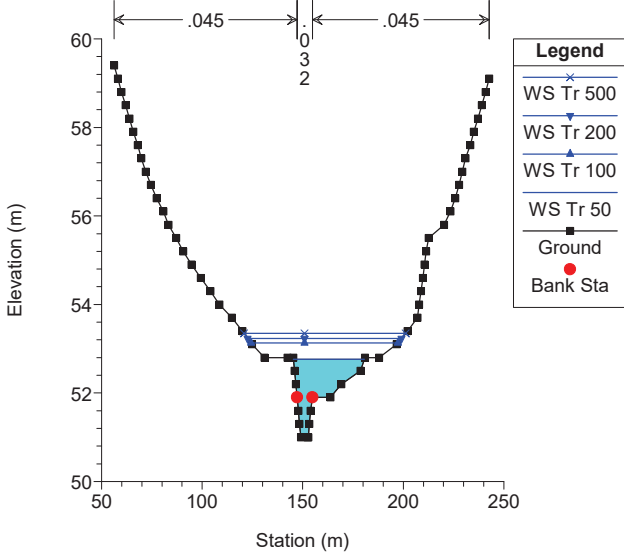
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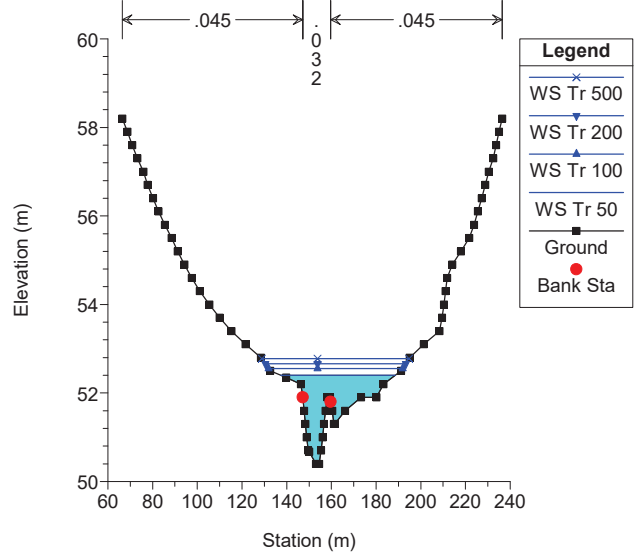
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 River = Cuggiani Reach = Cuggiani_monte RS = 6936.52



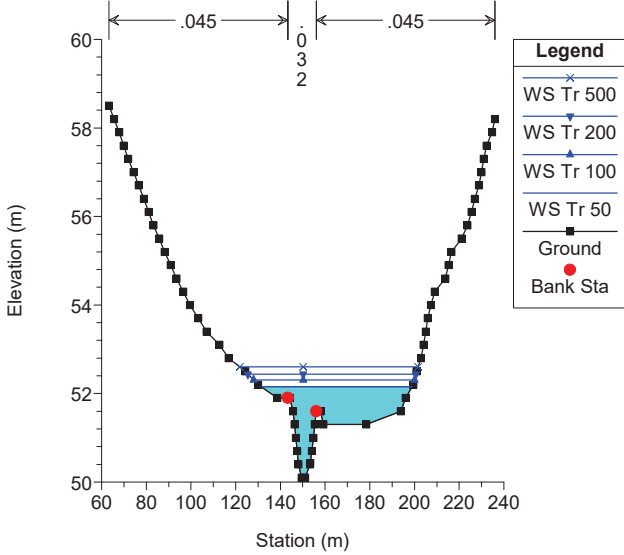
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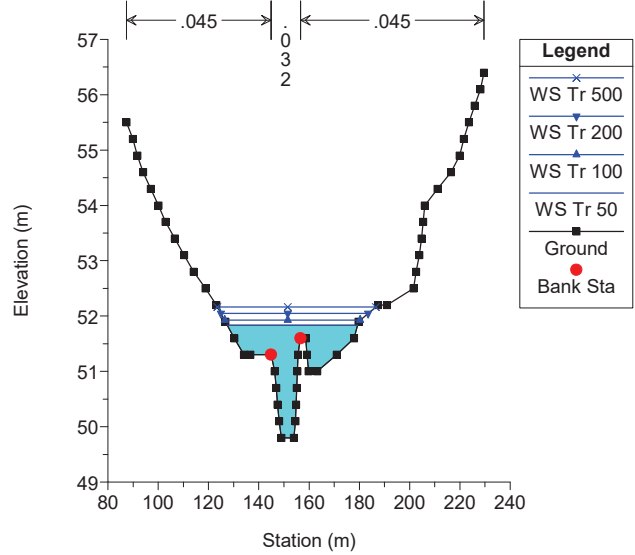
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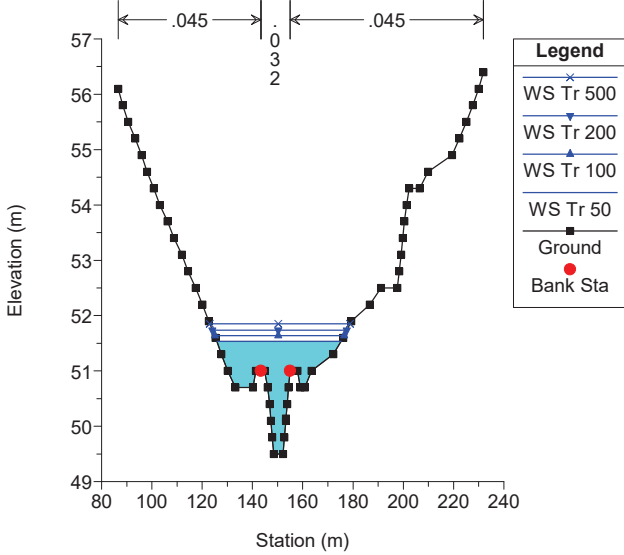
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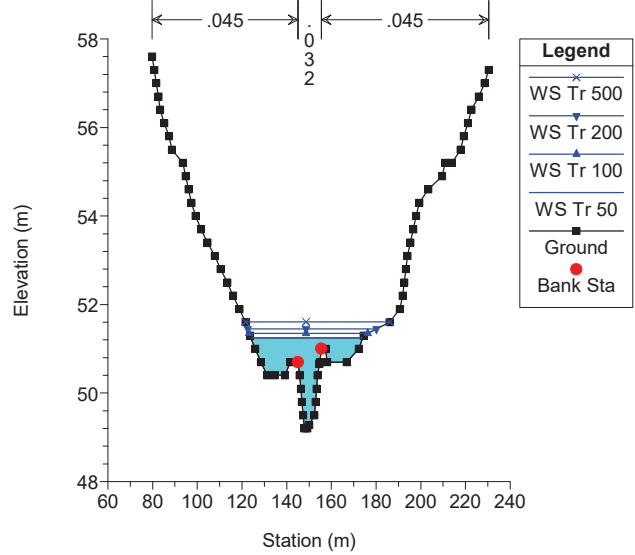
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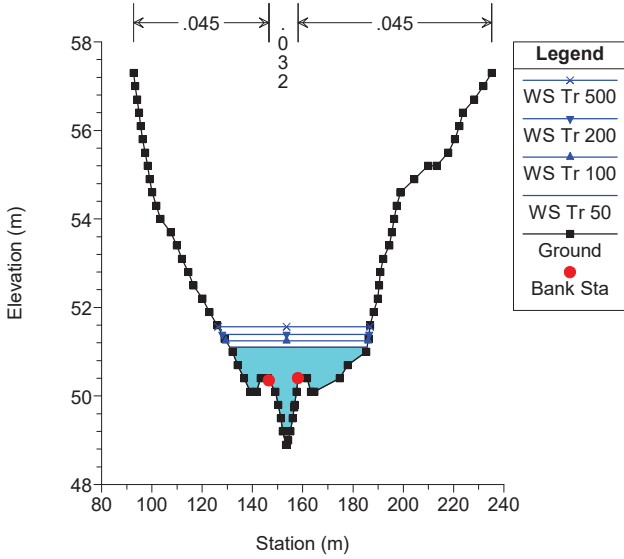
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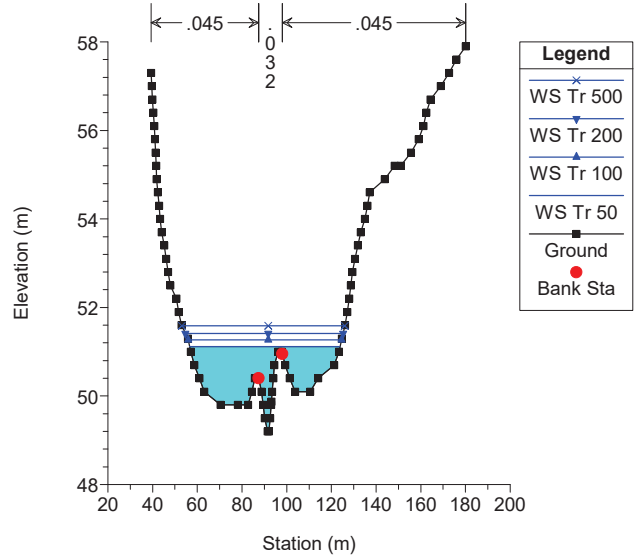
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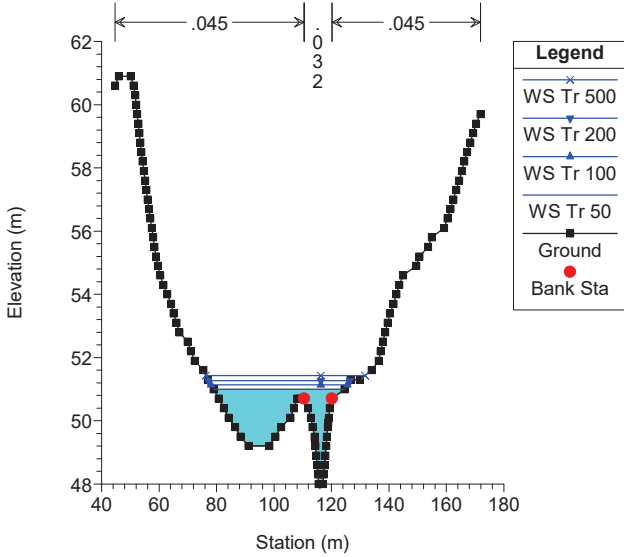
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 River = Cuggiani Reach = Cuggiani_monte RS = 6760.92



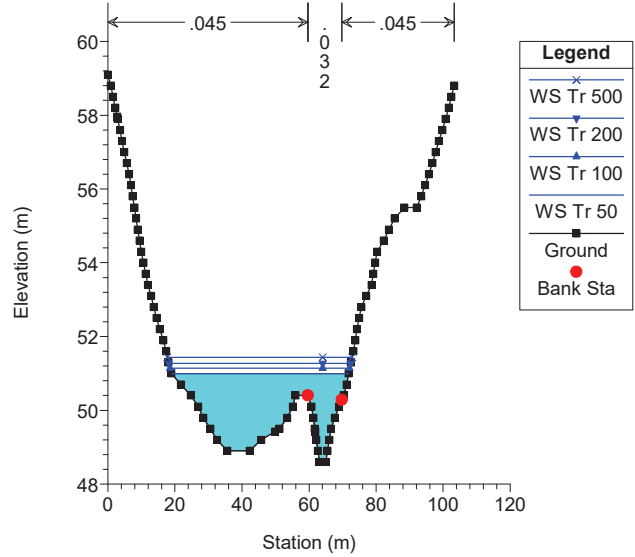
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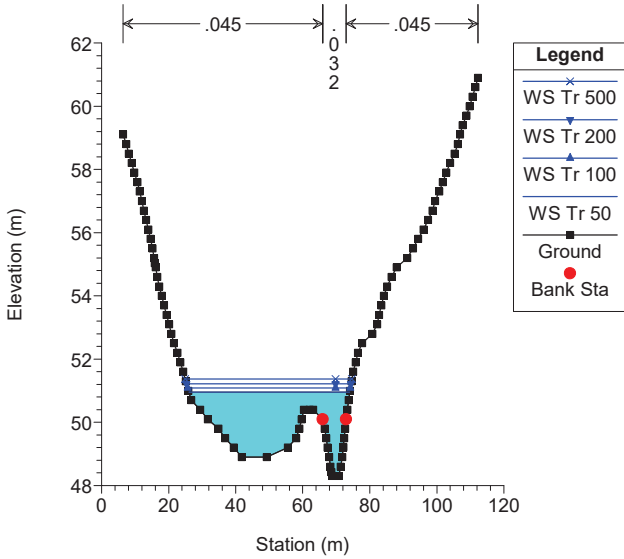
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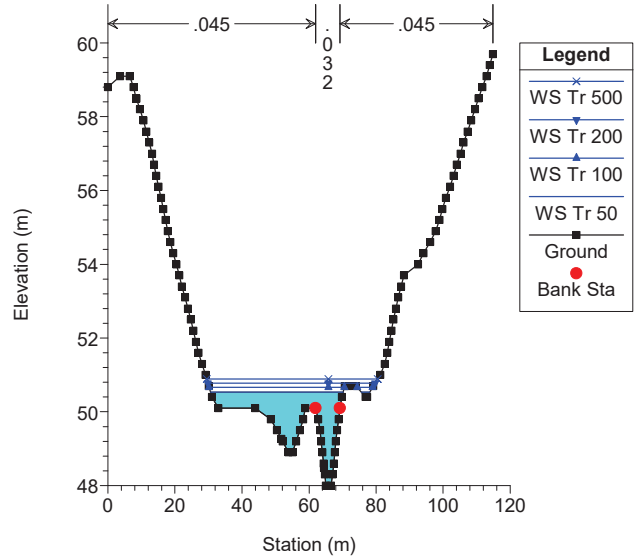
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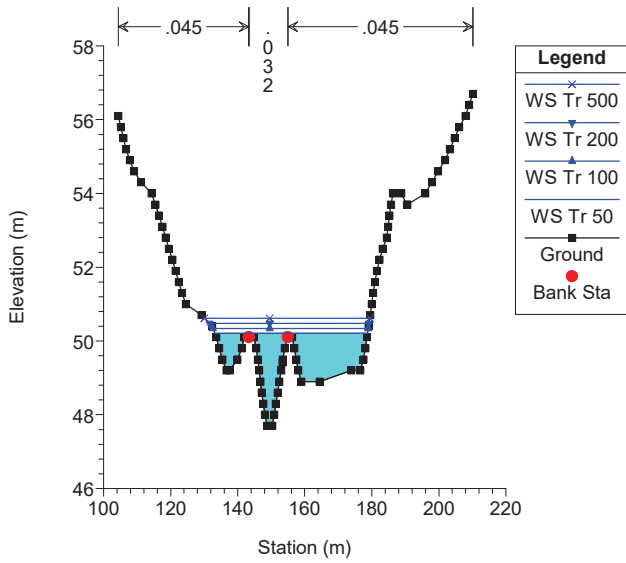
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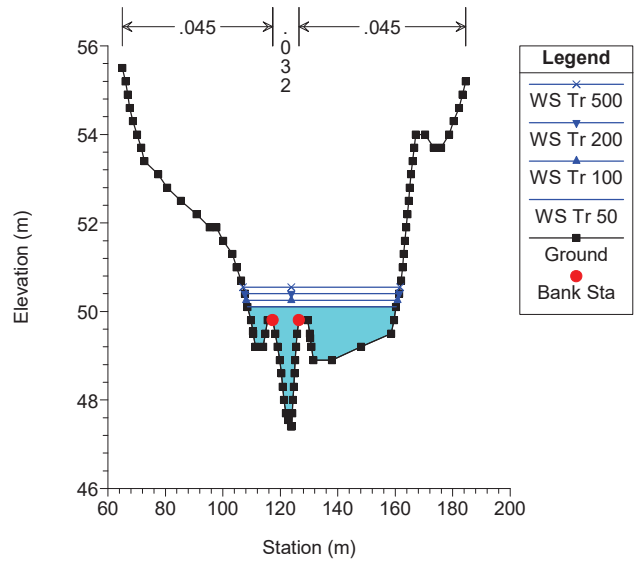
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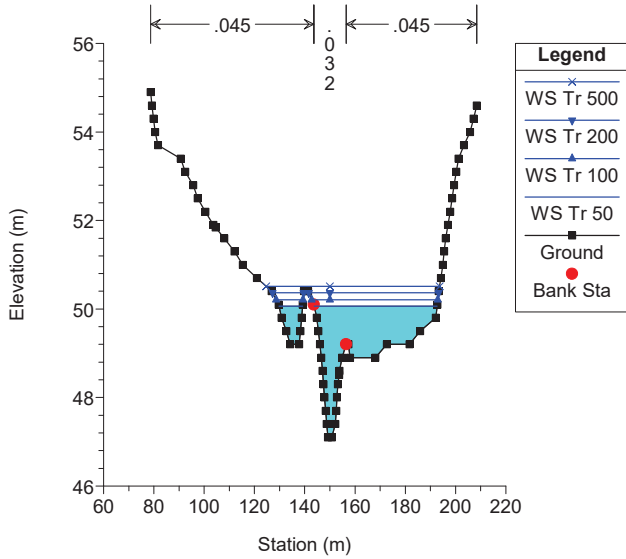
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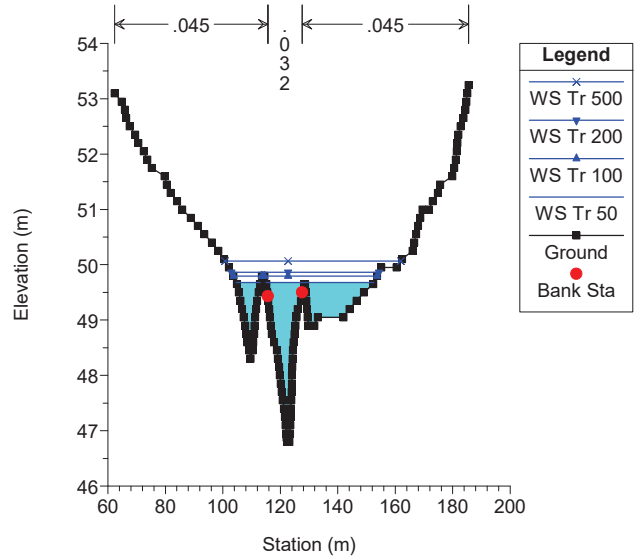
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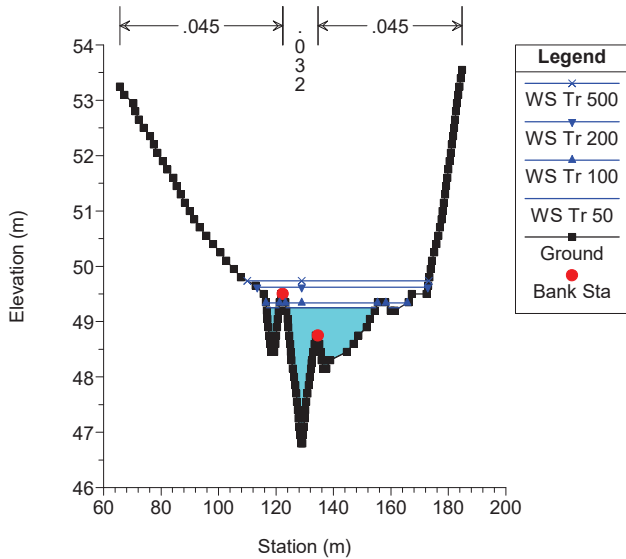
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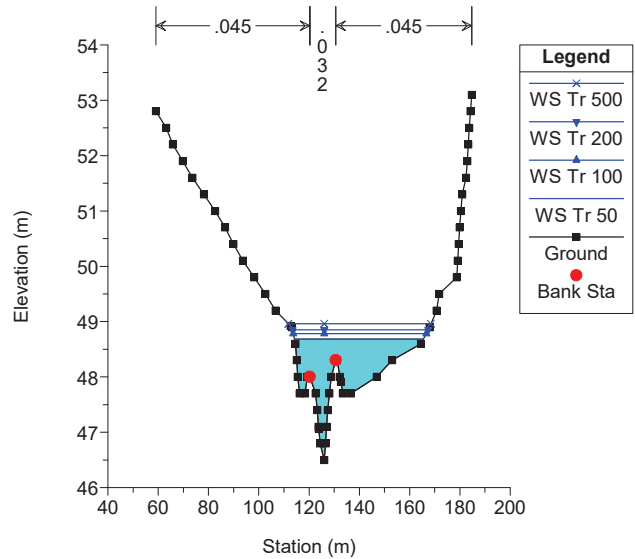
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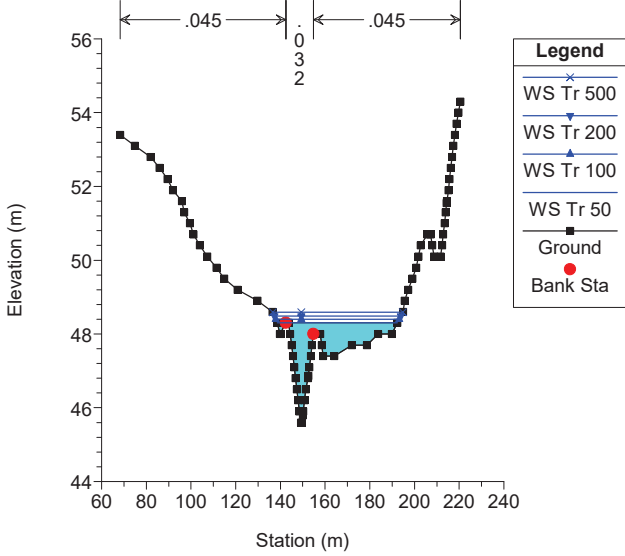
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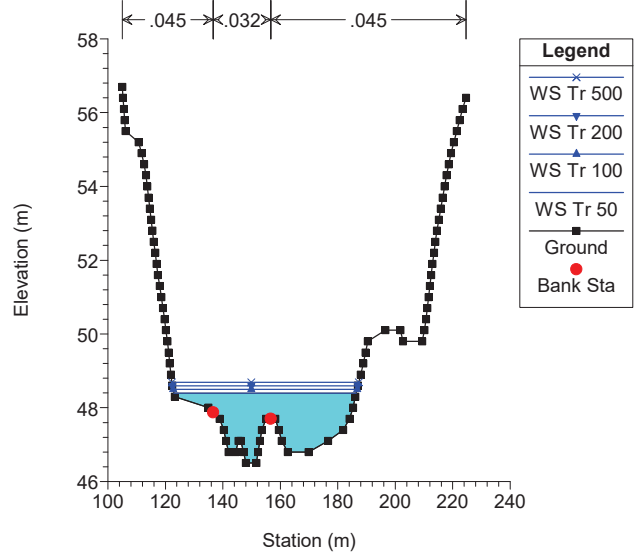
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Cuggiani Reach = Cuggiani_monte RS = 6484.26



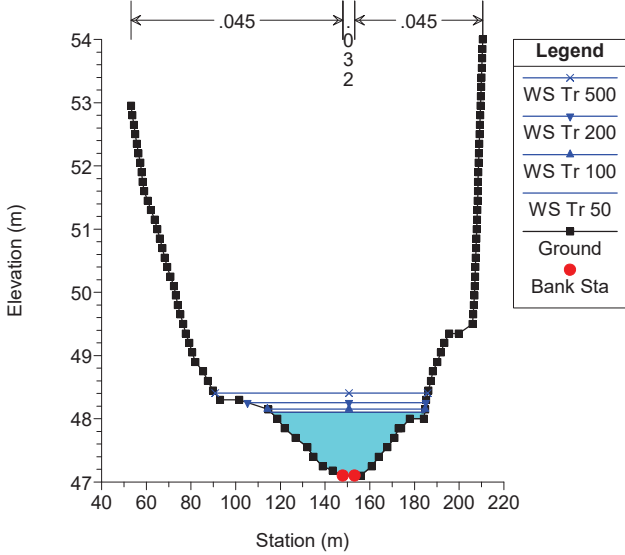
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 River = Cuggiani Reach = Cuggiani_monte RS = 6459.67



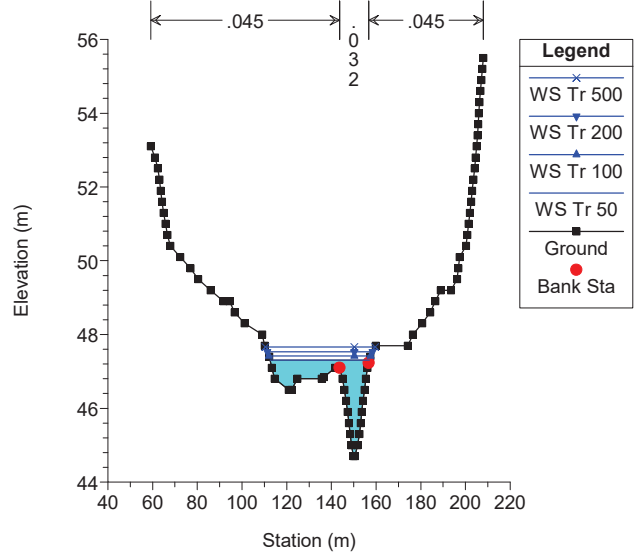
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 River = Cuggiani Reach = Cuggiani_monte RS = 6434.66



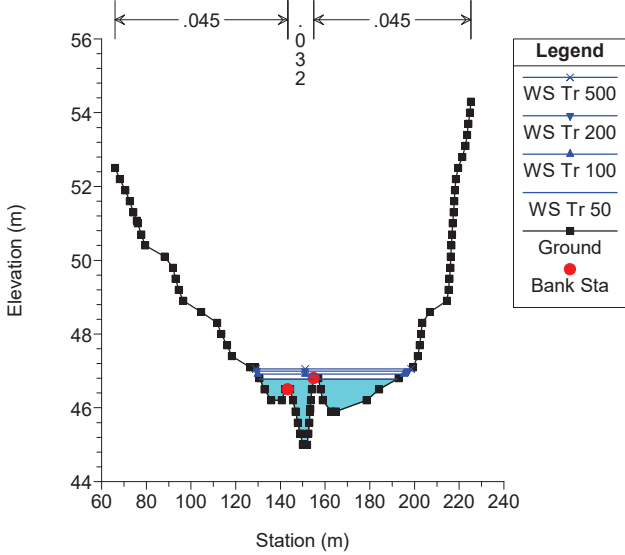
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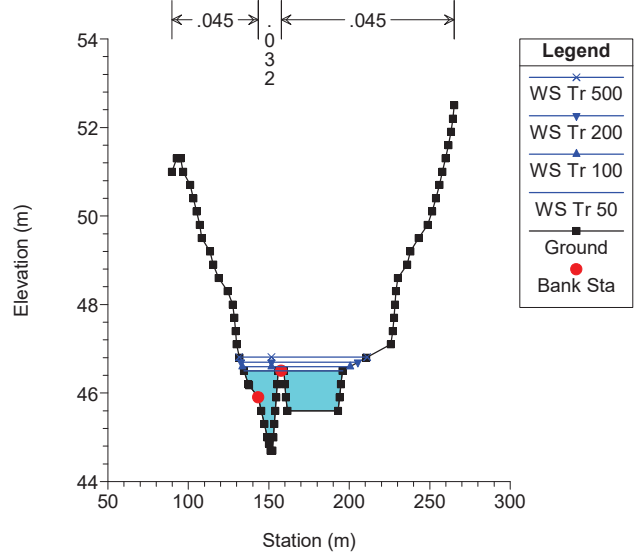
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 River = Cuggiani Reach = Cuggiani_monte RS = 6384.64

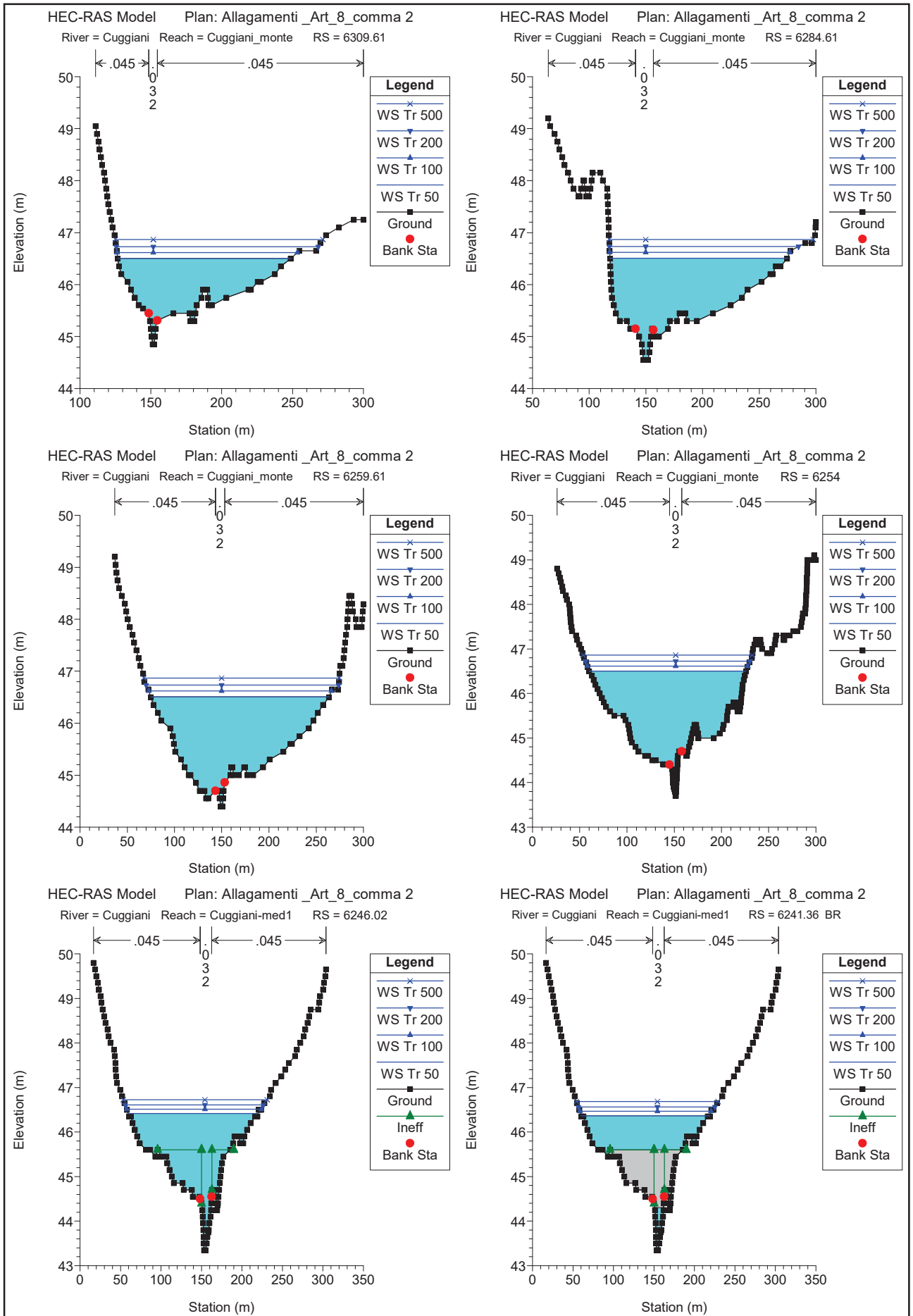


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 River = Cuggiani Reach = Cuggiani_monte RS = 6359.63

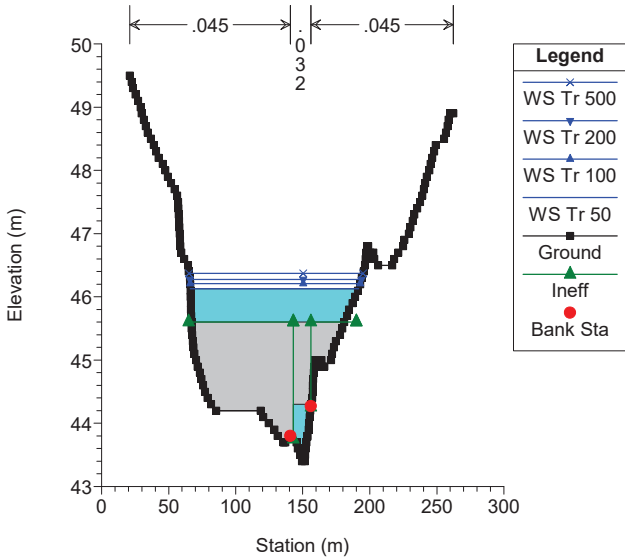


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 River = Cuggiani Reach = Cuggiani_monte RS = 6334.62

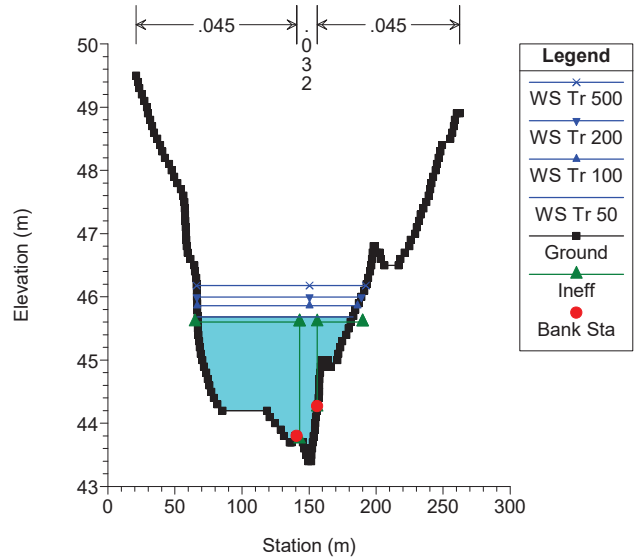




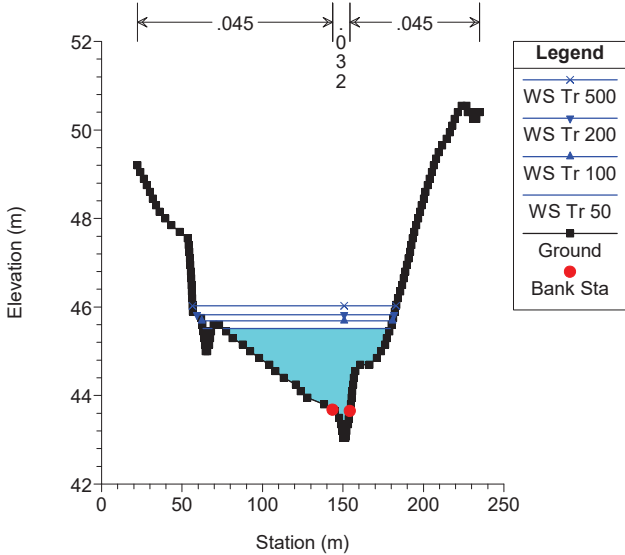
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 River = Cuggiani Reach = Cuggiani-med1 RS = 6241.36 BR



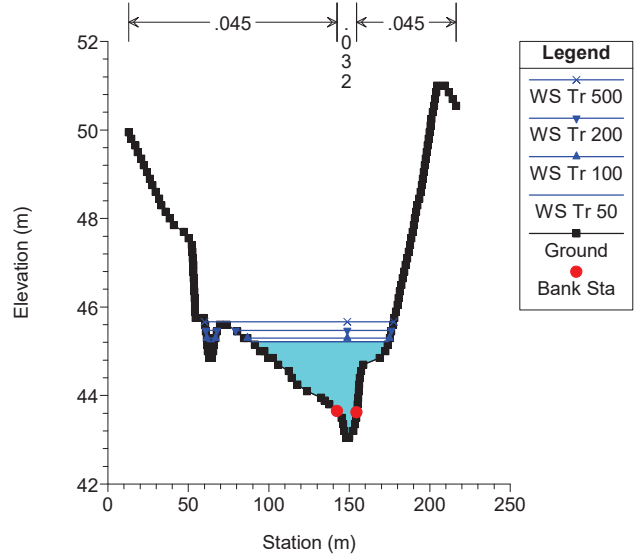
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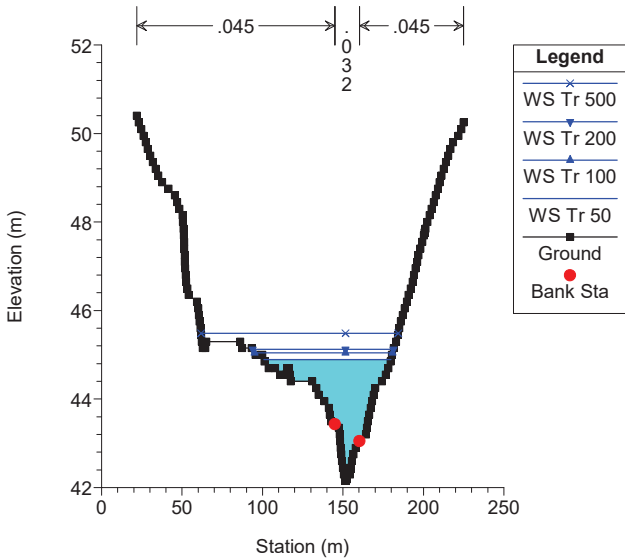
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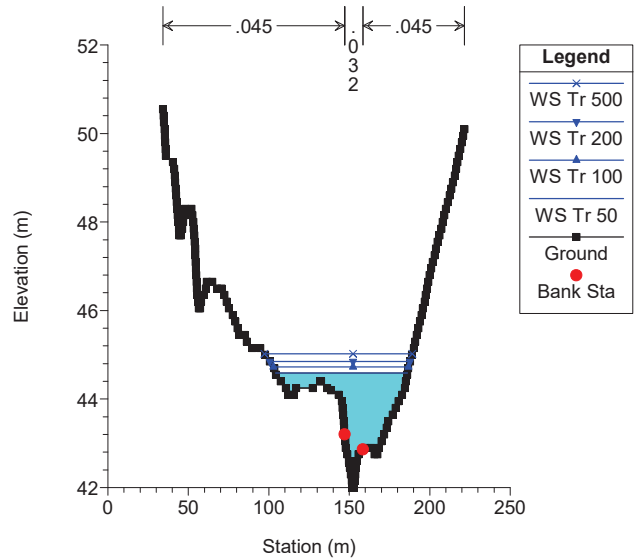
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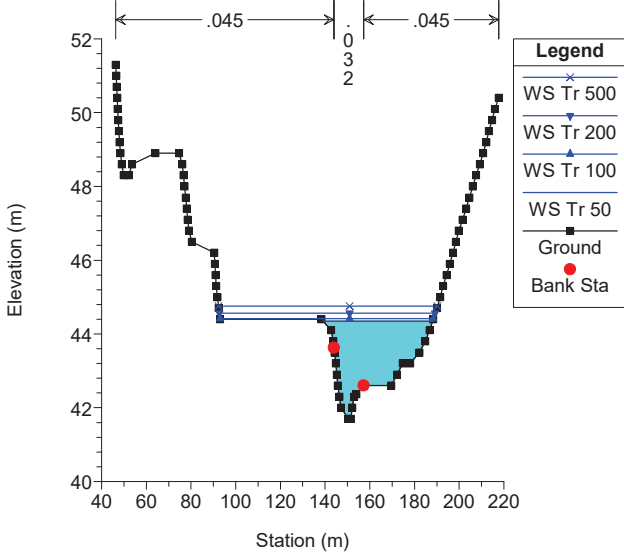
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 River = Cuggiani Reach = Cuggiani-med1 RS = 6176.33



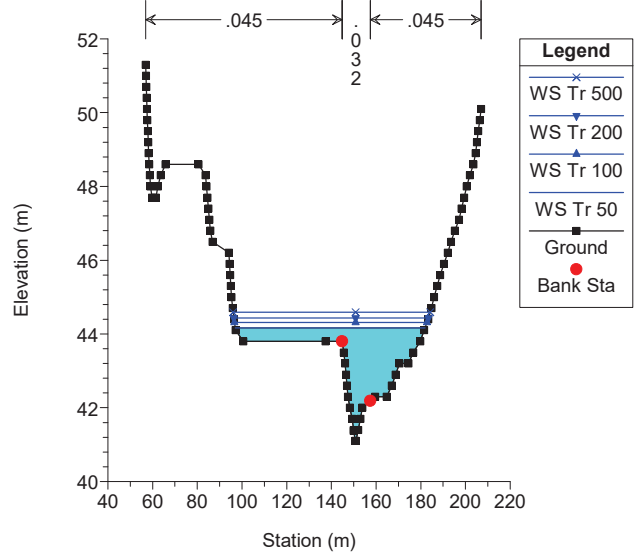
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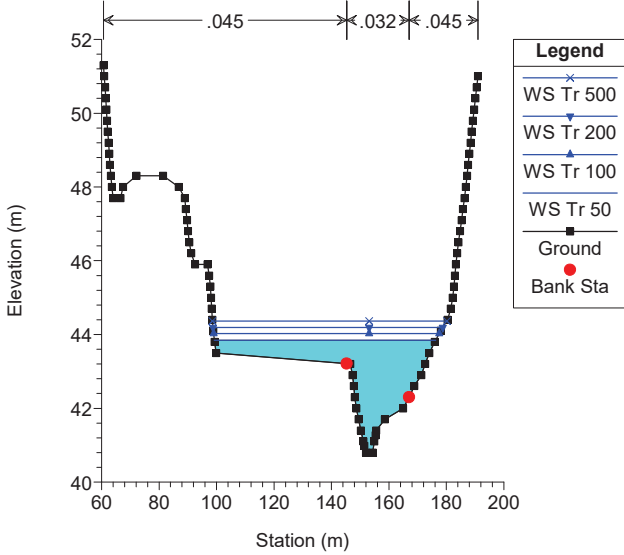
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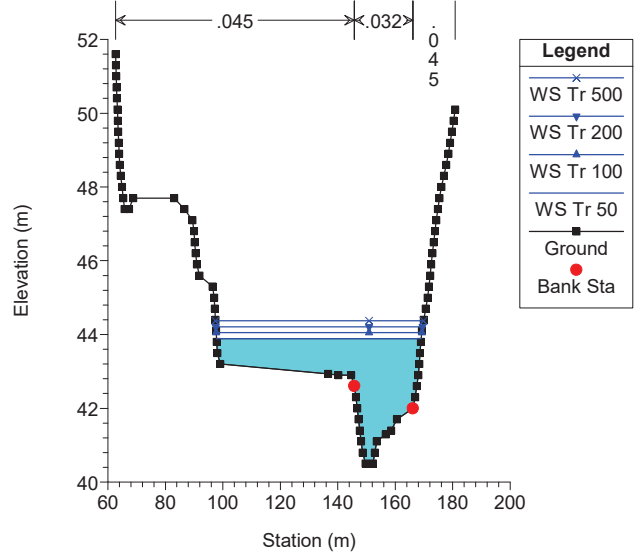
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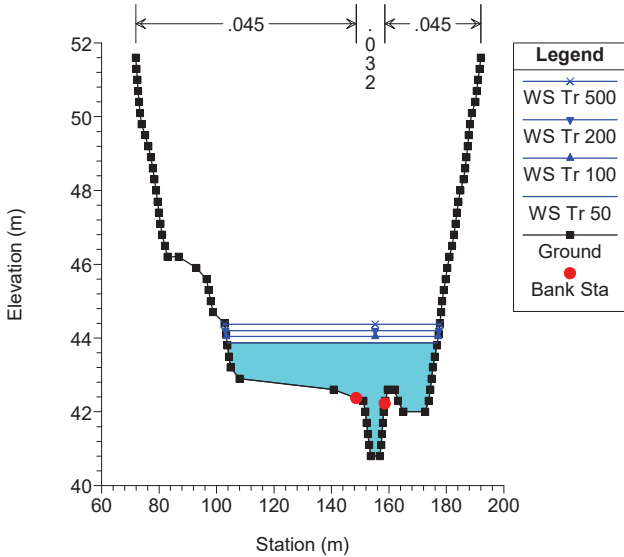
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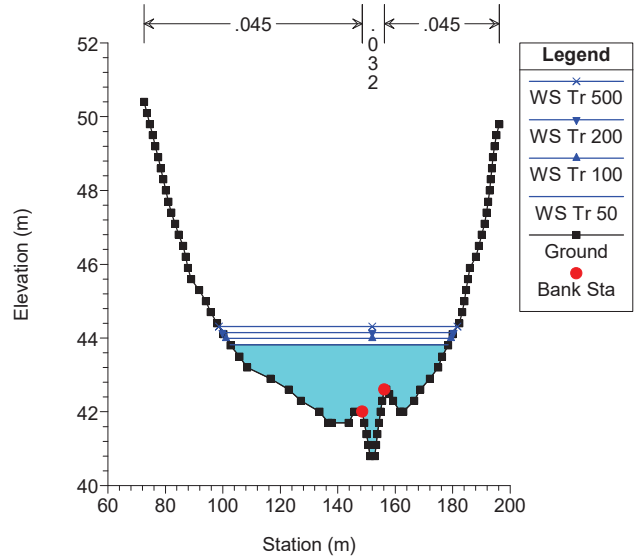
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 River = Cuggiani Reach = Cuggiani-med1 RS = 6053.42



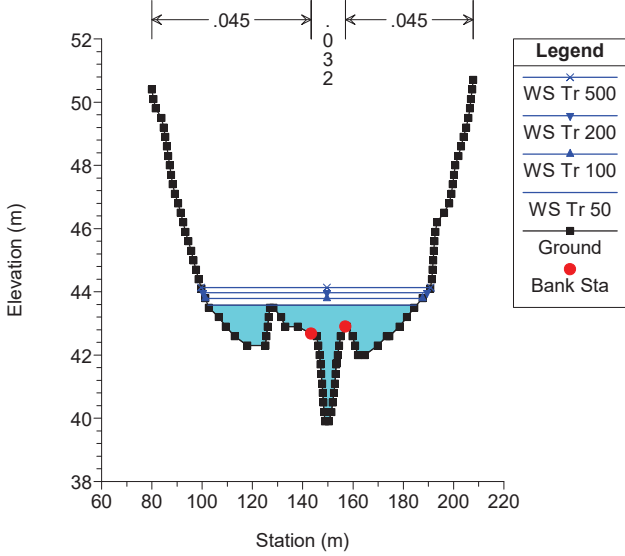
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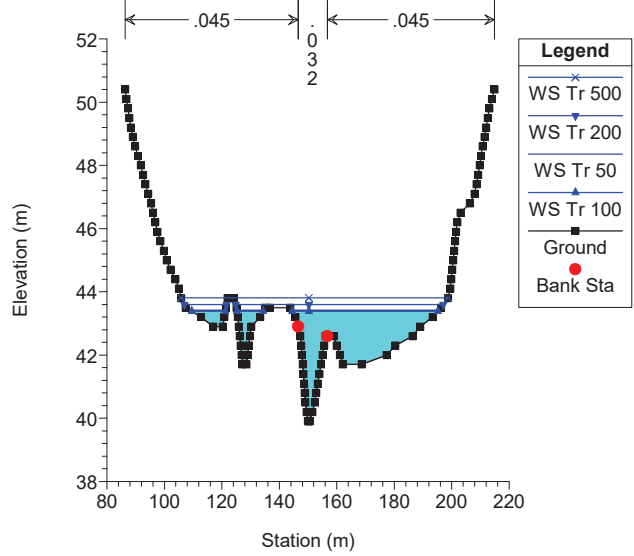
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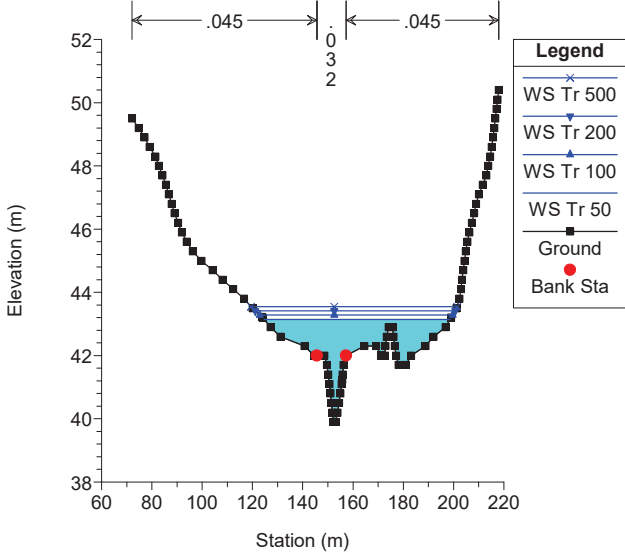
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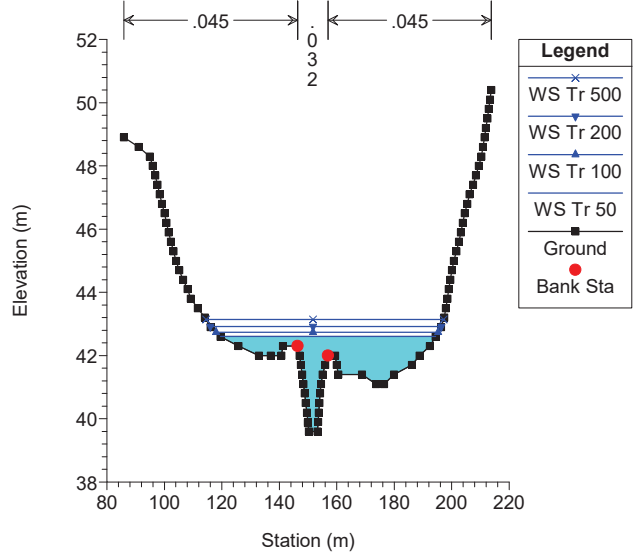
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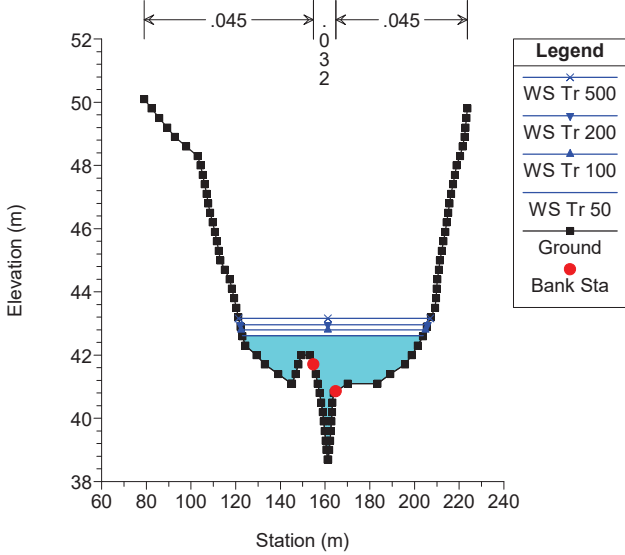
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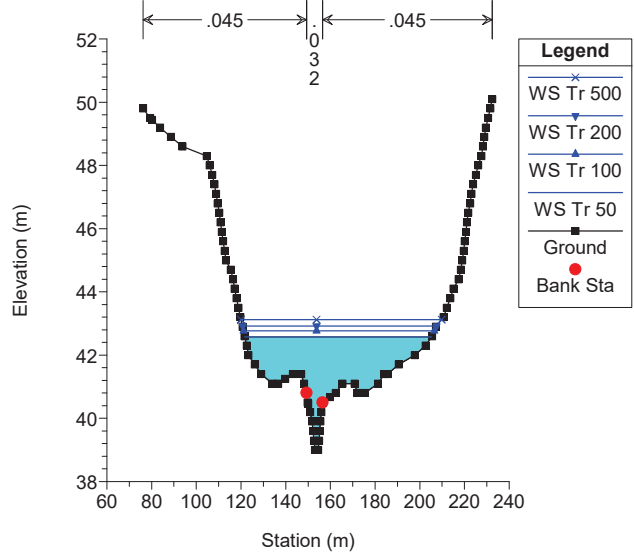
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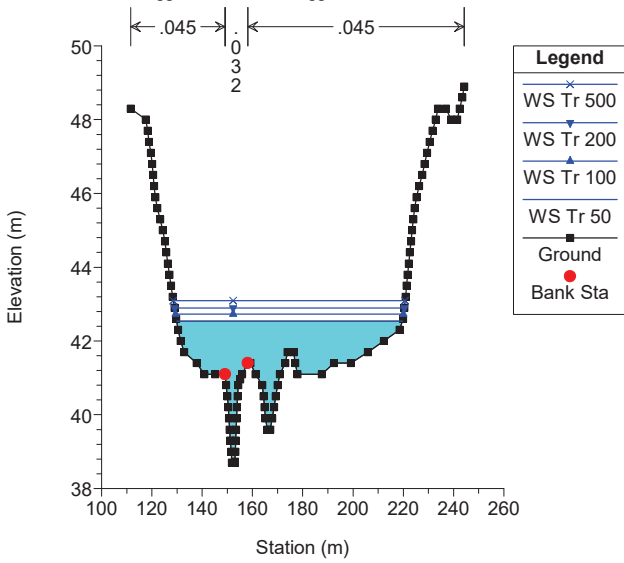
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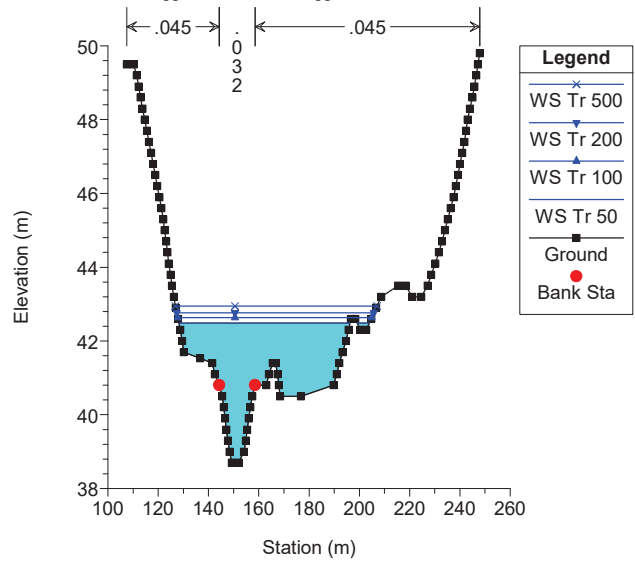
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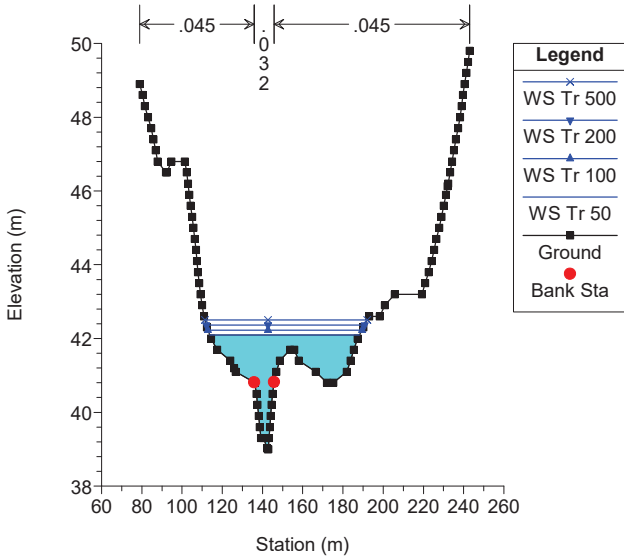
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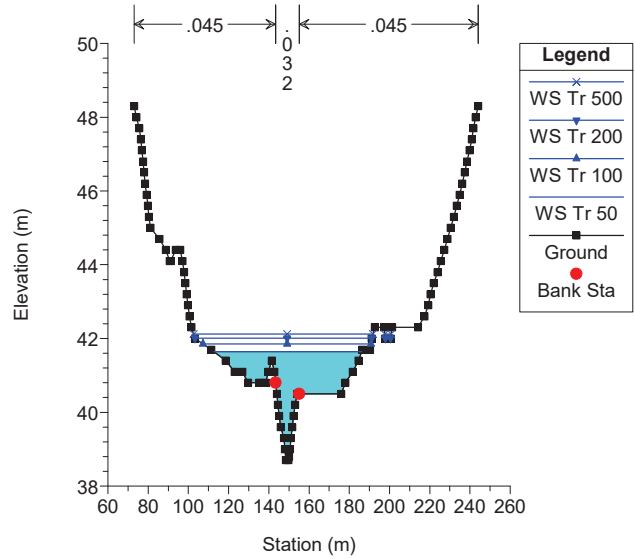
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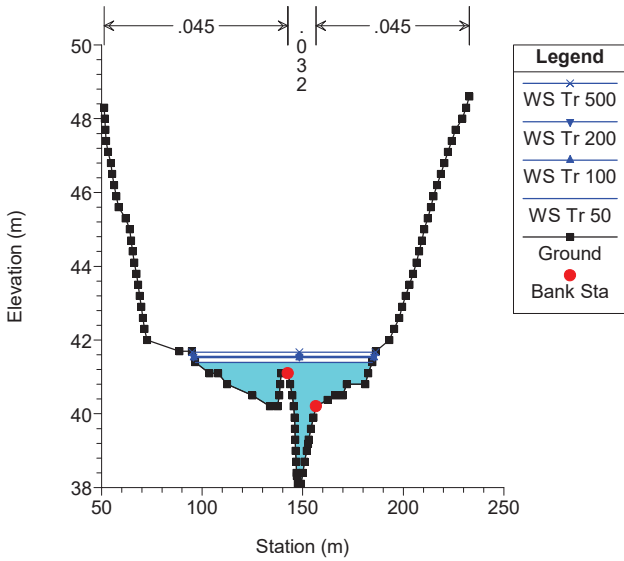
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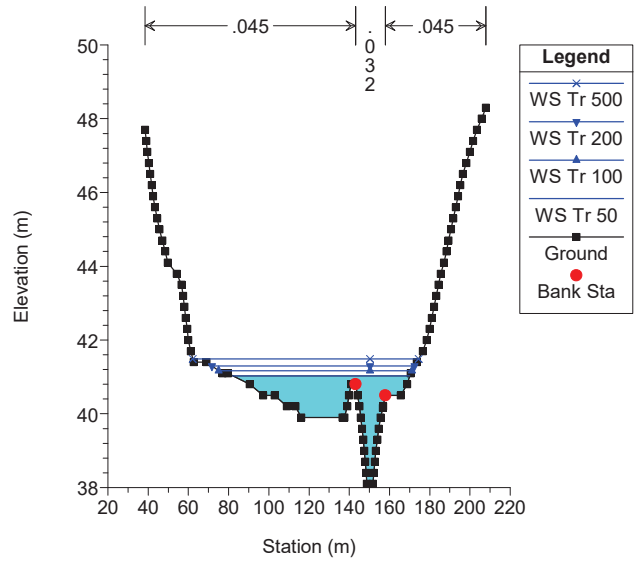
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 River = Cuggiani Reach = Cuggiani-med1 RS = 5753.3

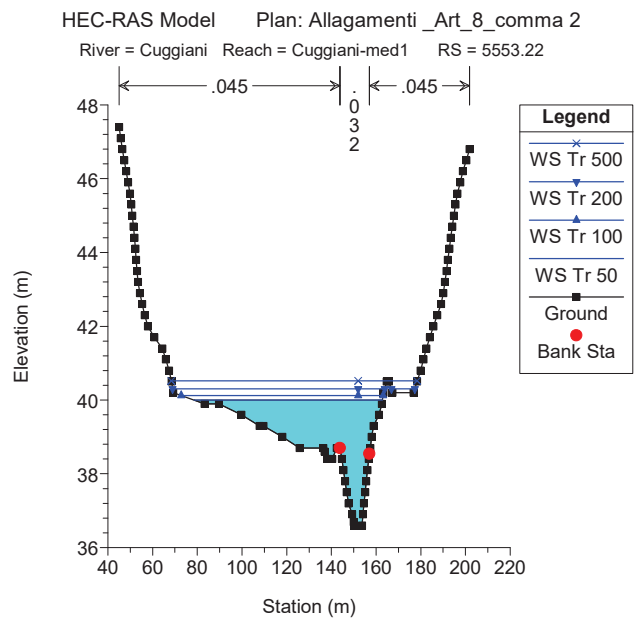
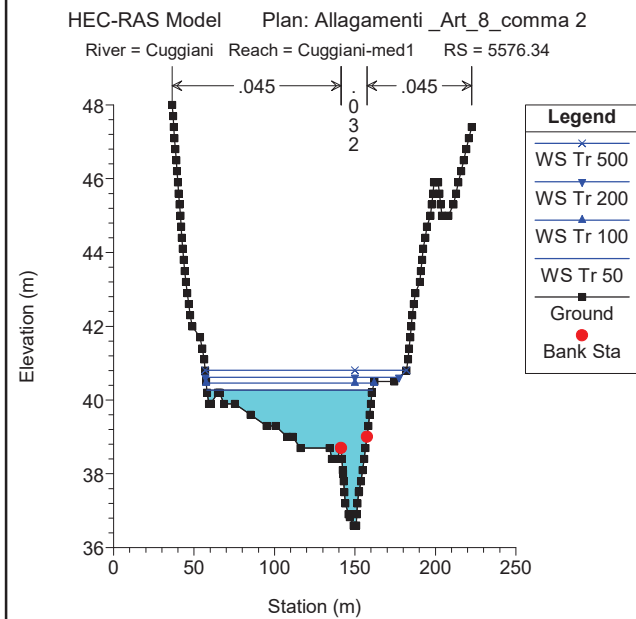
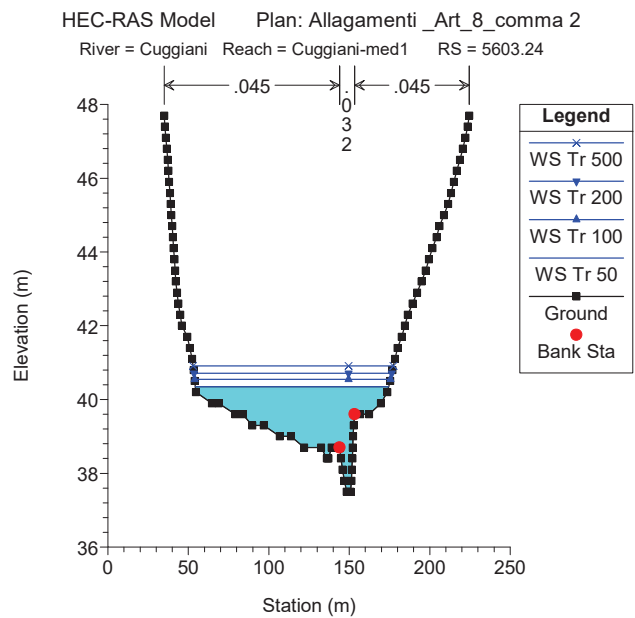
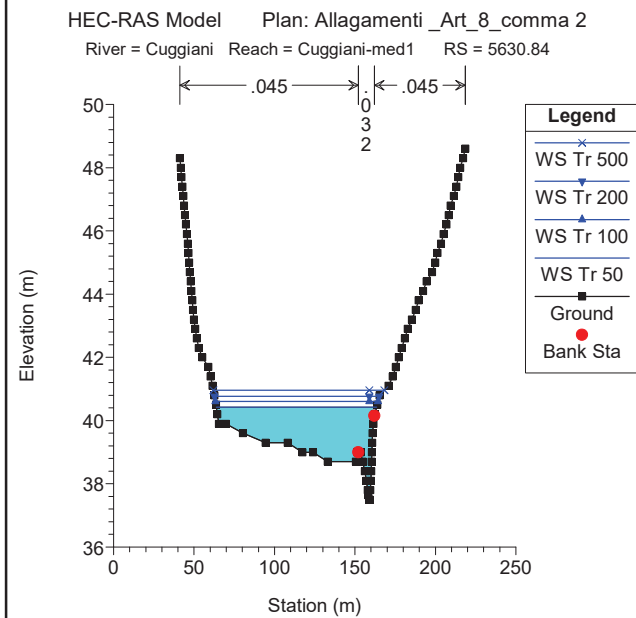
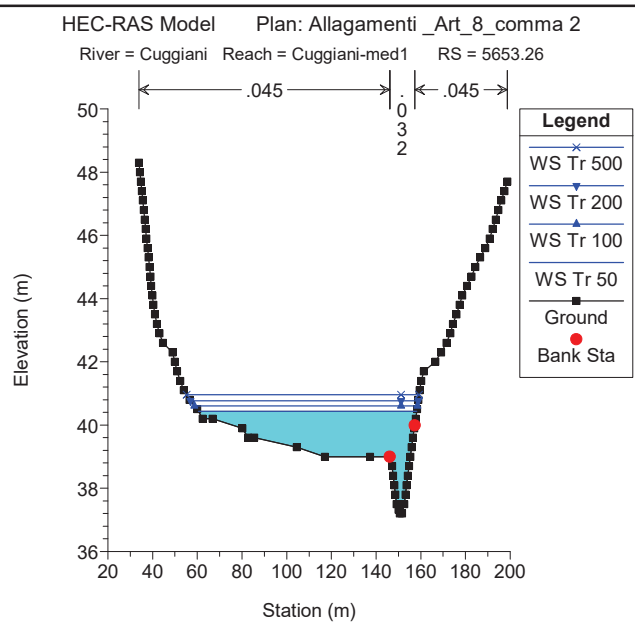
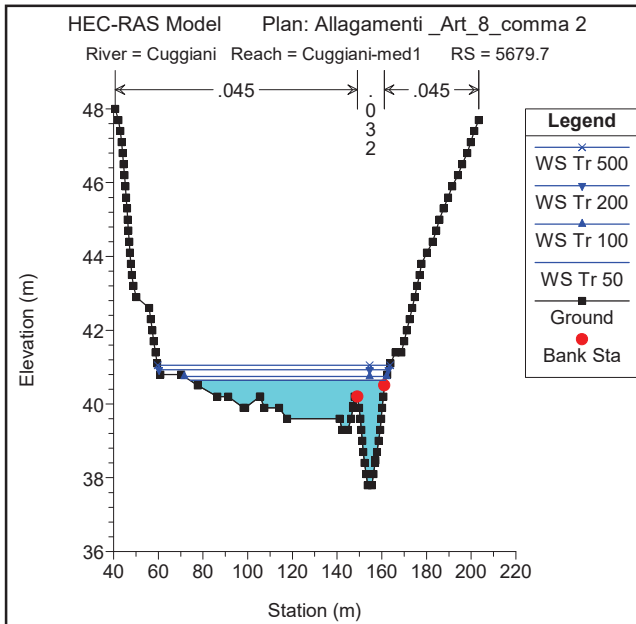


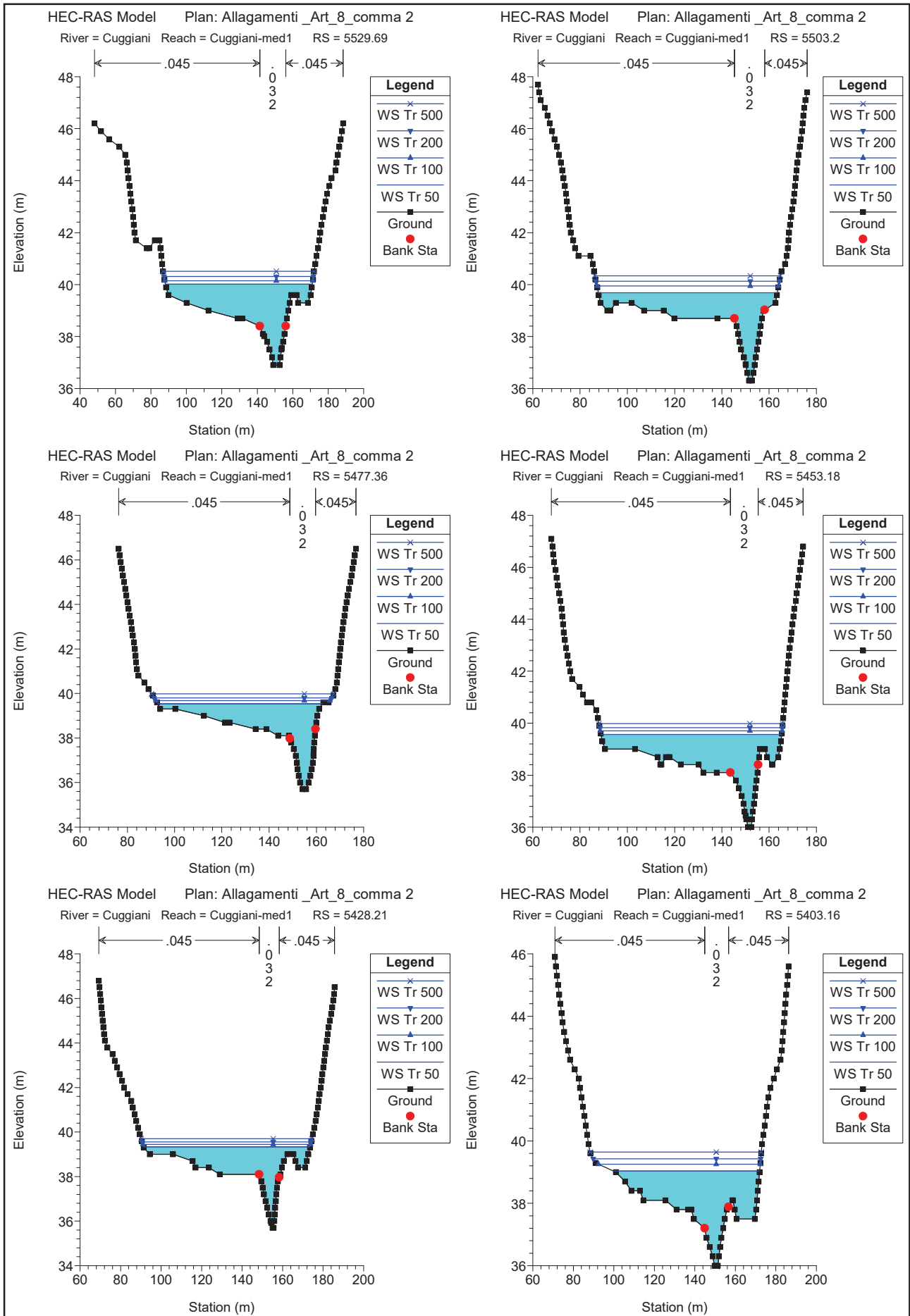
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 River = Cuggiani Reach = Cuggiani-med1 RS = 5729.86



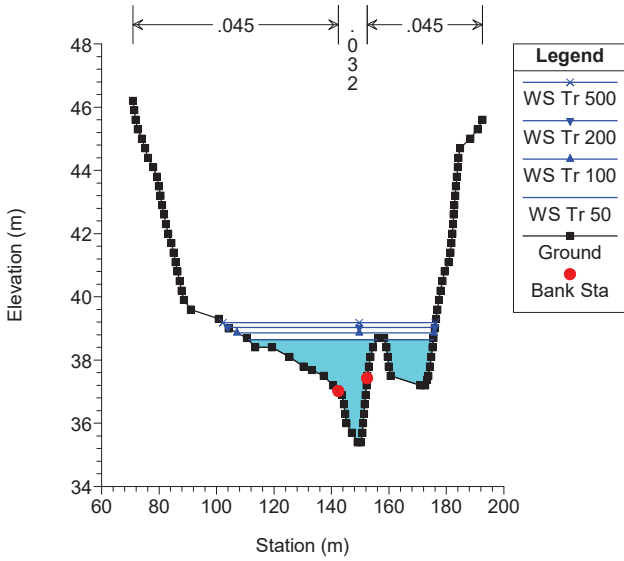
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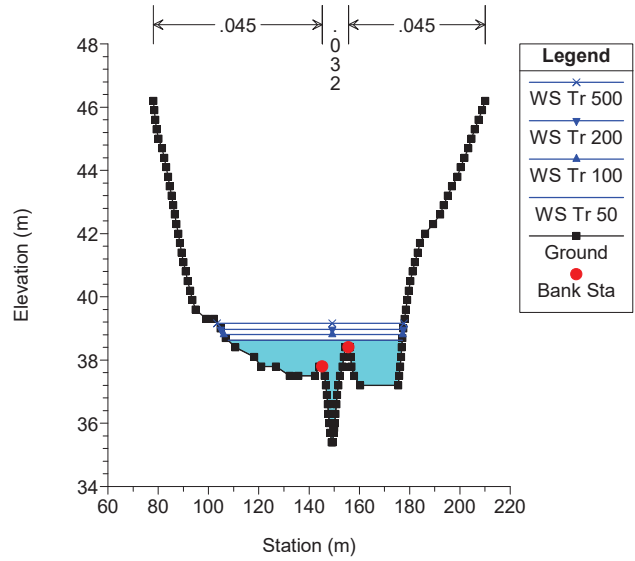




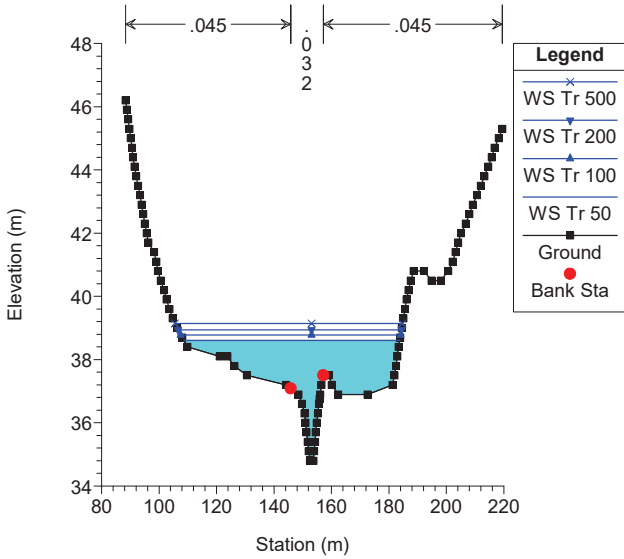
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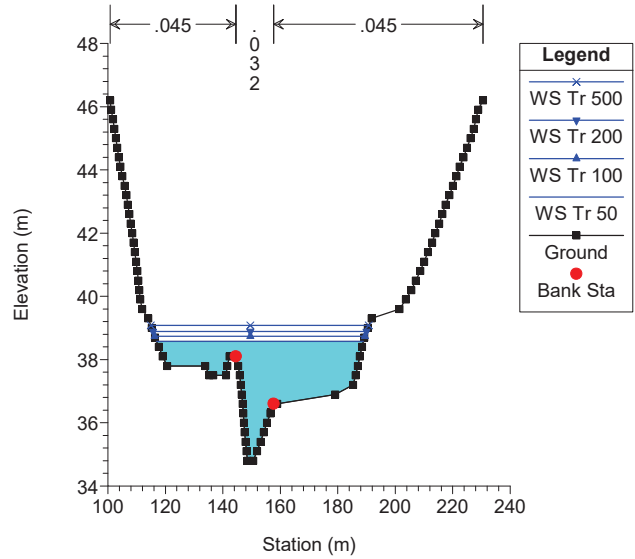
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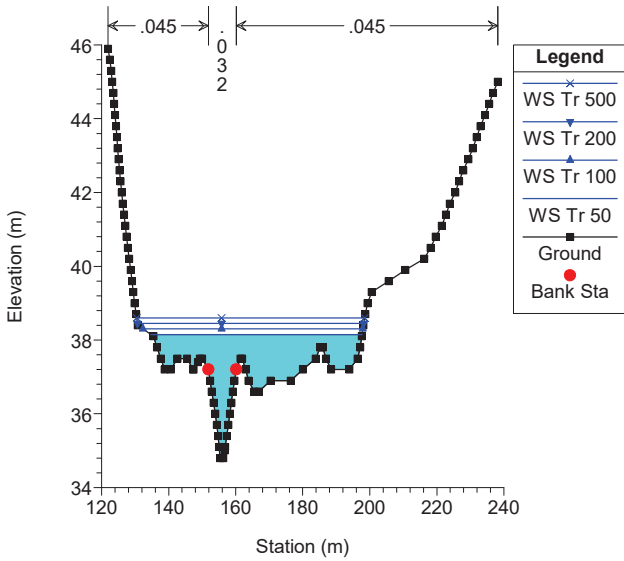
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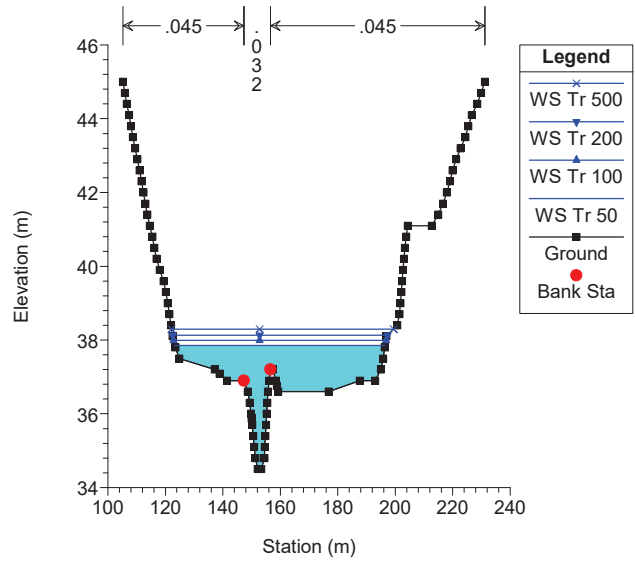
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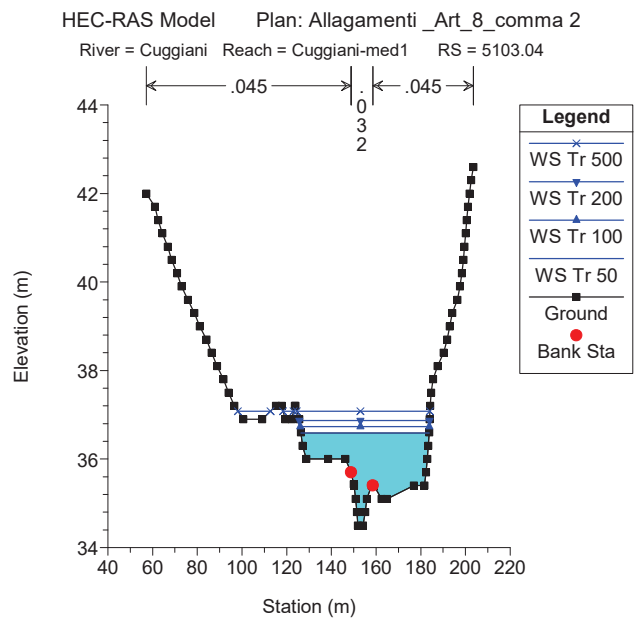
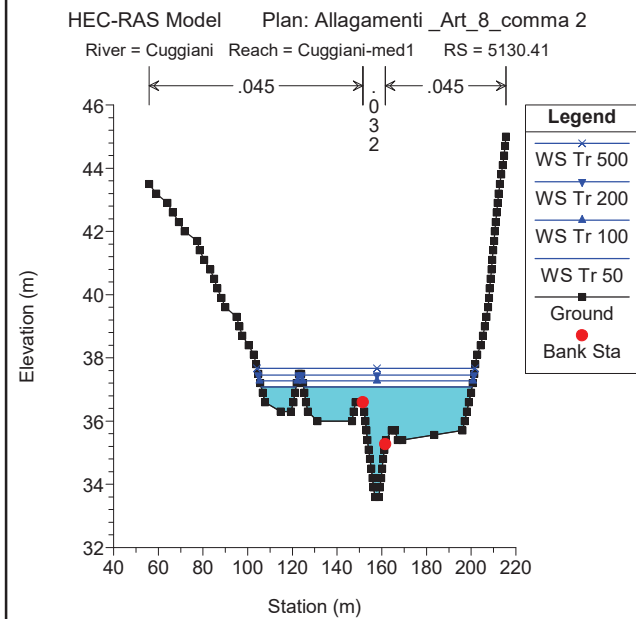
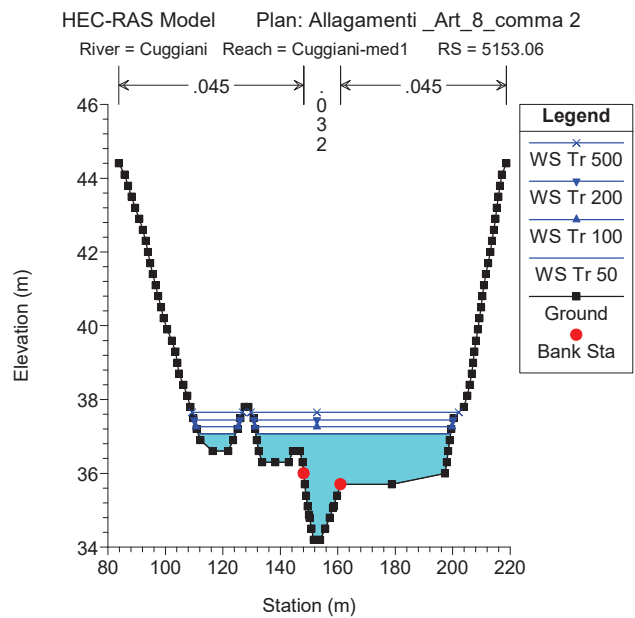
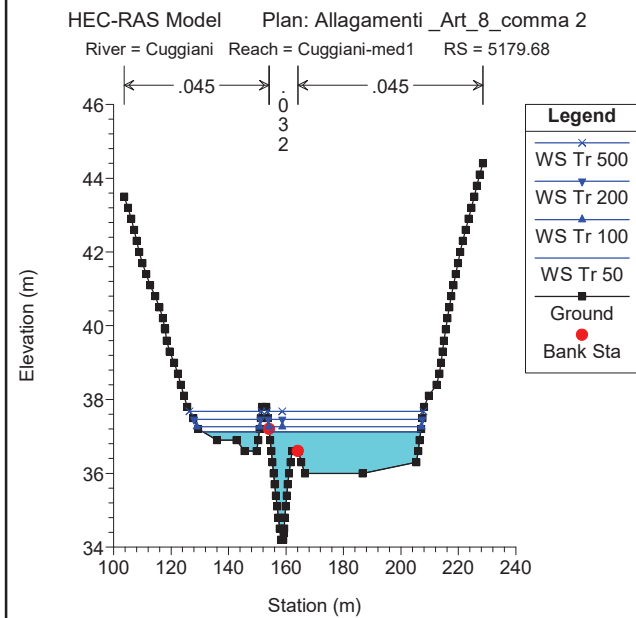
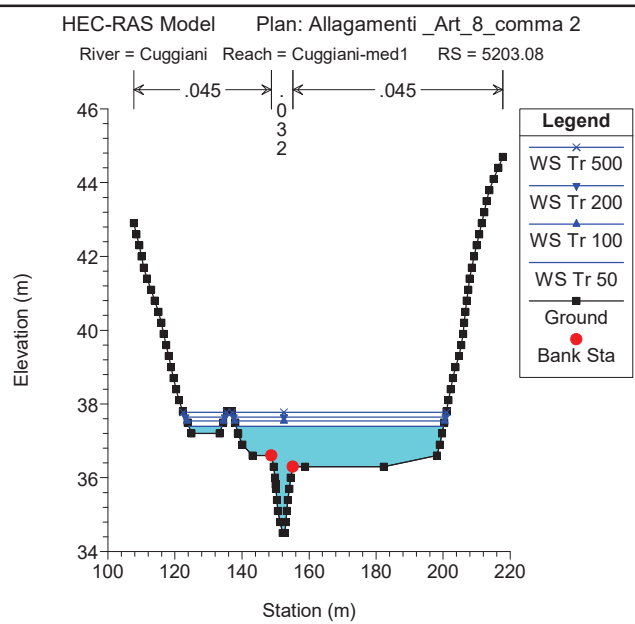
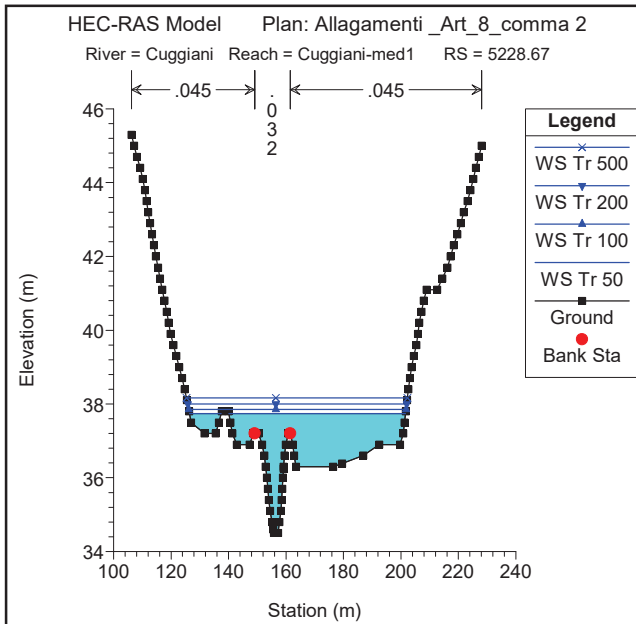


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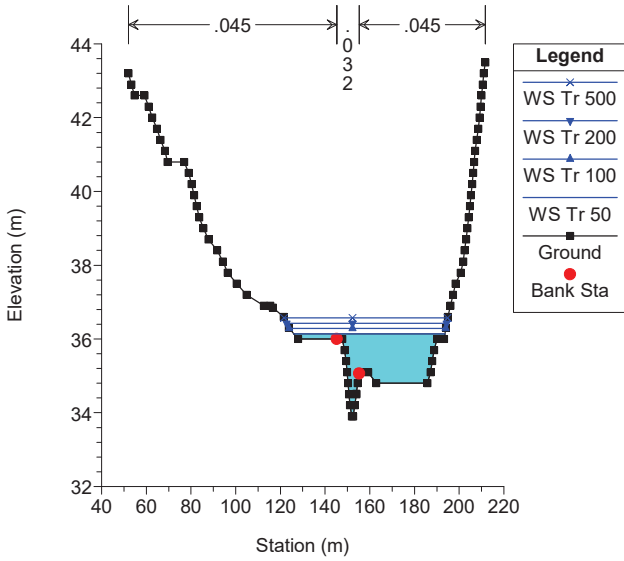


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 River = Cuggiani Reach = Cuggiani-med1 RS = 5253.1

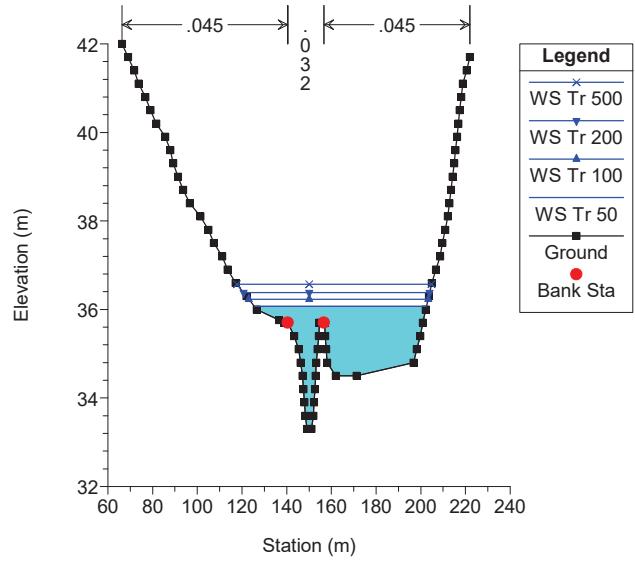




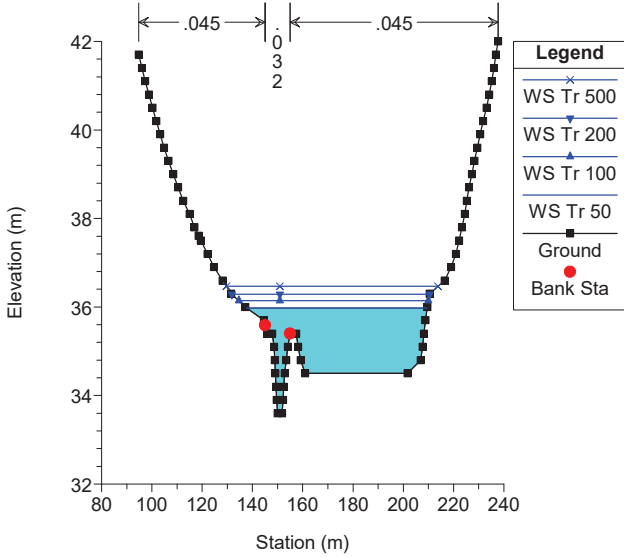
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 River = Cuggiani Reach = Cuggiani-med1 RS = 5078.87



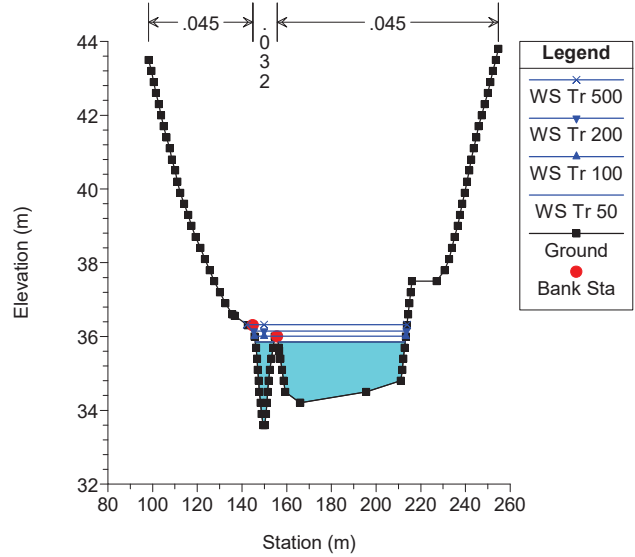
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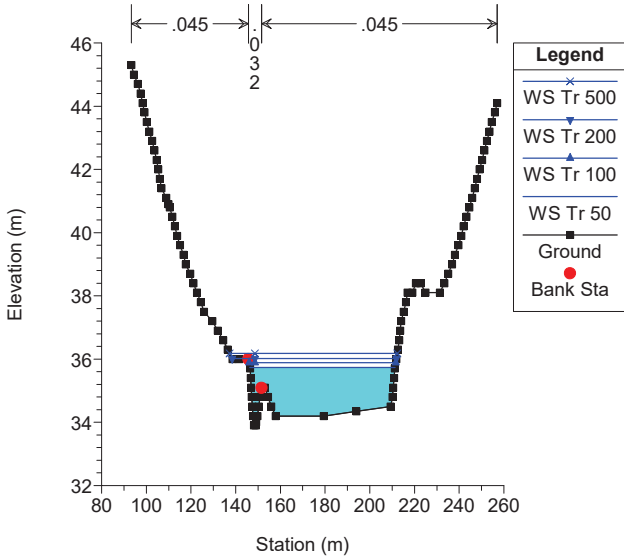
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 River = Cuggiani Reach = Cuggiani-med1 RS = 5029.98



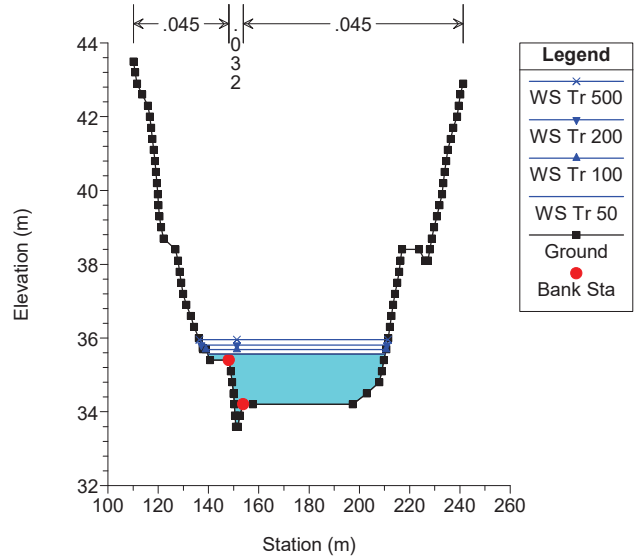
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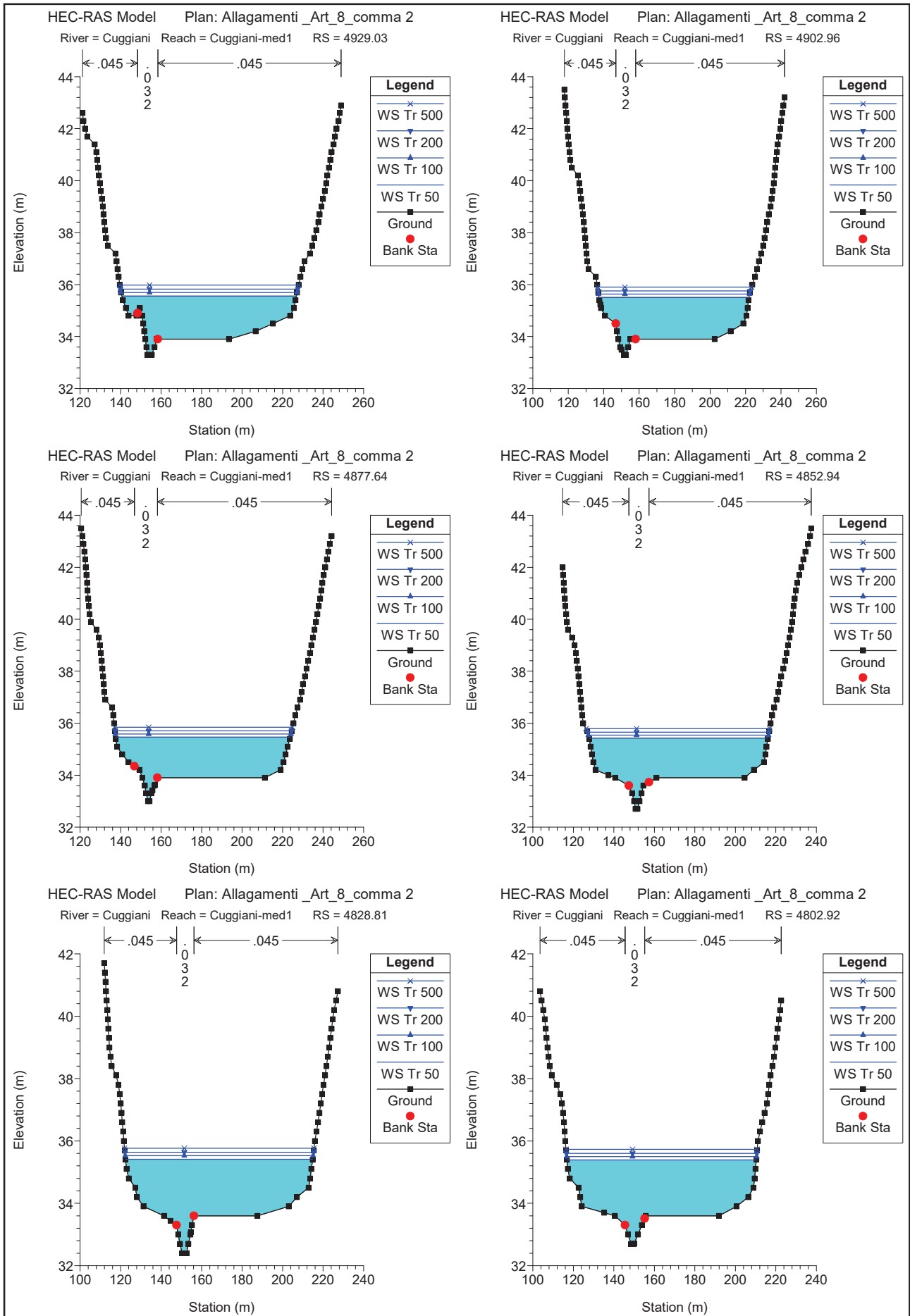


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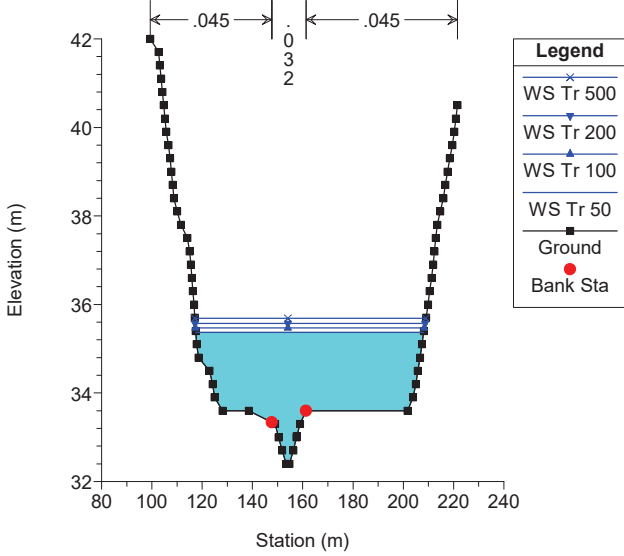


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 River = Cuggiani Reach = Cuggiani-med1 RS = 4952.98

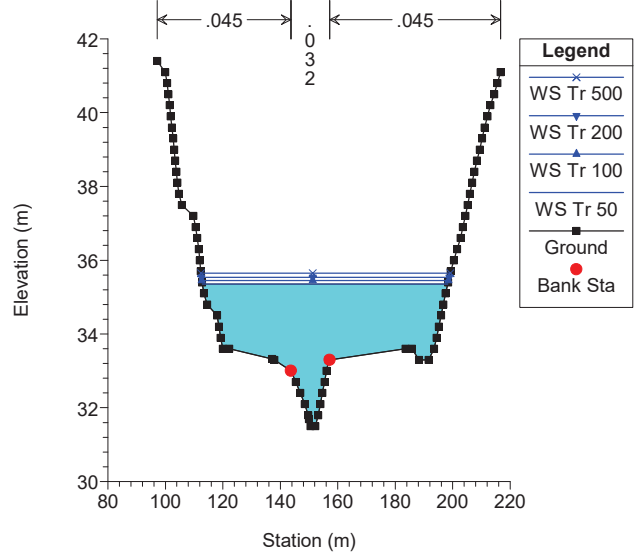




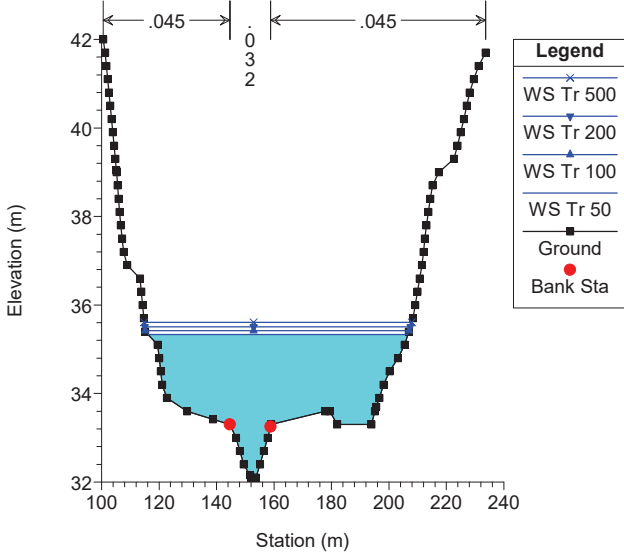
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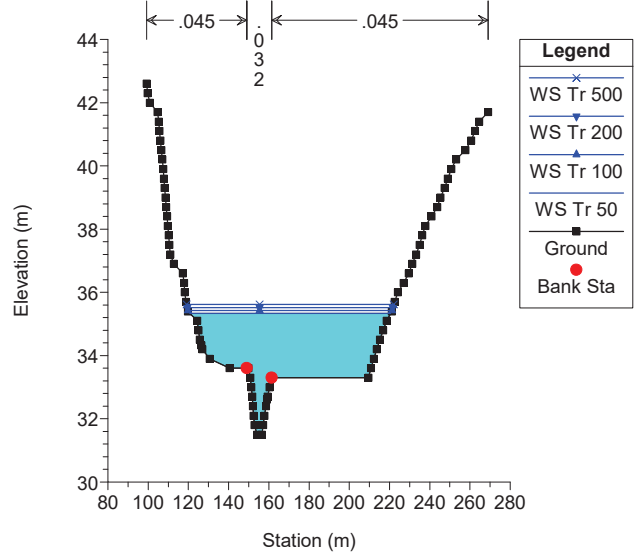
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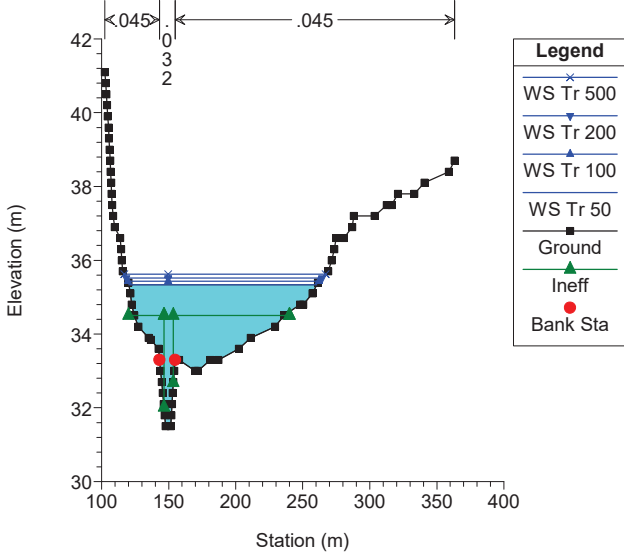
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med1 RS = 4730.42



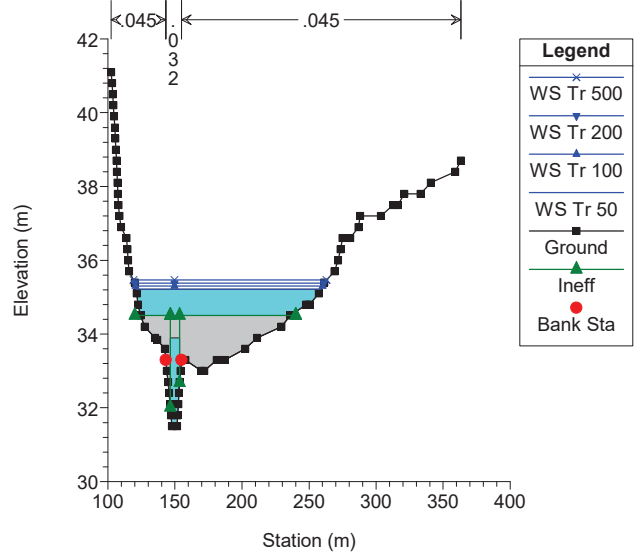
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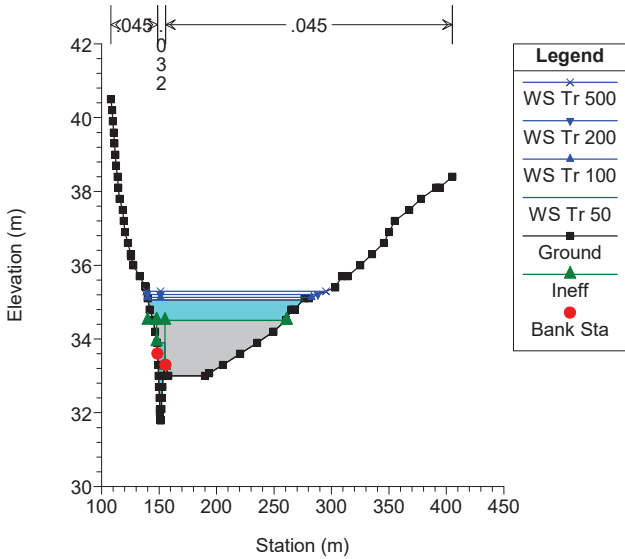
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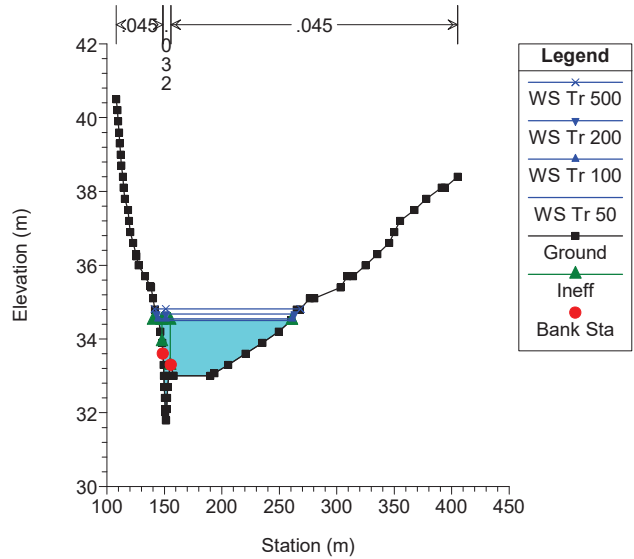
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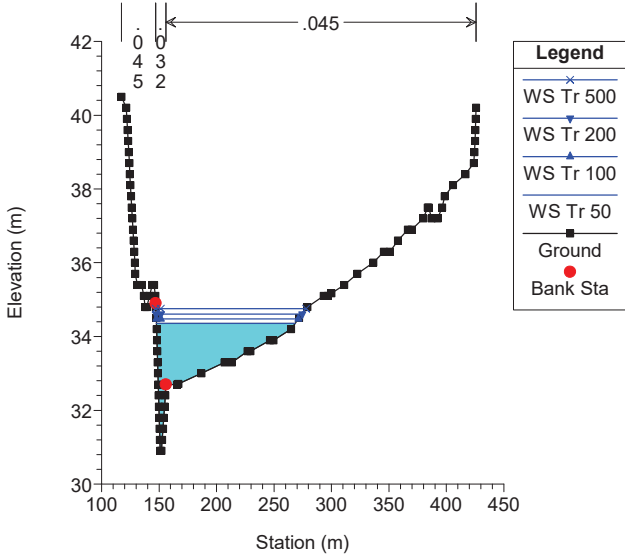
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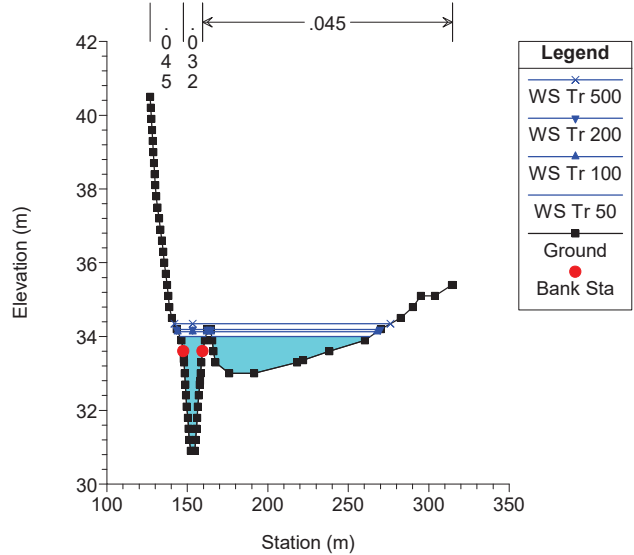
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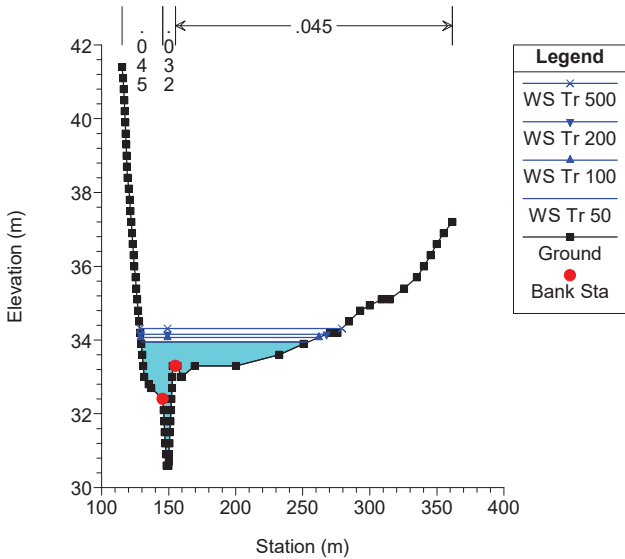
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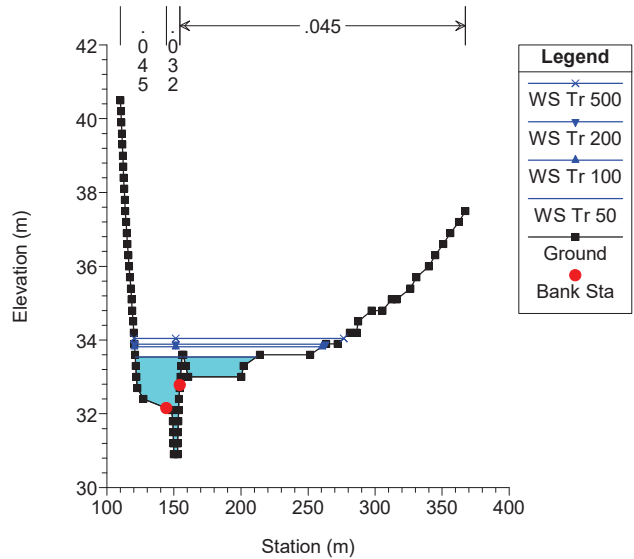
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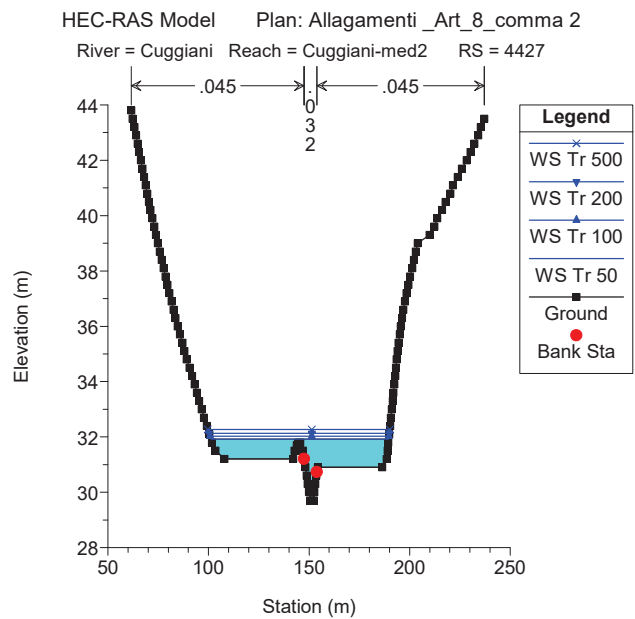
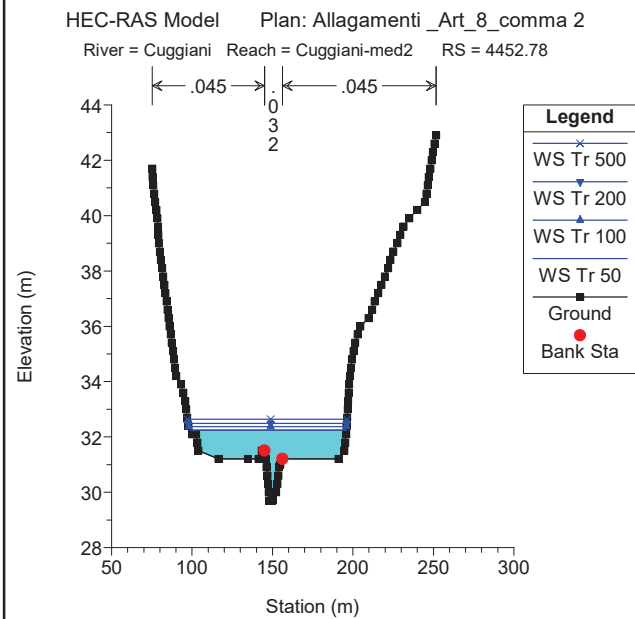
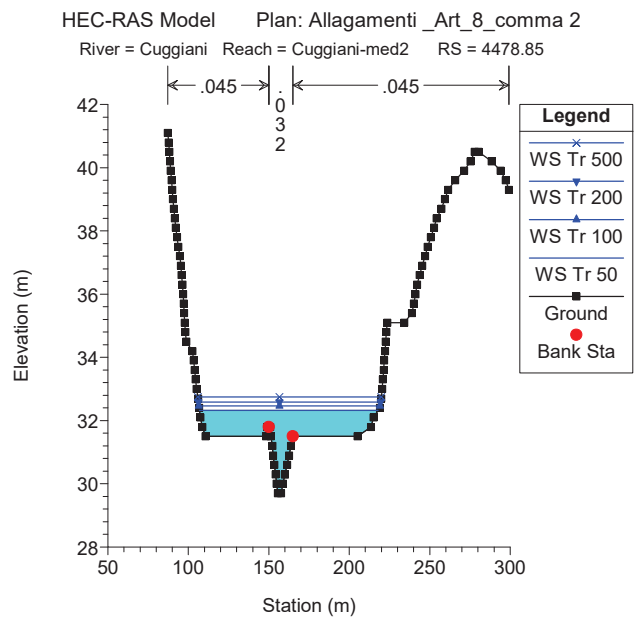
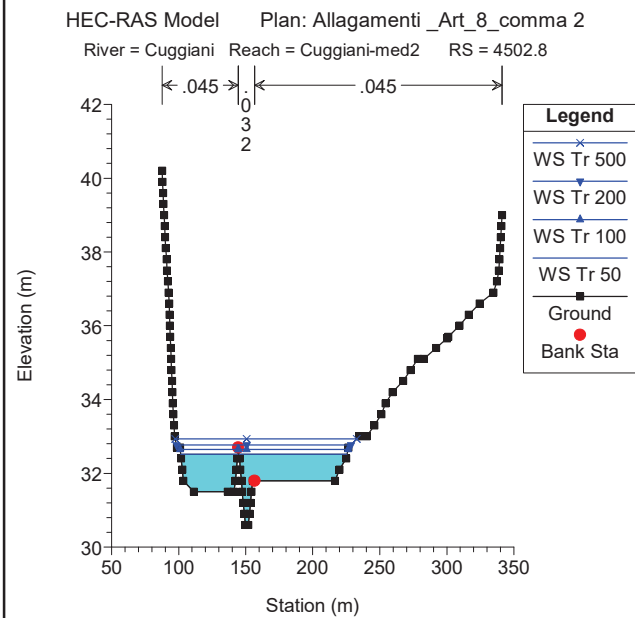
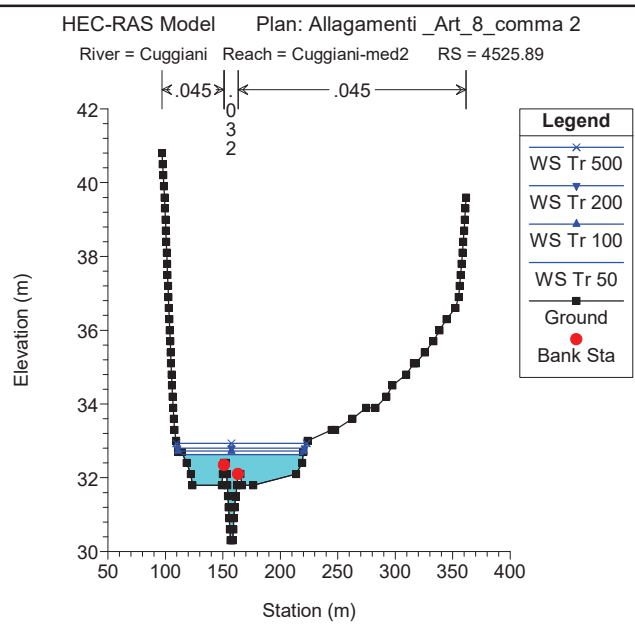
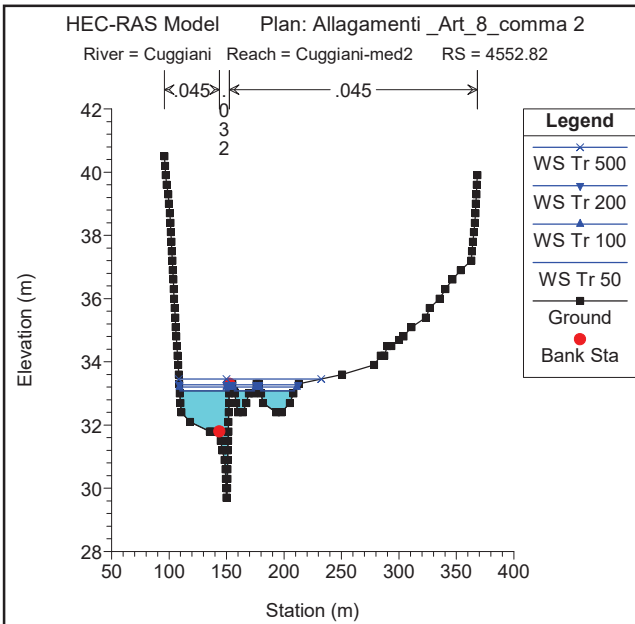


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 River = Cuggiani Reach = Cuggiani-med2 RS = 4602.84

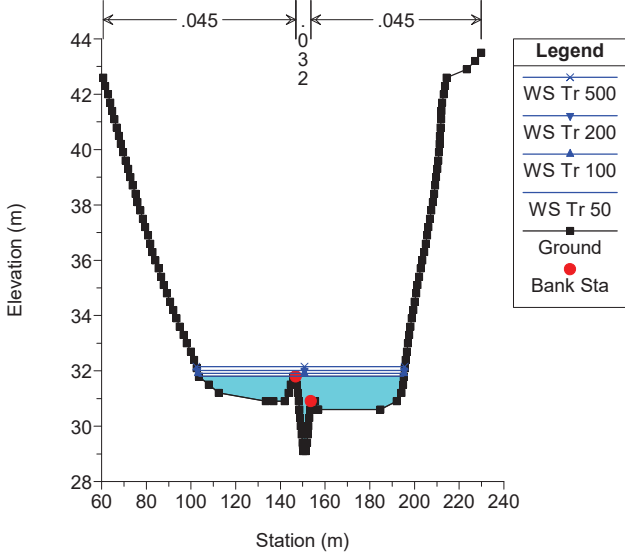


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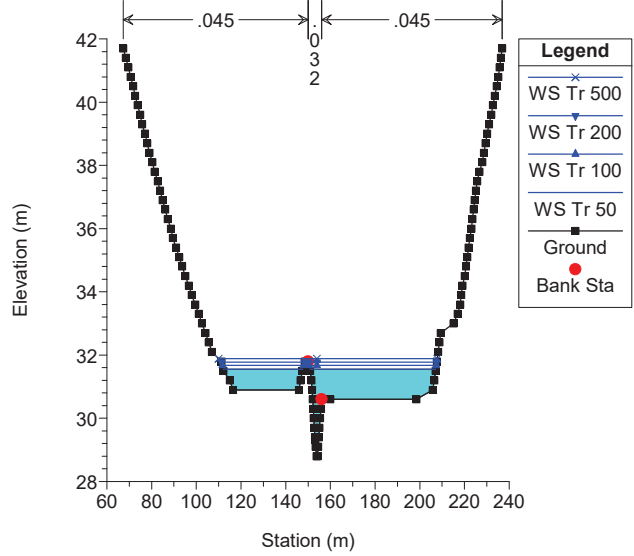




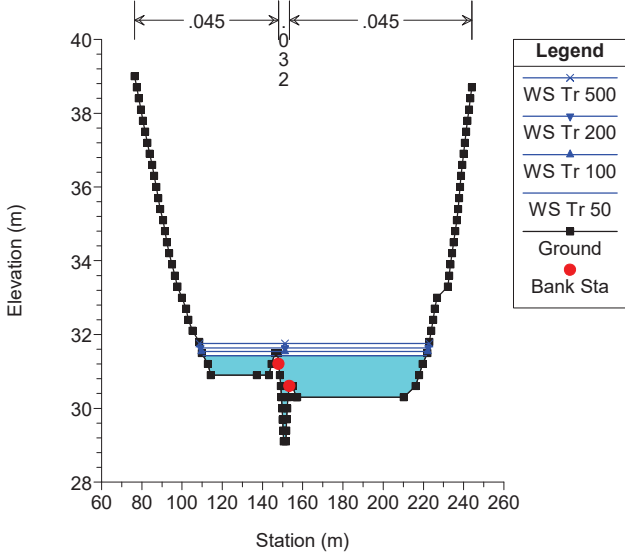
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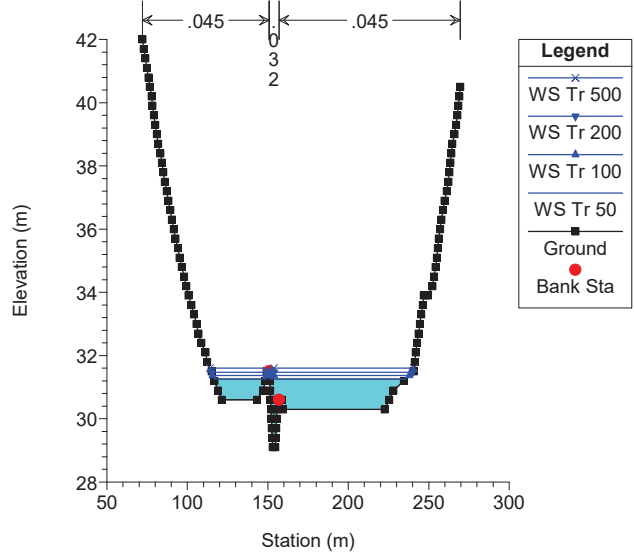
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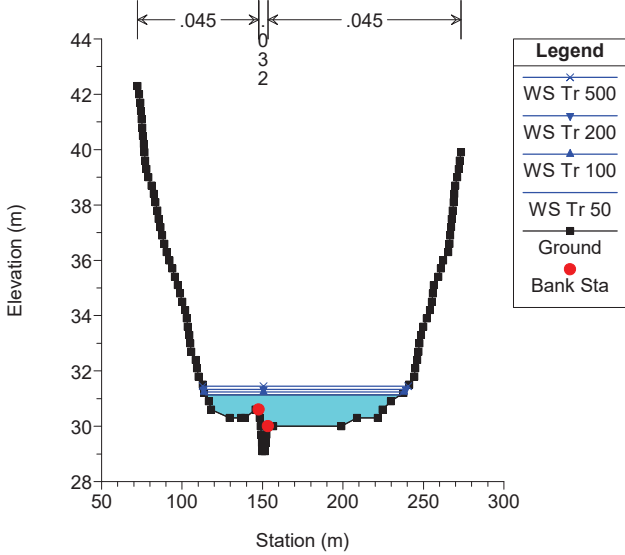
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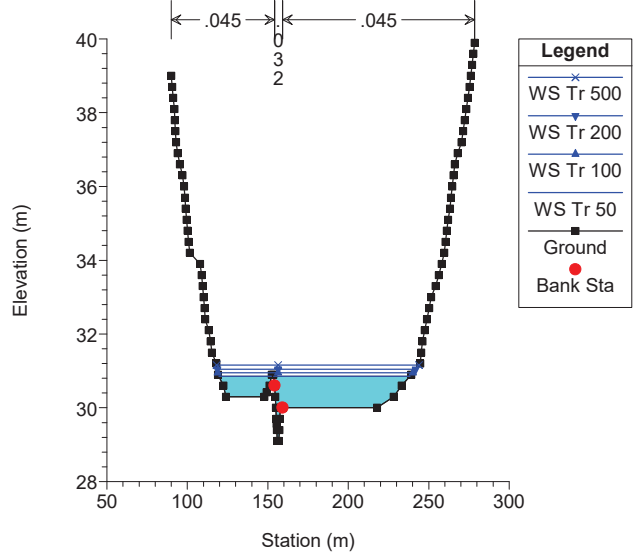
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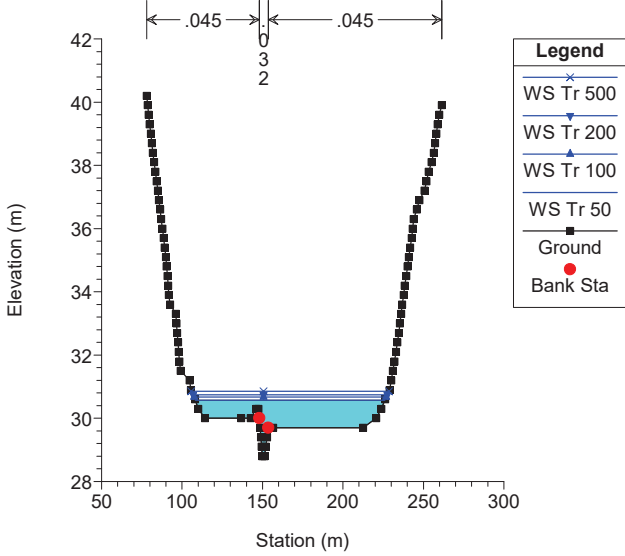
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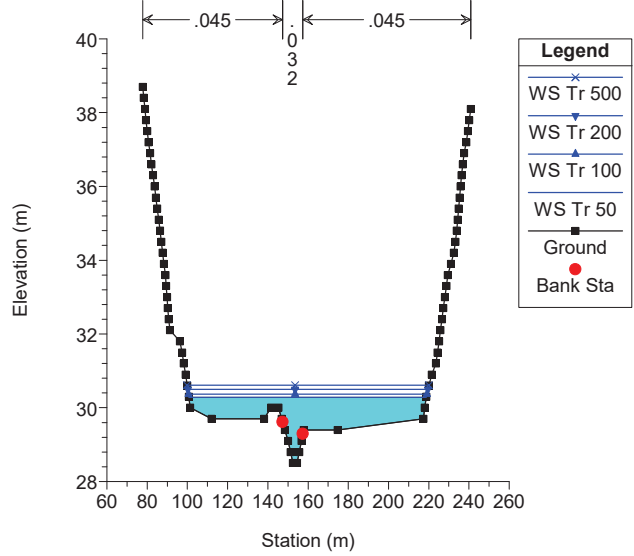
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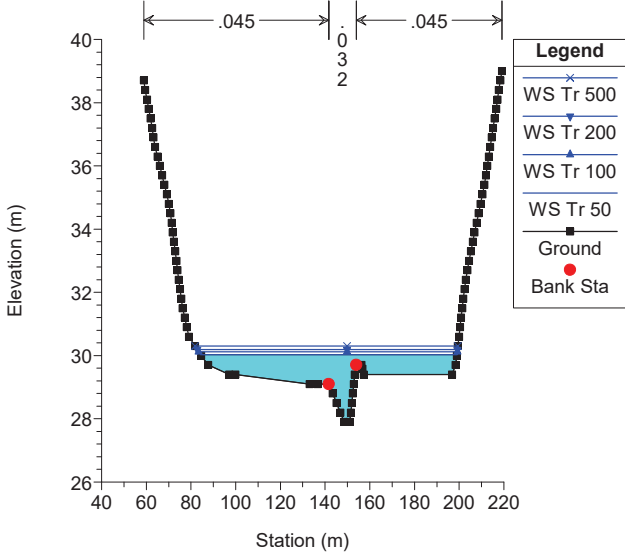
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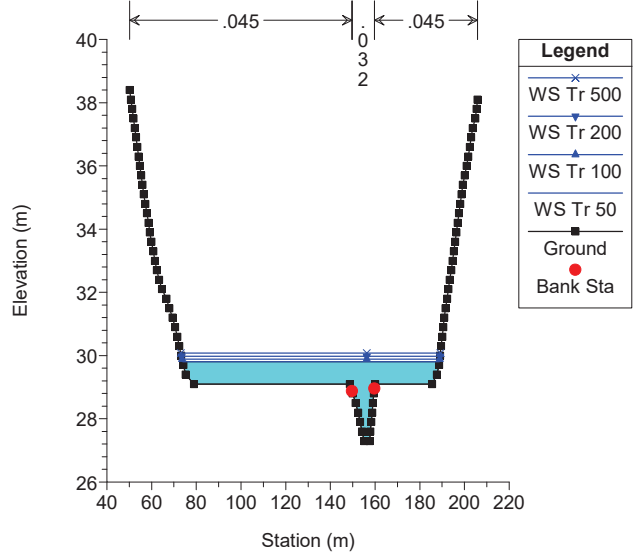
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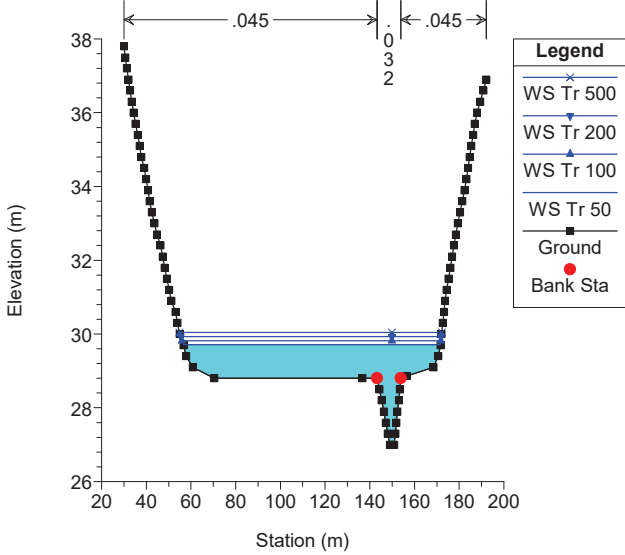
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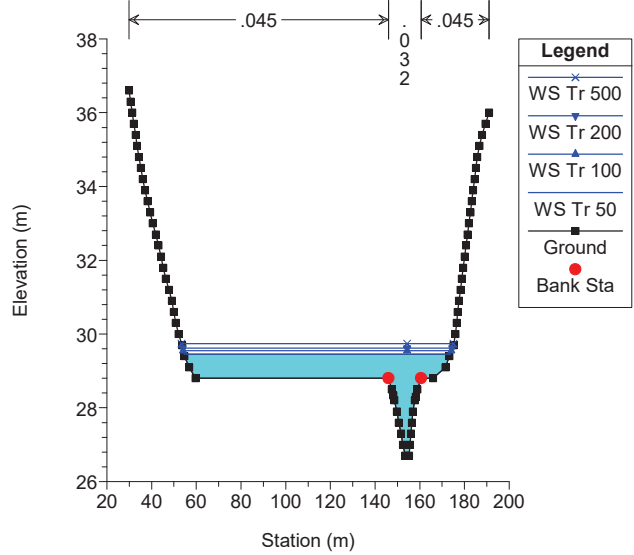
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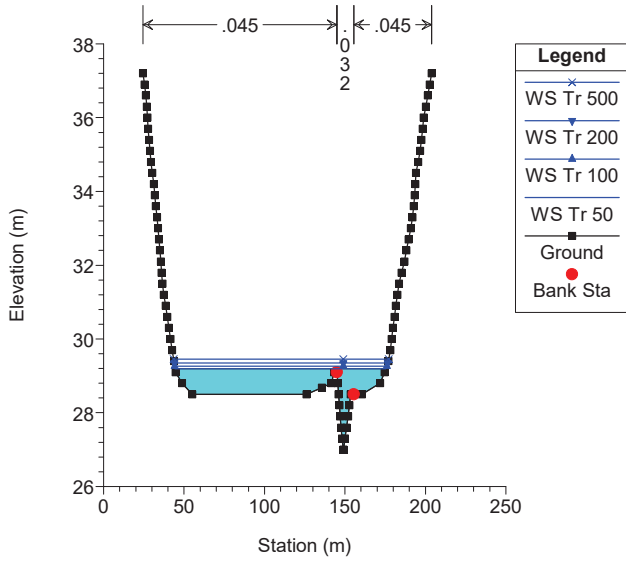
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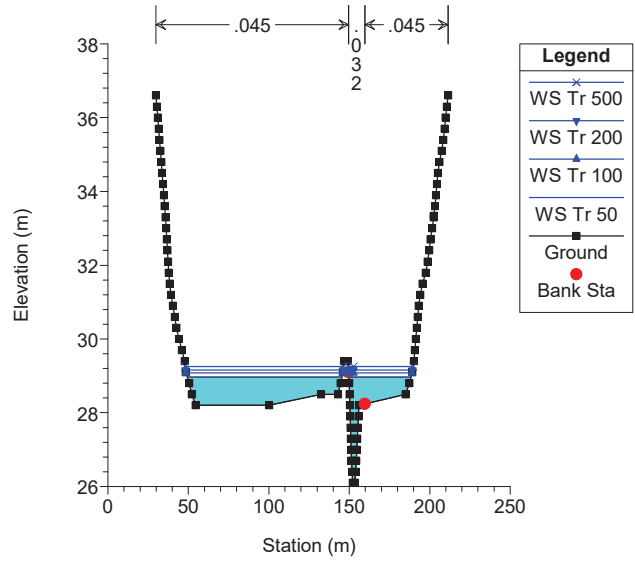
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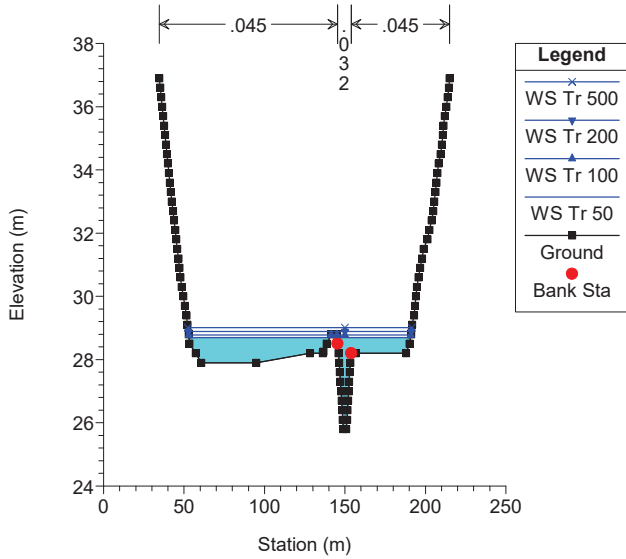
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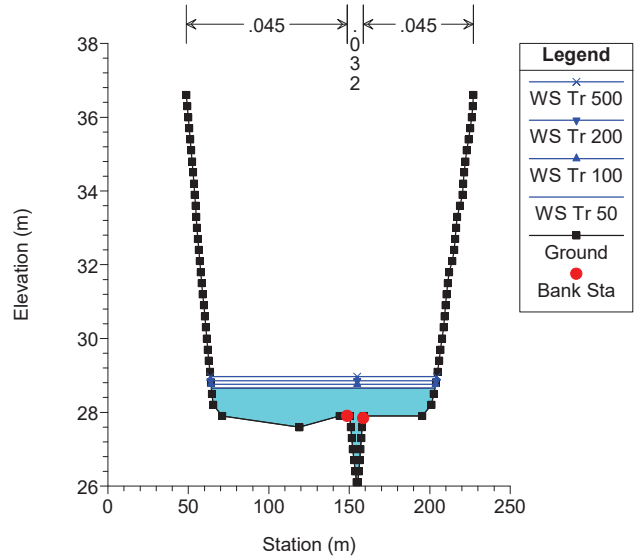
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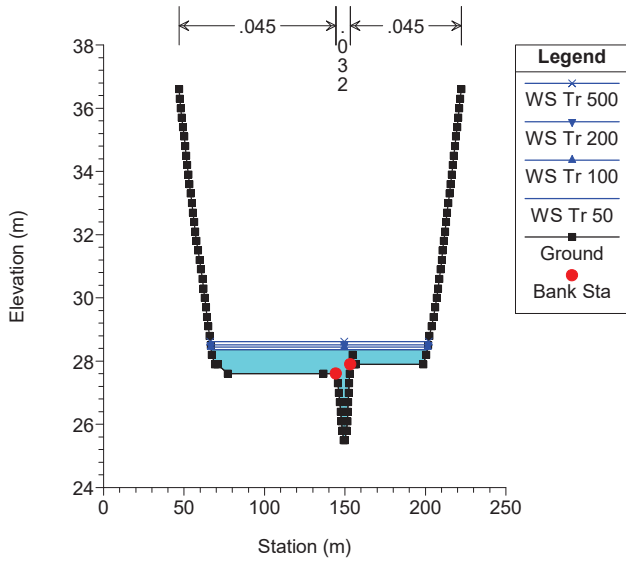
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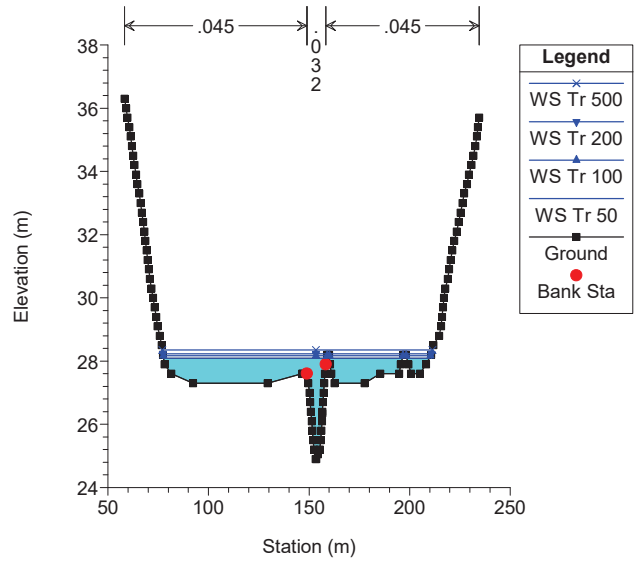
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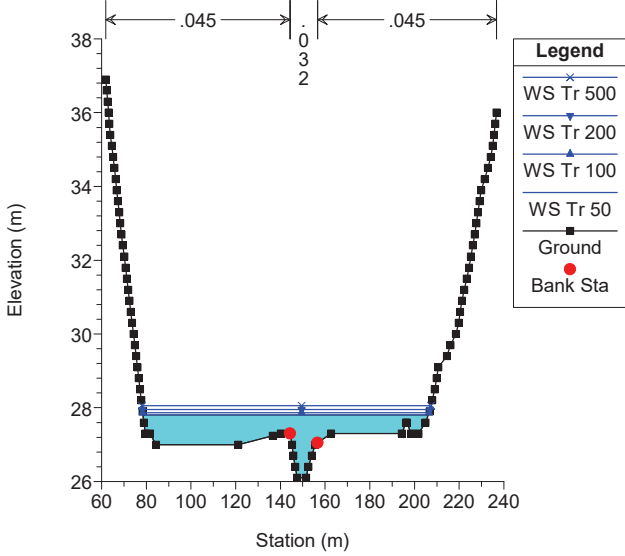
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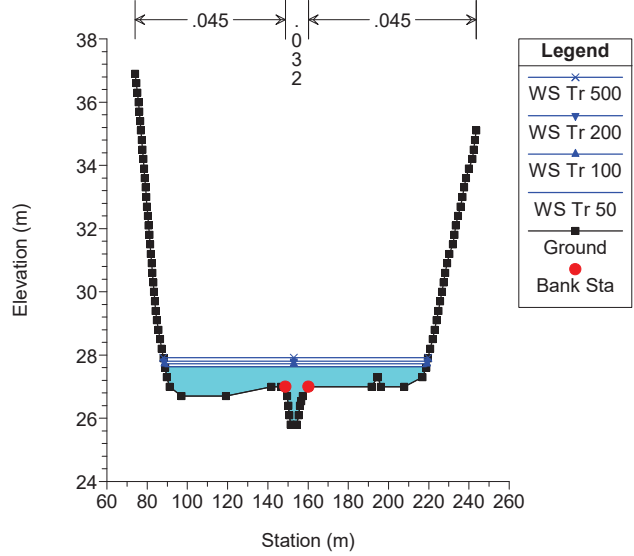
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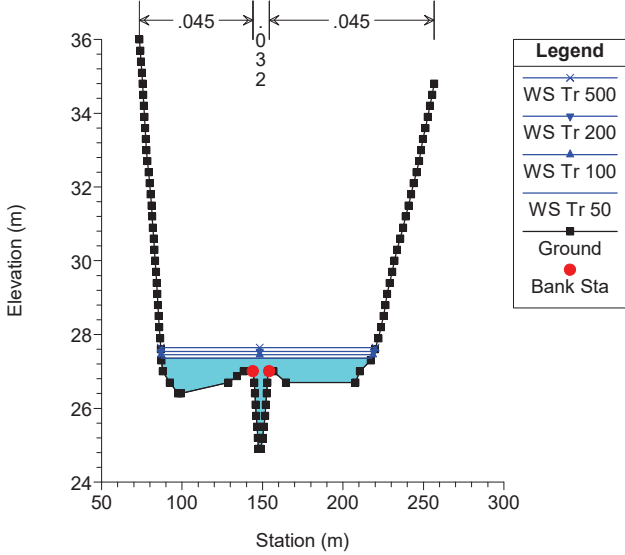
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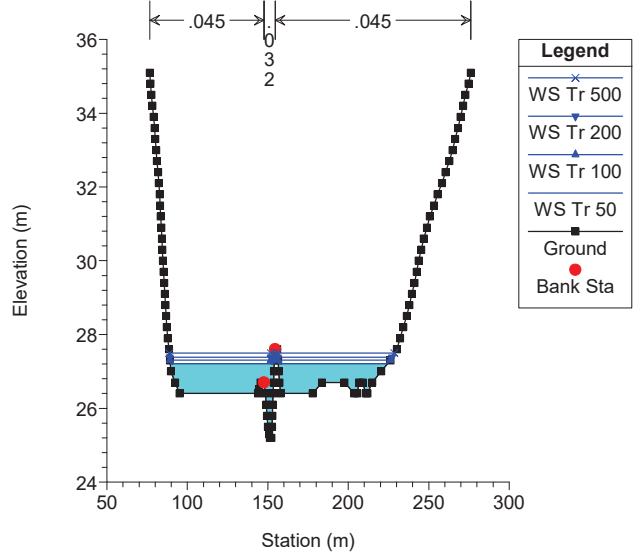
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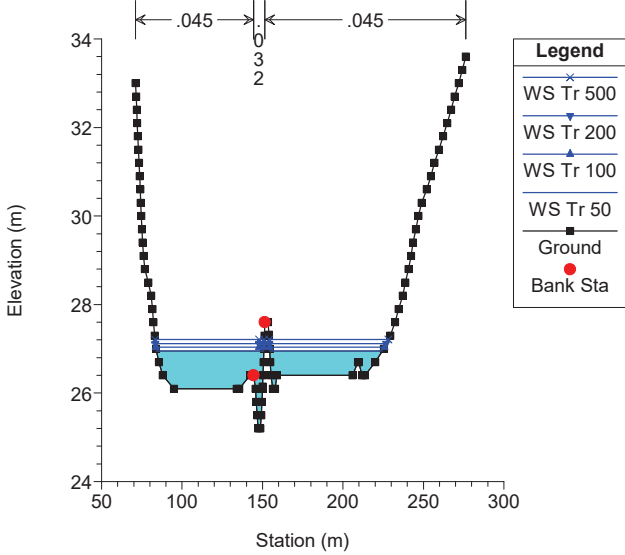
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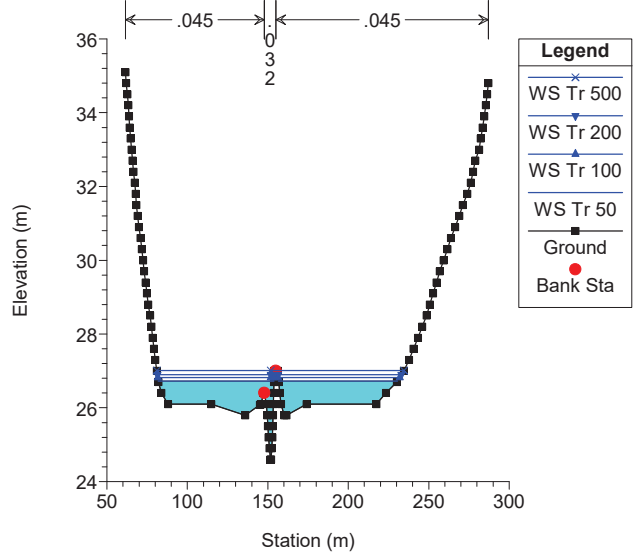
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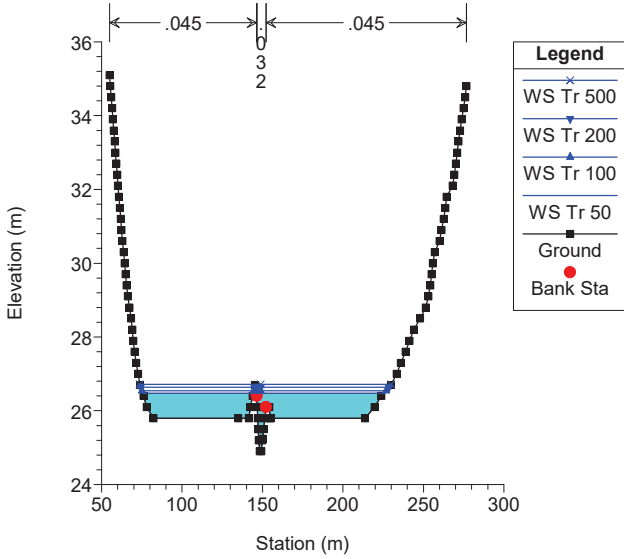
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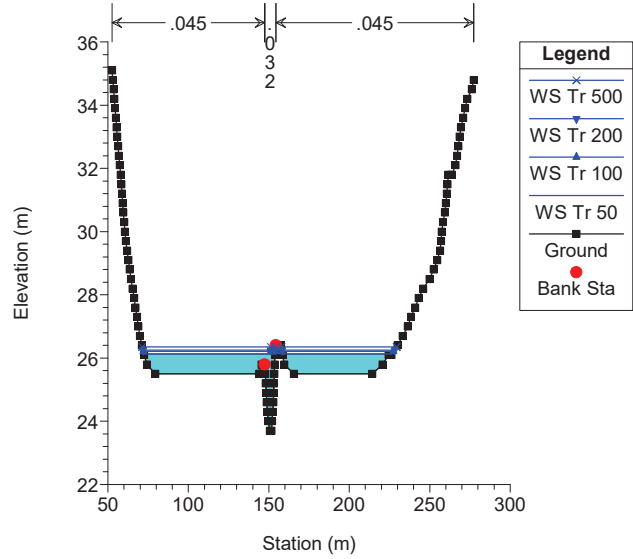
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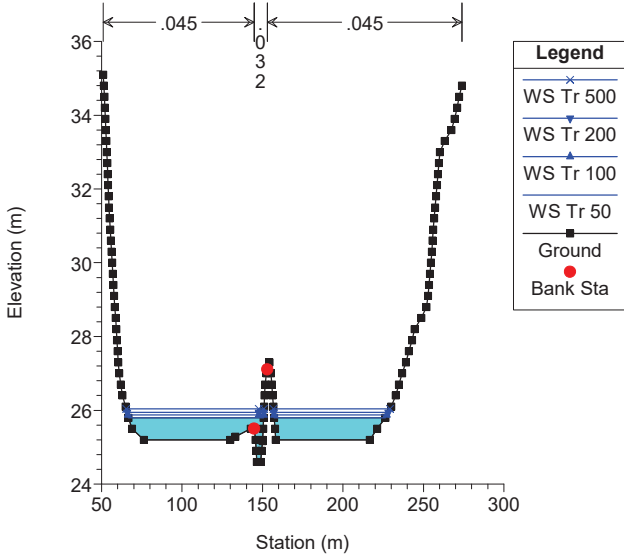
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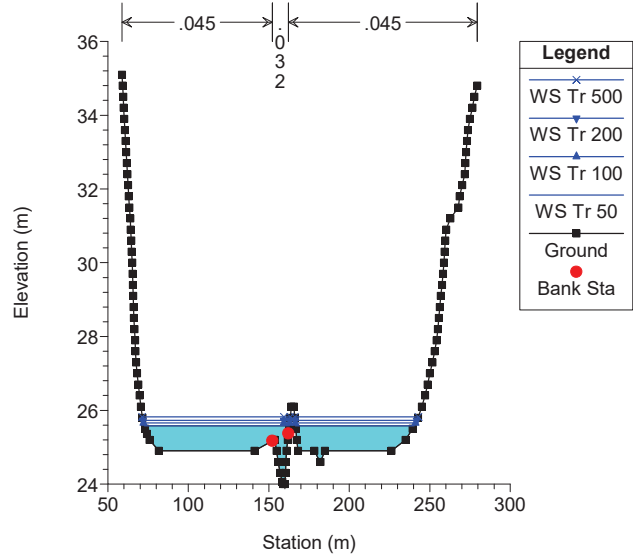
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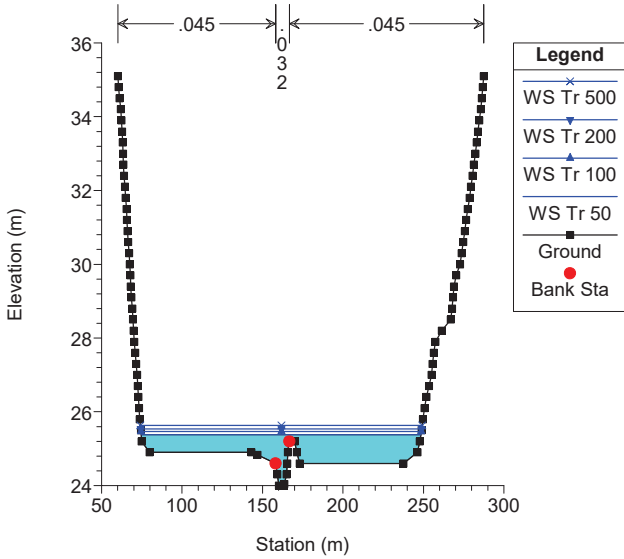
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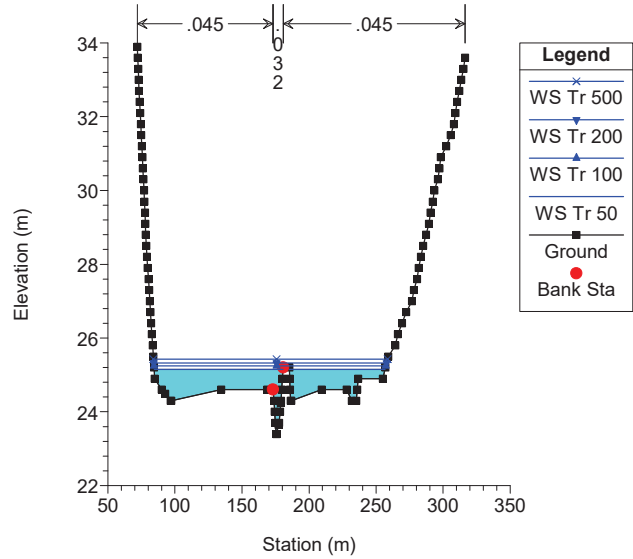
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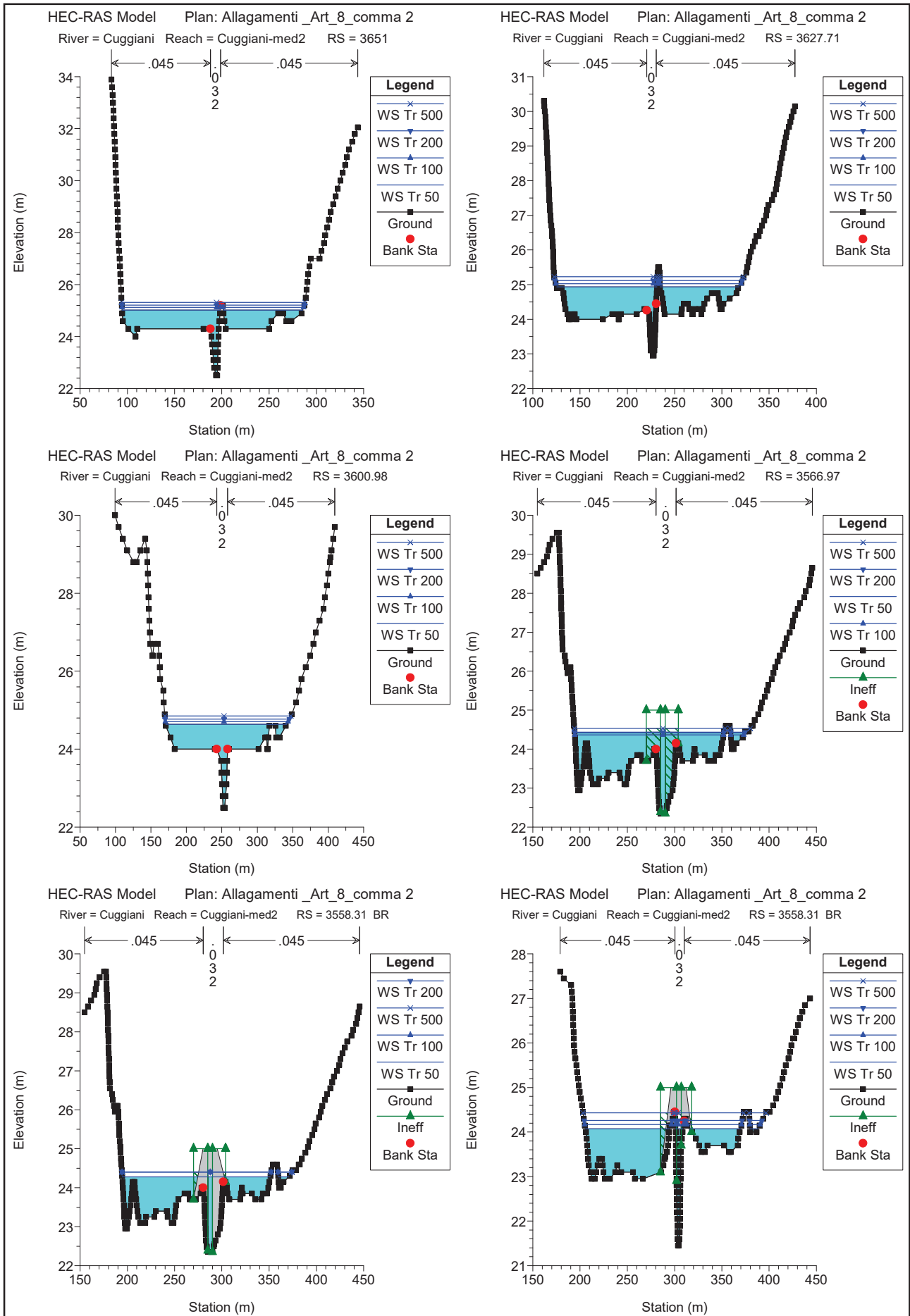


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 River = Cuggiani Reach = Cuggiani-med2 RS = 3701.02

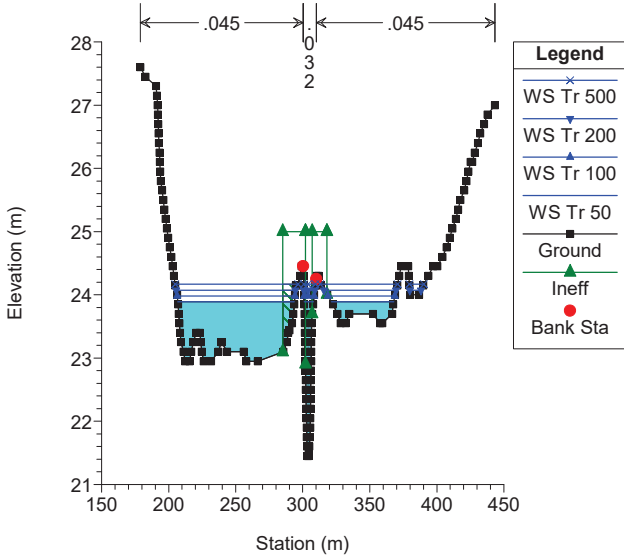


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 River = Cuggiani Reach = Cuggiani-med2 RS = 3676.62

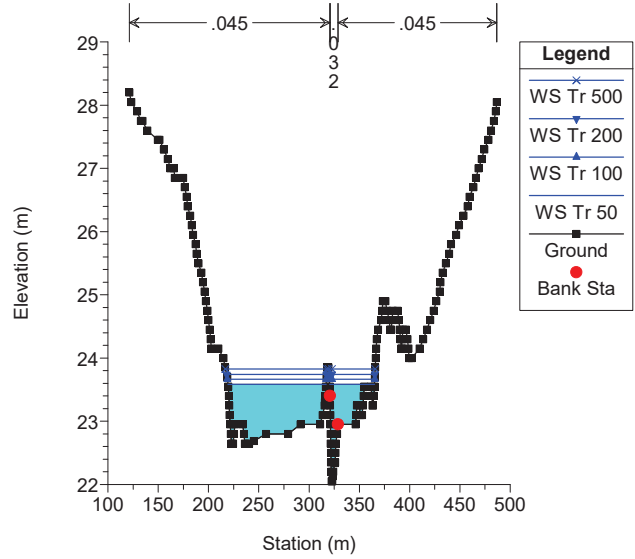




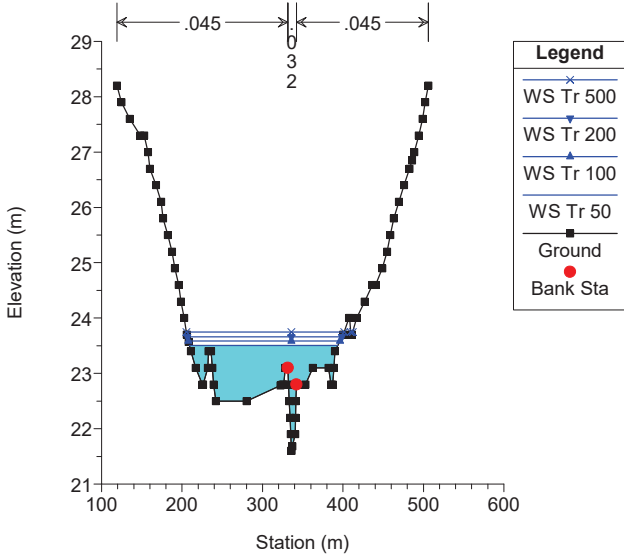
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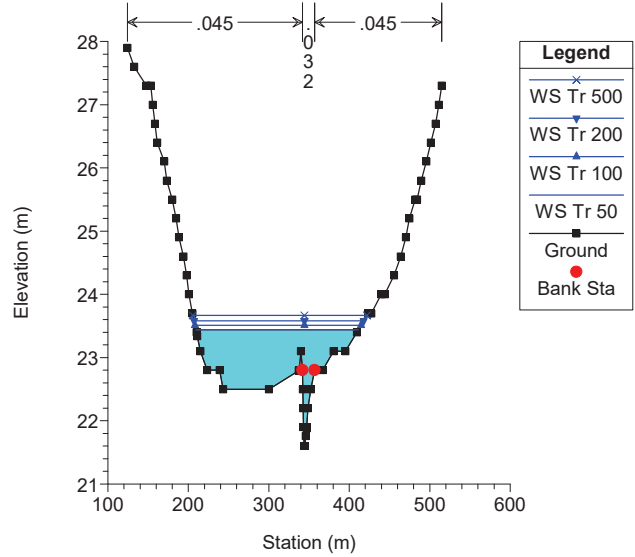
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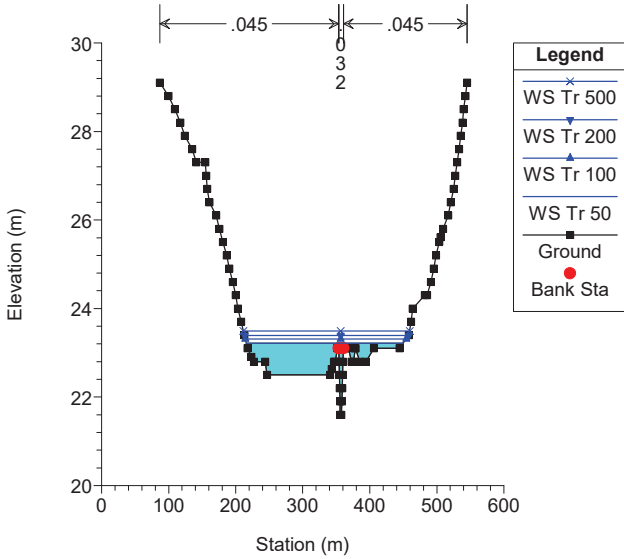
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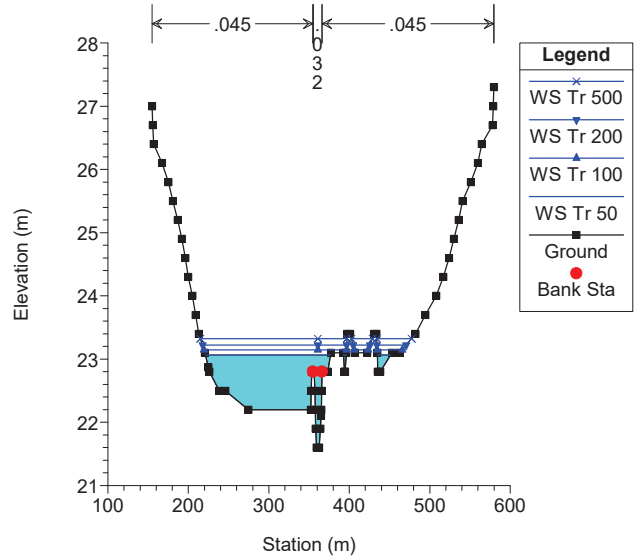
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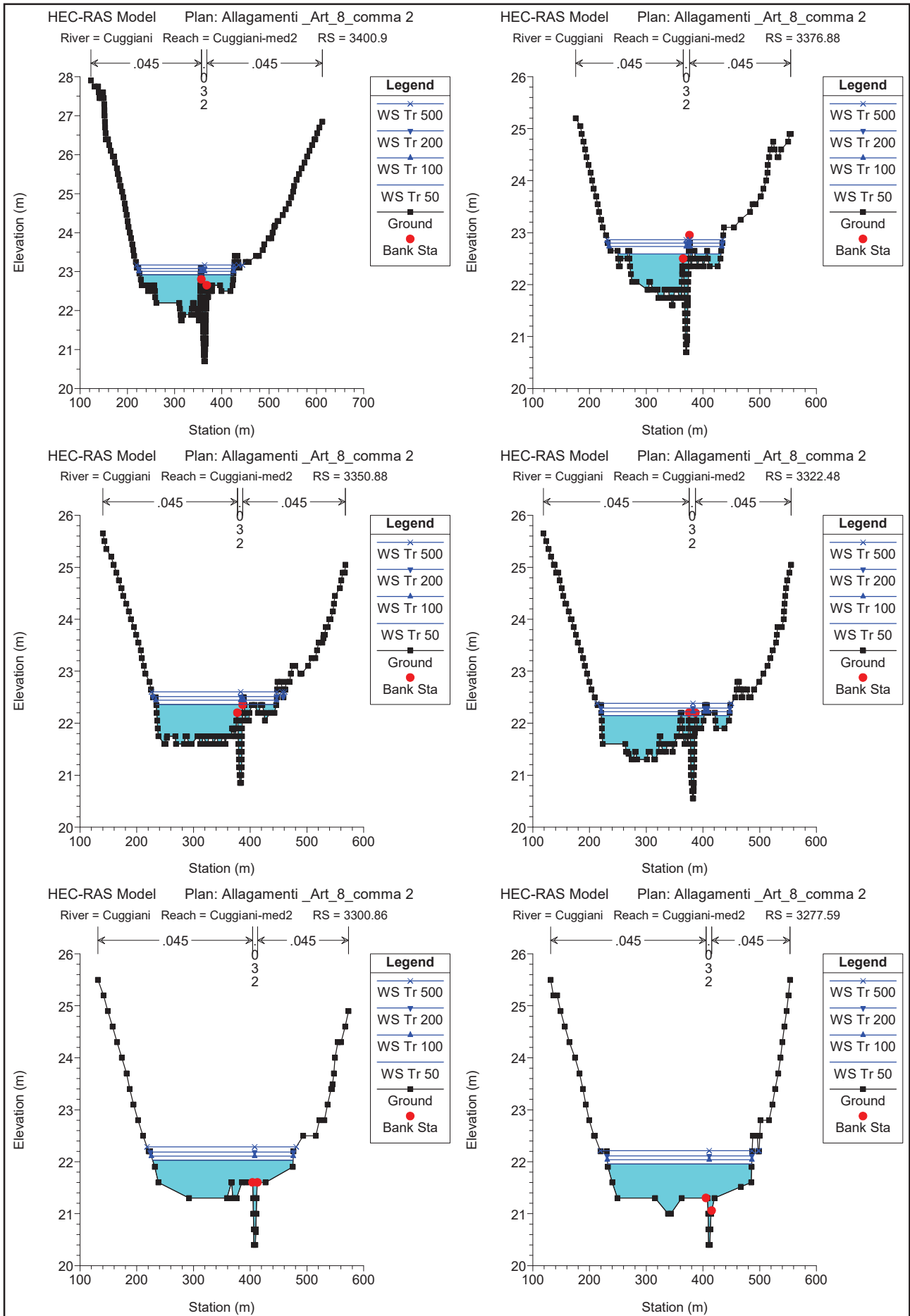


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 River = Cuggiani Reach = Cuggiani-med2 RS = 3450.92

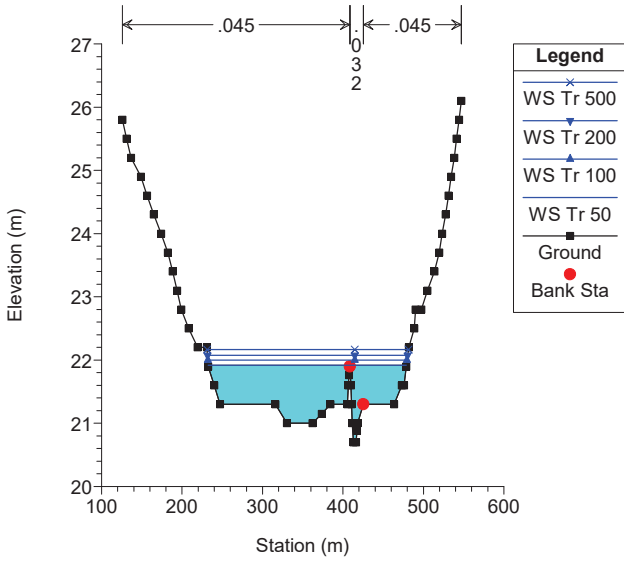


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 River = Cuggiani Reach = Cuggiani-med2 RS = 3426.13

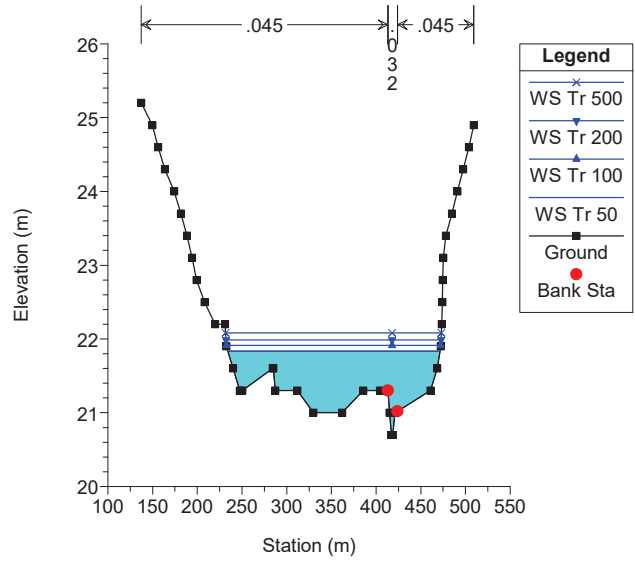




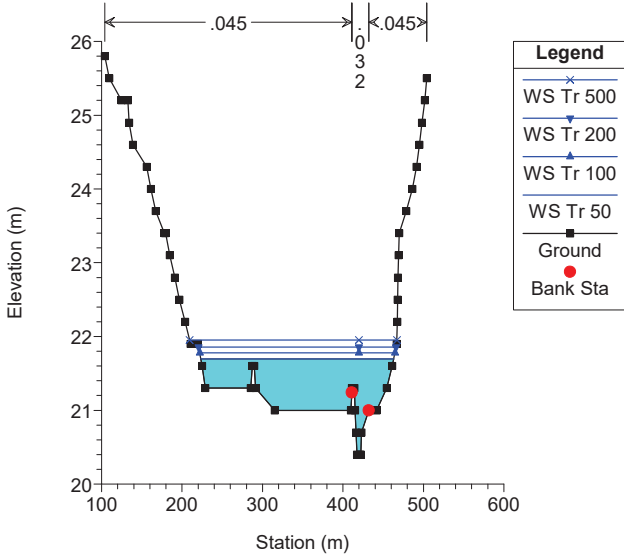
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 River = Cuggiani Reach = Cuggiani-med2 RS = 3265.43



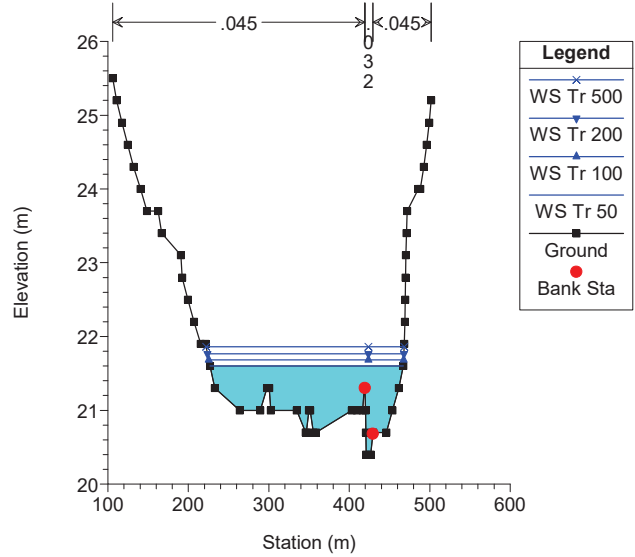
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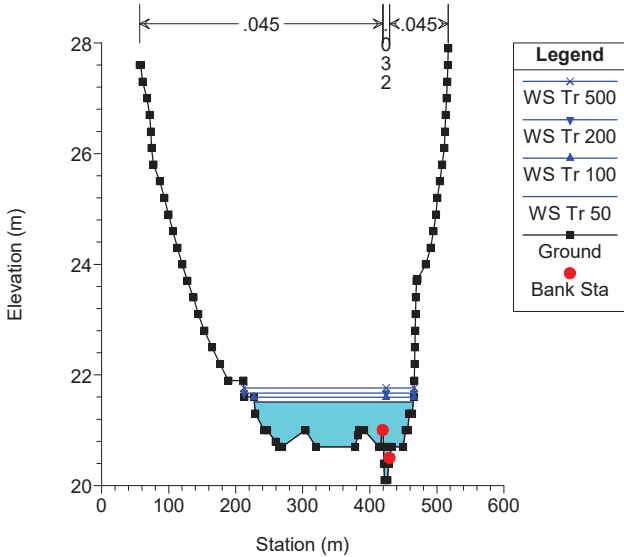
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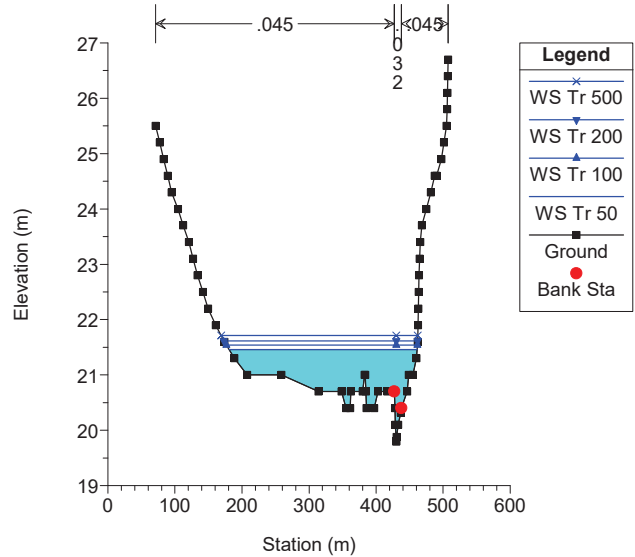
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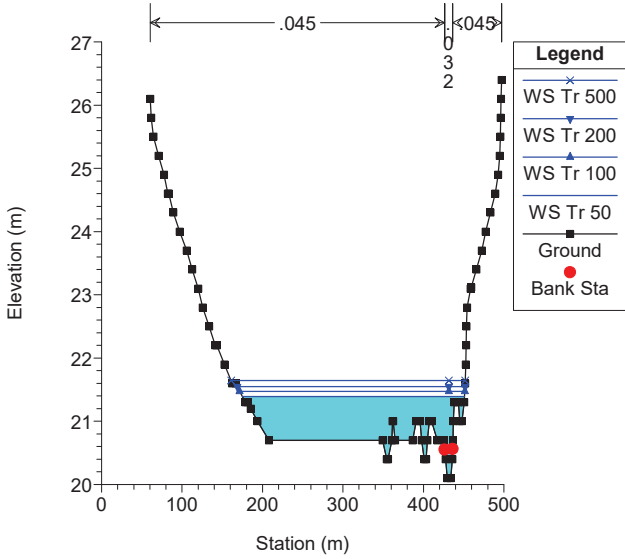
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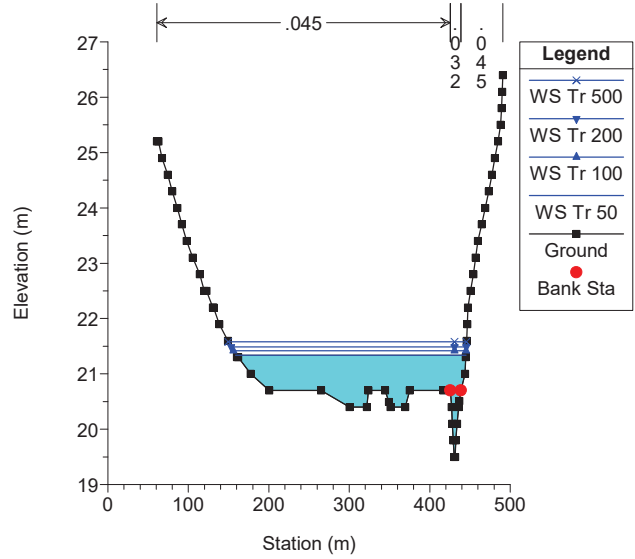
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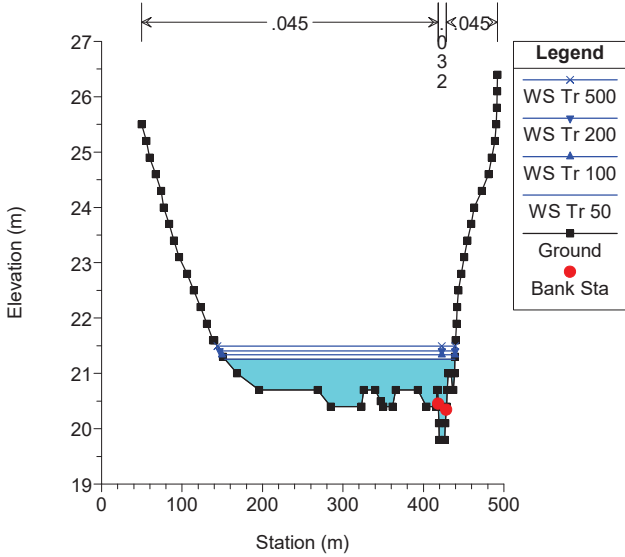
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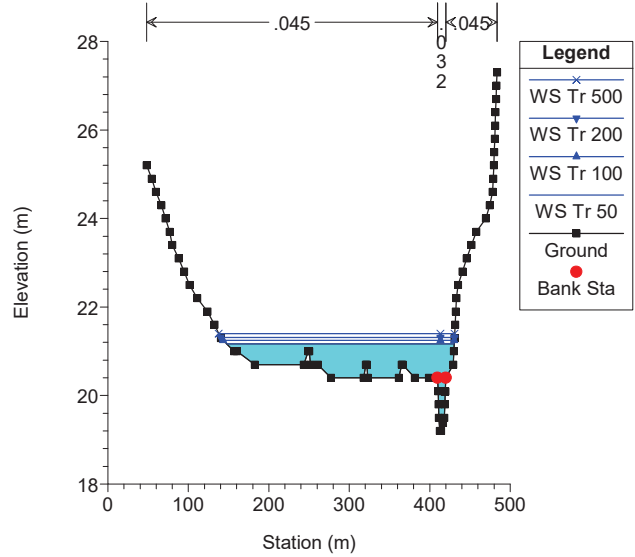
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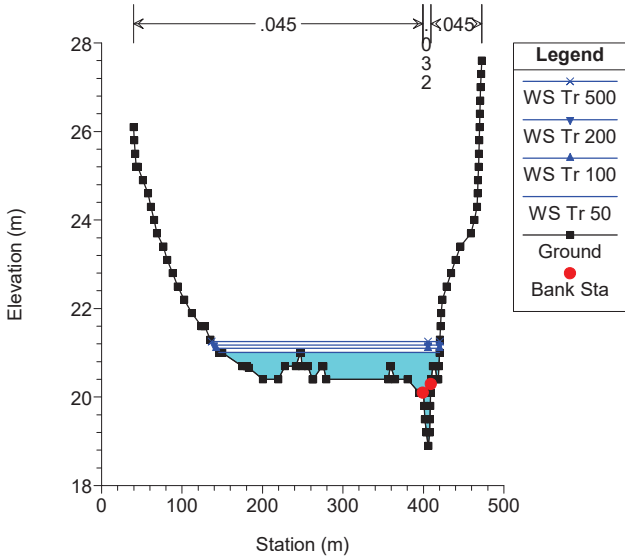
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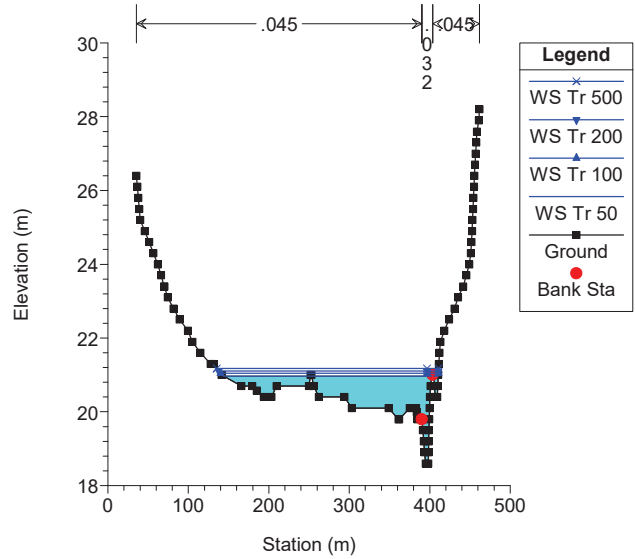
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 River = Cuggiani Reach = Cuggiani-med2 RS = 3050.76



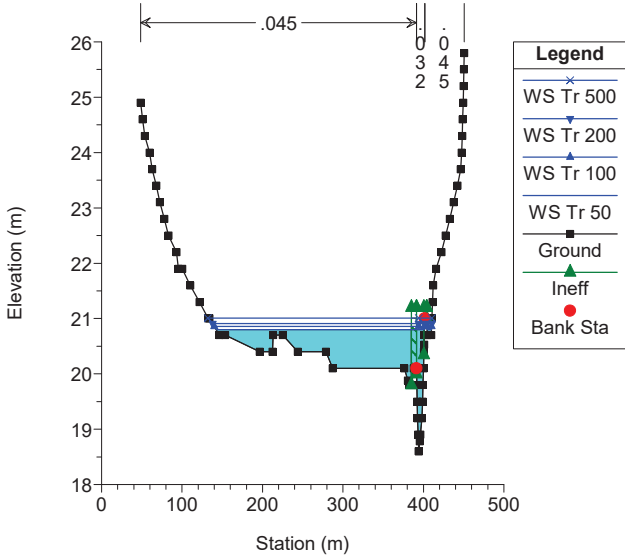
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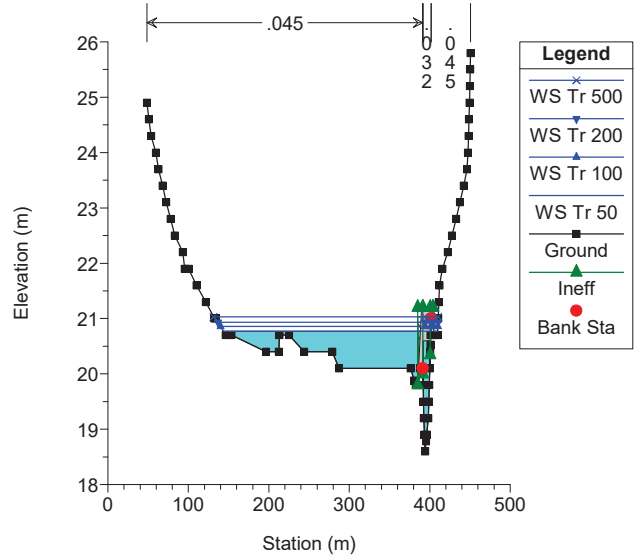
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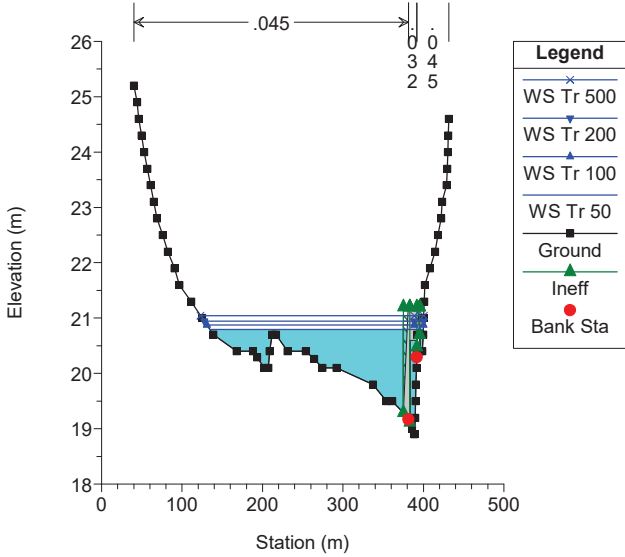
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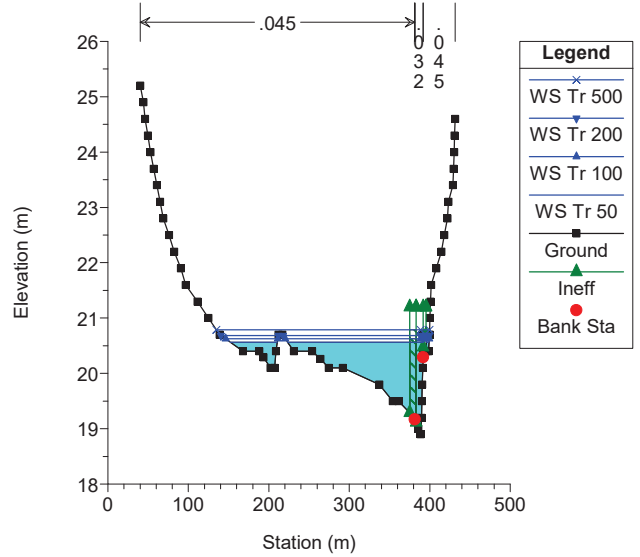
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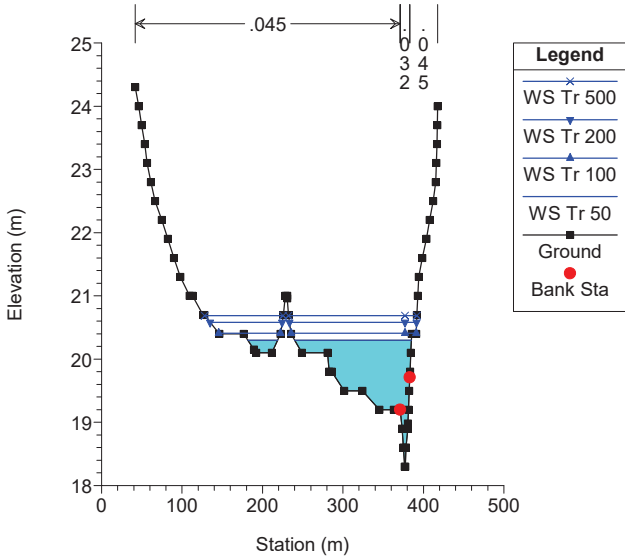
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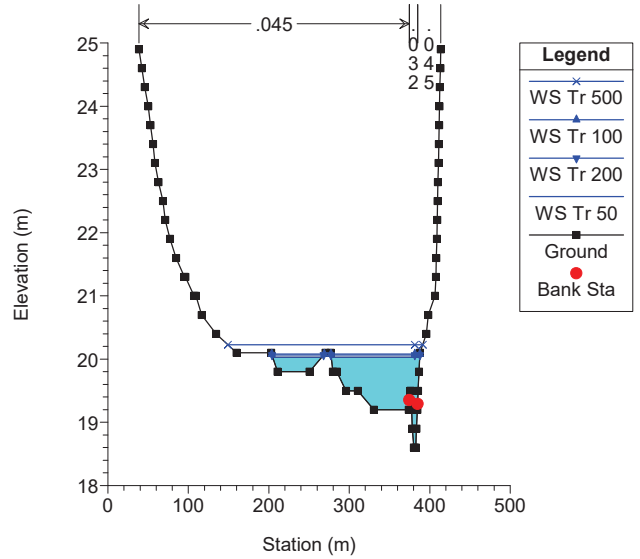
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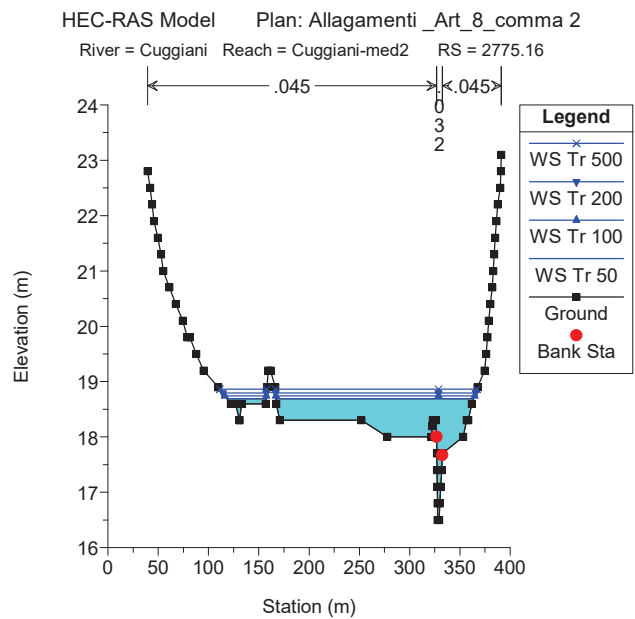
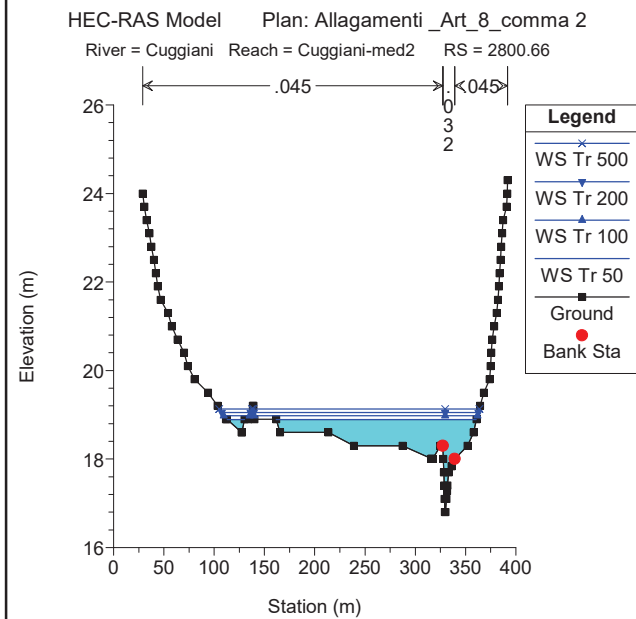
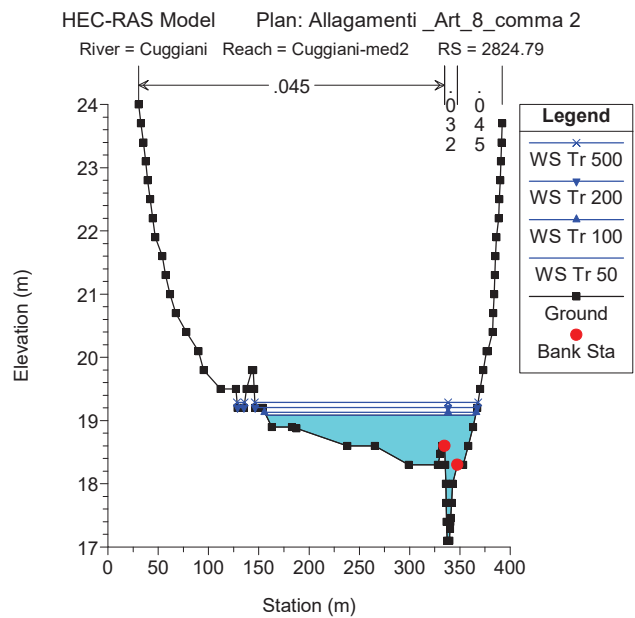
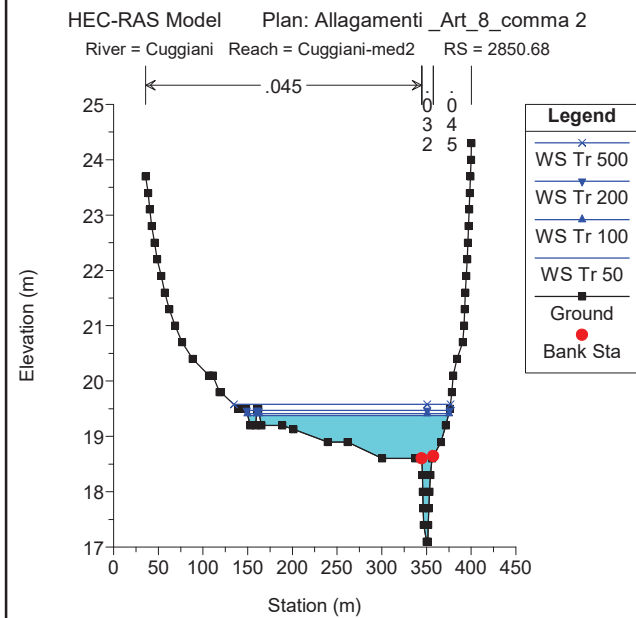
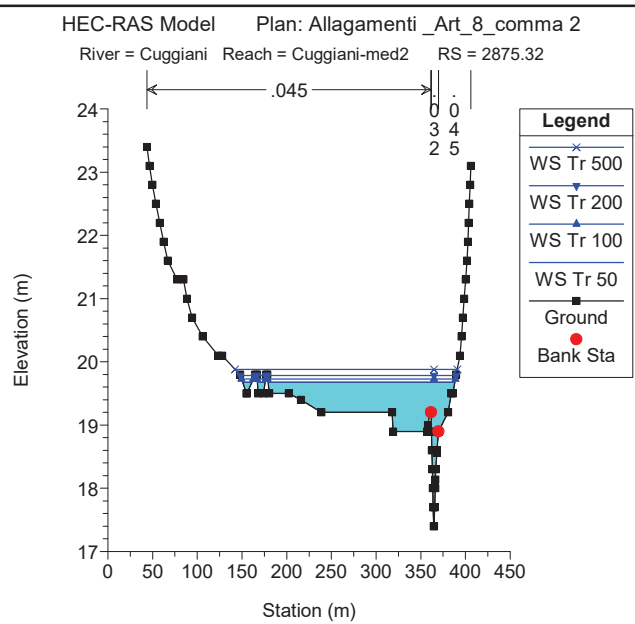
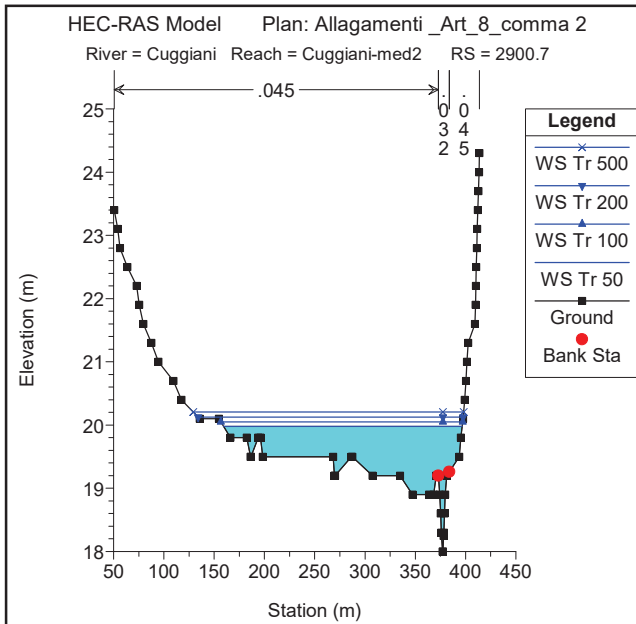


HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 2950.72

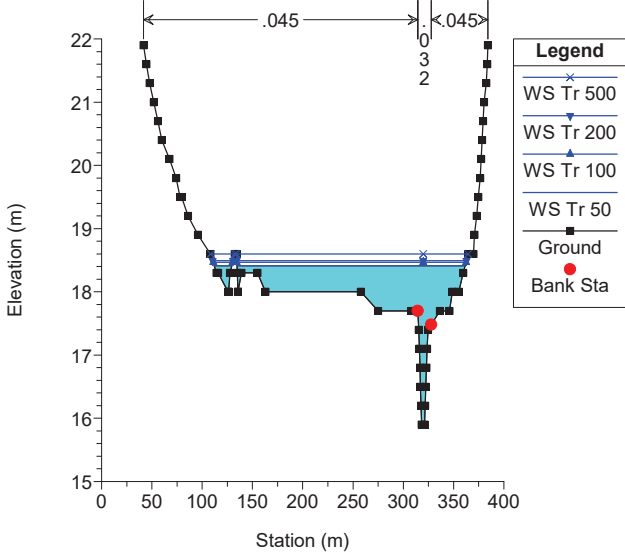


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 River = Cuggiani Reach = Cuggiani-med2 RS = 2924.83

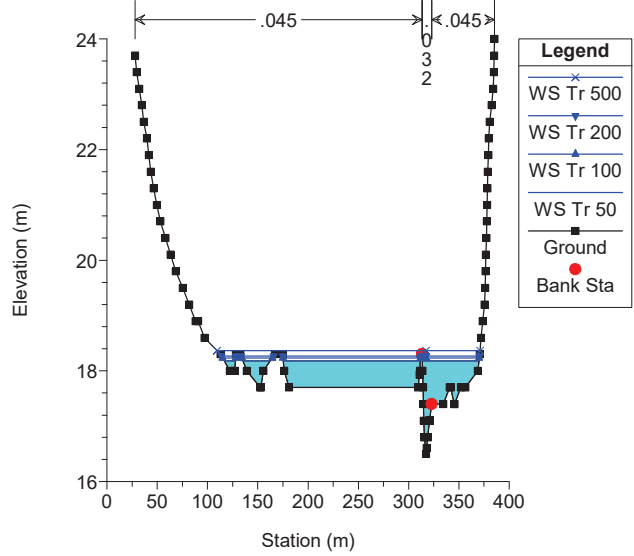




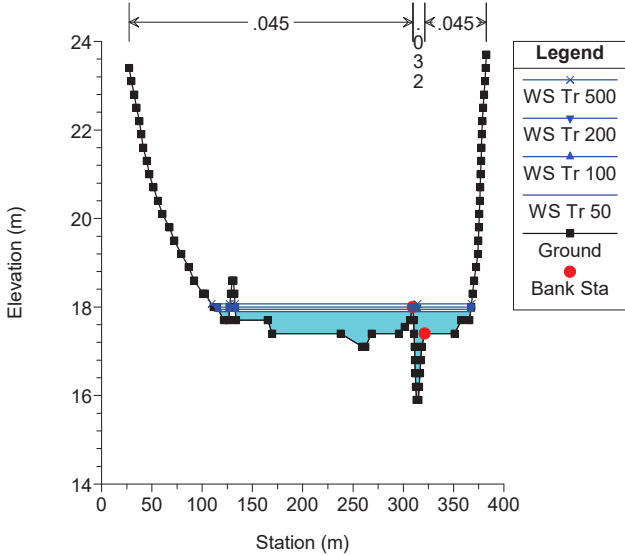
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 River = Cuggiani Reach = Cuggiani-med2 RS = 2750.64



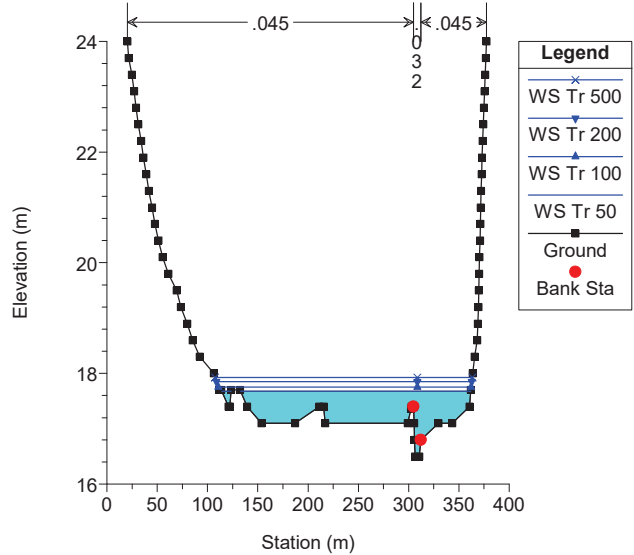
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 River = Cuggiani Reach = Cuggiani-med2 RS = 2722.95



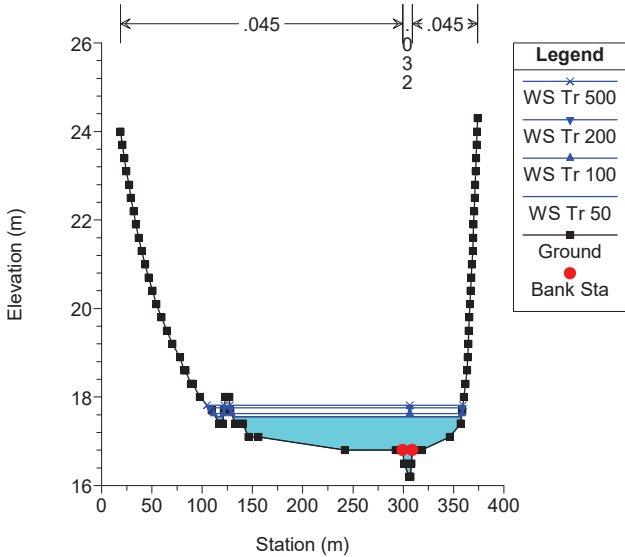
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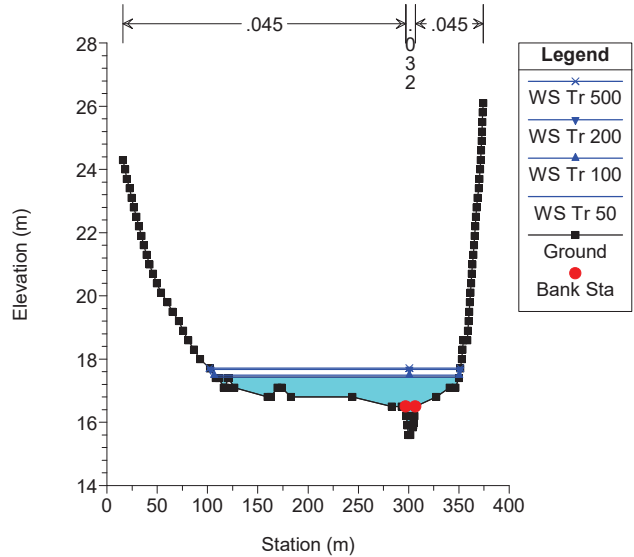
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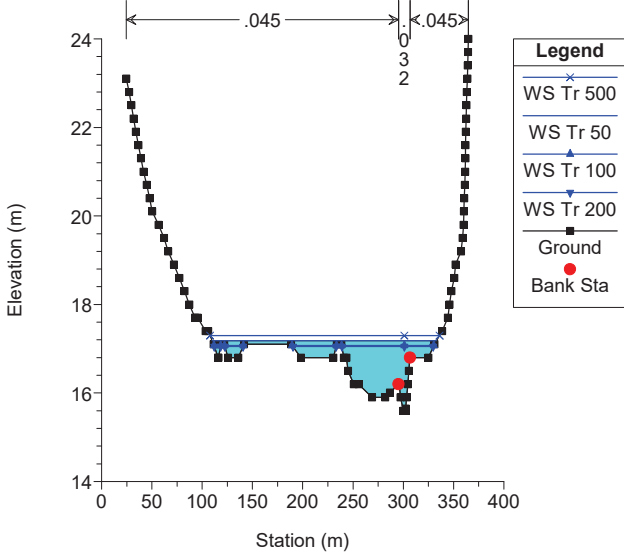
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 River = Cuggiani Reach = Cuggiani-med2 RS = 2650.6



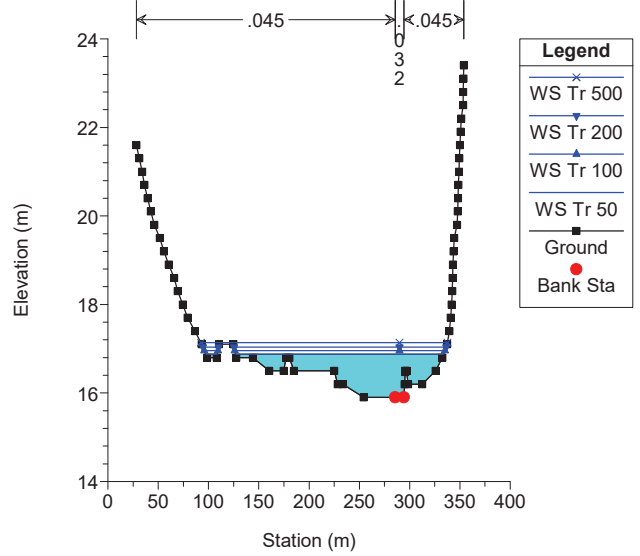
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 River = Cuggiani Reach = Cuggiani-med2 RS = 2623.89



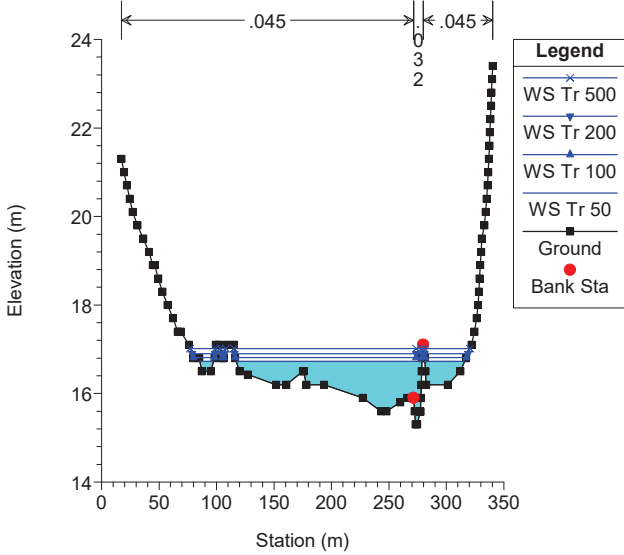
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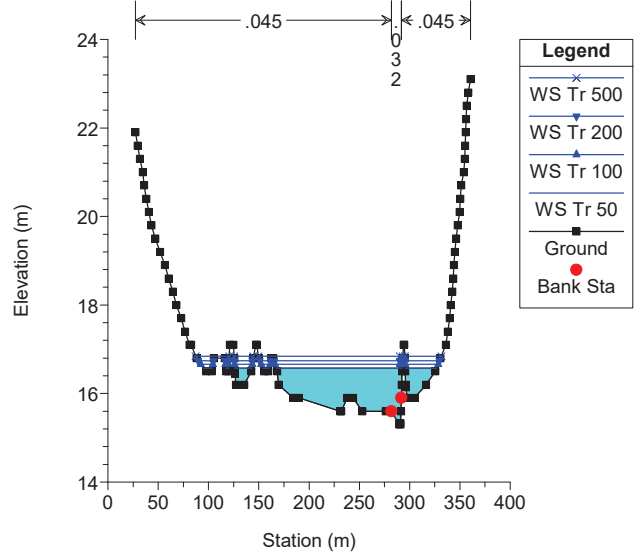
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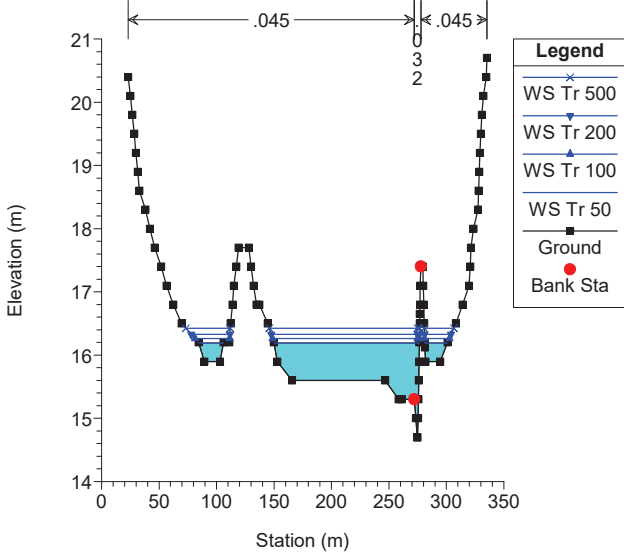
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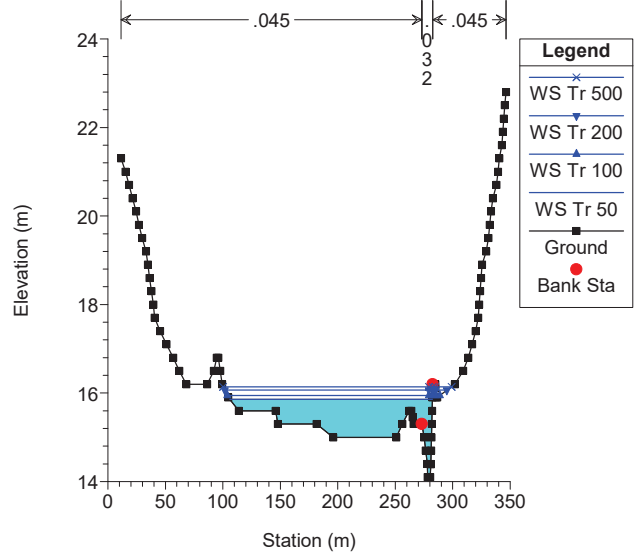
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 River = Cuggiani Reach = Cuggiani-med2 RS = 2523.73

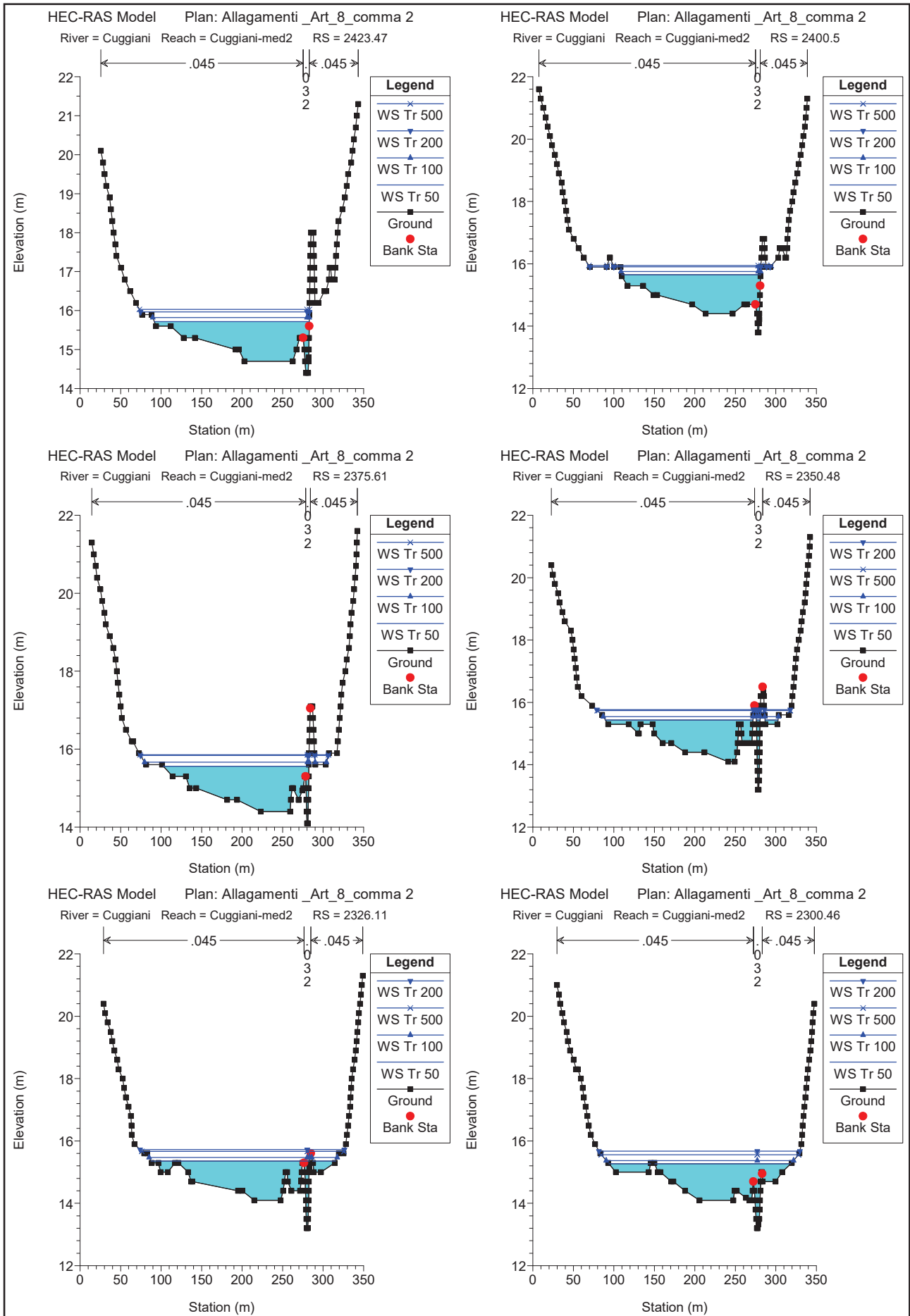


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 River = Cuggiani Reach = Cuggiani-med2 RS = 2486.55

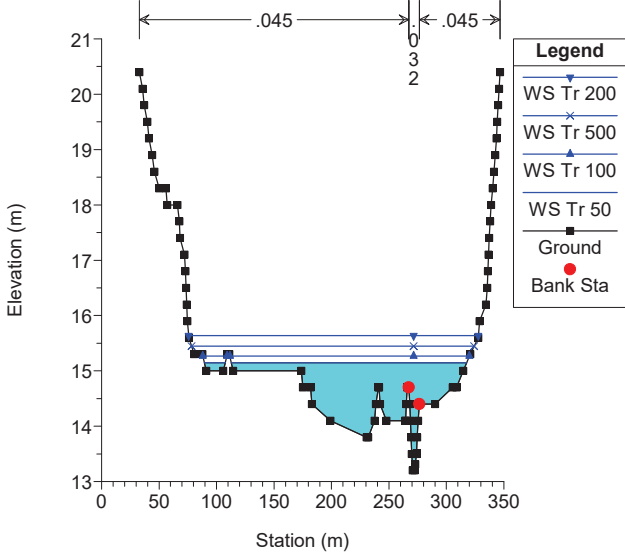


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 River = Cuggiani Reach = Cuggiani-med2 RS = 2450.52

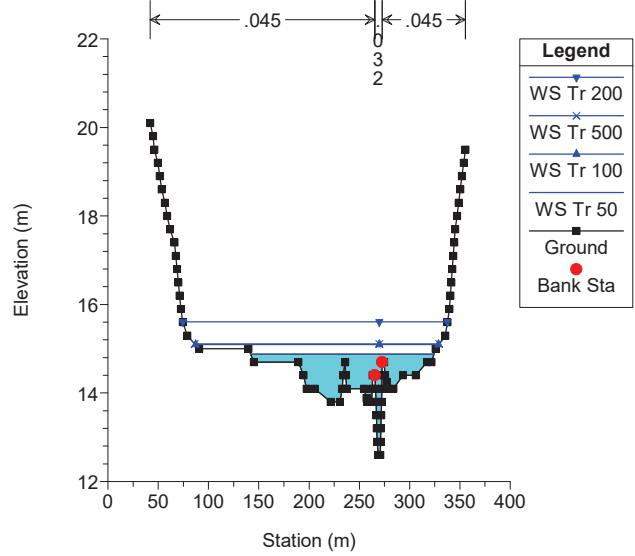




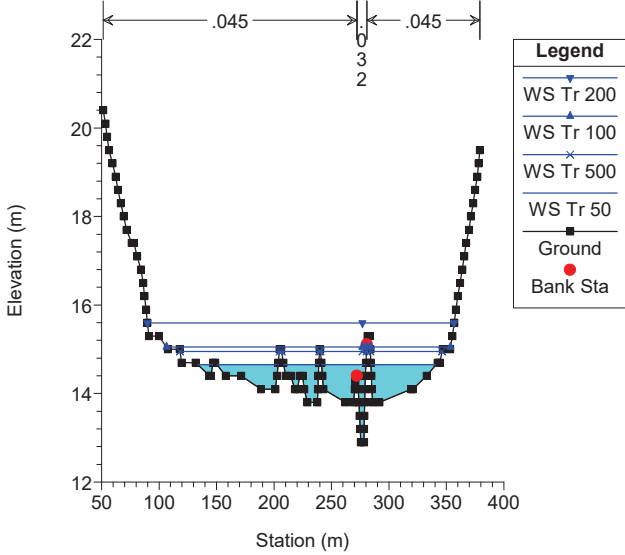
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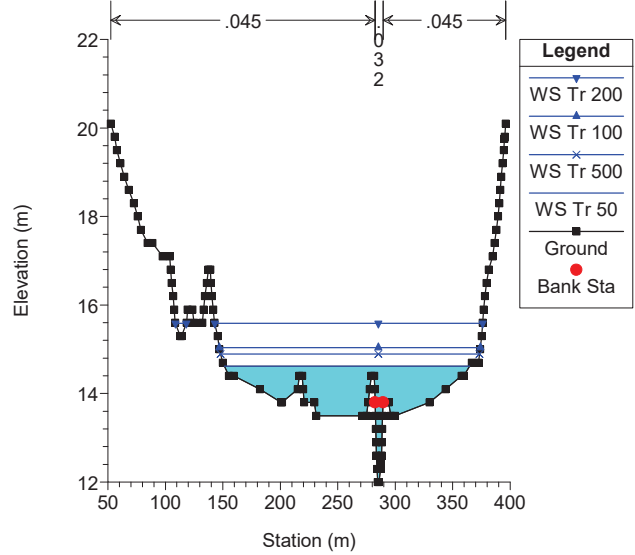
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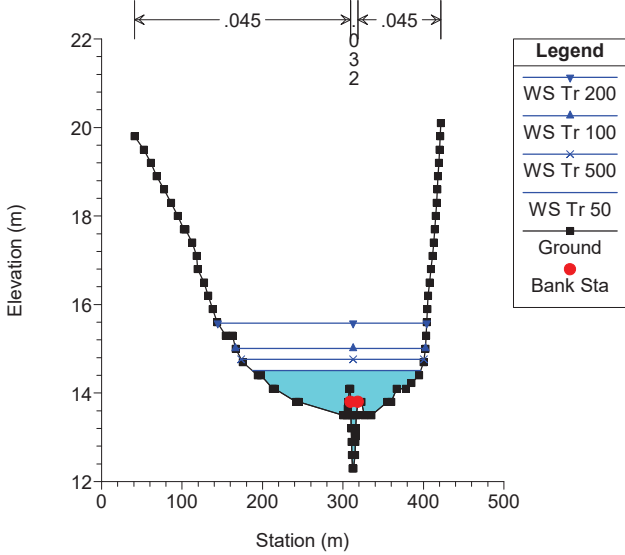
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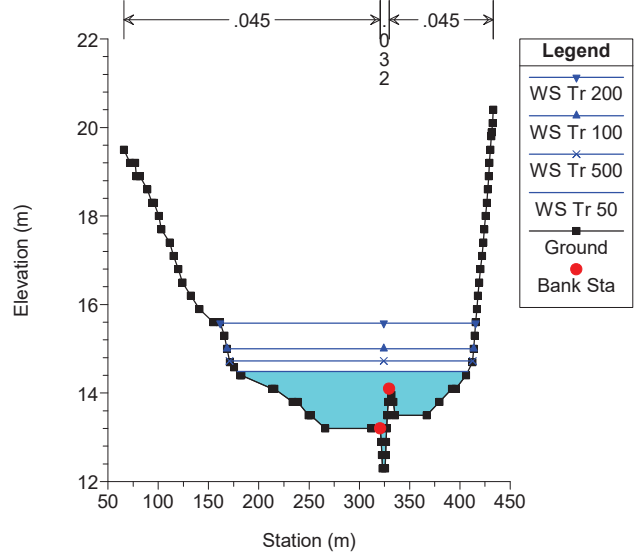
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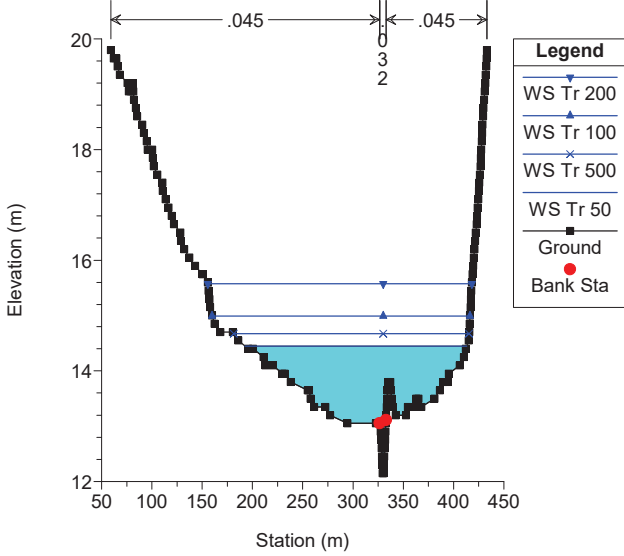
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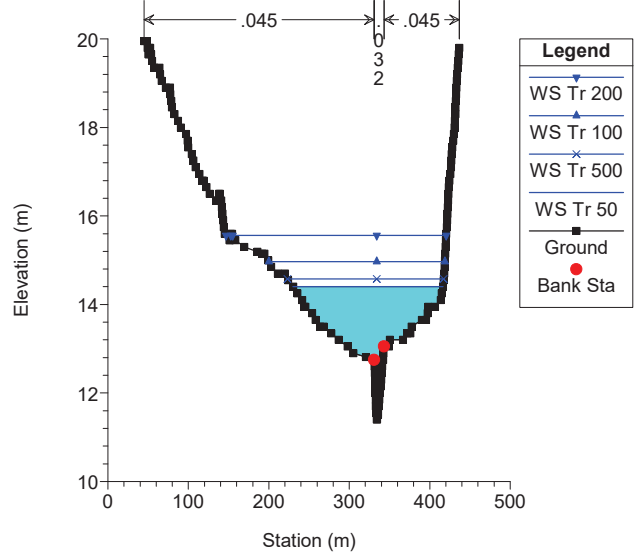
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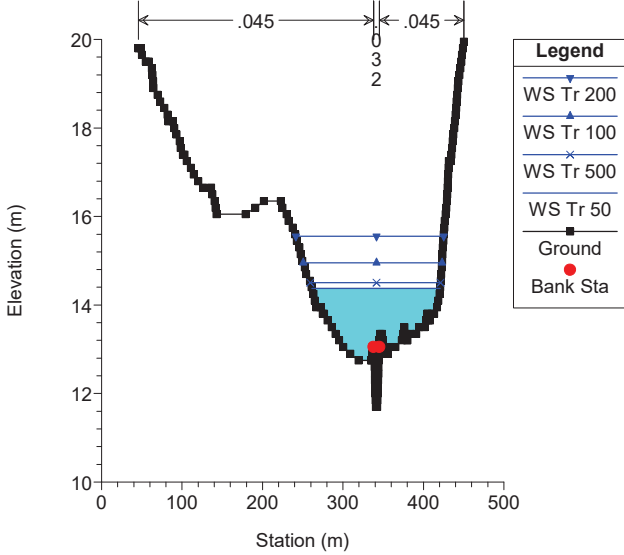
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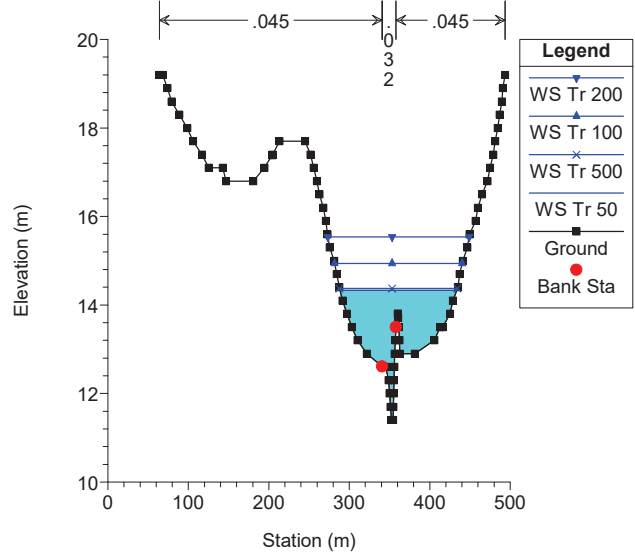
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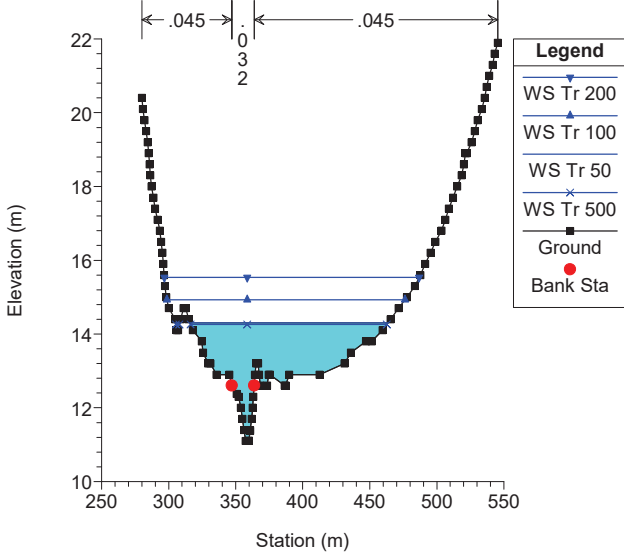
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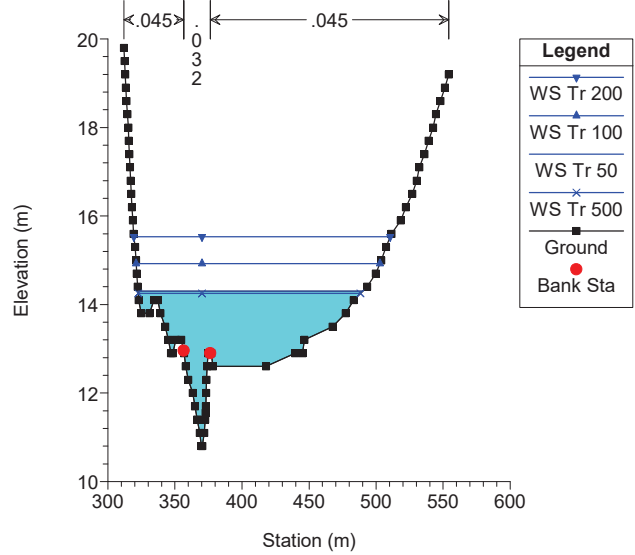
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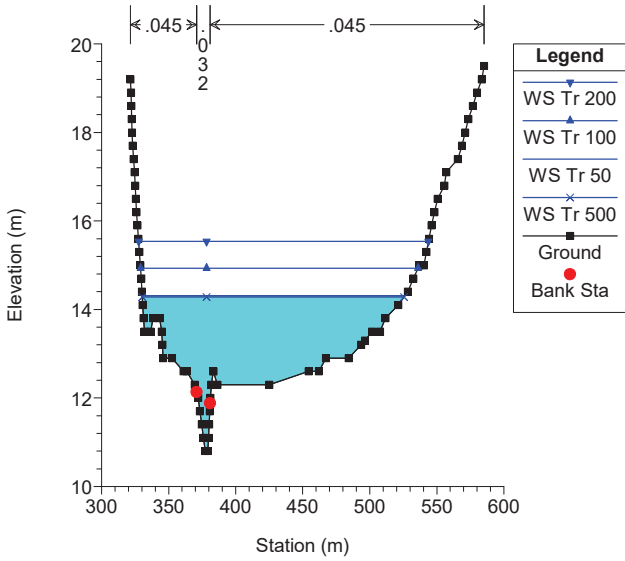
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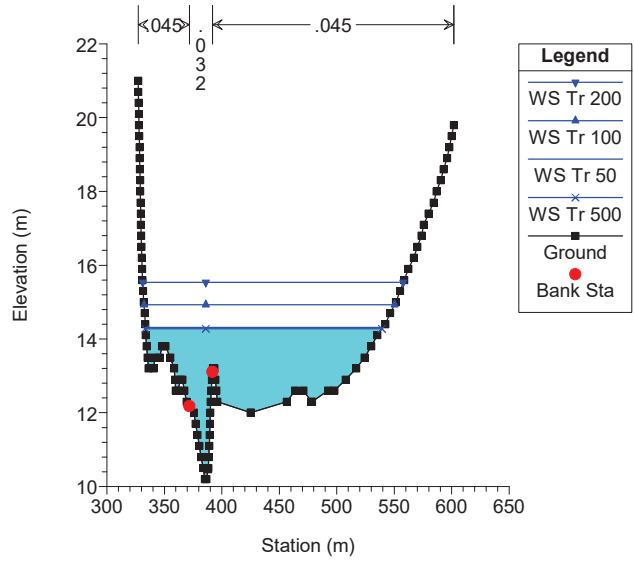
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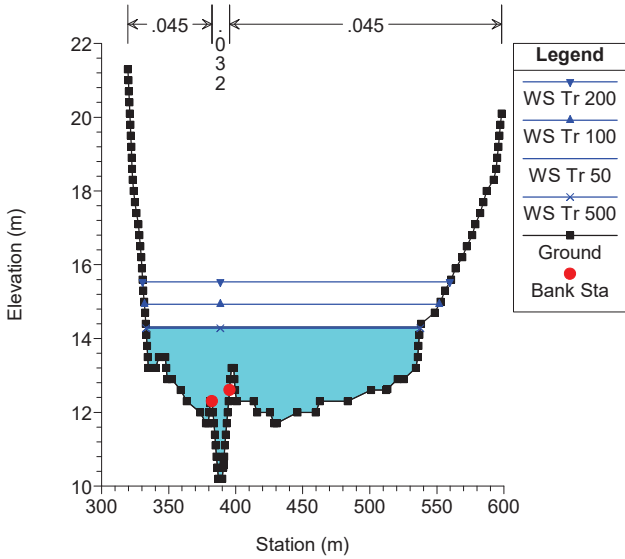
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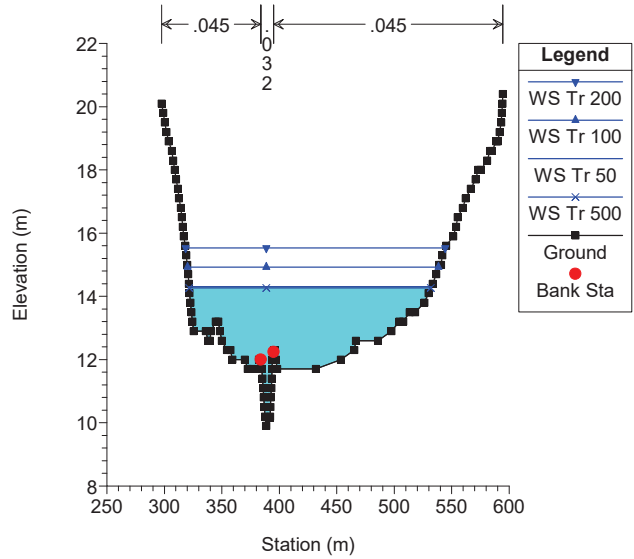
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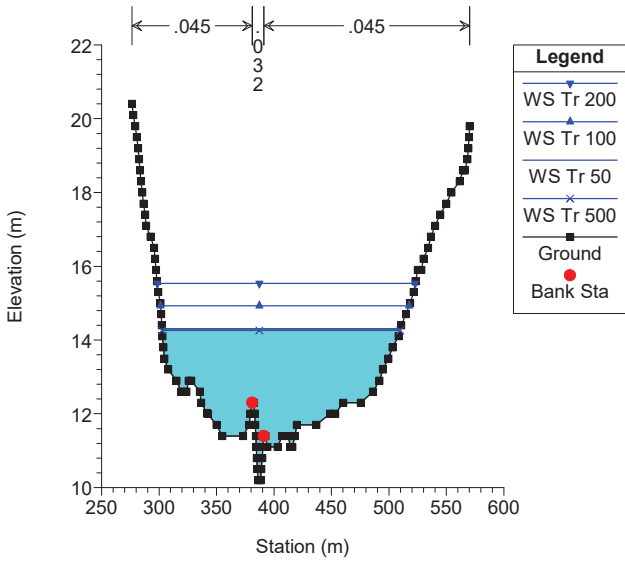
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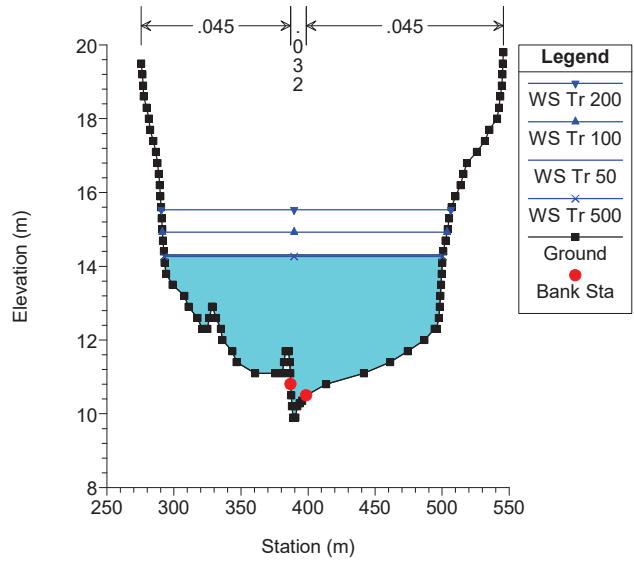
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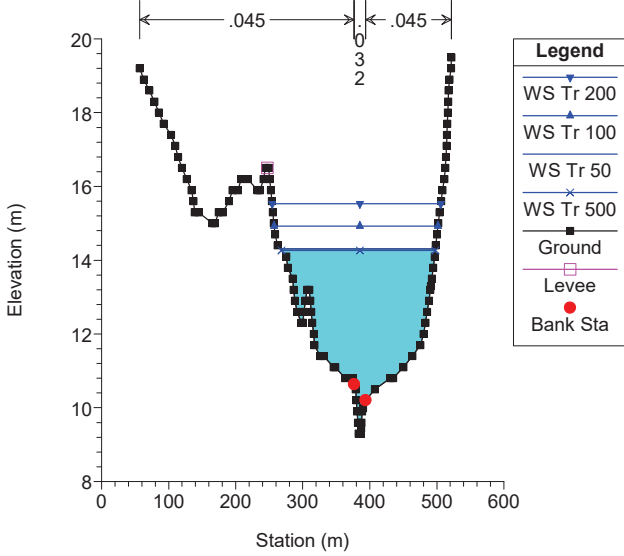
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 River = Cuggiani Reach = Cuggiani-med2 RS = 1875.18



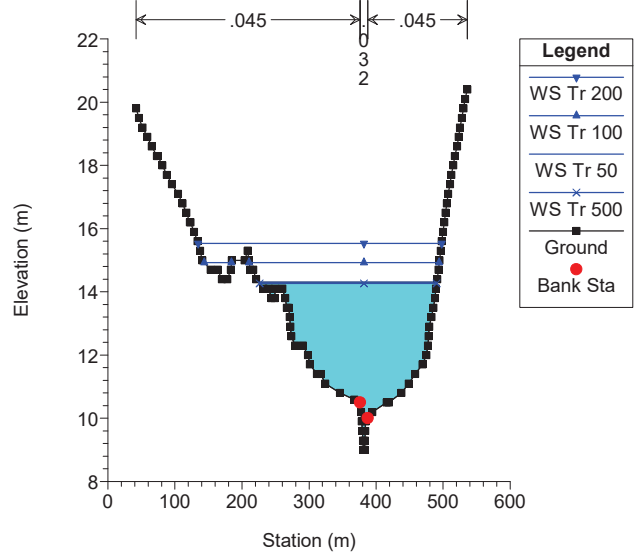
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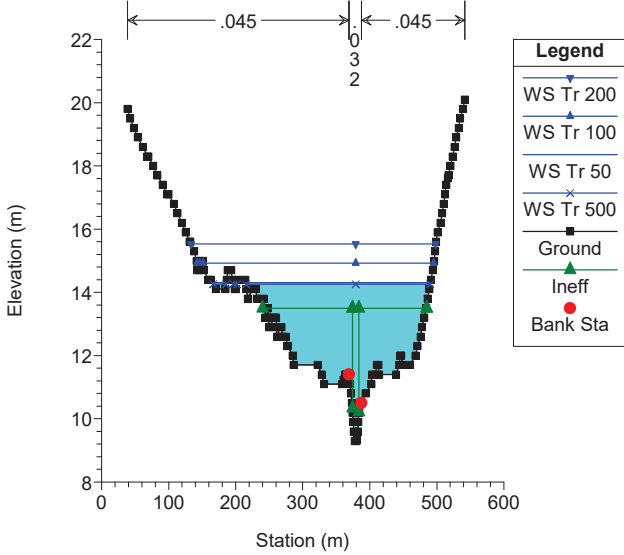
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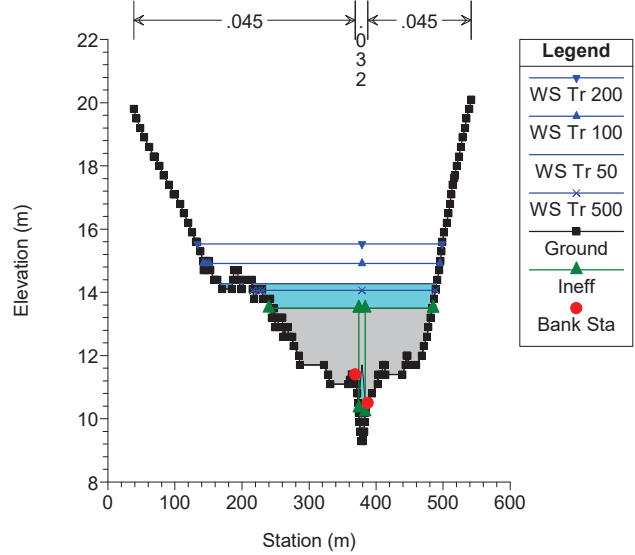
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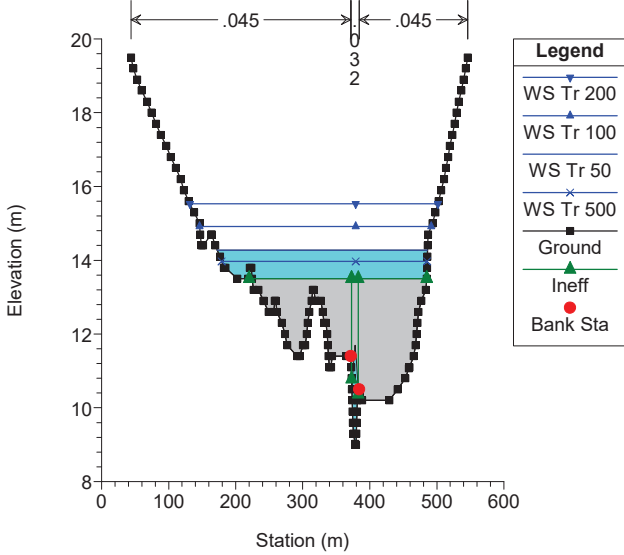
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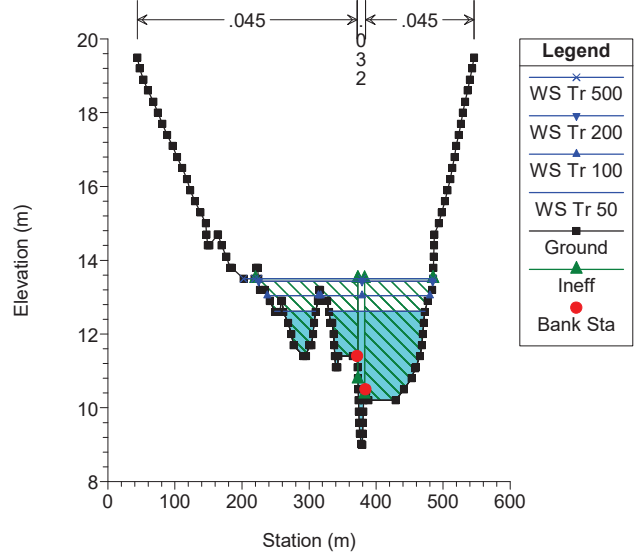
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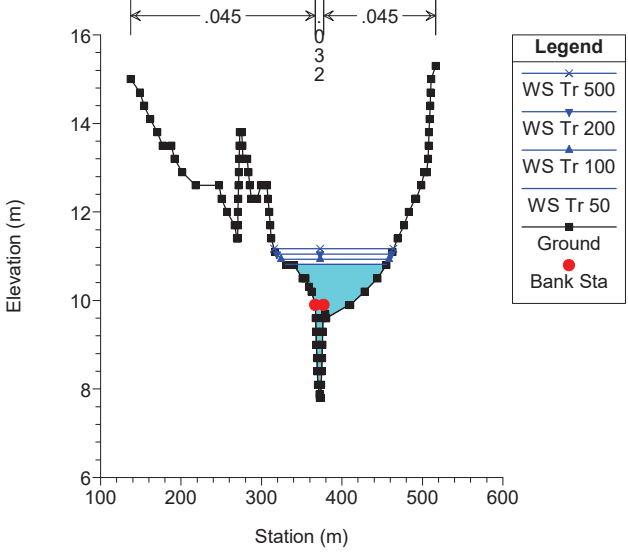
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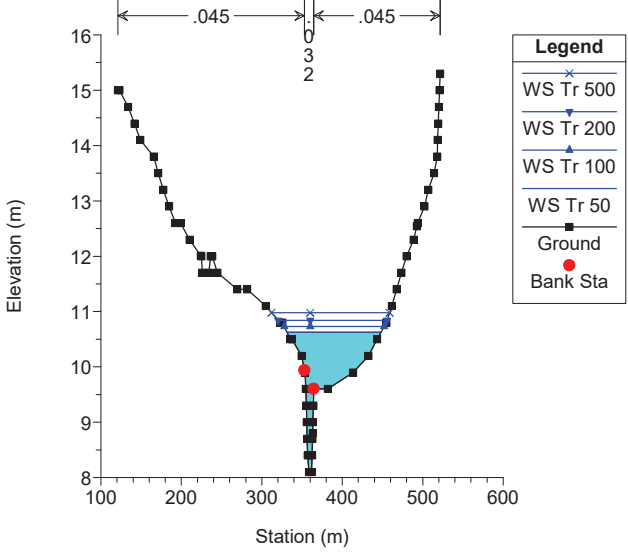
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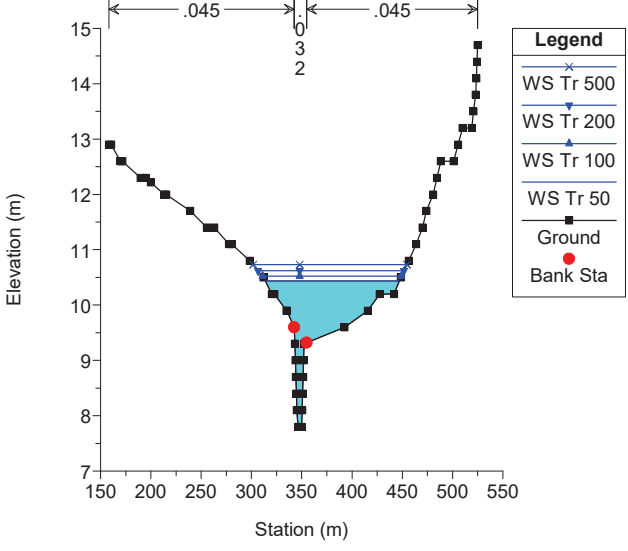
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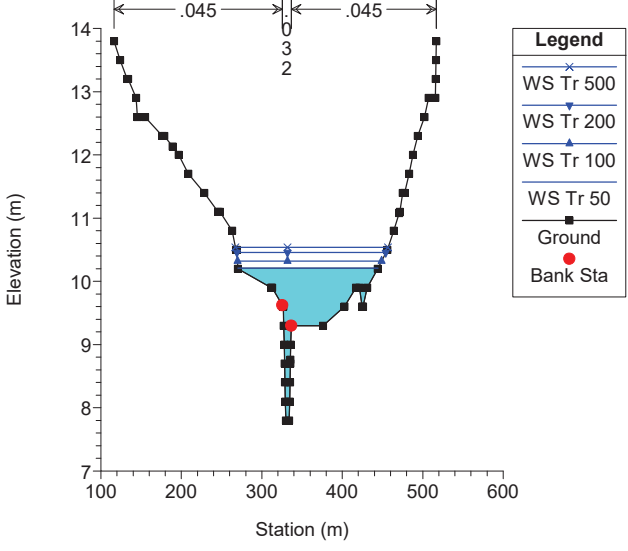
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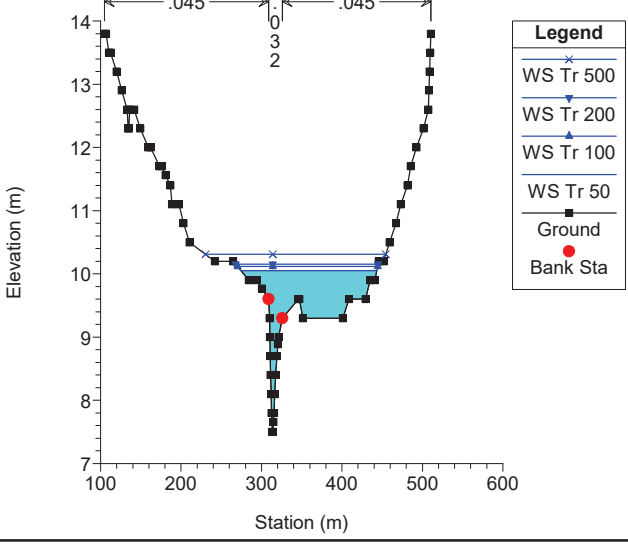
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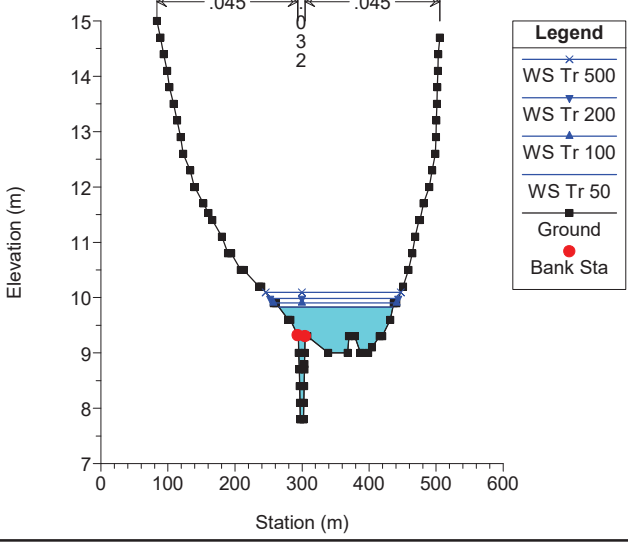
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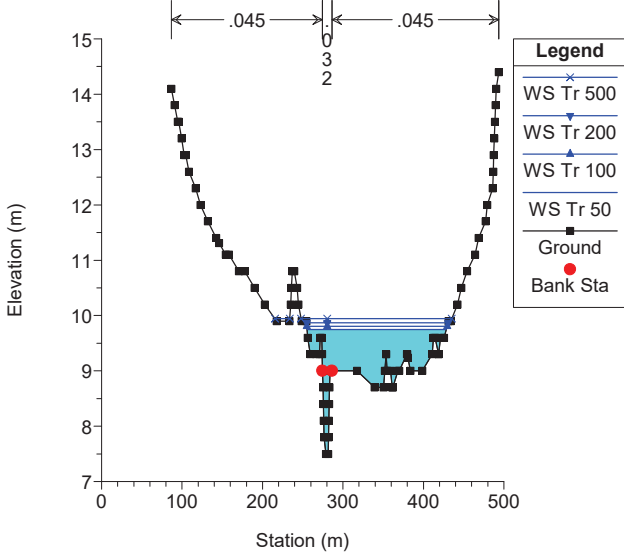
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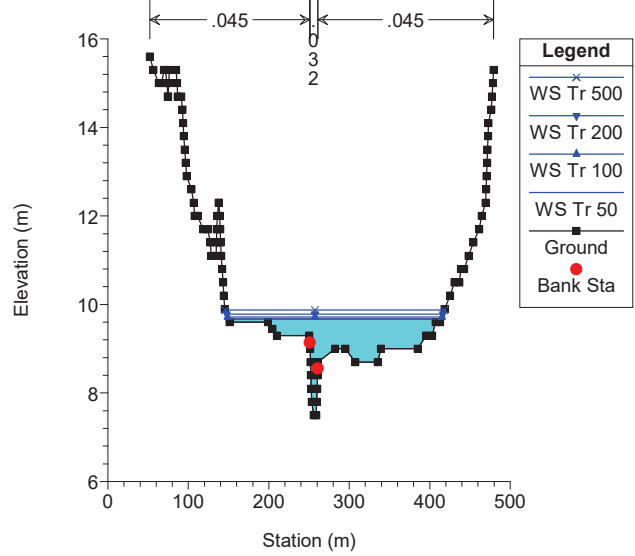
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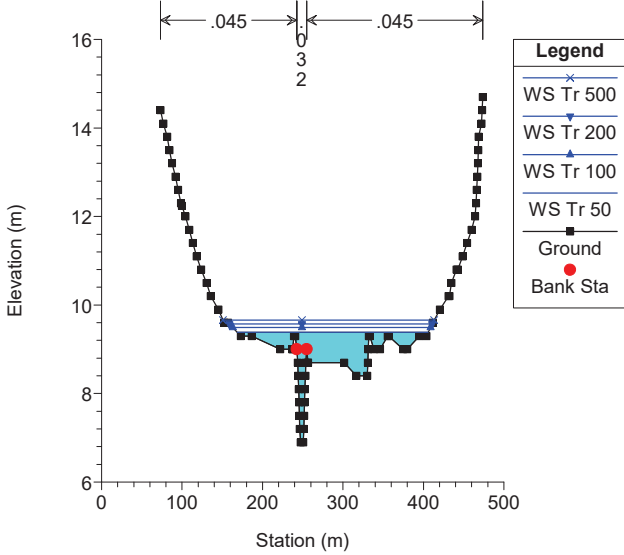
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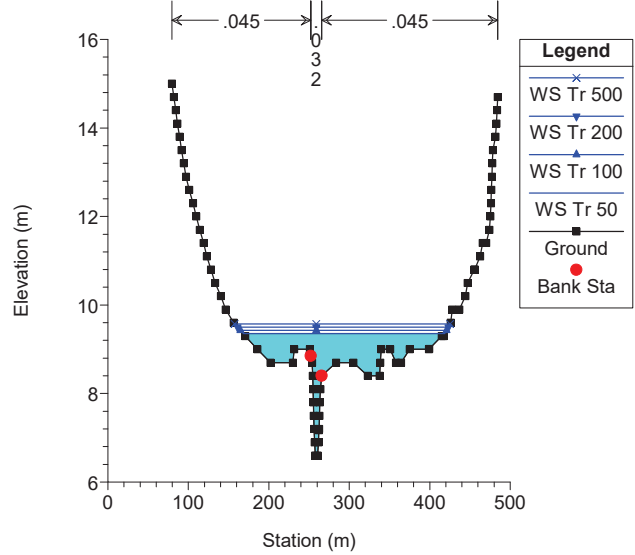
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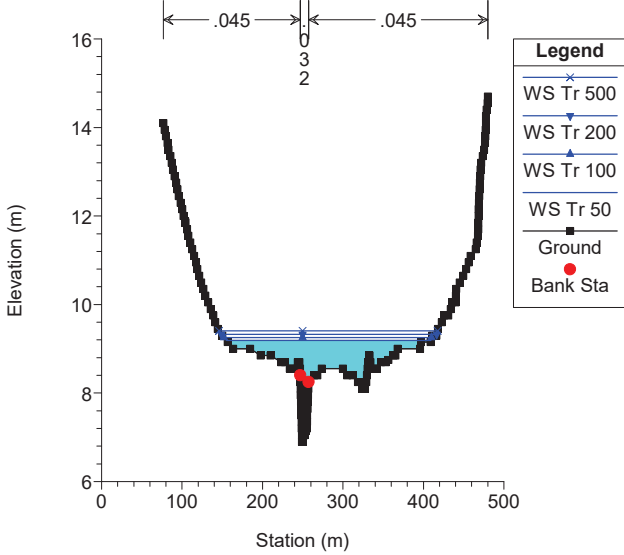
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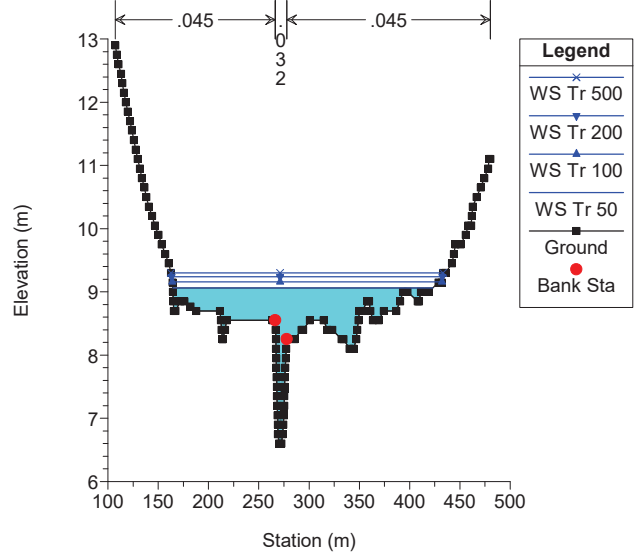
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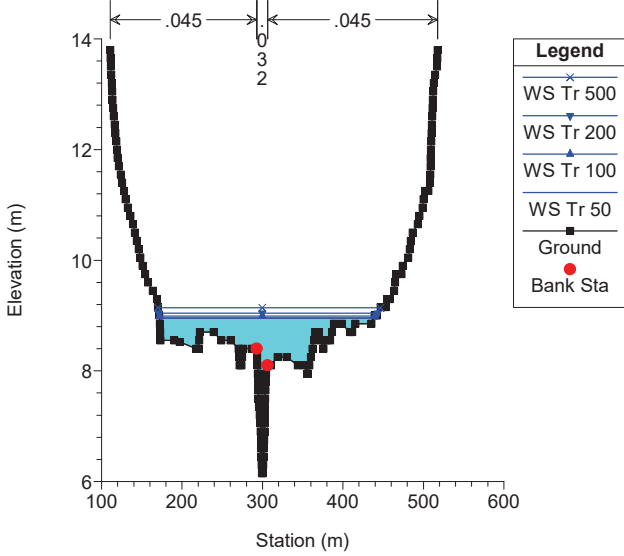
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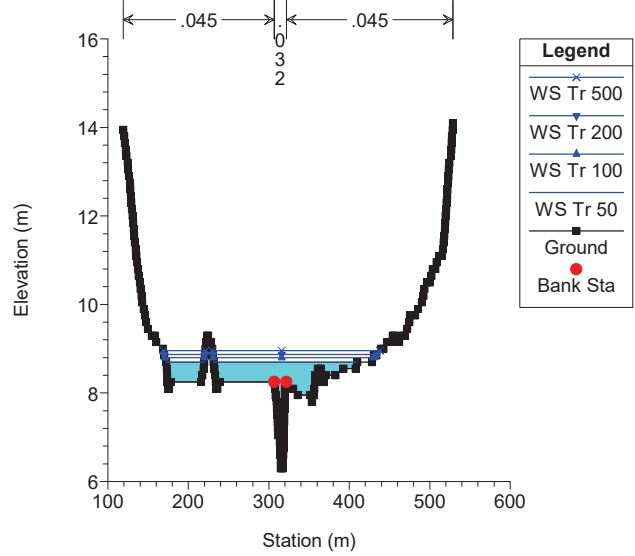
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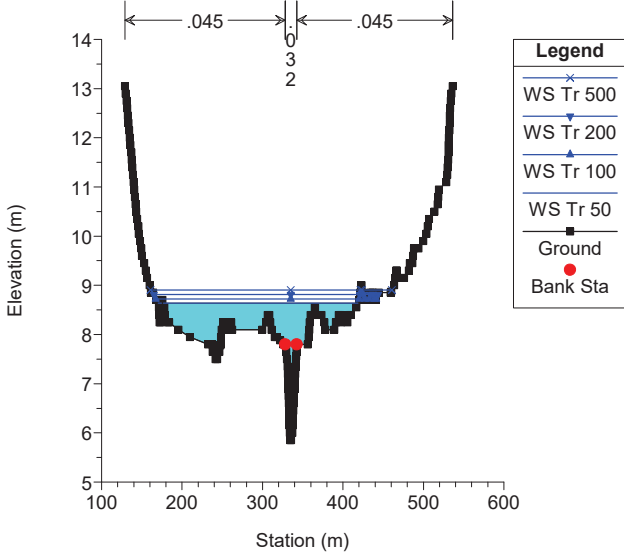
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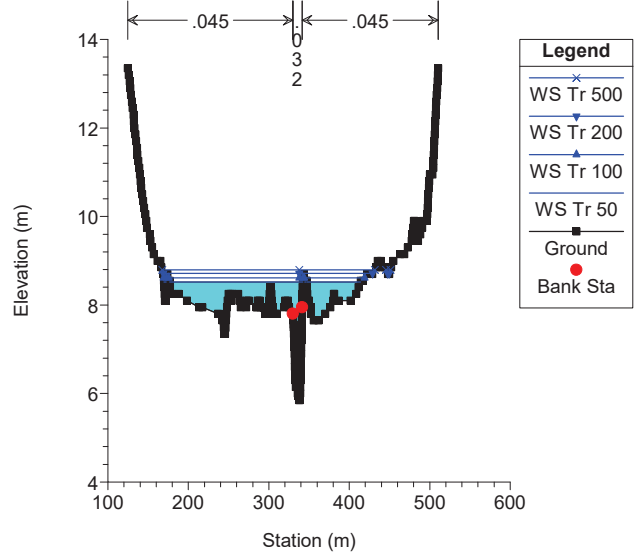
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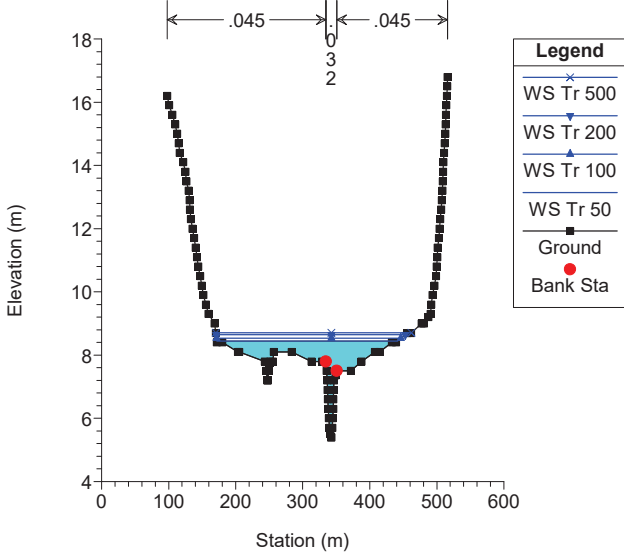
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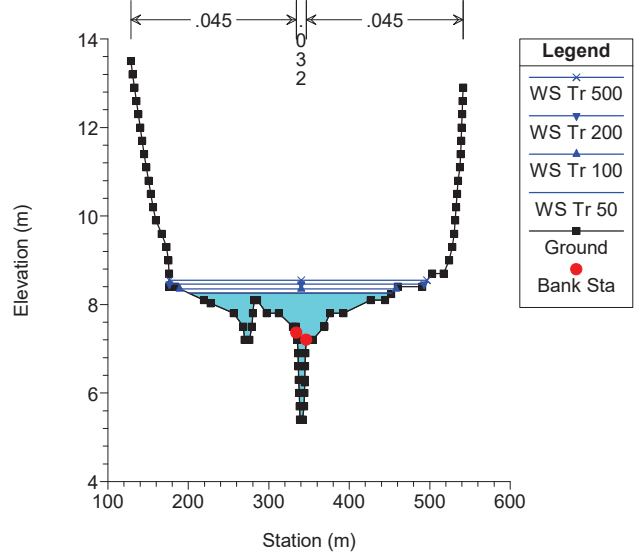
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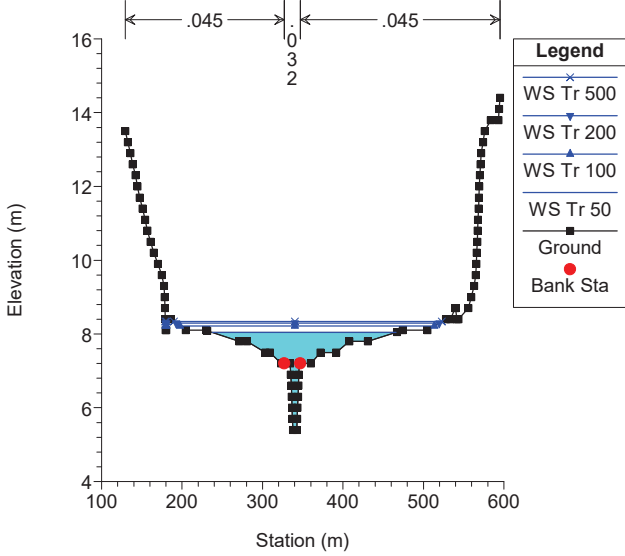
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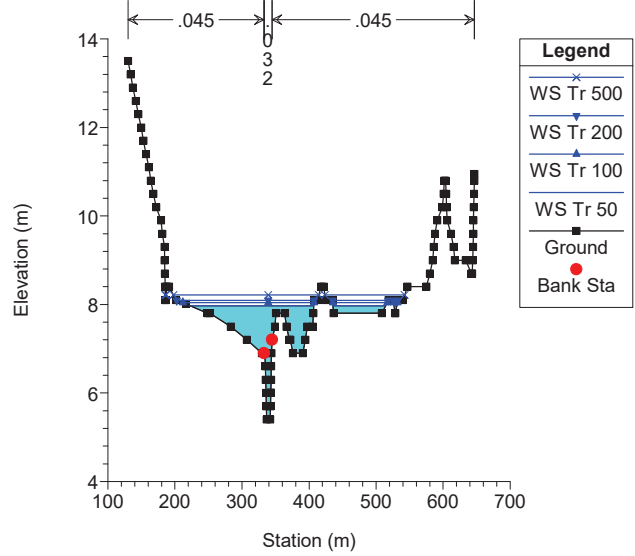
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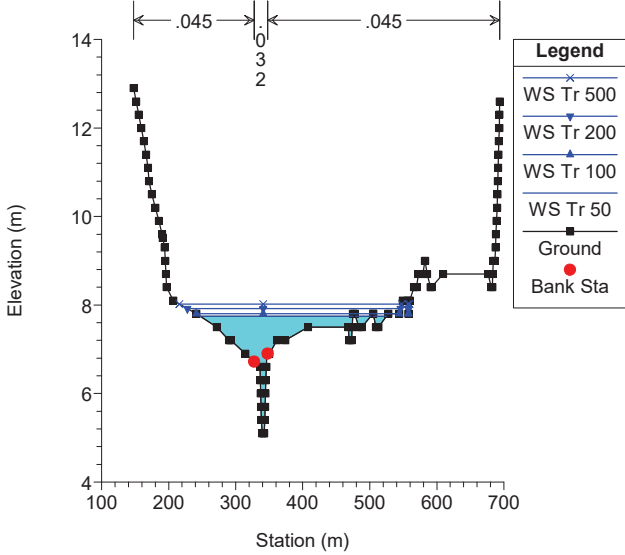
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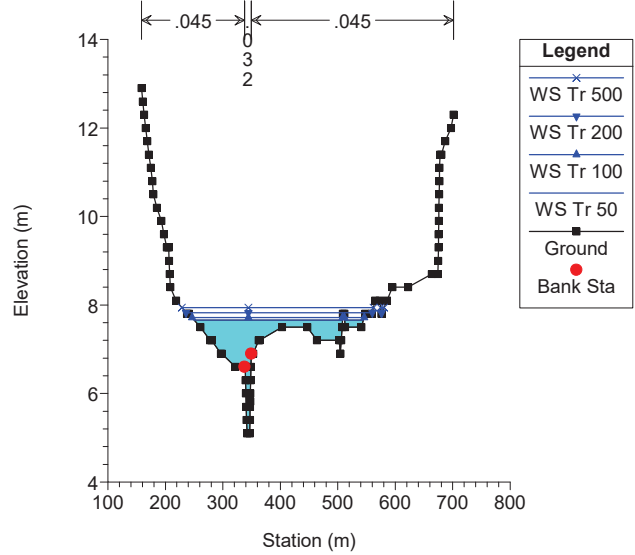
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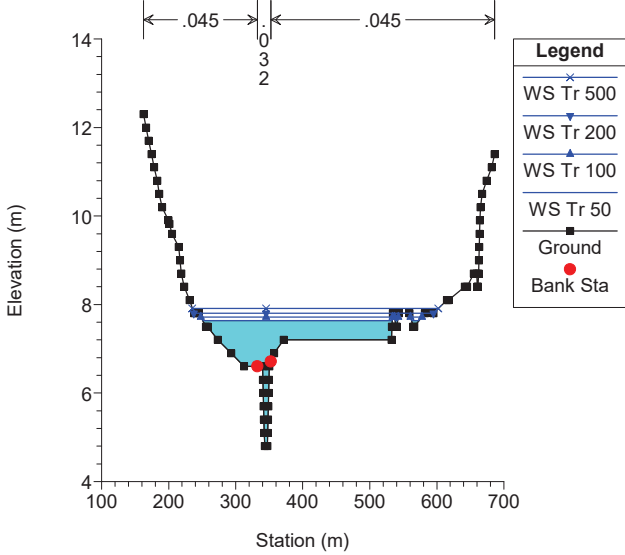
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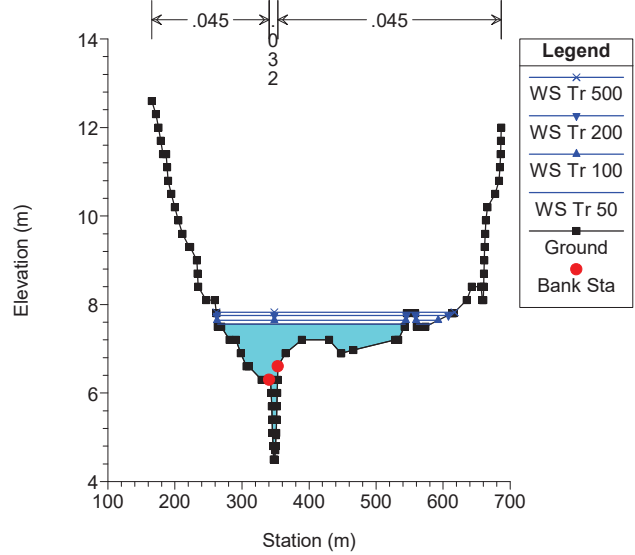
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Cuggiani Reach = Cuggiani-med2 RS = 1223.87

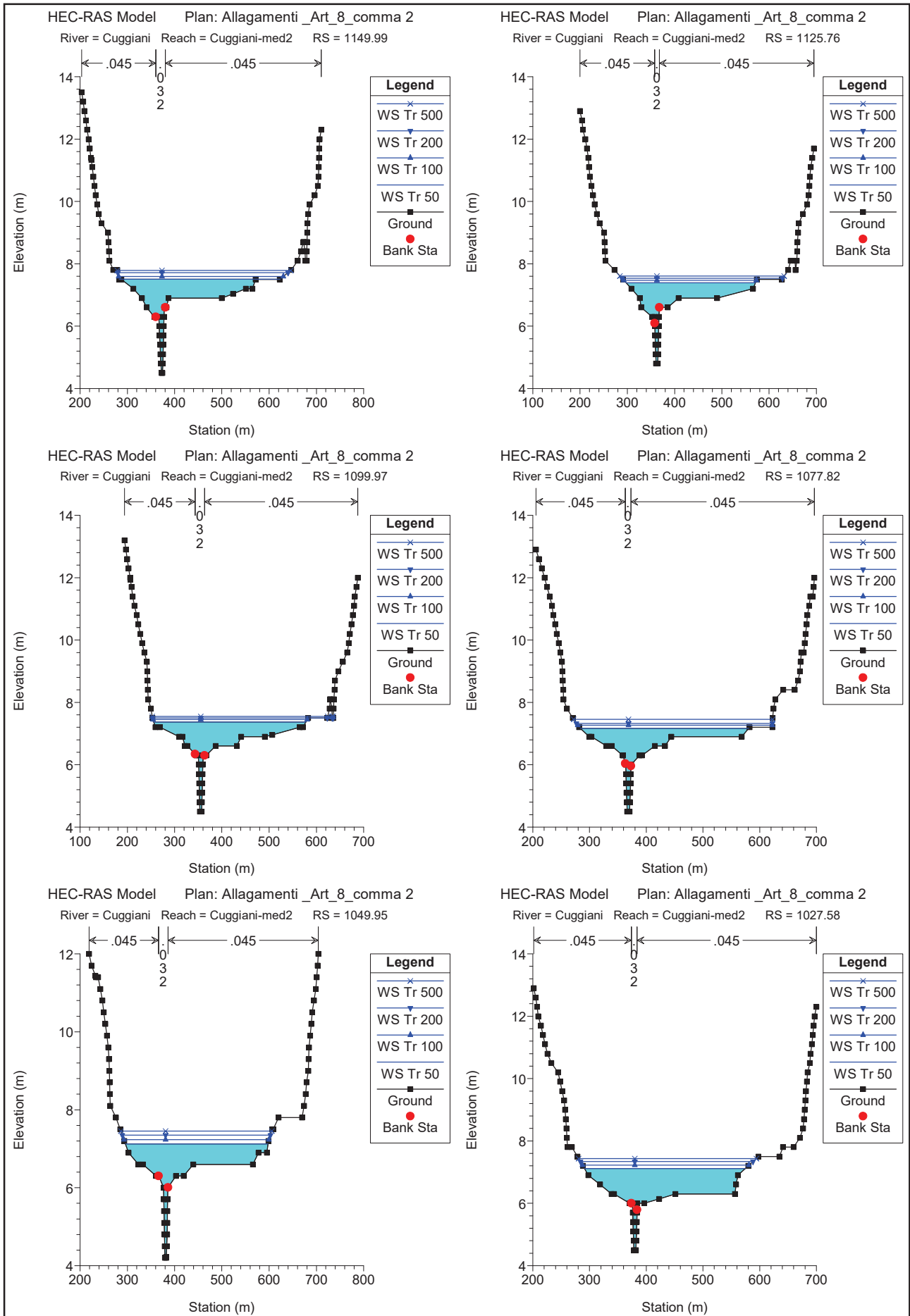


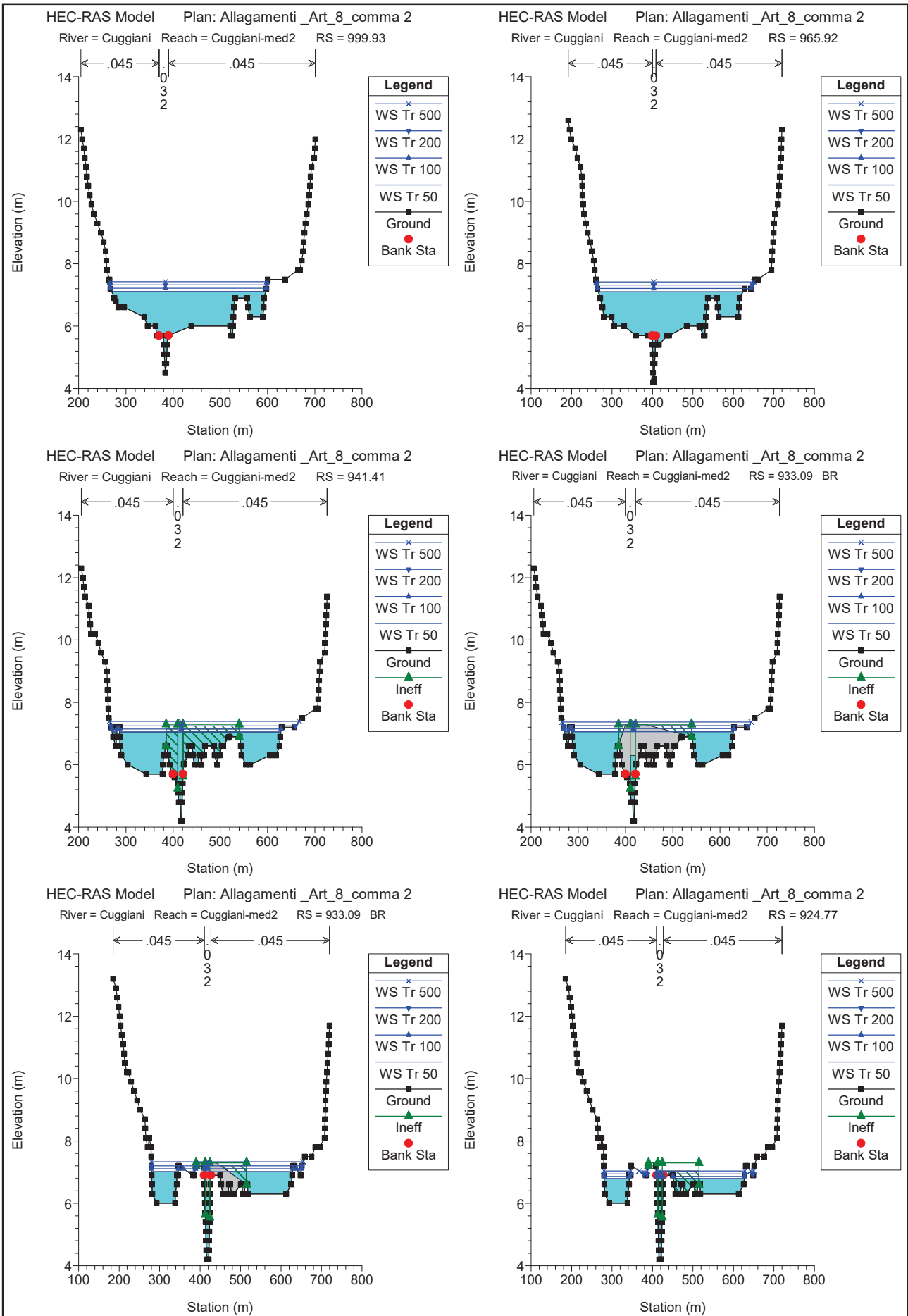
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Cuggiani Reach = Cuggiani-med2 RS = 1200.01



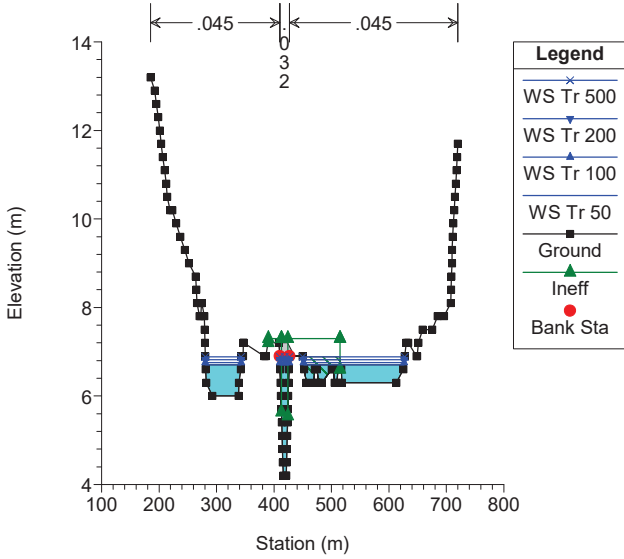
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Cuggiani Reach = Cuggiani-med2 RS = 1173.78



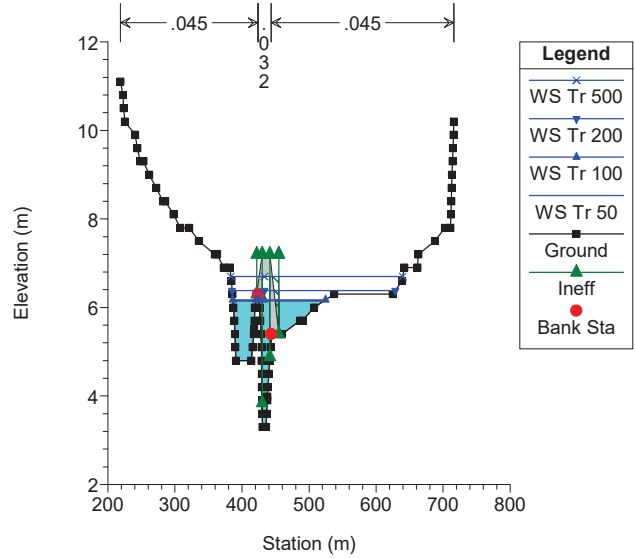




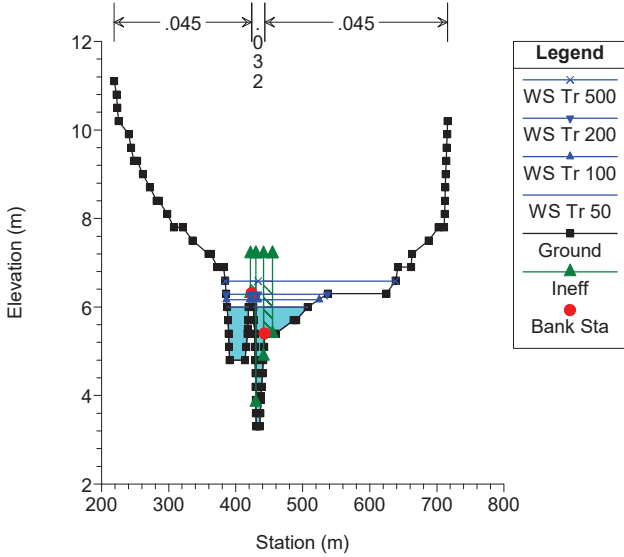
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 921.5 BR



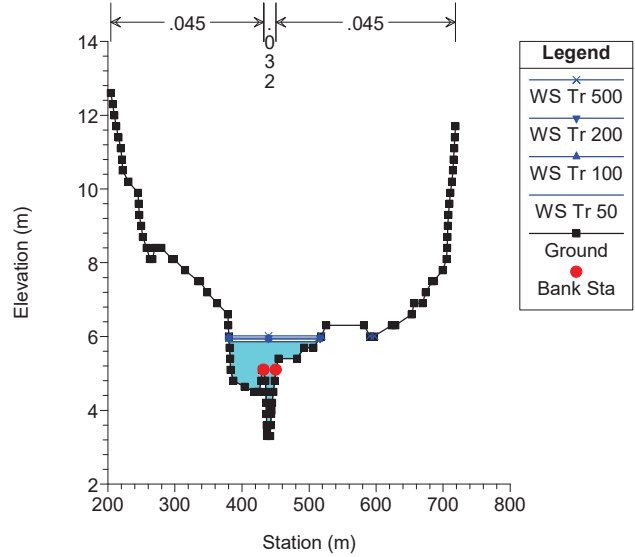
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 921.5 BR



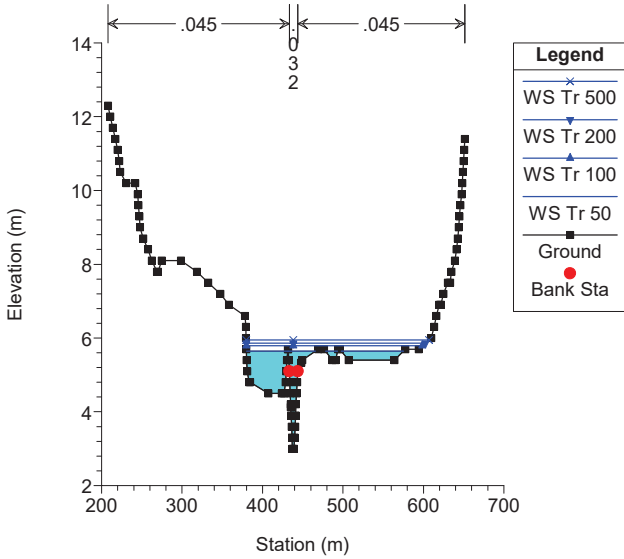
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 915.41



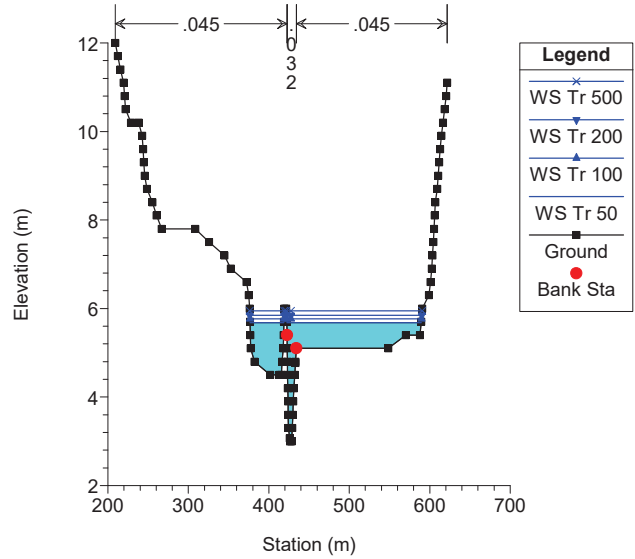
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 899.89



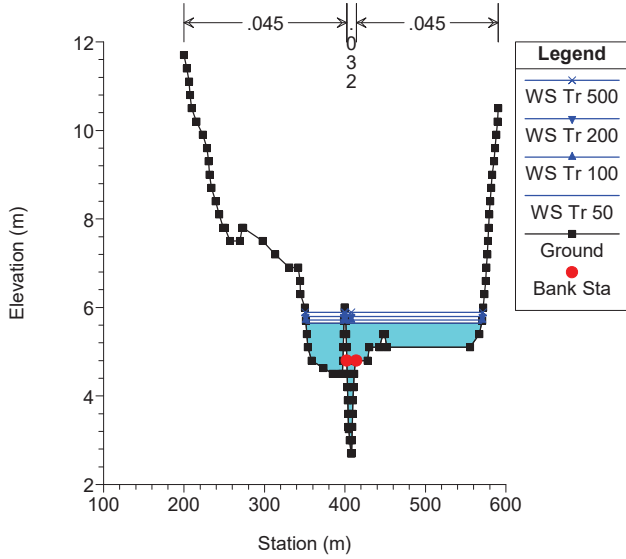
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 883.33



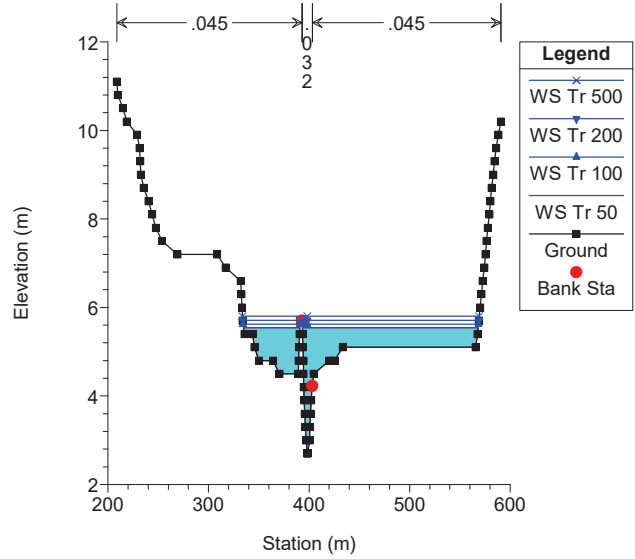
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 867.13



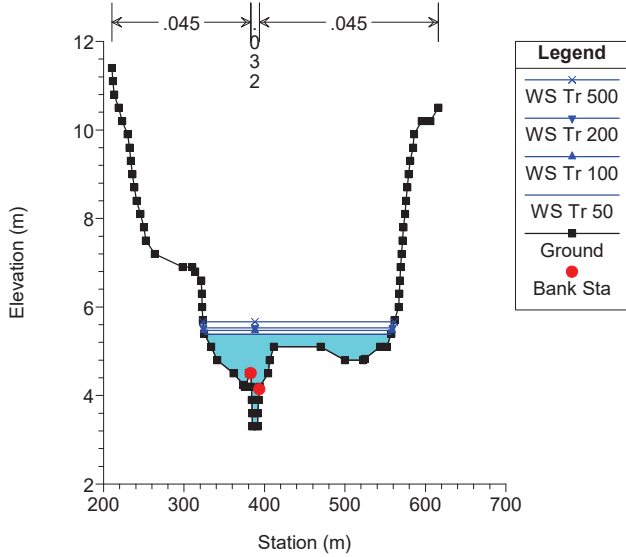
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 849.86



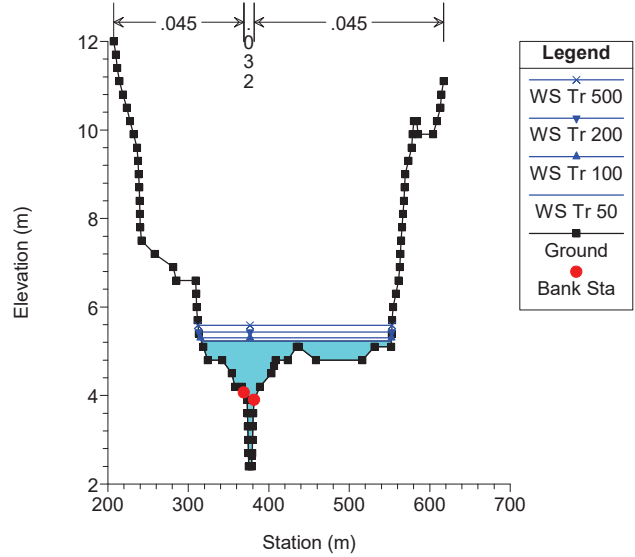
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 828.07



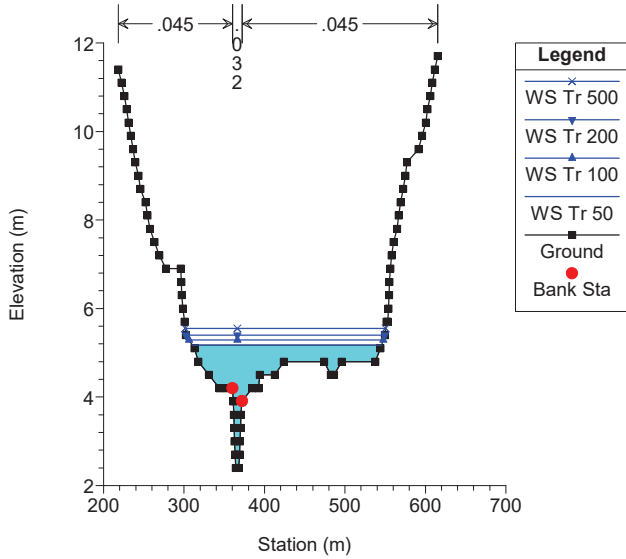
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 799.84



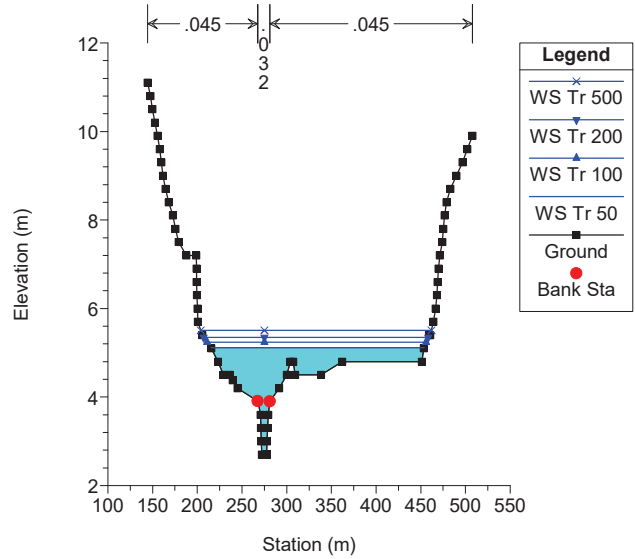
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 774.78

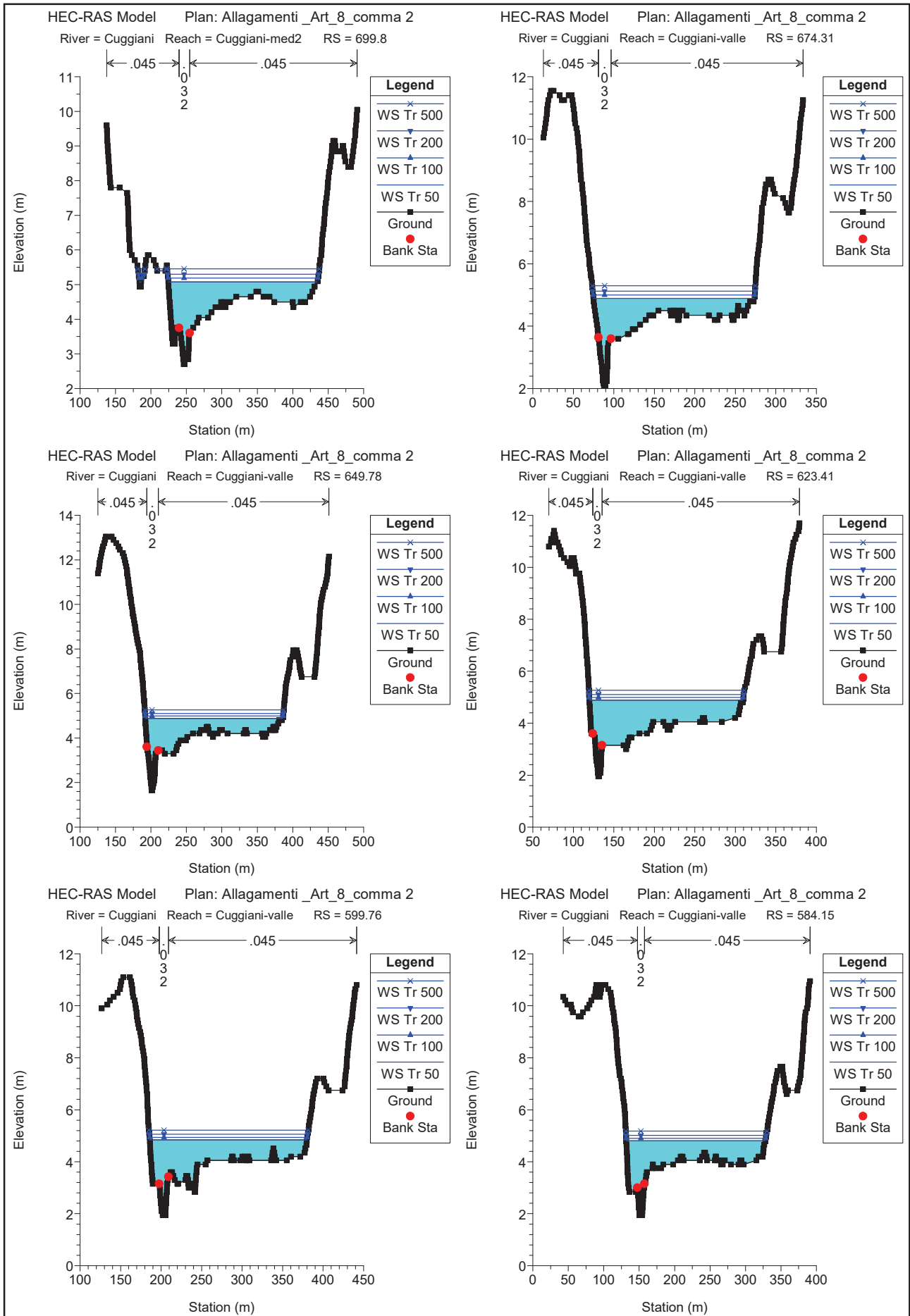


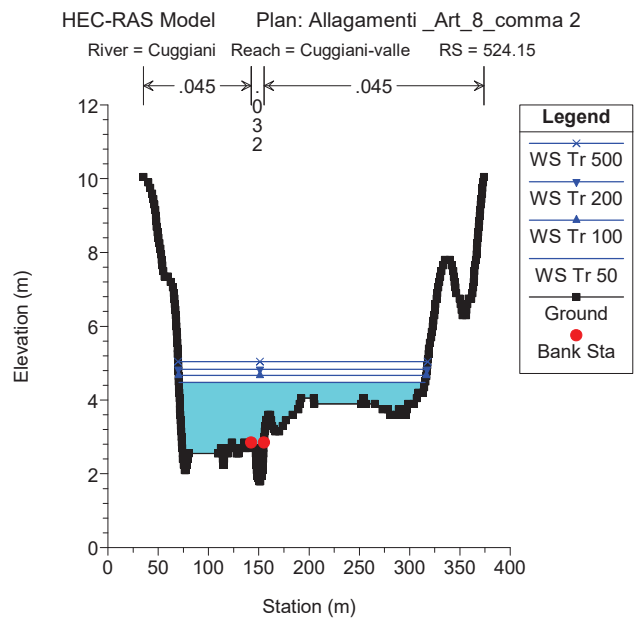
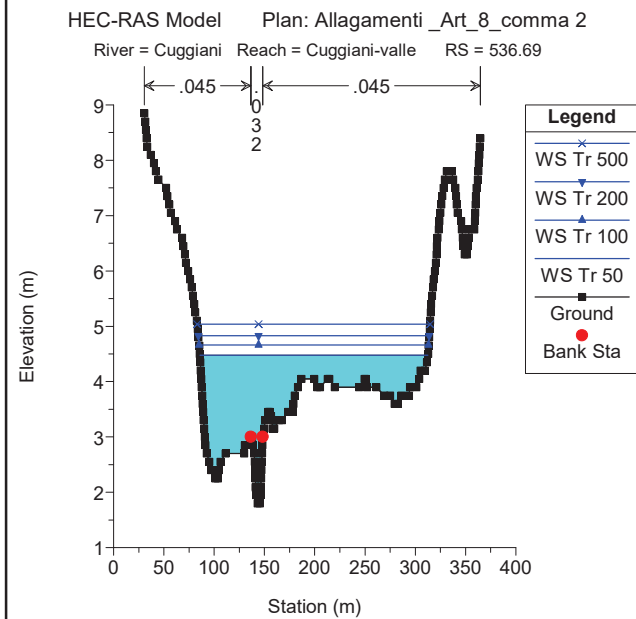
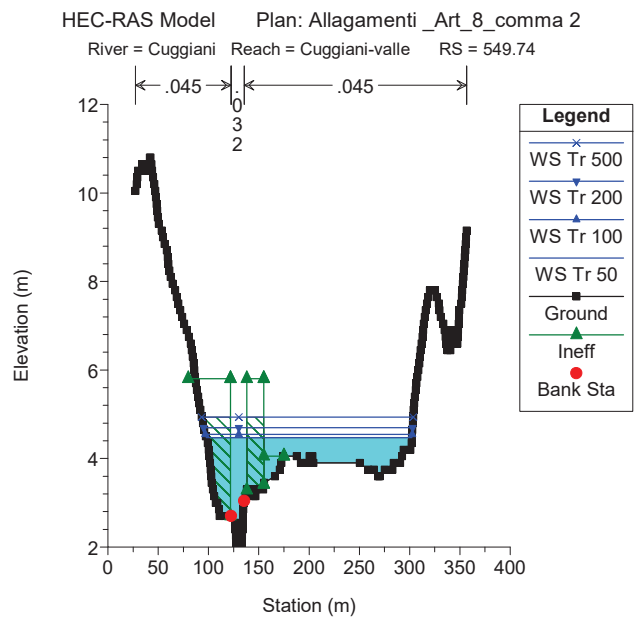
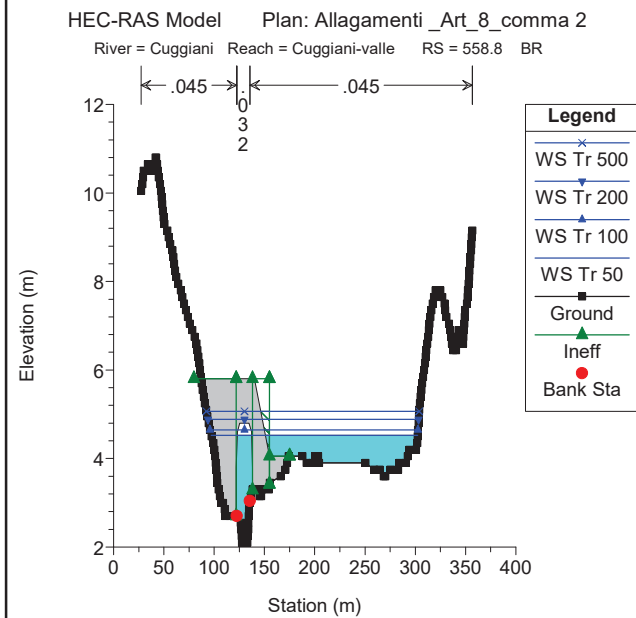
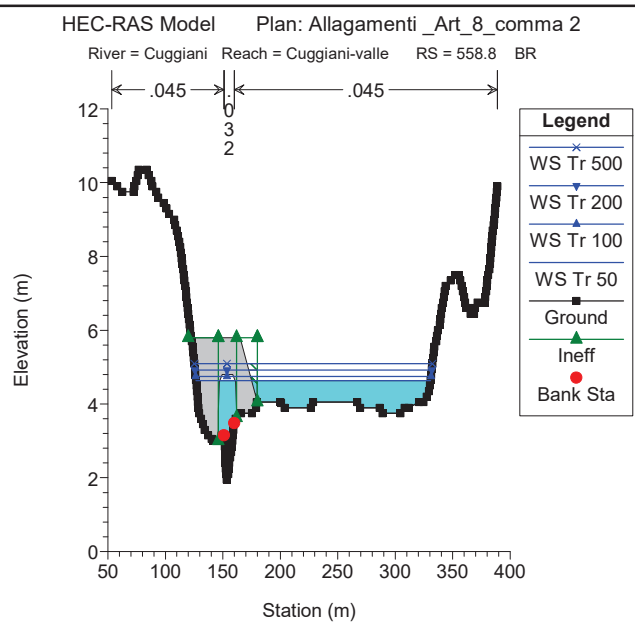
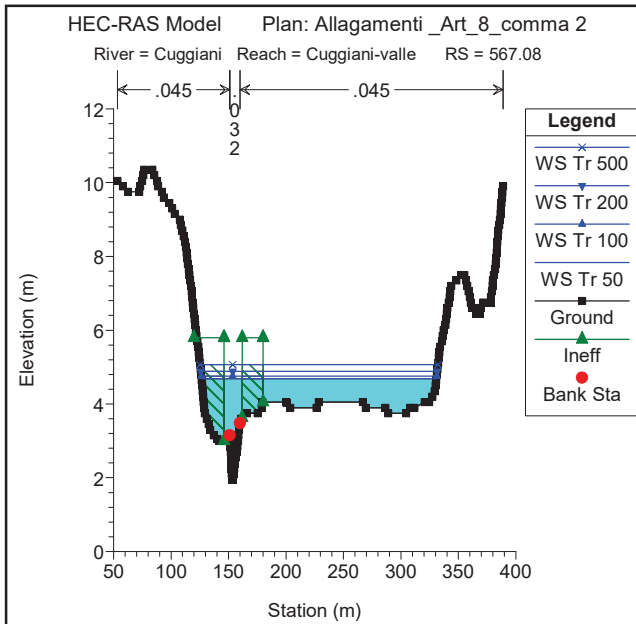
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 749.82

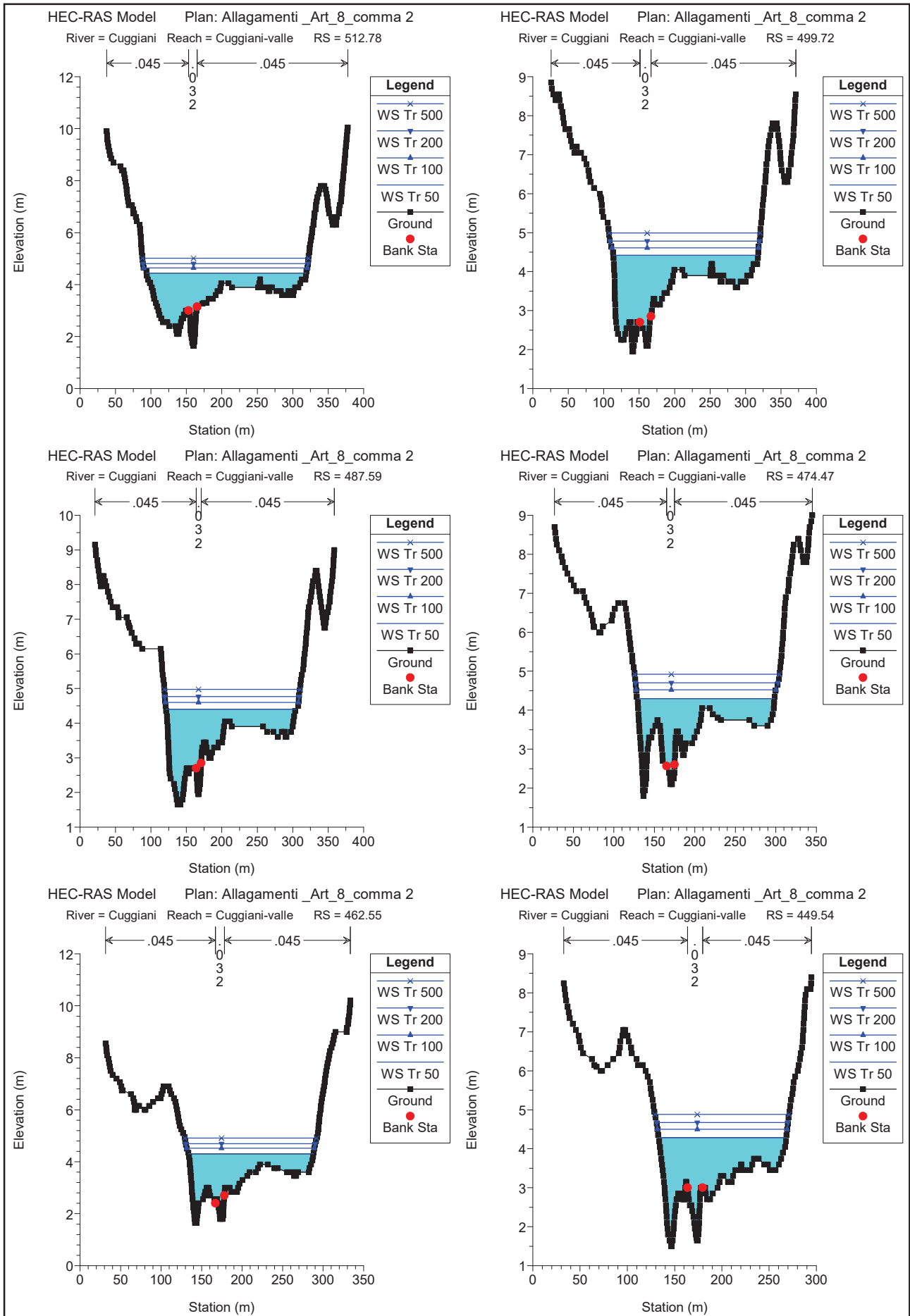


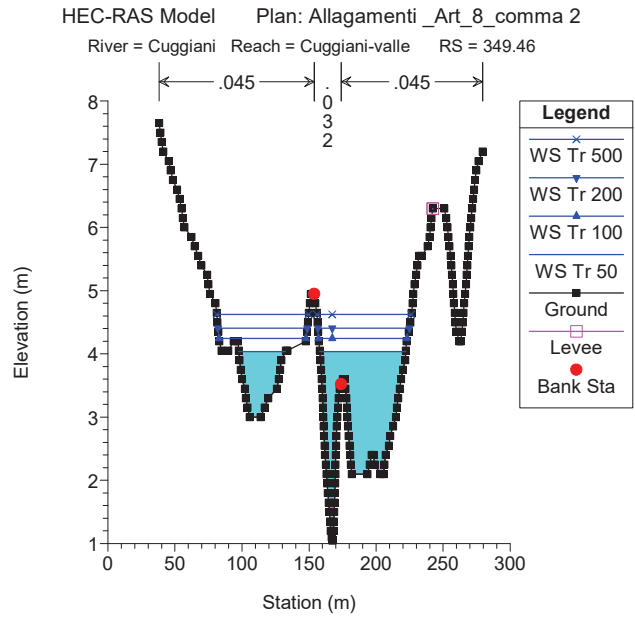
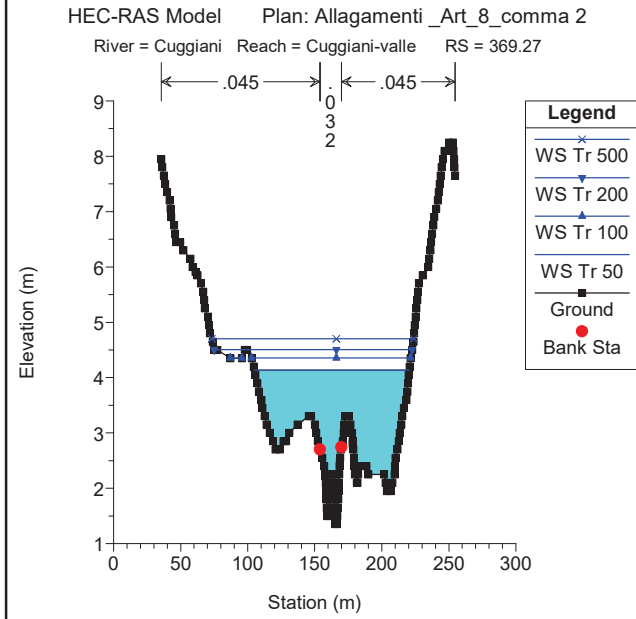
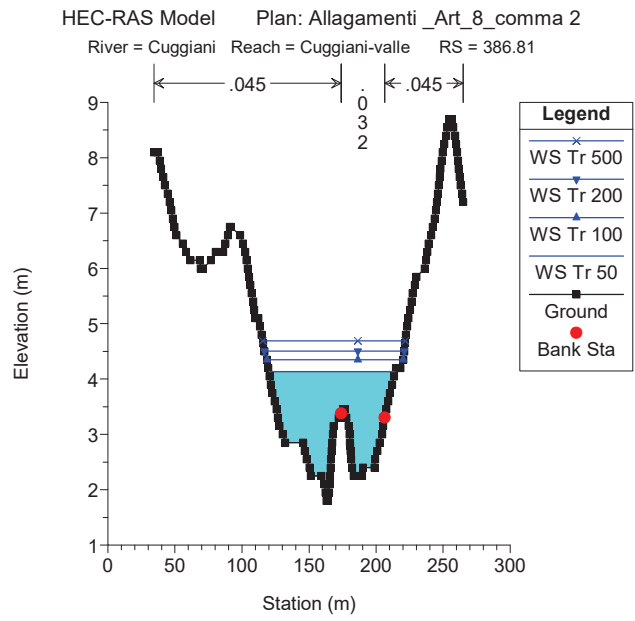
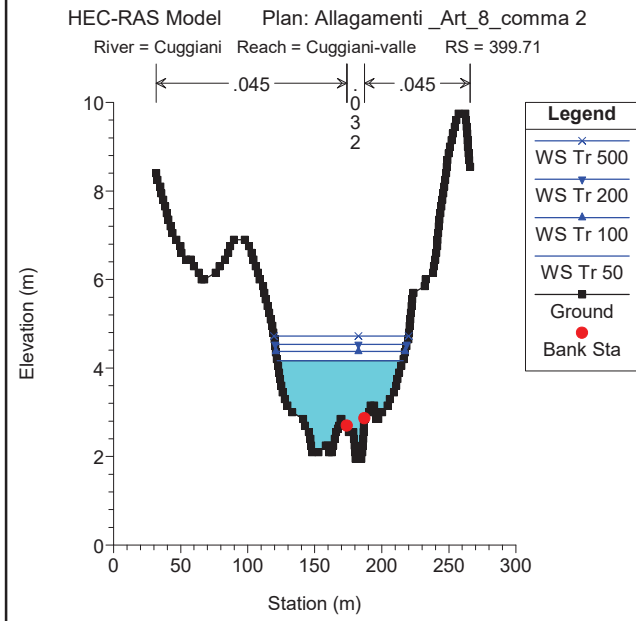
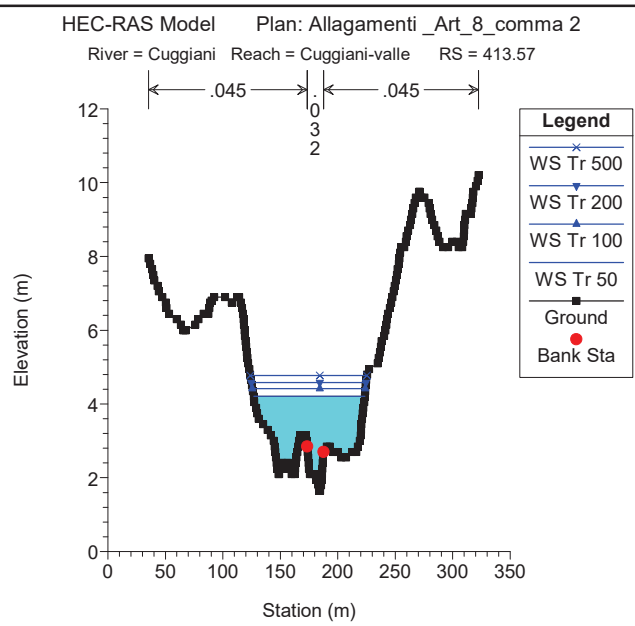
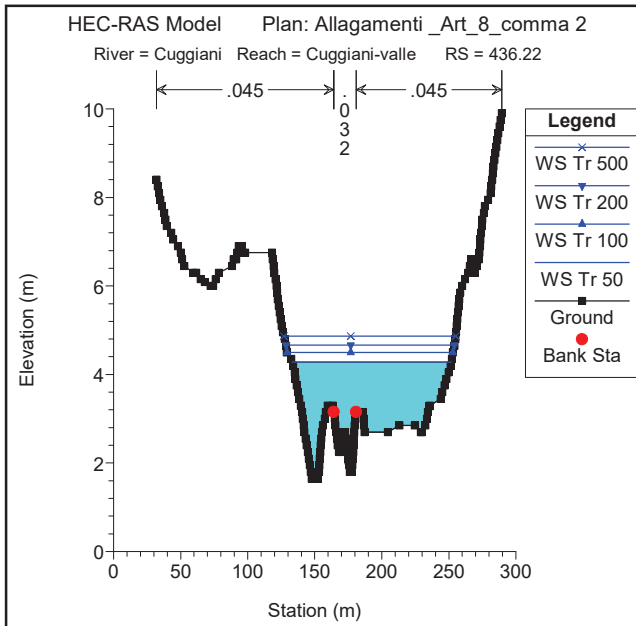
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-med2 RS = 729.03

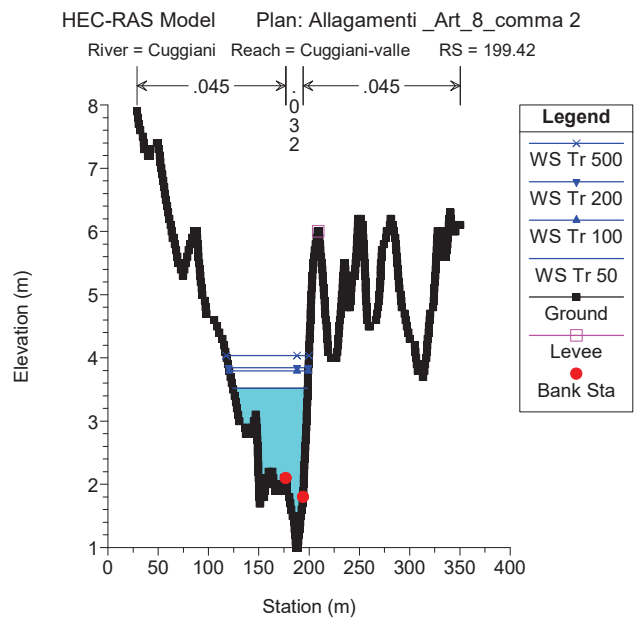
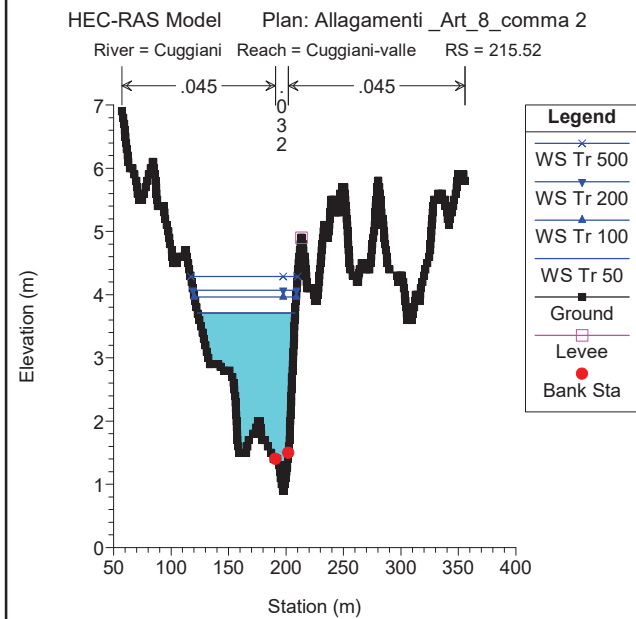
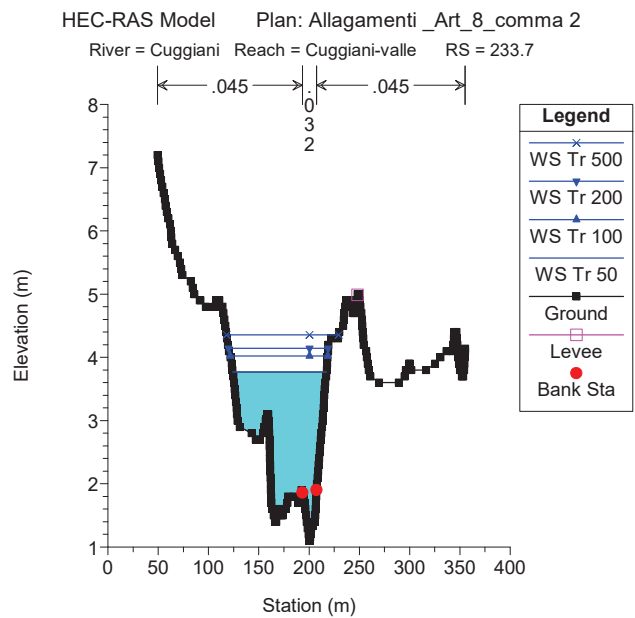
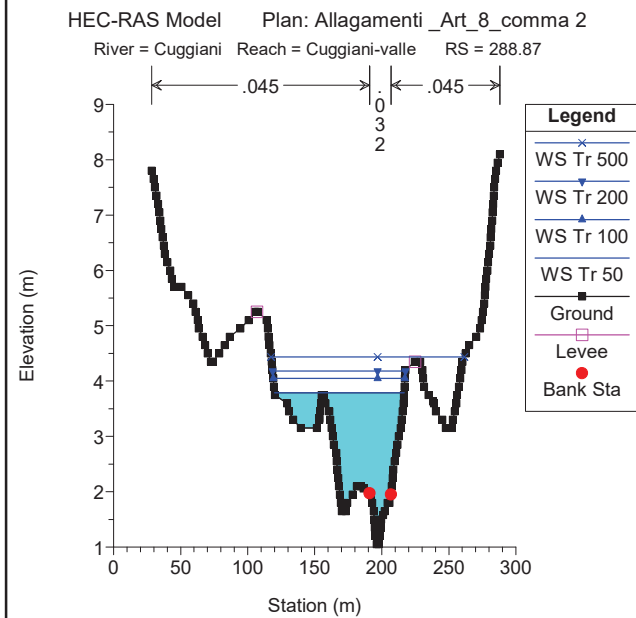
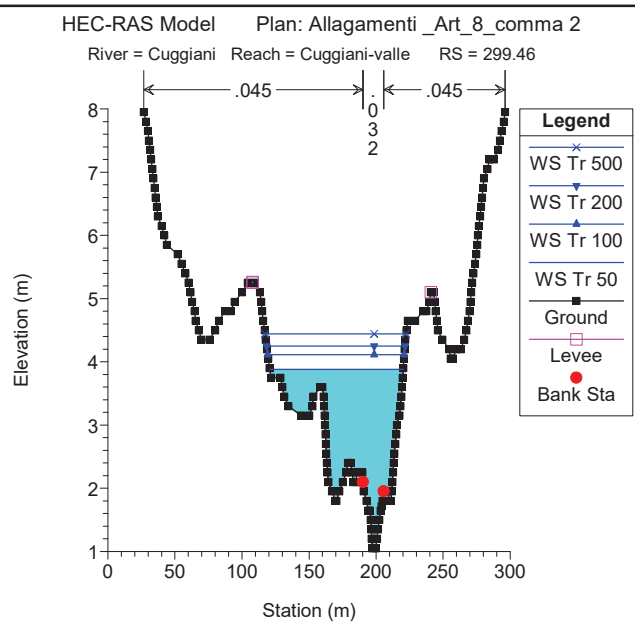
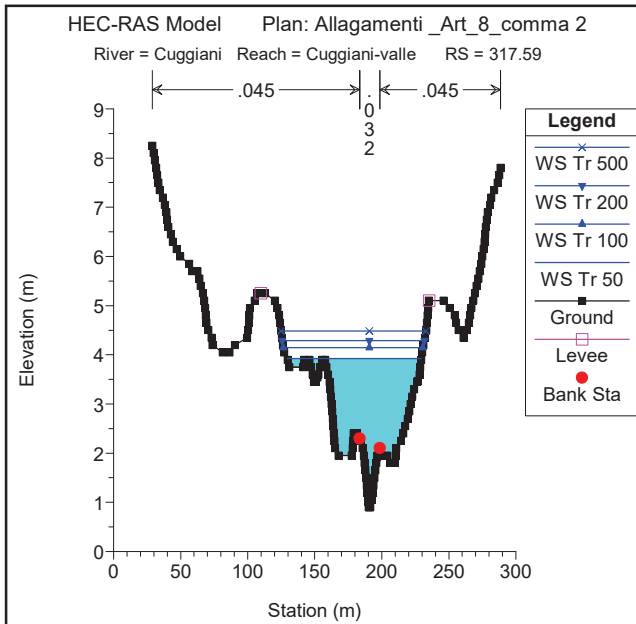


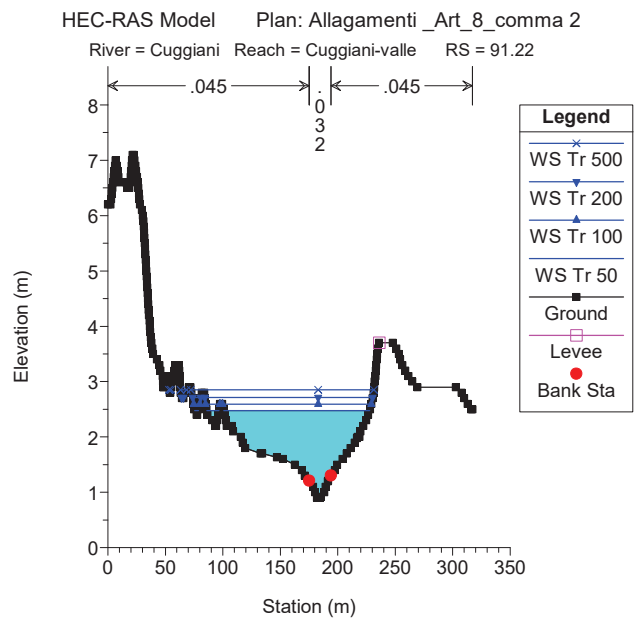
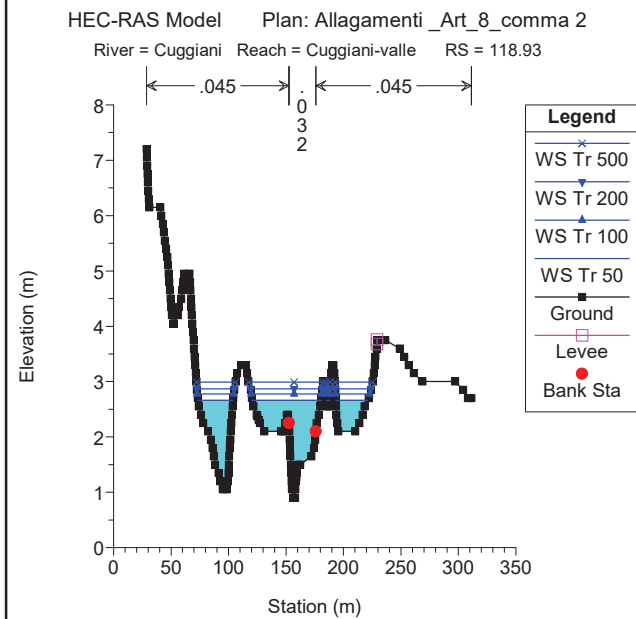
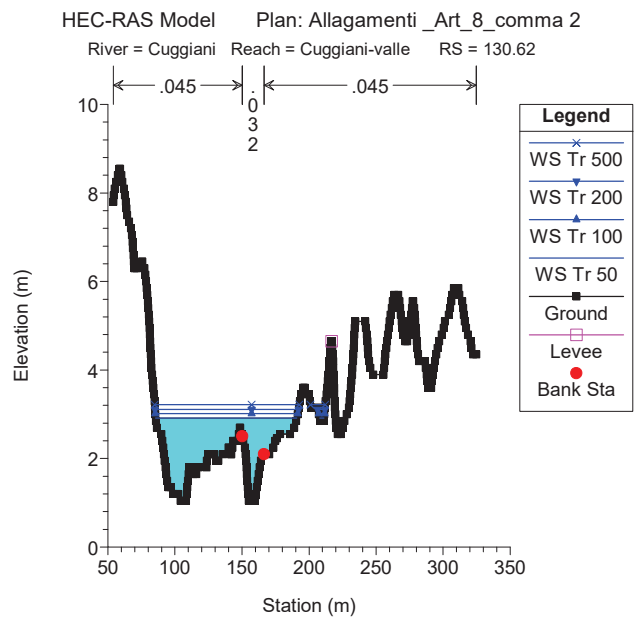
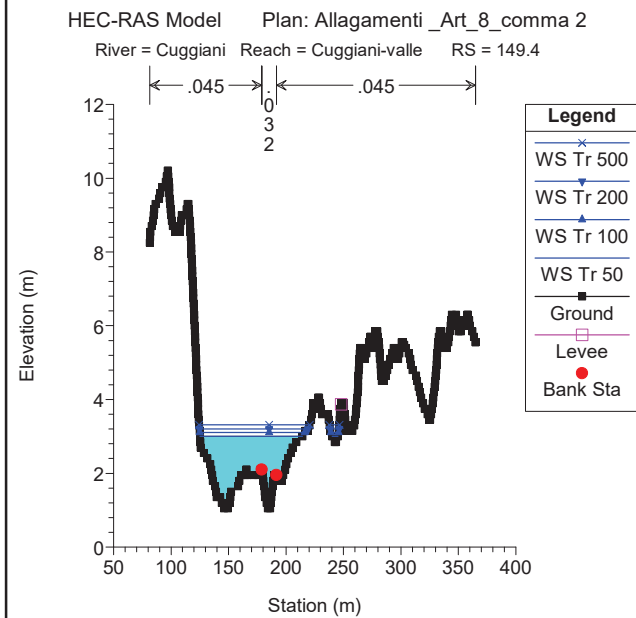
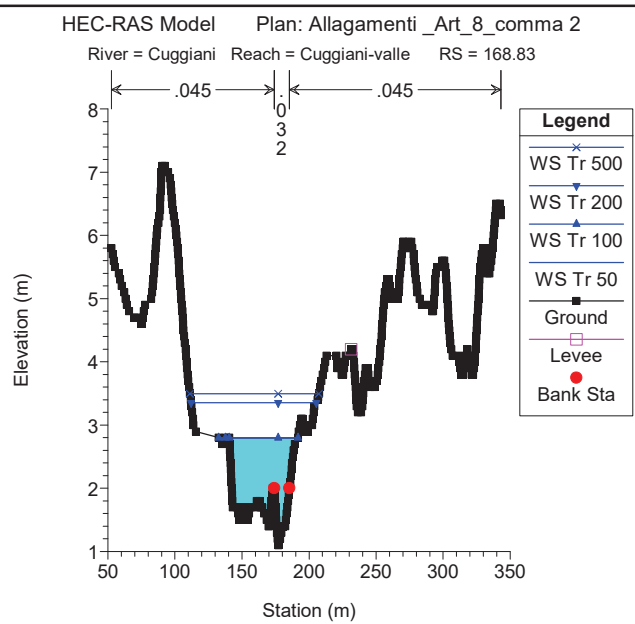
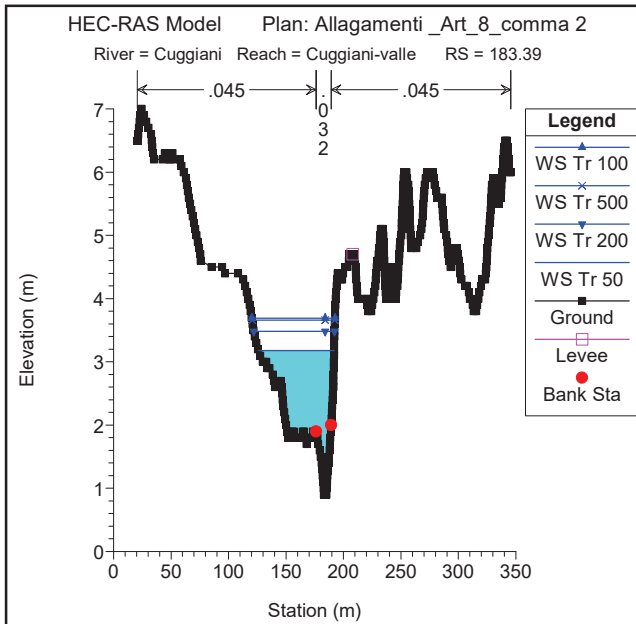




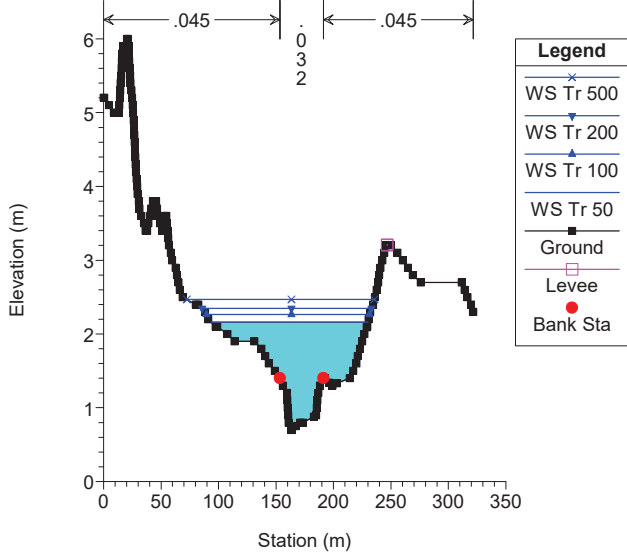




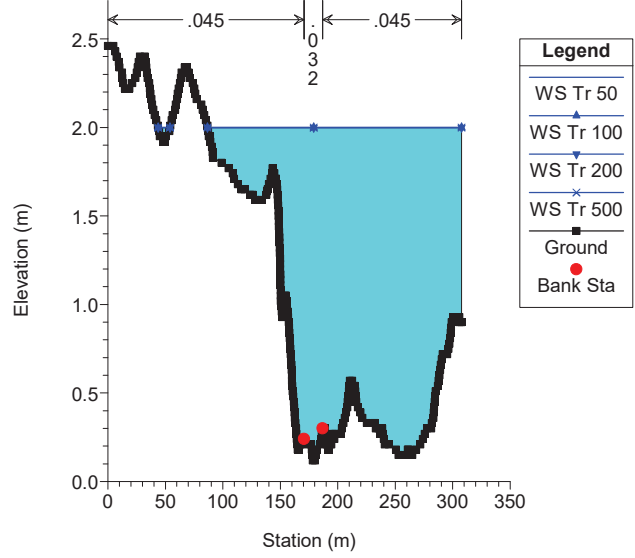




HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-valle RS = 59.97



HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Cuggiani Reach = Cuggiani-valle RS = 7.57



HEC-RAS Plan: Default Scenario River: Santina Reach: Santina

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	2618.67	Tr 50	23.85	58.38	58.64	58.62	58.76	0.023004	1.35	15.52	51.83	1.10
Santina	2618.67	Tr 100	28.58	58.38	58.71	58.66	58.82	0.017605	1.38	18.90	53.10	1.00
Santina	2618.67	Tr 200	33.44	58.38	58.71	58.69	58.87	0.022777	1.59	19.24	53.22	1.15
Santina	2618.67	Tr 500	40.14	58.38	58.77	58.74	58.94	0.021190	1.69	22.07	54.19	1.13
Santina	2593.54	Tr 50	23.85	57.73	58.09	58.06	58.21	0.021353	1.35	15.47	49.60	1.07
Santina	2593.54	Tr 100	28.58	57.73	58.09	58.09	58.26	0.029031	1.60	15.74	49.71	1.26
Santina	2593.54	Tr 200	33.44	57.73	58.16	58.13	58.32	0.021874	1.63	18.99	50.95	1.14
Santina	2593.54	Tr 500	40.14	57.73	58.20	58.18	58.38	0.022682	1.80	21.07	51.69	1.18
Santina	2568.41	Tr 50	23.85	57.18	57.45	57.45	57.60	0.027932	1.55	13.96	46.55	1.23
Santina	2568.41	Tr 100	28.58	57.18	57.85		57.88	0.002461	0.82	36.26	68.89	0.42
Santina	2568.41	Tr 200	33.44	57.18	57.53	57.53	57.71	0.026239	1.78	17.76	49.09	1.24
Santina	2568.41	Tr 500	40.14	57.18	57.58	57.58	57.78	0.025275	1.90	20.27	50.70	1.25
Santina	2543.28	Tr 50	23.85	56.70	57.19		57.25	0.006003	1.33	23.47	62.20	0.67
Santina	2543.28	Tr 100	28.58	56.70	57.85		57.86	0.000304	0.57	75.75	93.05	0.18
Santina	2543.28	Tr 200	33.44	56.70	57.23		57.32	0.008962	1.72	25.82	64.54	0.82
Santina	2543.28	Tr 500	40.14	56.70	57.28		57.39	0.009072	1.86	29.21	67.79	0.84
Santina	2517.88	Tr 50	23.85	56.30	56.68	56.68	56.93	0.033579	2.49	11.12	37.31	1.48
Santina	2517.88	Tr 100	28.58	56.30	57.85		57.85	0.000134	0.46	96.49	87.25	0.12
Santina	2517.88	Tr 200	33.44	56.30	56.85	56.85	57.02	0.017113	2.42	20.90	62.89	1.14
Santina	2517.88	Tr 500	40.14	56.30	56.89	56.89	57.08	0.017058	2.56	23.69	64.08	1.16
Santina	2492.45	Tr 50	23.85	55.78	56.42		56.49	0.005143	1.47	21.71	43.91	0.64
Santina	2492.45	Tr 100	28.58	55.78	57.85		57.85	0.000080	0.44	100.37	67.85	0.10
Santina	2492.45	Tr 200	33.44	55.78	56.55		56.63	0.004808	1.65	27.52	45.46	0.65
Santina	2492.45	Tr 500	40.14	55.78	56.63		56.72	0.004760	1.76	31.02	46.23	0.65
Santina	2467.05	Tr 50	23.85	55.20	56.08	56.08	56.29	0.010506	2.68	14.88	34.62	0.97
Santina	2467.05	Tr 100	28.58	55.20	55.77	55.77	57.66	0.146193	7.15	5.47	16.93	3.32
Santina	2467.05	Tr 200	33.44	55.20	56.19	56.19	56.44	0.010885	2.98	18.86	37.36	1.01
Santina	2467.05	Tr 500	40.14	55.20	56.27	56.27	56.53	0.010538	3.10	21.84	39.26	1.01
Santina	2441.41	Tr 50	23.85	54.60	55.09	55.09	55.30	0.019848	2.43	12.43	32.03	1.21
Santina	2441.41	Tr 100	28.58	54.60	55.19	55.15	55.38	0.014554	2.40	15.65	35.05	1.07
Santina	2441.41	Tr 200	33.44	54.60	55.22	55.21	55.45	0.015680	2.61	16.95	36.32	1.13
Santina	2441.41	Tr 500	40.14	54.60	55.28	55.28	55.54	0.015795	2.80	19.10	38.42	1.15
Santina	2415.98	Tr 50	23.85	54.30	54.99		55.04	0.003226	1.32	25.34	51.57	0.53
Santina	2415.98	Tr 100	28.58	54.30	54.82	54.82	55.01	0.014771	2.32	17.07	47.17	1.07
Santina	2415.98	Tr 200	33.44	54.30	54.87	54.87	55.07	0.014234	2.42	19.29	48.88	1.07
Santina	2415.98	Tr 500	40.14	54.30	54.93	54.93	55.14	0.013493	2.53	22.26	50.56	1.06
Santina	2390.34	Tr 50	23.85	53.55	54.14	54.14	54.78	0.040422	4.42	8.26	27.17	1.84
Santina	2390.34	Tr 100	28.58	53.55	54.43	54.43	54.65	0.009784	2.84	18.31	41.24	0.97
Santina	2390.34	Tr 200	33.44	53.55	54.48	54.48	54.72	0.010280	3.02	20.40	43.79	1.00
Santina	2390.34	Tr 500	40.14	53.55	54.55	54.55	54.81	0.010263	3.17	23.78	48.05	1.01
Santina	2365.21	Tr 50	23.85	52.65	53.23	53.23	53.45	0.012278	2.31	12.50	27.34	1.00
Santina	2365.21	Tr 100	28.58	52.65	53.29	53.29	53.54	0.011556	2.42	14.51	32.42	0.99
Santina	2365.21	Tr 200	33.44	52.65	53.36	53.36	53.62	0.010666	2.49	16.80	34.62	0.97
Santina	2365.21	Tr 500	40.14	52.65	53.37	53.37	53.72	0.014643	2.95	17.11	34.90	1.13
Santina	2340.08	Tr 50	23.85	51.90	52.30	52.30	52.48	0.022071	2.51	13.51	39.57	1.27
Santina	2340.08	Tr 100	28.58	51.90	52.35	52.35	52.55	0.020549	2.63	15.64	41.28	1.25
Santina	2340.08	Tr 200	33.44	51.90	52.40	52.40	52.61	0.019674	2.76	17.67	42.83	1.25
Santina	2340.08	Tr 500	40.14	51.90	52.46	52.46	52.69	0.018755	2.91	20.37	44.82	1.24
Santina	2314.95	Tr 50	23.85	50.70	51.54	51.54	51.76	0.009123	2.39	14.24	32.77	0.90
Santina	2314.95	Tr 100	28.58	50.70	51.60	51.60	51.84	0.009258	2.54	16.23	33.95	0.92
Santina	2314.95	Tr 200	33.44	50.70	51.66	51.66	51.92	0.009416	2.68	18.15	35.16	0.94
Santina	2314.95	Tr 500	40.14	50.70	51.73	51.73	52.02	0.009458	2.84	20.78	36.76	0.95
Santina	2289.82	Tr 50	23.85	50.10	50.94	50.94	51.17	0.009637	2.45	13.70	29.87	0.92
Santina	2289.82	Tr 100	28.58	50.10	51.00	51.00	51.26	0.010092	2.64	15.38	30.75	0.96
Santina	2289.82	Tr 200	33.44	50.10	51.06	51.06	51.34	0.010004	2.76	17.34	31.99	0.96
Santina	2289.82	Tr 500	40.14	50.10	51.14	51.14	51.44	0.009934	2.92	19.91	33.57	0.98
Santina	2264.69	Tr 50	23.85	49.80	50.36	50.36	50.56	0.013305	2.44	14.39	36.76	1.04
Santina	2264.69	Tr 100	28.58	49.80	50.42	50.42	50.63	0.013009	2.56	16.41	37.76	1.05
Santina	2264.69	Tr 200	33.44	49.80	50.47	50.47	50.70	0.012850	2.69	18.31	38.34	1.06
Santina	2264.69	Tr 500	40.14	49.80	50.53	50.53	50.78	0.013129	2.87	20.55	39.01	1.08
Santina	2239.56	Tr 50	23.85	49.20	49.81	49.81	50.01	0.019447	2.67	12.79	32.37	1.23
Santina	2239.56	Tr 100	28.58	49.20	49.87	49.87	50.09	0.018080	2.78	14.82	34.05	1.21
Santina	2239.56	Tr 200	33.44	49.20	49.92	49.92	50.16	0.017856	2.94	16.57	35.43	1.22

HEC-RAS Plan: Default Scenario River: Santana Reach: Santana (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	2239.56	Tr 500	40.14	49.20	49.99	49.99	50.26	0.016796	3.07	19.21	37.41	1.20
Santina	2214.29	Tr 50	23.85	48.60	49.19	49.19	49.39	0.012031	2.38	14.63	37.70	1.00
Santina	2214.29	Tr 100	28.58	48.60	49.25	49.25	49.46	0.011994	2.52	16.69	39.28	1.01
Santina	2214.29	Tr 200	33.44	48.60	49.30	49.30	49.53	0.011741	2.63	18.83	40.81	1.01
Santina	2214.29	Tr 500	40.14	48.60	49.36	49.36	49.62	0.011753	2.79	21.48	42.61	1.03
Santina	2189.02	Tr 50	23.85	47.10	48.34	48.34	48.60	0.007925	2.44	12.89	26.69	0.85
Santina	2189.02	Tr 100	28.58	47.10	48.41	48.41	48.69	0.007935	2.58	14.85	27.32	0.86
Santina	2189.02	Tr 200	33.44	47.10	48.48	48.48	48.78	0.007844	2.70	16.81	27.94	0.87
Santina	2189.02	Tr 500	40.14	47.10	48.56	48.56	48.89	0.008289	2.91	18.89	28.58	0.90
Santina	2163.57	Tr 50	23.85	46.65	47.49	47.49	47.69	0.015188	2.69	13.79	34.21	1.11
Santina	2163.57	Tr 100	28.58	46.65	47.54	47.54	47.76	0.015058	2.84	15.66	35.16	1.12
Santina	2163.57	Tr 200	33.44	46.65	47.59	47.59	47.83	0.014906	2.97	17.49	35.92	1.13
Santina	2163.57	Tr 500	40.14	46.65	47.66	47.66	47.92	0.014891	3.15	19.80	36.82	1.15
Santina	2138.1	Tr 50	23.85	46.50	47.02	47.02	47.18	0.017048	2.31	15.03	45.97	1.13
Santina	2138.1	Tr 100	28.58	46.50	47.07	47.07	47.25	0.016326	2.42	17.19	47.15	1.12
Santina	2138.1	Tr 200	33.44	46.50	47.11	47.11	47.30	0.015942	2.53	19.23	48.11	1.13
Santina	2138.1	Tr 500	40.14	46.50	47.16	47.16	47.38	0.015667	2.68	21.76	48.83	1.13
Santina	2112.65	Tr 50	23.85	45.60	46.17	46.17	46.38	0.012875	2.20	13.26	39.73	1.00
Santina	2112.65	Tr 100	28.58	45.60	46.25	46.25	46.45	0.010086	2.17	16.79	44.40	0.91
Santina	2112.65	Tr 200	33.44	45.60	46.30	46.30	46.52	0.009754	2.26	19.17	46.48	0.91
Santina	2112.65	Tr 500	40.14	45.60	46.37	46.37	46.60	0.009355	2.36	22.35	48.88	0.91
Santina	2087.18	Tr 50	23.85	45.00	45.64	45.64	45.85	0.012784	2.61	13.47	31.55	1.05
Santina	2087.18	Tr 100	28.58	45.00	45.71	45.71	45.93	0.011953	2.71	15.86	36.34	1.03
Santina	2087.18	Tr 200	33.44	45.00	45.76	45.76	46.00	0.011803	2.84	18.08	40.63	1.04
Santina	2087.18	Tr 500	40.14	45.00	45.84	45.84	46.09	0.011316	2.96	21.50	47.69	1.03
Santina	2061.52	Tr 50	23.85	43.80	44.43	44.43	44.67	0.012018	2.43	12.66	28.10	1.00
Santina	2061.52	Tr 100	28.58	43.80	44.50	44.50	44.76	0.011481	2.55	14.61	29.49	1.00
Santina	2061.52	Tr 200	33.44	43.80	44.55	44.55	44.84	0.011739	2.72	16.20	30.59	1.02
Santina	2061.52	Tr 500	40.14	43.80	44.63	44.63	44.95	0.011562	2.88	18.62	32.69	1.03
Santina	2035.86	Tr 50	23.85	42.75	43.44	43.44	43.62	0.010752	2.52	15.82	41.42	0.97
Santina	2035.86	Tr 100	28.58	42.75	43.49	43.49	43.69	0.010471	2.63	18.37	43.96	0.97
Santina	2035.86	Tr 200	33.44	42.75	43.55	43.55	43.76	0.010410	2.74	20.70	45.61	0.98
Santina	2035.86	Tr 500	40.14	42.75	43.60	43.60	43.84	0.011046	2.95	23.18	47.23	1.02
Santina	2010.72	Tr 50	23.85	42.00	42.60	42.60	42.84	0.011235	2.29	12.45	29.49	0.96
Santina	2010.72	Tr 100	28.58	42.00	42.67	42.67	42.93	0.010566	2.40	14.67	34.45	0.95
Santina	2010.72	Tr 200	33.44	42.00	42.76	42.76	43.01	0.008842	2.39	17.97	40.25	0.89
Santina	2010.72	Tr 500	40.14	42.00	43.10		43.21	0.002710	1.70	33.24	51.05	0.52
Santina	1985.58	Tr 50	23.85	41.40	42.48		42.49	0.000669	0.85	47.86	68.36	0.26
Santina	1985.58	Tr 100	28.58	41.40	42.51		42.53	0.000837	0.97	50.13	68.94	0.29
Santina	1985.58	Tr 200	33.44	41.40	42.71		42.73	0.000548	0.88	64.52	73.40	0.24
Santina	1985.58	Tr 500	40.14	41.40	43.15		43.16	0.000223	0.68	98.33	79.72	0.16
Santina	1960.43	Tr 50	23.85	41.00	42.48	42.20	42.48	0.000088	0.37	106.70	101.89	0.10
Santina	1960.43	Tr 100	28.58	41.00	42.52	42.20	42.52	0.000115	0.43	110.23	102.72	0.11
Santina	1960.43	Tr 200	33.44	41.00	42.72	42.20	42.72	0.000093	0.42	131.42	107.32	0.10
Santina	1960.43	Tr 500	40.14	41.00	43.16	42.20	43.16	0.000054	0.37	181.43	121.09	0.08
Santina	1937.88		Bridge									
Santina	1924.97	Tr 50	23.85	39.00	40.92	40.92	41.86	0.008460	4.28	5.57	38.98	1.00
Santina	1924.97	Tr 100	28.58	39.00	41.16	41.16	42.22	0.008127	4.55	6.29	46.10	1.00
Santina	1924.97	Tr 200	33.44	39.00	41.39	41.39	42.56	0.007850	4.79	6.98	48.16	1.00
Santina	1924.97	Tr 500	40.14	39.00	41.70	41.70	43.02	0.007459	5.08	7.91	54.01	1.00
Santina	1910.01	Tr 50	23.85	38.10	39.43	39.43	39.65	0.006100	2.43	16.45	40.84	0.76
Santina	1910.01	Tr 100	28.58	38.10	39.49	39.49	39.73	0.006461	2.60	19.03	44.12	0.79
Santina	1910.01	Tr 200	33.44	38.10	39.54	39.54	39.80	0.006946	2.78	21.36	47.18	0.83
Santina	1910.01	Tr 500	40.14	38.10	39.65	39.65	39.89	0.006192	2.78	26.82	54.56	0.79
Santina	1884.74	Tr 50	23.85	37.35	38.56	38.56	38.81	0.008096	2.68	14.00	29.04	0.88
Santina	1884.74	Tr 100	28.58	37.35	38.62	38.62	38.91	0.008467	2.87	15.98	30.91	0.91
Santina	1884.74	Tr 200	33.44	37.35	38.73	38.73	39.00	0.007321	2.85	19.68	38.83	0.86
Santina	1884.74	Tr 500	40.14	37.35	38.82	38.82	39.10	0.007280	2.99	23.13	42.53	0.87
Santina	1859.55	Tr 50	23.85	37.05	37.82	37.82	38.04	0.014762	2.98	13.37	29.80	1.13
Santina	1859.55	Tr 100	28.58	37.05	37.89	37.89	38.13	0.014468	3.12	15.32	31.18	1.14
Santina	1859.55	Tr 200	33.44	37.05	37.93	37.93	38.20	0.015382	3.35	16.78	32.17	1.18
Santina	1859.55	Tr 500	40.14	37.05	38.01	38.01	38.31	0.015277	3.54	19.31	34.43	1.20

HEC-RAS Plan: Default Scenario River: Santina Reach: Santina (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	1834.36	Tr 50	23.85	36.60	37.24	37.24	37.45	0.011815	2.37	13.61	33.04	0.99
Santina	1834.36	Tr 100	28.58	36.60	37.30	37.30	37.53	0.011416	2.49	15.70	34.49	0.99
Santina	1834.36	Tr 200	33.44	36.60	37.36	37.36	37.61	0.011086	2.60	17.76	35.80	0.99
Santina	1834.36	Tr 500	40.14	36.60	37.43	37.43	37.70	0.011127	2.77	20.18	36.93	1.01
Santina	1809.21	Tr 50	23.85	36.00	36.66	36.66	36.84	0.012529	2.44	15.20	40.03	1.02
Santina	1809.21	Tr 100	28.58	36.00	36.71	36.71	36.91	0.012626	2.59	17.20	41.05	1.04
Santina	1809.21	Tr 200	33.44	36.00	36.75	36.75	36.97	0.013204	2.76	18.88	41.89	1.07
Santina	1809.21	Tr 500	40.14	36.00	36.81	36.81	37.06	0.013152	2.92	21.53	43.60	1.09
Santina	1784.06	Tr 50	23.85	35.55	36.20	36.20	36.37	0.013028	2.56	16.03	44.46	1.05
Santina	1784.06	Tr 100	28.58	35.55	36.25	36.25	36.44	0.013326	2.72	18.13	46.19	1.07
Santina	1784.06	Tr 200	33.44	35.55	36.30	36.30	36.50	0.013380	2.85	20.28	47.91	1.09
Santina	1784.06	Tr 500	40.14	35.55	36.35	36.35	36.57	0.013474	3.01	23.28	54.38	1.10
Santina	1733.42	Tr 50	23.85	34.10	34.67	34.67	34.78	0.009466	1.97	20.86	80.70	0.87
Santina	1733.42	Tr 100	28.58	34.10	34.71	34.71	34.84	0.010177	2.15	24.40	90.85	0.91
Santina	1733.42	Tr 200	33.44	34.10	34.75	34.75	34.88	0.009955	2.21	27.60	92.78	0.91
Santina	1733.42	Tr 500	40.14	34.10	34.77	34.77	34.93	0.011519	2.45	29.89	94.13	0.99
Santina	1708.16	Tr 50	23.85	33.70	34.14	34.14	34.26	0.010704	1.87	20.87	91.41	0.90
Santina	1708.16	Tr 100	28.58	33.70	34.18	34.18	34.30	0.010862	1.98	23.96	97.59	0.92
Santina	1708.16	Tr 200	33.44	33.70	34.23	34.23	34.34	0.009121	1.95	29.72	111.34	0.86
Santina	1708.16	Tr 500	40.14	33.70	34.27	34.27	34.39	0.009012	2.03	34.02	112.43	0.86
Santina	1682.8	Tr 50	23.85	33.20	33.69	33.69	33.79	0.016129	2.20	19.84	85.03	1.09
Santina	1682.8	Tr 100	28.58	33.20	33.73	33.73	33.84	0.014926	2.25	23.64	94.94	1.07
Santina	1682.8	Tr 200	33.44	33.20	33.76	33.76	33.87	0.014480	2.32	26.48	95.70	1.06
Santina	1682.8	Tr 500	40.14	33.20	33.81	33.78	33.93	0.013506	2.40	31.77	108.82	1.04
Santina	1657.44	Tr 50	23.85	32.79	33.32	33.32	33.44	0.012190	2.18	20.32	79.57	0.98
Santina	1657.44	Tr 100	28.58	32.79	33.35	33.35	33.48	0.012449	2.29	22.90	82.83	1.00
Santina	1657.44	Tr 200	33.44	32.79	33.39	33.39	33.52	0.012461	2.38	25.59	85.34	1.01
Santina	1657.44	Tr 500	40.14	32.79	33.41	33.41	33.57	0.014923	2.67	27.35	88.16	1.11
Santina	1632.1	Tr 50	23.85	32.61	33.01	32.92	33.07	0.009621	1.64	24.00	91.49	0.84
Santina	1632.1	Tr 100	28.58	32.61	33.05	32.98	33.12	0.009804	1.76	27.37	96.87	0.86
Santina	1632.1	Tr 200	33.44	32.61	33.07	33.00	33.15	0.011078	1.92	29.20	98.75	0.92
Santina	1632.1	Tr 500	40.14	32.61	33.11	33.05	33.20	0.011303	2.06	33.43	103.58	0.94
Santina	1606.01	Tr 50	23.85	32.30	32.55	32.55	32.66	0.030277	1.67	15.74	72.26	1.29
Santina	1606.01	Tr 100	28.58	32.30	32.57	32.57	32.71	0.029202	1.82	17.83	74.22	1.30
Santina	1606.01	Tr 200	33.44	32.30	32.62	32.62	32.75	0.023700	1.86	21.13	82.58	1.21
Santina	1606.01	Tr 500	40.14	32.30	32.65	32.65	32.80	0.023331	2.02	23.98	84.24	1.23
Santina	1579.92	Tr 50	23.85	31.70	32.28		32.33	0.005009	1.44	27.09	78.23	0.63
Santina	1579.92	Tr 100	28.58	31.70	32.32		32.38	0.005512	1.59	30.40	86.49	0.67
Santina	1579.92	Tr 200	33.44	31.70	32.35		32.42	0.006002	1.71	32.91	87.93	0.71
Santina	1579.92	Tr 500	40.14	31.70	32.41		32.49	0.005854	1.81	38.87	99.17	0.71
Santina	1552.41	Tr 50	23.85	31.30	32.00	32.00	32.12	0.014012	2.39	20.75	89.32	1.05
Santina	1552.41	Tr 100	28.58	31.30	32.03	32.03	32.16	0.013922	2.48	23.57	90.45	1.06
Santina	1552.41	Tr 200	33.44	31.30	32.07	32.07	32.19	0.012910	2.49	26.91	91.77	1.03
Santina	1552.41	Tr 500	40.14	31.30	32.09	32.09	32.24	0.016157	2.83	28.23	92.28	1.15
Santina	1524.9	Tr 50	23.85	30.80	31.32	31.29	31.44	0.012306	2.03	16.87	49.06	0.97
Santina	1524.9	Tr 100	28.58	30.80	31.34	31.33	31.50	0.014188	2.27	18.15	49.51	1.05
Santina	1524.9	Tr 200	33.44	30.80	31.44		31.57	0.009587	2.11	23.02	51.49	0.89
Santina	1524.9	Tr 500	40.14	30.80	31.51		31.65	0.008799	2.19	26.83	53.29	0.87
Santina	1503.21	Tr 50	23.85	30.20	30.86	30.86	31.10	0.011723	2.18	11.56	25.81	0.97
Santina	1503.21	Tr 100	28.58	30.20	30.98	30.92	31.20	0.008573	2.12	14.51	27.37	0.85
Santina	1503.21	Tr 200	33.44	30.20	30.99	30.99	31.28	0.010807	2.42	14.92	27.59	0.96
Santina	1503.21	Tr 500	40.14	30.20	31.08	31.08	31.38	0.009759	2.51	18.07	39.52	0.93
Santina	1481.52	Tr 50	23.85	30.00	30.58	30.58	30.82	0.014433	2.55	12.33	30.06	1.09
Santina	1481.52	Tr 100	28.58	30.00	30.59	30.59	30.92	0.019289	2.99	12.66	30.48	1.26
Santina	1481.52	Tr 200	33.44	30.00	30.72	30.72	30.99	0.012525	2.77	16.97	34.73	1.05
Santina	1481.52	Tr 500	40.14	30.00	30.82	30.82	31.09	0.010807	2.81	20.67	38.99	1.00
Santina	1457.25	Tr 50	23.85	29.70	30.20	30.20	30.42	0.013482	2.08	11.47	26.36	1.01
Santina	1457.25	Tr 100	28.58	29.70	30.26	30.26	30.50	0.013084	2.19	13.05	27.12	1.01
Santina	1457.25	Tr 200	33.44	29.70	30.32	30.32	30.58	0.012312	2.27	14.78	31.53	0.99
Santina	1457.25	Tr 500	40.14	29.70	30.39	30.39	30.68	0.011232	2.37	17.28	33.63	0.97
Santina	1432.98	Tr 50	23.85	29.00	29.83		29.92	0.004974	1.89	19.61	33.54	0.67
Santina	1432.98	Tr 100	28.58	29.00	29.85		29.98	0.006183	2.15	20.58	33.88	0.76

HEC-RAS Plan: Default Scenario River: Santana Reach: Santana (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	1432.98	Tr 200	33.44	29.00	29.88		30.03	0.007487	2.42	21.43	34.18	0.84
Santina	1432.98	Tr 500	40.14	29.00	29.91	29.81	30.11	0.009556	2.78	22.33	37.24	0.95
Santina	1419.59	Tr 50	23.85	28.61	29.87		29.88	0.000218	0.53	68.45	83.22	0.15
Santina	1419.59	Tr 100	28.58	28.61	29.91		29.92	0.000277	0.61	72.02	85.53	0.17
Santina	1419.59	Tr 200	33.44	28.61	29.95		29.97	0.000338	0.68	75.54	87.76	0.19
Santina	1419.59	Tr 500	40.14	28.61	30.00		30.02	0.000433	0.79	79.94	95.30	0.22
Santina	1395.05	Tr 50	23.85	29.57	29.75	29.75	29.86	0.028438	1.31	16.25	74.89	1.19
Santina	1395.05	Tr 100	28.58	29.57	29.78	29.78	29.90	0.026075	1.49	19.01	79.80	1.19
Santina	1395.05	Tr 200	33.44	29.57	29.81	29.81	29.94	0.026949	1.66	20.99	83.24	1.24
Santina	1395.05	Tr 500	40.14	29.57	29.85	29.85	29.99	0.024109	1.82	24.93	90.04	1.21
Santina	1364.45	Tr 50	23.85	27.90	28.39	28.39	28.54	0.014306	2.21	16.41	52.00	1.05
Santina	1364.45	Tr 100	28.58	27.90	28.43	28.43	28.59	0.014061	2.32	18.57	52.18	1.05
Santina	1364.45	Tr 200	33.44	27.90	28.46	28.46	28.65	0.015129	2.50	20.07	52.31	1.10
Santina	1364.45	Tr 500	40.14	27.90	28.52	28.52	28.71	0.014253	2.59	23.05	55.93	1.09
Santina	1334.95	Tr 50	23.85	27.10	27.80	27.80	27.96	0.009375	2.29	17.05	46.31	0.90
Santina	1334.95	Tr 100	28.58	27.10	27.84	27.84	28.02	0.009648	2.43	19.31	50.43	0.92
Santina	1334.95	Tr 200	33.44	27.10	27.88	27.88	28.08	0.010075	2.57	21.34	51.52	0.95
Santina	1334.95	Tr 500	40.14	27.10	27.95	27.95	28.15	0.009396	2.64	25.23	58.69	0.93
Santina	1305.49	Tr 50	23.85	26.70	27.25	27.25	27.41	0.011033	2.15	16.08	45.40	0.94
Santina	1305.49	Tr 100	28.58	26.70	27.29	27.29	27.47	0.011473	2.31	17.93	45.61	0.97
Santina	1305.49	Tr 200	33.44	26.70	27.33	27.33	27.53	0.011696	2.44	19.78	45.83	0.99
Santina	1305.49	Tr 500	40.14	26.70	27.38	27.38	27.61	0.012088	2.61	22.08	46.10	1.02
Santina	1278.29	Tr 50	23.85	26.20	26.80	26.80	26.96	0.009935	2.07	16.24	45.60	0.89
Santina	1278.29	Tr 100	28.58	26.20	26.84	26.84	27.02	0.010092	2.20	18.28	45.78	0.91
Santina	1278.29	Tr 200	33.44	26.20	26.88	26.88	27.08	0.010649	2.35	19.96	45.94	0.95
Santina	1278.29	Tr 500	40.14	26.20	26.94	26.94	27.16	0.010673	2.49	22.56	46.41	0.96
Santina	1251.13	Tr 50	23.85	25.65	26.24	26.24	26.40	0.009390	1.90	15.88	54.01	0.86
Santina	1251.13	Tr 100	28.58	25.65	26.29	26.29	26.46	0.009048	1.98	18.60	55.66	0.86
Santina	1251.13	Tr 200	33.44	25.65	26.33	26.32	26.51	0.009118	2.09	20.89	56.25	0.87
Santina	1251.13	Tr 500	40.14	25.65	26.40	26.37	26.58	0.008187	2.13	24.84	57.26	0.84
Santina	1225.24	Tr 50	23.85	25.20	25.98	25.98	26.16	0.008703	2.25	16.45	44.87	0.87
Santina	1225.24	Tr 100	28.58	25.20	26.03	26.03	26.23	0.008745	2.37	18.87	46.16	0.89
Santina	1225.24	Tr 200	33.44	25.20	26.08	26.08	26.29	0.008957	2.50	21.04	47.28	0.91
Santina	1225.24	Tr 500	40.14	25.20	26.14	26.14	26.37	0.009019	2.64	23.98	48.66	0.92
Santina	1200.71	Tr 50	23.85	24.45	25.02	25.02	25.21	0.012834	2.22	13.89	35.40	1.00
Santina	1200.71	Tr 100	28.58	24.45	25.07	25.07	25.29	0.013059	2.38	15.56	35.80	1.03
Santina	1200.71	Tr 200	33.44	24.45	25.12	25.12	25.36	0.012802	2.50	17.37	36.26	1.03
Santina	1200.71	Tr 500	40.14	24.45	25.17	25.17	25.45	0.013477	2.71	19.26	36.74	1.08
Santina	1174.83	Tr 50	23.85	23.55	24.54	24.54	24.74	0.007972	2.16	14.72	39.48	0.83
Santina	1174.83	Tr 100	28.58	23.55	24.60	24.60	24.82	0.008066	2.29	16.96	40.42	0.85
Santina	1174.83	Tr 200	33.44	23.55	24.65	24.65	24.89	0.008216	2.41	19.04	41.21	0.87
Santina	1174.83	Tr 500	40.14	23.55	24.72	24.72	24.97	0.008112	2.54	22.00	42.30	0.87
Santina	1148.65	Tr 50	23.85	22.80	24.22		24.37	0.003607	1.80	16.24	30.32	0.59
Santina	1148.65	Tr 100	28.58	22.80	24.31		24.47	0.003565	1.90	19.17	33.35	0.59
Santina	1148.65	Tr 200	33.44	22.80	24.40		24.57	0.003460	1.98	22.15	34.75	0.59
Santina	1148.65	Tr 500	40.14	22.80	24.48		24.68	0.003682	2.14	25.26	37.25	0.62
Santina	1122.47	Tr 50	23.85	22.80	24.17		24.27	0.002954	1.62	20.27	31.75	0.53
Santina	1122.47	Tr 100	28.58	22.80	24.26		24.37	0.002928	1.72	23.39	34.29	0.54
Santina	1122.47	Tr 200	33.44	22.80	24.35		24.47	0.003041	1.84	26.58	43.90	0.56
Santina	1122.47	Tr 500	40.14	22.80	24.43		24.57	0.003336	2.02	30.59	53.06	0.59
Santina	1097.72	Tr 50	23.85	23.00	23.88	23.88	24.12	0.009785	2.43	12.83	26.73	0.93
Santina	1097.72	Tr 100	28.58	23.00	23.93	23.93	24.22	0.010829	2.67	14.17	28.11	0.99
Santina	1097.72	Tr 200	33.44	23.00	24.00	24.00	24.31	0.010574	2.80	16.23	30.80	0.99
Santina	1097.72	Tr 500	40.14	23.00	24.15	24.15	24.43	0.007952	2.71	21.38	37.87	0.88
Santina	1072.97	Tr 50	23.85	20.90	22.29		22.51	0.006388	2.11	11.29	14.09	0.75
Santina	1072.97	Tr 100	28.58	20.90	22.36		22.63	0.007325	2.32	12.31	14.78	0.81
Santina	1072.97	Tr 200	33.44	20.90	22.42	22.31	22.74	0.008341	2.53	13.29	18.73	0.87
Santina	1072.97	Tr 500	40.14	20.90	22.50	22.47	22.88	0.009543	2.77	14.84	21.68	0.94
Santina	1046.57	Tr 50	23.85	20.20	22.38		22.42	0.000687	0.98	36.14	62.42	0.27
Santina	1046.57	Tr 100	28.58	20.20	22.48		22.52	0.000749	1.07	44.46	96.22	0.28
Santina	1046.57	Tr 200	33.44	20.20	22.57		22.62	0.000714	1.09	54.35	104.40	0.28
Santina	1046.57	Tr 500	40.14	20.20	22.70		22.74	0.000628	1.08	67.64	107.23	0.27

HEC-RAS Plan: Default Scenario River: Santana Reach: Santana (Continued)

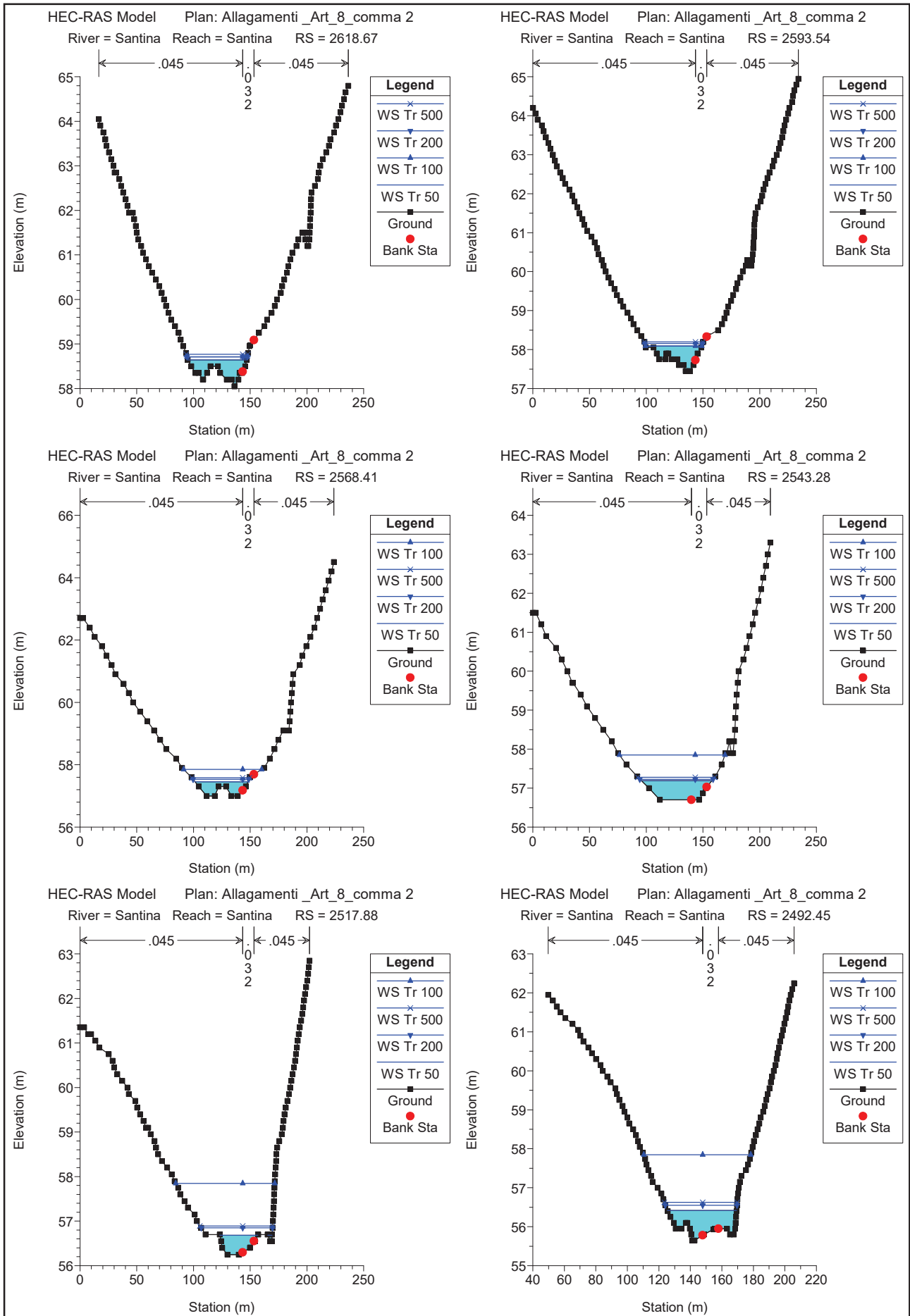
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	1020.17	Tr 50	23.85	21.30	22.09	22.09	22.35	0.010787	2.37	11.69	23.62	0.96
Santina	1020.17	Tr 100	28.58	21.30	22.16	22.16	22.45	0.010582	2.52	13.36	24.62	0.96
Santina	1020.17	Tr 200	33.44	21.30	22.22	22.22	22.54	0.010557	2.66	14.94	25.59	0.98
Santina	1020.17	Tr 500	40.14	21.30	22.30	22.30	22.66	0.010710	2.86	16.95	26.90	1.00
Santina	1004.49	Tr 50	23.85	20.30	21.37	21.37	21.59	0.008912	2.35	13.81	32.44	0.88
Santina	1004.49	Tr 100	28.58	20.30	21.42	21.42	21.68	0.009506	2.55	15.62	35.02	0.93
Santina	1004.49	Tr 200	33.44	20.30	21.52	21.52	21.76	0.007719	2.50	19.49	40.06	0.85
Santina	1004.49	Tr 500	40.14	20.30	21.60	21.60	21.62	0.001009	0.96	78.13	146.02	0.31
Santina	977.61	Tr 50	23.85	19.32	20.36	20.36	20.47	0.008134	1.90	24.03	109.05	0.81
Santina	977.61	Tr 100	28.58	19.32	20.40	20.40	20.51	0.007966	1.96	27.84	110.66	0.81
Santina	977.61	Tr 200	33.44	19.32	20.42	20.42	20.54	0.008530	2.08	30.49	111.75	0.84
Santina	977.61	Tr 500	40.14	19.32	20.45	20.45	20.59	0.009312	2.24	33.93	114.93	0.89
Santina	951.56	Tr 50	23.85	18.81	19.94	19.94	20.04	0.008049	1.83	23.17	94.77	0.80
Santina	951.56	Tr 100	28.58	18.81	19.95	19.95	20.08	0.009931	2.07	24.51	95.40	0.89
Santina	951.56	Tr 200	33.44	18.81	19.98	19.98	20.12	0.009877	2.14	27.56	99.04	0.89
Santina	951.56	Tr 500	40.14	18.81	20.03	20.03	20.17	0.009938	2.25	32.01	103.68	0.91
Santina	923.49	Tr 50	23.85	18.84	19.44	19.44	19.56	0.016178	2.39	19.90	91.30	1.11
Santina	923.49	Tr 100	28.58	18.84	19.49	19.49	19.60	0.013554	2.33	24.61	98.49	1.03
Santina	923.49	Tr 200	33.44	18.84	19.51	19.51	19.64	0.015940	2.58	25.95	99.73	1.13
Santina	923.49	Tr 500	40.14	18.84	19.57	19.57	19.68	0.012549	2.45	32.12	107.67	1.02
Santina	897.45	Tr 50	23.85	18.50	18.80	18.80	18.87	0.012554	1.32	21.18	76.18	0.88
Santina	897.45	Tr 100	28.58	18.50	18.80	18.80	18.90	0.018027	1.58	21.18	76.18	1.05
Santina	897.45	Tr 200	33.44	18.50	18.80	18.80	18.93	0.024679	1.85	21.18	76.18	1.23
Santina	897.45	Tr 500	40.14	18.50	18.83	18.83	18.99	0.026463	2.05	23.13	76.30	1.29
Santina	869.39	Tr 50	23.85	17.70	18.04	18.04	18.19	0.023085	2.10	14.66	56.04	1.23
Santina	869.39	Tr 100	28.58	17.70	18.08	18.08	18.25	0.021259	2.21	17.32	61.28	1.21
Santina	869.39	Tr 200	33.44	17.70	18.14	18.14	18.31	0.018081	2.27	21.28	69.87	1.15
Santina	869.39	Tr 500	40.14	17.70	18.19	18.19	18.37	0.017334	2.40	24.66	74.27	1.15
Santina	844.56	Tr 50	23.85	15.90	17.13	17.13	17.32	0.007167	2.14	15.89	41.08	0.79
Santina	844.56	Tr 100	28.58	15.90	17.18	17.18	17.39	0.007543	2.28	18.06	42.12	0.82
Santina	844.56	Tr 200	33.44	15.90	17.25	17.25	17.46	0.007349	2.36	21.17	47.88	0.82
Santina	844.56	Tr 500	40.14	15.90	17.31	17.31	17.54	0.007691	2.52	24.16	49.82	0.84
Santina	819.73	Tr 50	23.85	15.40	16.78	16.78	16.98	0.006292	2.22	16.78	47.86	0.75
Santina	819.73	Tr 100	28.58	15.40	16.85	16.85	17.05	0.006376	2.34	19.99	54.41	0.77
Santina	819.73	Tr 200	33.44	15.40	16.93	16.93	17.12	0.005639	2.33	24.82	63.94	0.73
Santina	819.73	Tr 500	40.14	15.40	16.99	16.99	17.19	0.005807	2.45	28.87	67.08	0.75
Santina	794.54	Tr 50	23.85	14.30	16.11	16.11	16.33	0.007351	2.17	13.94	39.35	0.79
Santina	794.54	Tr 100	28.58	14.30	16.18	16.18	16.41	0.007235	2.24	17.13	45.61	0.79
Santina	794.54	Tr 200	33.44	14.30	16.25	16.25	16.48	0.006823	2.30	20.53	51.20	0.78
Santina	794.54	Tr 500	40.14	14.30	16.33	16.33	16.56	0.006552	2.38	24.77	59.08	0.78
Santina	769.35	Tr 50	23.85	13.80	15.18	15.18	15.51	0.011731	2.57	9.36	15.42	0.99
Santina	769.35	Tr 100	28.58	13.80	15.30	15.30	15.64	0.009573	2.59	11.56	21.28	0.92
Santina	769.35	Tr 200	33.44	13.80	15.39	15.39	15.74	0.008766	2.67	13.93	27.52	0.90
Santina	769.35	Tr 500	40.14	13.80	15.52	15.52	15.87	0.007407	2.69	18.00	34.46	0.85
Santina	743.98	Tr 50	23.85	13.90	14.76	14.76	14.95	0.009927	2.20	14.97	42.28	0.91
Santina	743.98	Tr 100	28.58	13.90	14.82	14.82	15.02	0.009000	2.25	17.92	44.93	0.88
Santina	743.98	Tr 200	33.44	13.90	14.87	14.87	15.09	0.009478	2.40	19.75	45.59	0.91
Santina	743.98	Tr 500	40.14	13.90	14.93	14.93	15.17	0.009324	2.53	22.74	46.99	0.92
Santina	718.61	Tr 50	23.85	13.00	14.11	14.11	14.27	0.009127	2.45	18.40	57.51	0.87
Santina	718.61	Tr 100	28.58	13.00	14.16	14.16	14.33	0.009368	2.57	20.91	58.19	0.89
Santina	718.61	Tr 200	33.44	13.00	14.20	14.20	14.38	0.009235	2.64	23.60	58.93	0.90
Santina	718.61	Tr 500	40.14	13.00	14.25	14.25	14.44	0.009735	2.81	26.42	60.00	0.93
Santina	691.82	Tr 50	23.85	12.80	14.16	14.16	14.16	0.000361	0.62	61.07	79.38	0.19
Santina	691.82	Tr 100	28.58	12.80	13.66	13.66	13.72	0.005818	1.67	26.39	55.98	0.68
Santina	691.82	Tr 200	33.44	12.80	13.70	13.70	13.78	0.005970	1.77	28.94	61.46	0.70
Santina	691.82	Tr 500	40.14	12.80	13.76	13.76	13.85	0.006101	1.89	32.56	63.76	0.72
Santina	666.48	Tr 50	23.85	12.60	14.15	14.15	14.16	0.000157	0.47	86.19	99.28	0.13
Santina	666.48	Tr 100	28.58	12.60	13.58	13.58	13.62	0.002348	1.28	36.77	71.48	0.46
Santina	666.48	Tr 200	33.44	12.60	13.62	13.62	13.67	0.002638	1.40	39.55	74.09	0.49
Santina	666.48	Tr 500	40.14	12.60	13.67	13.67	13.73	0.002968	1.54	43.41	78.02	0.52
Santina	639.7	Tr 50	23.85	12.10	14.15	14.15	14.15	0.000082	0.41	101.14	86.90	0.10
Santina	639.7	Tr 100	28.58	12.10	13.57	13.57	13.58	0.000668	0.91	54.77	72.69	0.26
Santina	639.7	Tr 200	33.44	12.10	13.60	13.60	13.62	0.000802	1.02	57.34	73.41	0.29

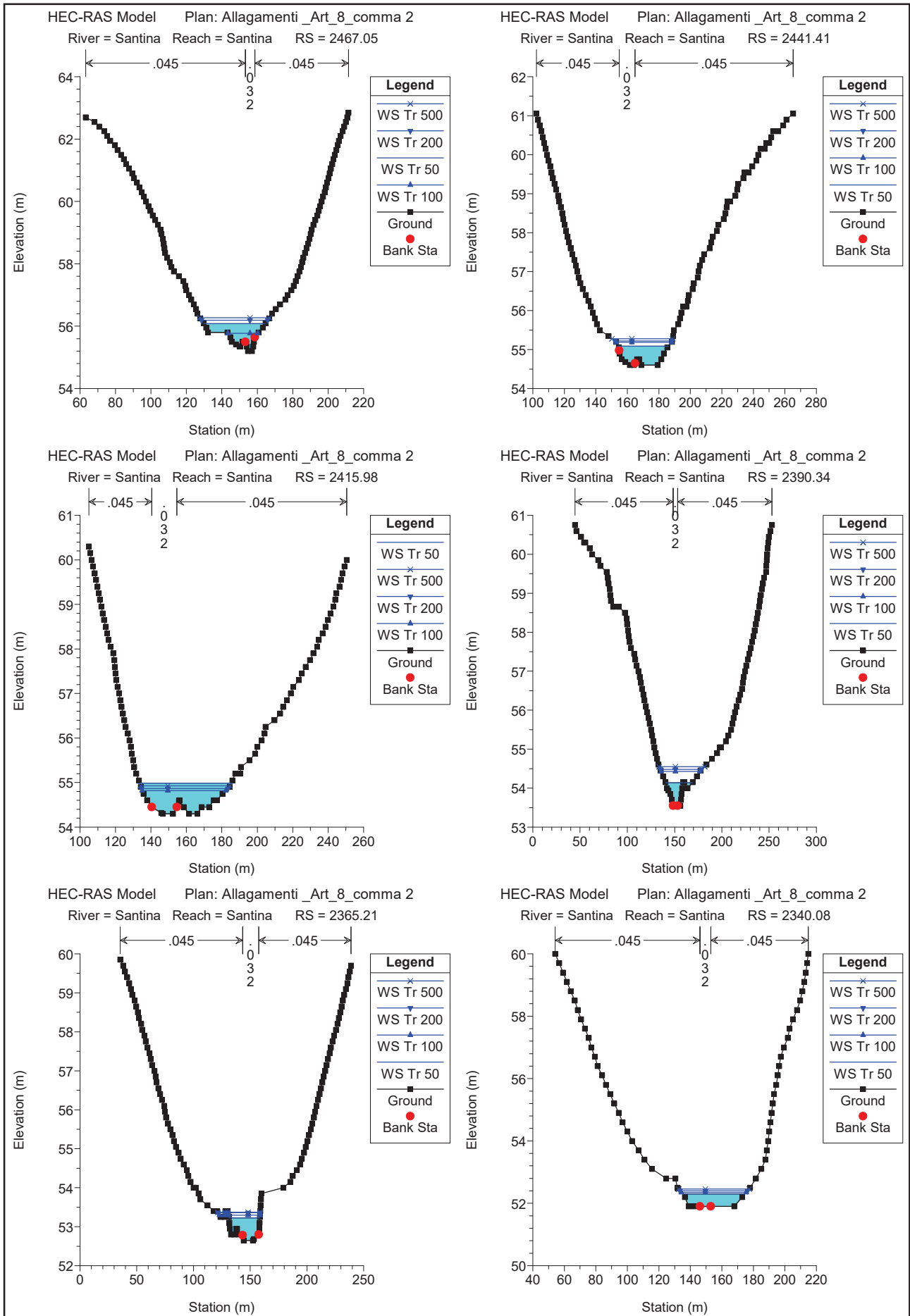
HEC-RAS Plan: Default Scenario River: Santana Reach: Santana (Continued)

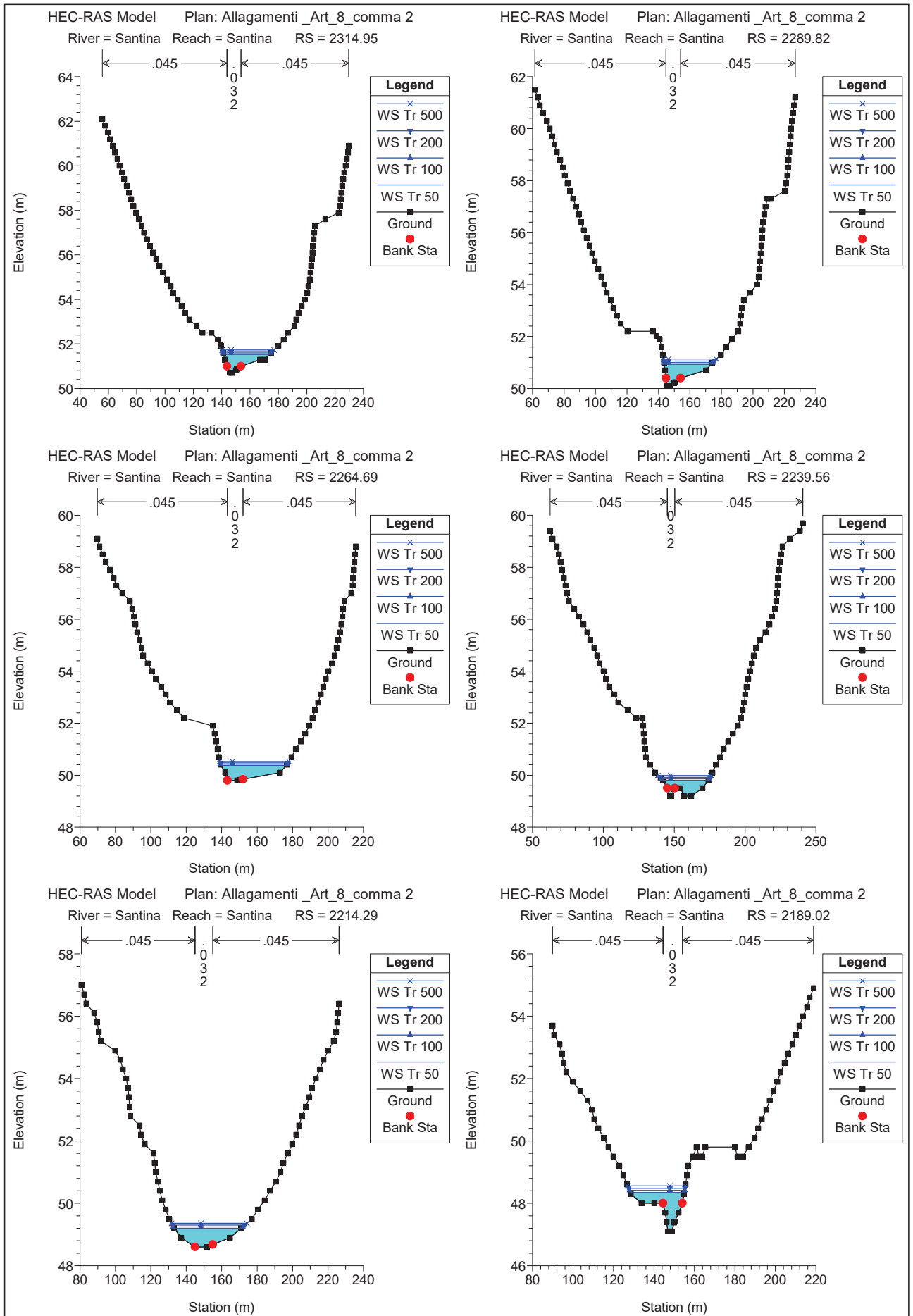
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	639.7	Tr 500	40.14	12.10	13.65		13.68	0.000978	1.15	60.79	74.52	0.32
Santina	614.37	Tr 50	23.85	11.80	14.15		14.15	0.000047	0.37	104.41	66.38	0.08
Santina	614.37	Tr 100	28.58	11.80	13.56		13.57	0.000227	0.67	68.06	57.68	0.16
Santina	614.37	Tr 200	33.44	11.80	13.60		13.61	0.000287	0.76	70.00	58.25	0.18
Santina	614.37	Tr 500	40.14	11.80	13.64		13.66	0.000372	0.88	72.59	58.86	0.21
Santina	589.98	Tr 50	23.85	11.60	14.15		14.15	0.000032	0.31	127.88	77.45	0.06
Santina	589.98	Tr 100	28.58	11.60	13.56		13.57	0.000140	0.54	85.91	65.27	0.13
Santina	589.98	Tr 200	33.44	11.60	13.59		13.60	0.000178	0.62	88.10	65.83	0.15
Santina	589.98	Tr 500	40.14	11.60	13.64		13.65	0.000235	0.72	91.00	66.81	0.17
Santina	565.59	Tr 50	23.85	11.40	14.15		14.15	0.000031	0.32	129.29	78.85	0.06
Santina	565.59	Tr 100	28.58	11.40	13.56		13.56	0.000125	0.54	87.17	63.91	0.12
Santina	565.59	Tr 200	33.44	11.40	13.59		13.60	0.000161	0.62	89.26	64.86	0.14
Santina	565.59	Tr 500	40.14	11.40	13.63		13.64	0.000214	0.73	92.02	65.80	0.16
Santina	540.56	Tr 50	23.85	11.30	14.15		14.15	0.000032	0.34	141.81	99.41	0.07
Santina	540.56	Tr 100	28.58	11.30	13.55		13.56	0.000140	0.61	90.10	75.65	0.13
Santina	540.56	Tr 200	33.44	11.30	13.59		13.59	0.000180	0.70	92.50	77.12	0.15
Santina	540.56	Tr 500	40.14	11.30	13.63		13.64	0.000239	0.82	95.69	78.54	0.17
Santina	522.99	Tr 50	23.85	11.90	14.15	13.20	14.15	0.000031	0.27	159.78	128.50	0.06
Santina	522.99	Tr 100	28.58	11.90	13.55	13.20	13.56	0.000243	0.61	88.04	113.71	0.16
Santina	522.99	Tr 200	33.44	11.90	13.58	13.20	13.59	0.000298	0.68	91.55	114.42	0.18
Santina	522.99	Tr 500	40.14	11.90	13.62	13.20	13.63	0.000372	0.78	96.17	115.21	0.20
Santina	514	Bridge										
Santina	508.4	Tr 50	23.85	10.80	12.96	12.96	14.04	0.007817	4.61	5.17	109.63	1.00
Santina	508.4	Tr 100	28.58	10.80	13.20	13.20	13.21	0.000043	0.36	149.10	118.78	0.07
Santina	508.4	Tr 200	33.44	10.80	13.20	13.20	13.21	0.000058	0.42	149.10	118.78	0.09
Santina	508.4	Tr 500	40.14	10.80	13.20	13.20	13.21	0.000084	0.50	149.10	118.78	0.11
Santina	490.47	Tr 50	23.85	10.40	10.92	10.92	11.08	0.013965	2.16	16.15	52.99	1.03
Santina	490.47	Tr 100	28.58	10.40	10.97	10.97	11.14	0.013193	2.25	18.80	56.31	1.02
Santina	490.47	Tr 200	33.44	10.40	11.02	11.02	11.19	0.012335	2.31	21.54	58.85	1.00
Santina	490.47	Tr 500	40.14	10.40	11.06	11.06	11.26	0.012504	2.46	24.32	60.08	1.02
Santina	465.43	Tr 50	23.85	10.01	10.02		10.04	0.002933	0.05	40.61	132.82	0.22
Santina	465.43	Tr 100	28.58	10.01	10.06		10.08	0.002956	0.14	45.78	139.76	0.29
Santina	465.43	Tr 200	33.44	10.01	10.10		10.12	0.002926	0.21	51.17	146.66	0.32
Santina	465.43	Tr 500	40.14	10.01	10.15		10.17	0.002834	0.34	58.63	150.27	0.36
Santina	440.41	Tr 50	23.85	9.80	9.89		9.93	0.006804	0.48	27.97	117.08	0.54
Santina	440.41	Tr 100	28.58	9.80	9.93		9.97	0.006345	0.61	33.26	127.58	0.56
Santina	440.41	Tr 200	33.44	9.80	9.97		10.01	0.006013	0.72	38.33	131.97	0.57
Santina	440.41	Tr 500	40.14	9.80	10.03		10.07	0.006098	0.88	46.04	140.14	0.60
Santina	413.75	Tr 50	23.85	9.40	9.80		9.82	0.002515	0.85	40.89	125.26	0.43
Santina	413.75	Tr 100	28.58	9.40	9.85		9.87	0.002406	0.89	46.73	127.04	0.43
Santina	413.75	Tr 200	33.44	9.40	9.89		9.91	0.002371	0.94	52.02	128.61	0.43
Santina	413.75	Tr 500	40.14	9.40	9.94		9.97	0.002325	1.00	58.94	130.52	0.43
Santina	387.12	Tr 50	23.85	9.00	9.71	9.54	9.74	0.003614	1.13	32.74	86.86	0.52
Santina	387.12	Tr 100	28.58	9.00	9.75	9.57	9.79	0.003629	1.20	36.52	87.16	0.53
Santina	387.12	Tr 200	33.44	9.00	9.79	9.59	9.83	0.003714	1.27	39.92	87.43	0.55
Santina	387.12	Tr 500	40.14	9.00	9.84	9.63	9.89	0.003812	1.37	44.29	87.83	0.56
Santina	361.14	Tr 50	23.85	8.90	9.52	9.49	9.60	0.007856	1.76	23.39	81.33	0.79
Santina	361.14	Tr 100	28.58	8.90	9.56	9.52	9.65	0.007780	1.84	26.49	81.95	0.79
Santina	361.14	Tr 200	33.44	8.90	9.60	9.54	9.69	0.007574	1.90	29.64	82.58	0.79
Santina	361.14	Tr 500	40.14	8.90	9.65	9.58	9.75	0.007375	1.98	33.69	83.39	0.79
Santina	335.19	Tr 50	23.85	8.60	9.34	9.25	9.40	0.007313	1.97	24.62	73.86	0.78
Santina	335.19	Tr 100	28.58	8.60	9.39	9.28	9.46	0.006303	1.94	28.94	74.52	0.74
Santina	335.19	Tr 200	33.44	8.60	9.43	9.30	9.50	0.006386	2.02	31.81	74.94	0.75
Santina	335.19	Tr 500	40.14	8.60	9.47	9.36	9.55	0.006954	2.18	34.74	75.36	0.79
Santina	310.13	Tr 50	23.85	8.50	9.01	8.97	9.16	0.012894	2.28	17.06	59.41	1.01
Santina	310.13	Tr 100	28.58	8.50	9.05	8.98	9.22	0.014388	2.51	19.08	64.55	1.08
Santina	310.13	Tr 200	33.44	8.50	9.09	8.98	9.27	0.013897	2.60	22.25	71.87	1.08
Santina	310.13	Tr 500	40.14	8.50	9.19	8.98	9.34	0.010363	2.48	29.32	77.65	0.95
Santina	284.82	Tr 50	23.85	8.25	8.83	8.74	8.93	0.006271	1.73	22.32	65.50	0.72
Santina	284.82	Tr 100	28.58	8.25	8.94	8.79	9.01	0.004127	1.57	29.50	69.43	0.60
Santina	284.82	Tr 200	33.44	8.25	9.02	8.83	9.09	0.003334	1.52	35.35	71.23	0.55
Santina	284.82	Tr 500	40.14	8.25	9.13	8.90	9.19	0.002716	1.49	42.77	72.81	0.51

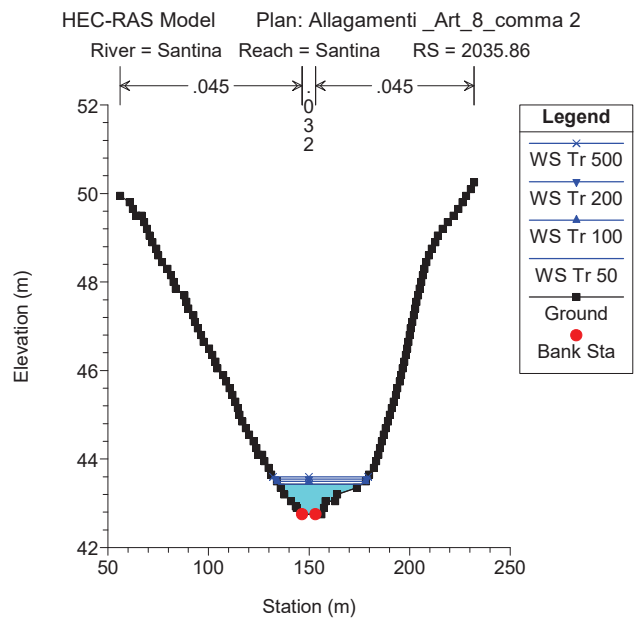
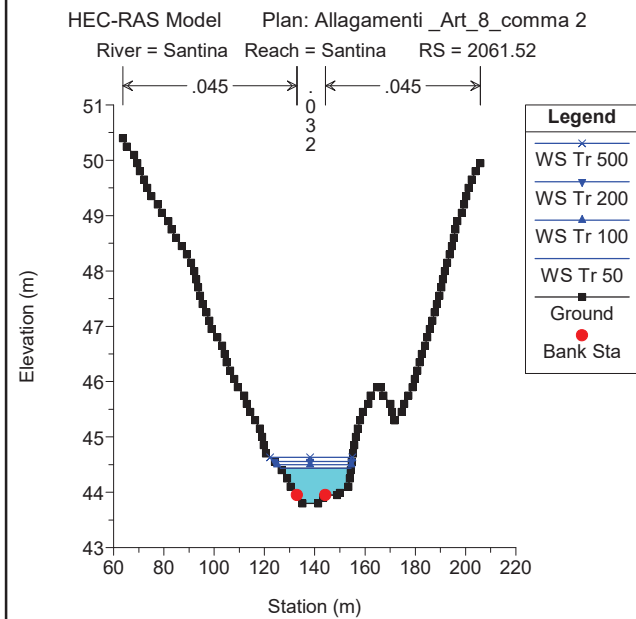
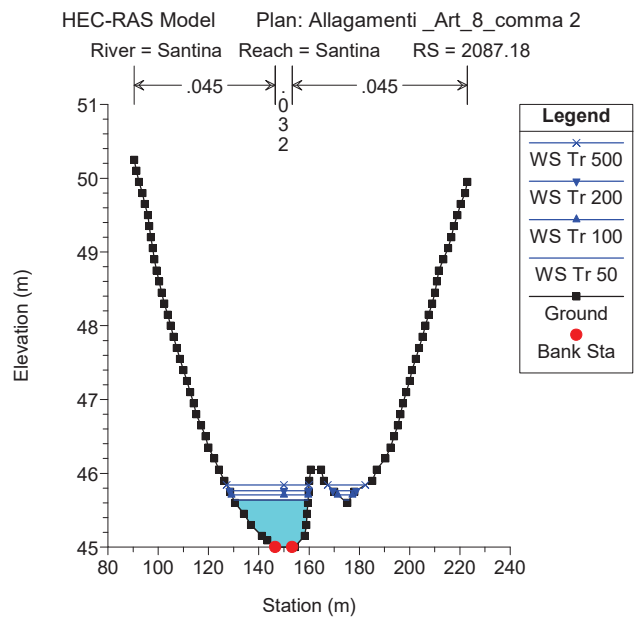
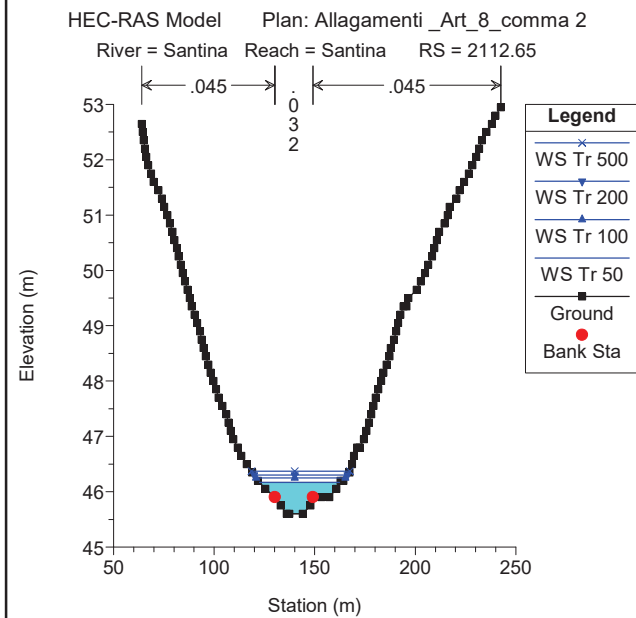
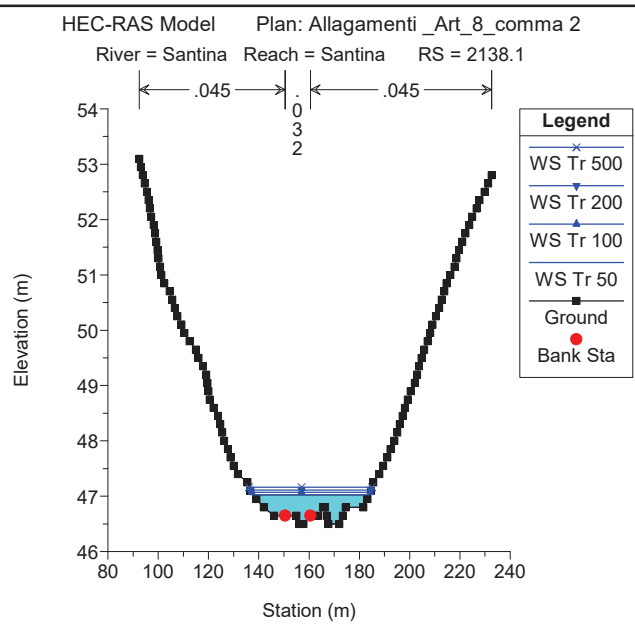
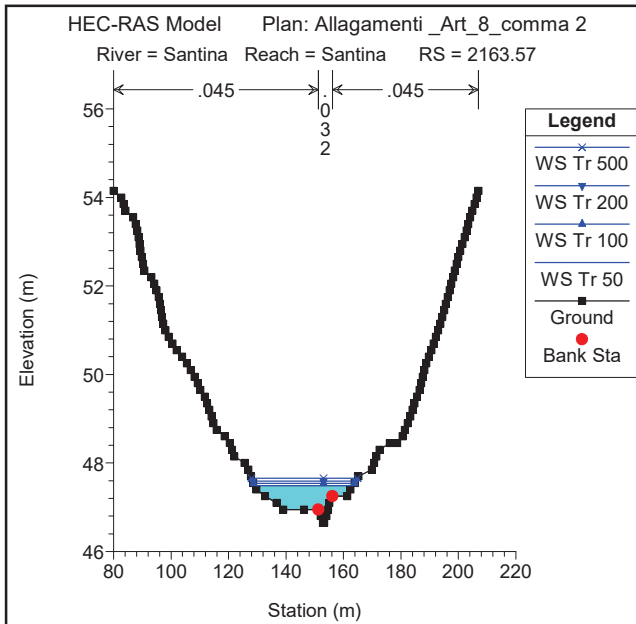
HEC-RAS Plan: Default Scenario River: Santina Reach: Santina (Continued)

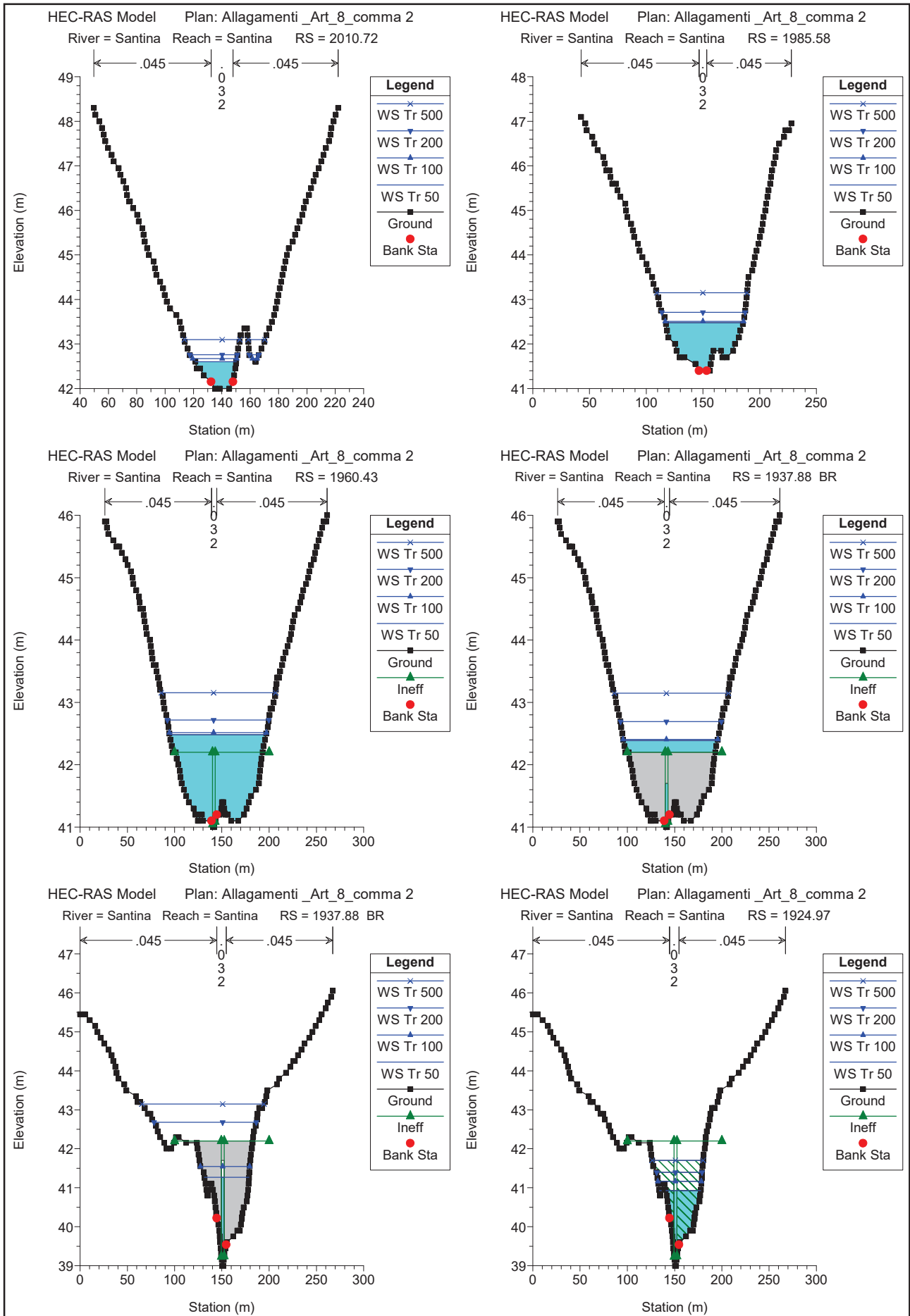
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Santina	259.51	Tr 50	23.85	8.10	8.75		8.80	0.003293	1.35	27.30	53.51	0.53
Santina	259.51	Tr 100	28.58	8.10	8.89		8.93	0.002262	1.27	34.50	58.64	0.46
Santina	259.51	Tr 200	33.44	8.10	8.97		9.02	0.002016	1.28	40.10	66.68	0.44
Santina	259.51	Tr 500	40.14	8.10	9.08		9.13	0.001814	1.32	48.13	80.22	0.42
Santina	234.42	Tr 50	23.85	7.80	8.71		8.74	0.001532	1.15	32.09	46.32	0.38
Santina	234.42	Tr 100	28.58	7.80	8.85		8.88	0.001227	1.13	38.77	47.57	0.35
Santina	234.42	Tr 200	33.44	7.80	8.94		8.98	0.001225	1.19	43.08	48.81	0.36
Santina	234.42	Tr 500	40.14	7.80	9.05		9.09	0.001250	1.28	48.54	53.90	0.37
Santina	209.33	Tr 50	23.85	7.65	8.68		8.71	0.001025	1.02	37.83	57.53	0.32
Santina	209.33	Tr 100	28.58	7.65	8.83		8.85	0.000824	1.00	46.74	62.16	0.29
Santina	209.33	Tr 200	33.44	7.65	8.92		8.95	0.000825	1.05	52.52	65.62	0.30
Santina	209.33	Tr 500	40.14	7.65	9.03		9.06	0.000871	1.14	59.82	71.10	0.31
Santina	183.3	Tr 50	23.85	7.50	8.62		8.67	0.001620	1.36	27.28	44.23	0.41
Santina	183.3	Tr 100	28.58	7.50	8.78		8.83	0.001300	1.33	34.97	51.88	0.37
Santina	183.3	Tr 200	33.44	7.50	8.87		8.92	0.001349	1.41	40.00	72.03	0.39
Santina	183.3	Tr 500	40.14	7.50	8.98		9.03	0.001337	1.48	48.14	77.87	0.39
Santina	157.27	Tr 50	23.85	7.20	8.58		8.64	0.001196	1.31	26.50	29.14	0.36
Santina	157.27	Tr 100	28.58	7.20	8.70		8.79	0.001567	1.59	30.29	41.11	0.42
Santina	157.27	Tr 200	33.44	7.20	8.79		8.88	0.001616	1.67	33.78	42.41	0.43
Santina	157.27	Tr 500	40.14	7.20	8.89		8.99	0.001692	1.78	38.14	43.87	0.44
Santina	132.44	Tr 50	23.85	6.60	8.24	8.17	8.55	0.006171	2.49	10.86	19.18	0.76
Santina	132.44	Tr 100	28.58	6.60	8.32	8.32	8.68	0.006660	2.71	12.75	26.83	0.80
Santina	132.44	Tr 200	33.44	6.60	8.48	8.48	8.78	0.005215	2.61	17.98	38.71	0.72
Santina	132.44	Tr 500	40.14	6.60	8.58	8.58	8.89	0.005139	2.72	22.03	41.50	0.73
Santina	107.61	Tr 50	23.85	6.00	7.82	7.82	8.33	0.011236	3.17	7.60	8.24	1.00
Santina	107.61	Tr 100	28.58	6.00	8.18	8.18	8.42	0.004201	2.37	18.45	42.45	0.64
Santina	107.61	Tr 200	33.44	6.00	8.23	8.23	8.50	0.004656	2.55	20.60	42.61	0.68
Santina	107.61	Tr 500	40.14	6.00	8.31	8.31	8.60	0.004815	2.69	24.12	42.87	0.70
Santina	83.57	Tr 50	23.85	5.55	7.28	7.28	7.75	0.011874	3.03	7.86	8.65	1.02
Santina	83.57	Tr 100	28.58	5.55	7.44	7.44	7.91	0.011478	3.05	9.38	10.05	1.01
Santina	83.57	Tr 200	33.44	5.55	7.59	7.59	8.06	0.011719	3.03	11.04	12.25	1.02
Santina	83.57	Tr 500	40.14	5.55	7.90	7.90	8.20	0.006057	2.50	19.72	45.64	0.76
Santina	59.53	Tr 50	23.85	4.65	5.98	5.98	6.26	0.008896	2.52	11.79	22.01	0.89
Santina	59.53	Tr 100	28.58	4.65	6.05	6.05	6.36	0.008946	2.68	13.44	22.44	0.91
Santina	59.53	Tr 200	33.44	4.65	6.13	6.13	6.46	0.008867	2.81	15.11	22.89	0.92
Santina	59.53	Tr 500	40.14	4.65	6.21	6.21	6.59	0.008976	3.00	17.13	23.39	0.94
Santina	39.96	Tr 50	23.85	4.65	5.23	5.23	5.42	0.012630	2.35	14.13	35.31	1.01
Santina	39.96	Tr 100	28.58	4.65	5.32	5.32	5.50	0.010226	2.35	18.29	49.31	0.94
Santina	39.96	Tr 200	33.44	4.65	5.36	5.36	5.57	0.010783	2.51	20.26	50.57	0.97
Santina	39.96	Tr 500	40.14	4.65	5.43	5.43	5.64	0.010152	2.60	23.79	52.30	0.96
Santina	23.5	Tr 50	23.85	3.90	5.06		5.10	0.002067	1.34	32.09	63.62	0.44
Santina	23.5	Tr 100	28.58	3.90	5.18		5.21	0.001599	1.28	39.68	65.62	0.40
Santina	23.5	Tr 200	33.44	3.90	5.30		5.33	0.001282	1.23	47.82	71.92	0.36
Santina	23.5	Tr 500	40.14	3.90	5.46		5.49	0.001047	1.21	60.12	78.86	0.34
Santina	3	Tr 50	23.85	3.00	5.08		5.08	0.000172	0.55	76.24	100.26	0.14
Santina	3	Tr 100	28.58	3.00	5.19		5.20	0.000168	0.57	87.78	102.10	0.14
Santina	3	Tr 200	33.44	3.00	5.31		5.32	0.000161	0.59	100.43	113.75	0.14
Santina	3	Tr 500	40.14	3.00	5.47		5.48	0.000158	0.61	119.19	120.22	0.14
Santina	1	Tr 50	23.85	2.55	5.08		5.08	0.000033	0.31	145.87	168.25	0.07
Santina	1	Tr 100	28.58	2.55	5.19		5.20	0.000035	0.33	165.38	172.00	0.07
Santina	1	Tr 200	33.44	2.55	5.31		5.31	0.000036	0.35	185.66	172.89	0.07
Santina	1	Tr 500	40.14	2.55	5.47		5.47	0.000035	0.36	213.43	173.86	0.07

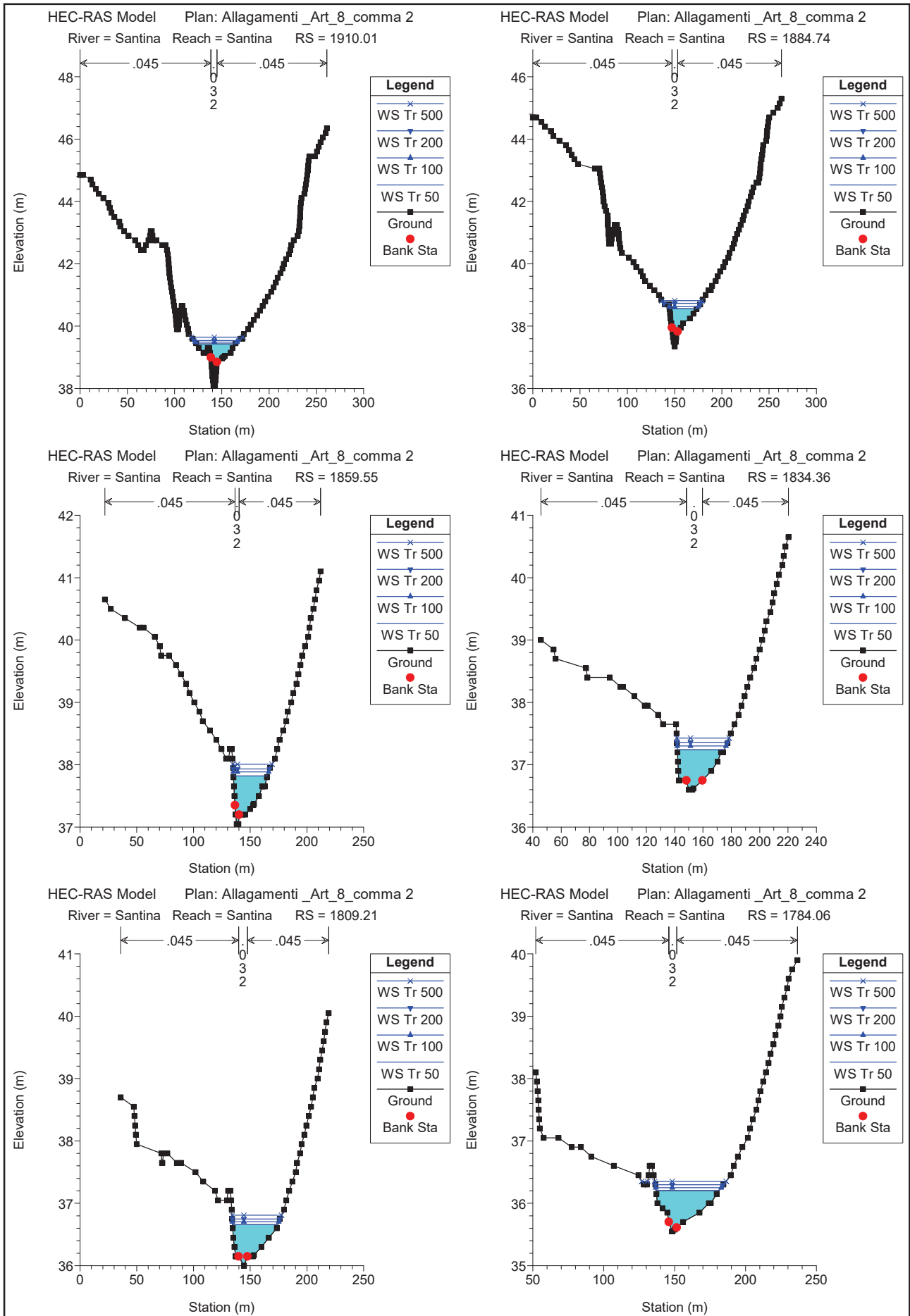


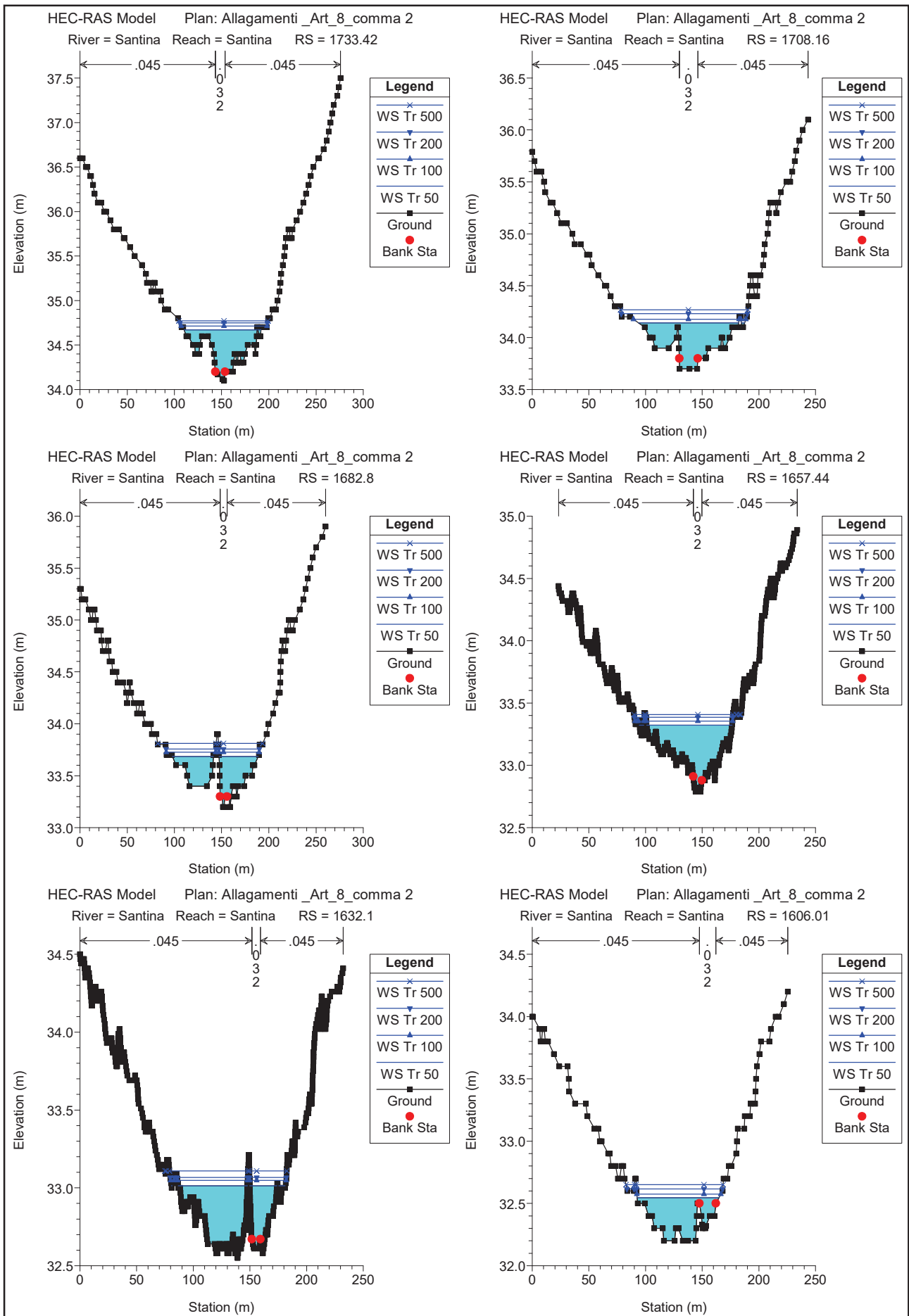


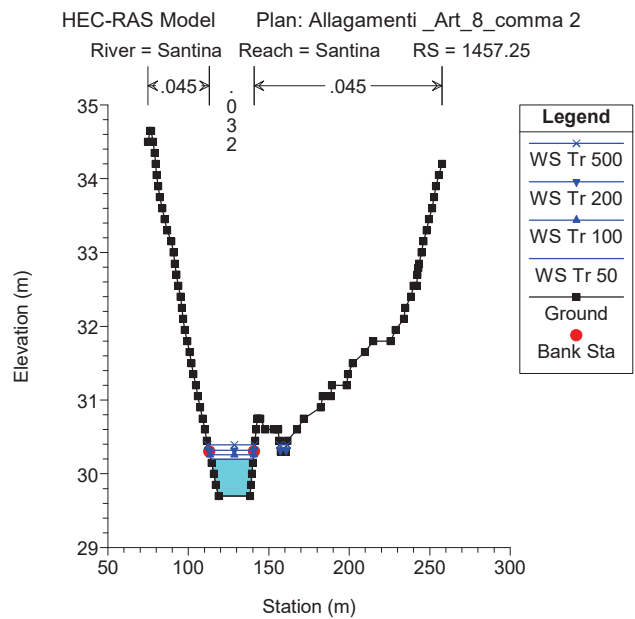
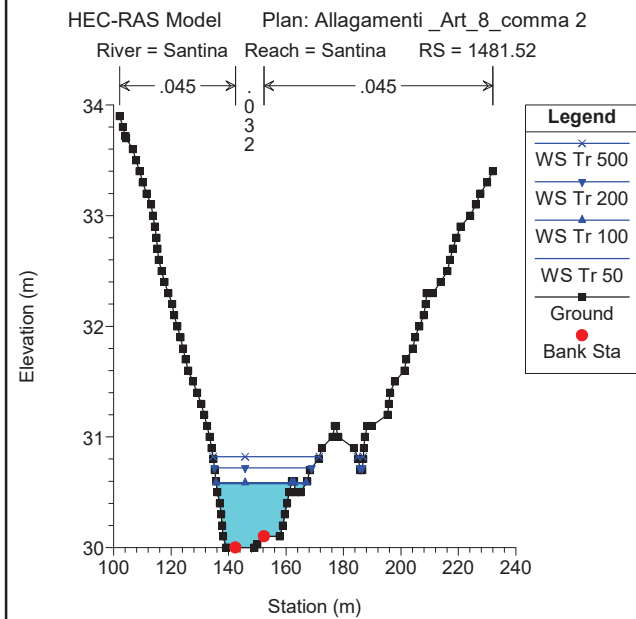
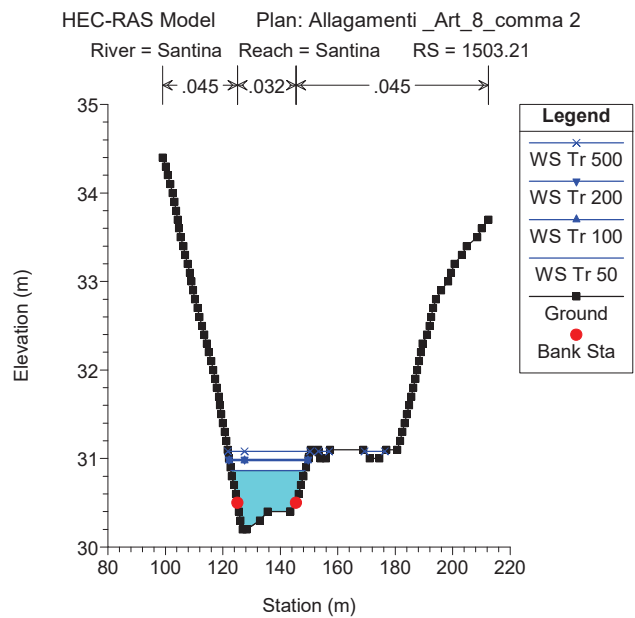
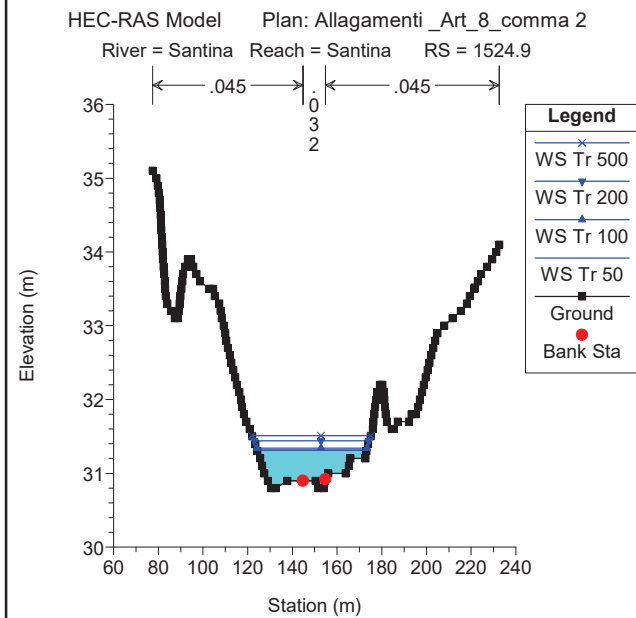
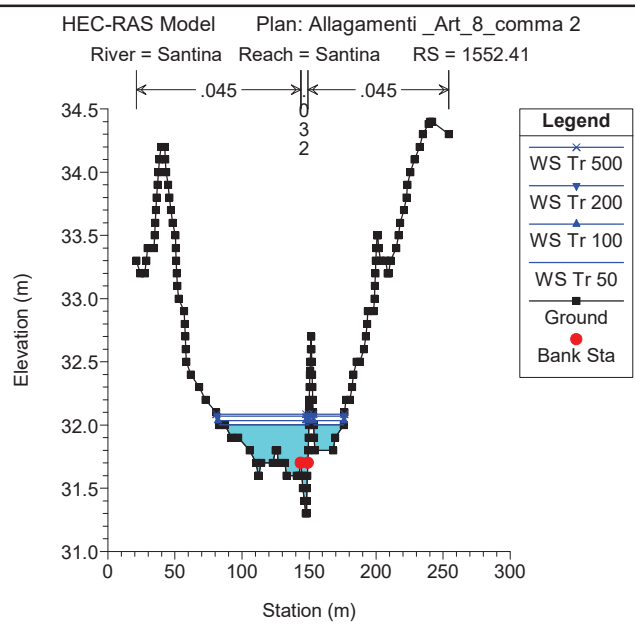
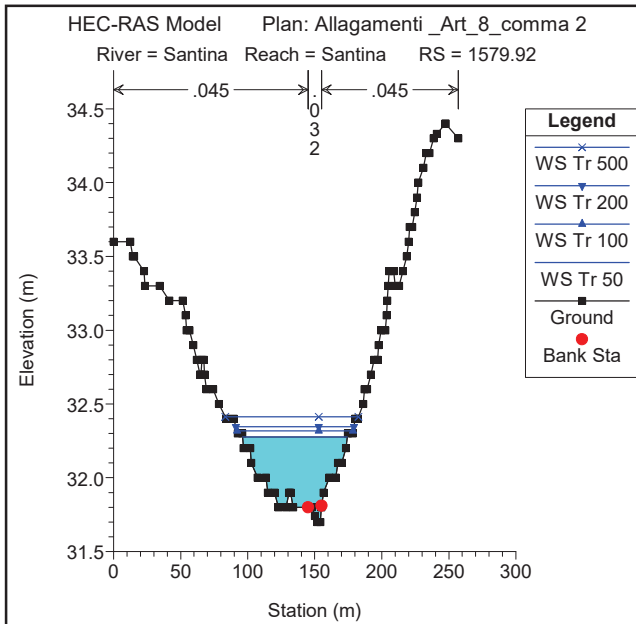


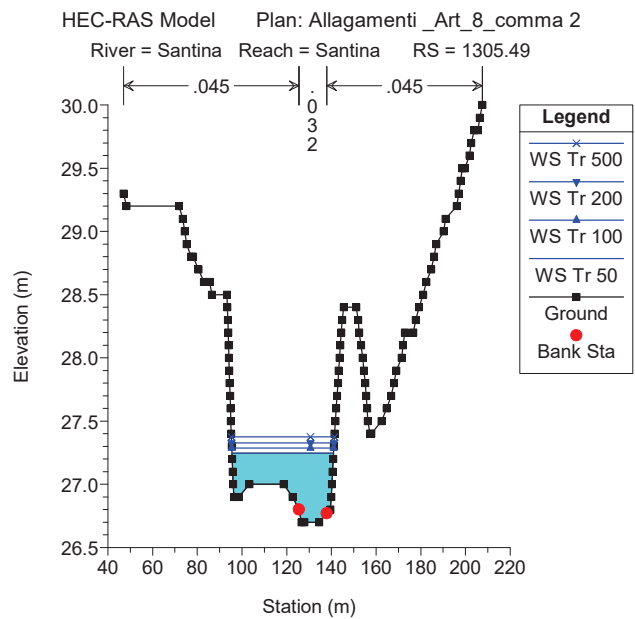
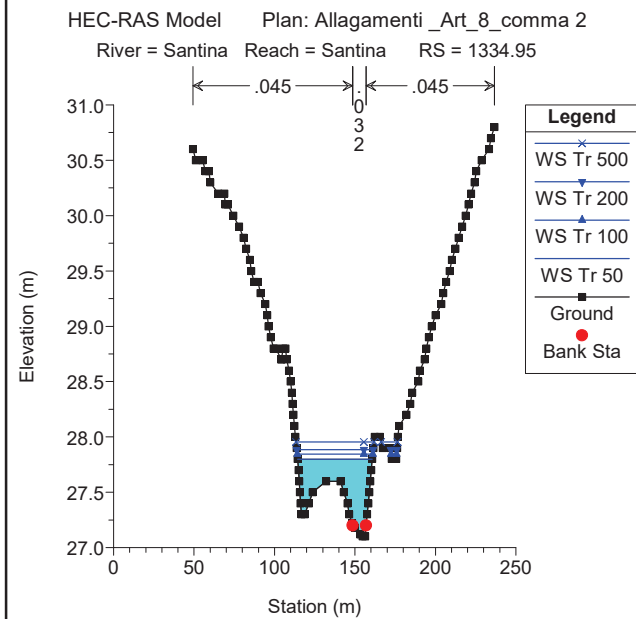
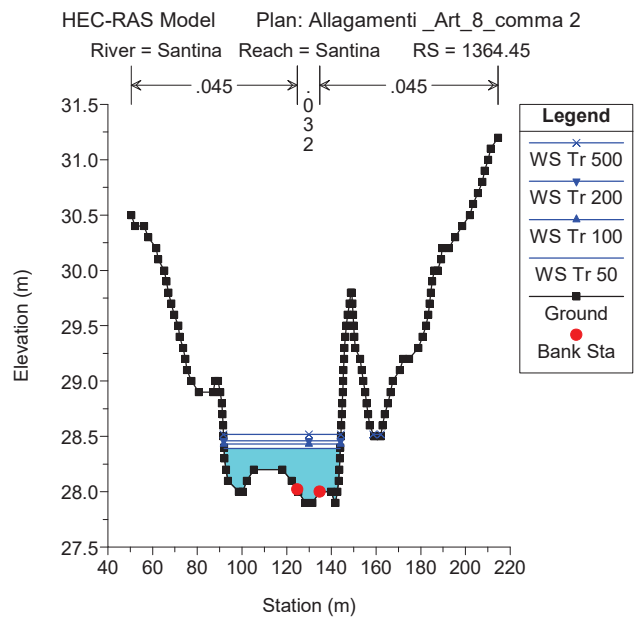
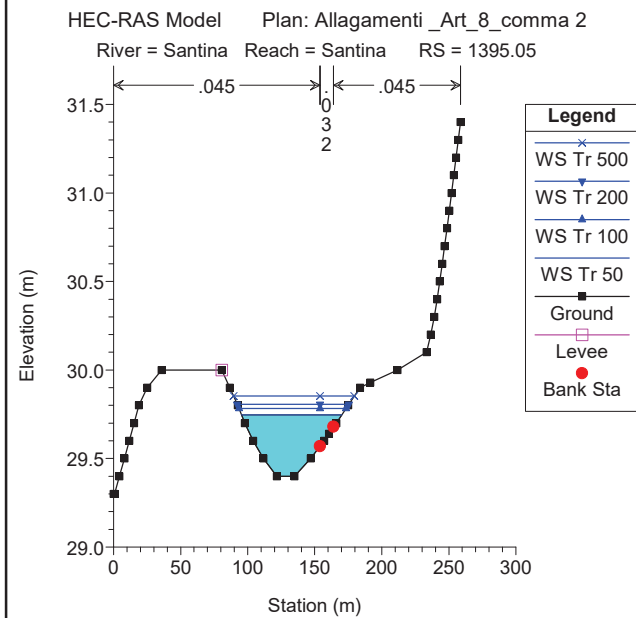
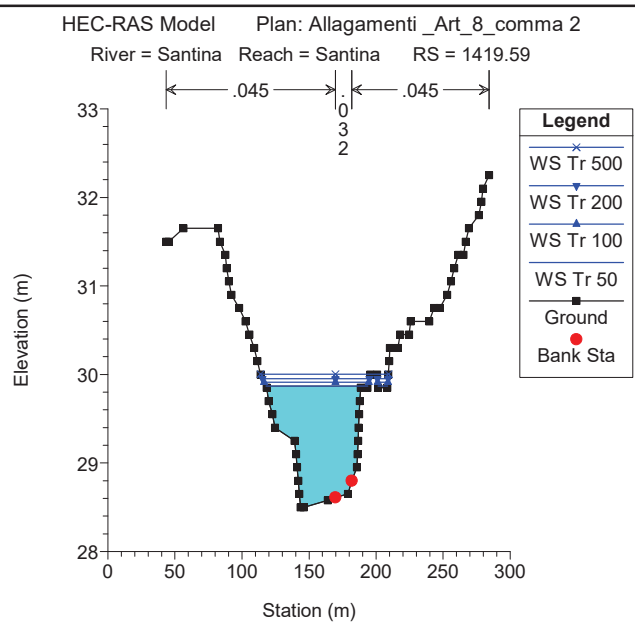
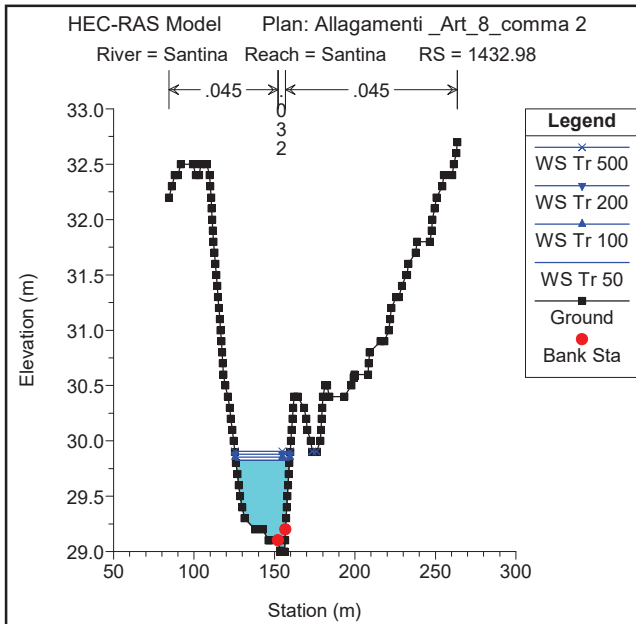


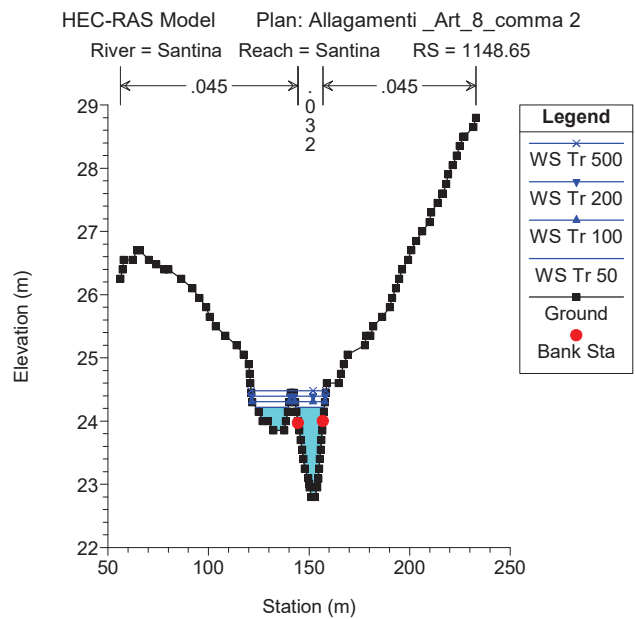
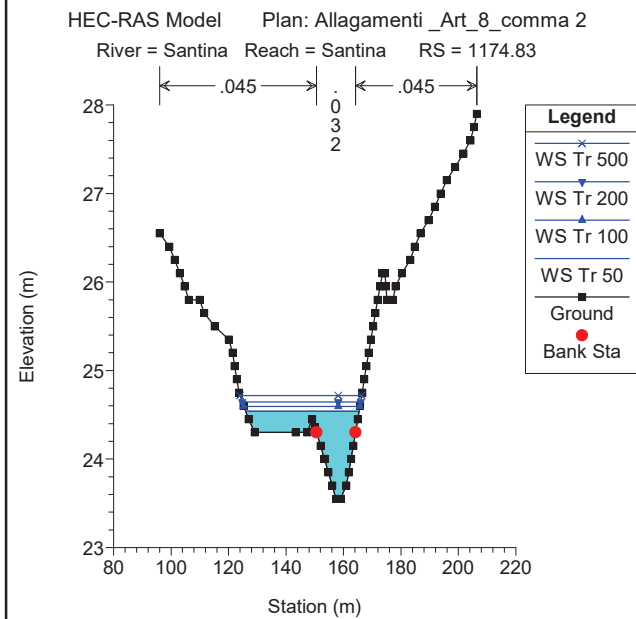
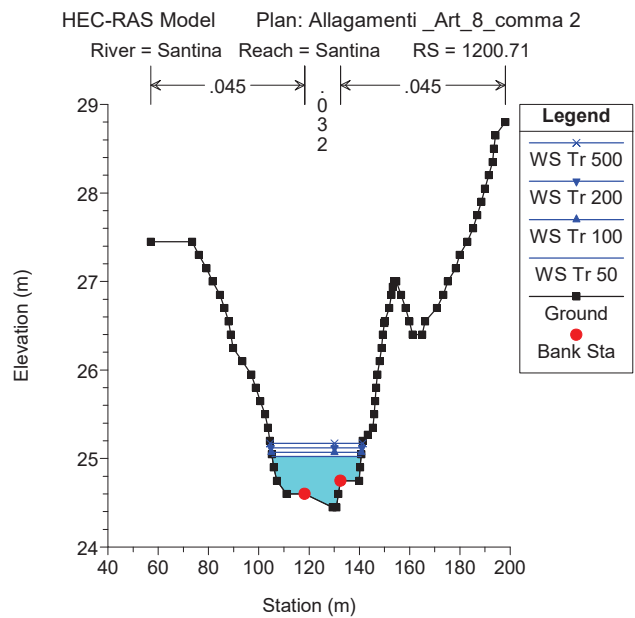
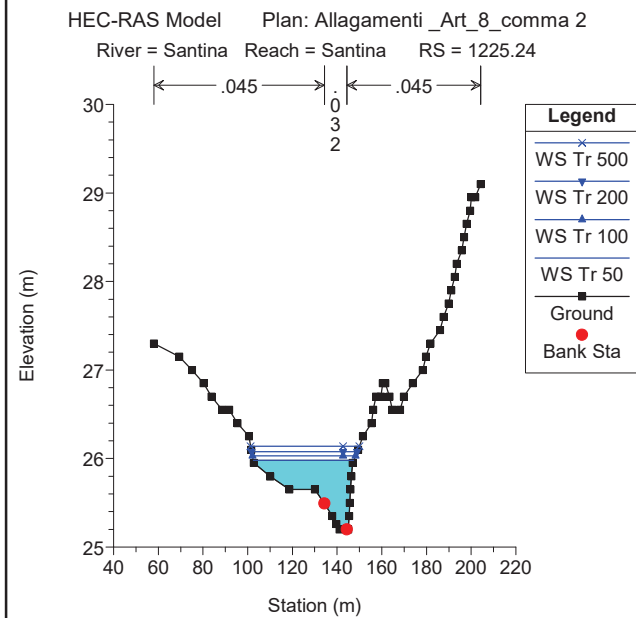
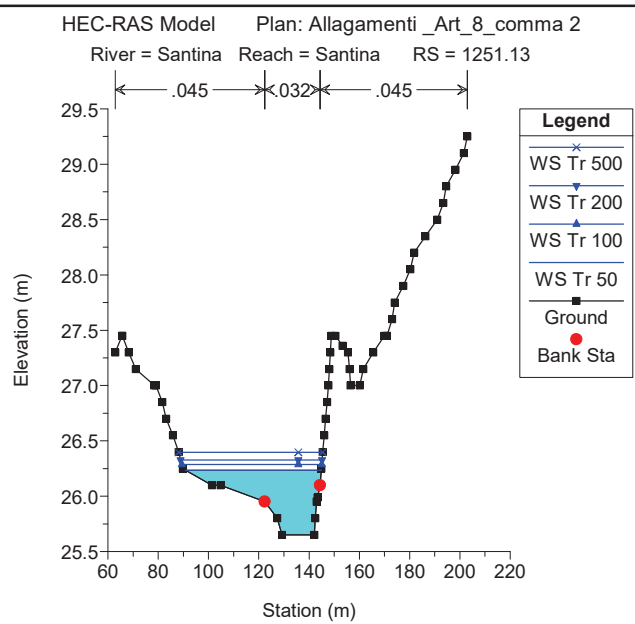
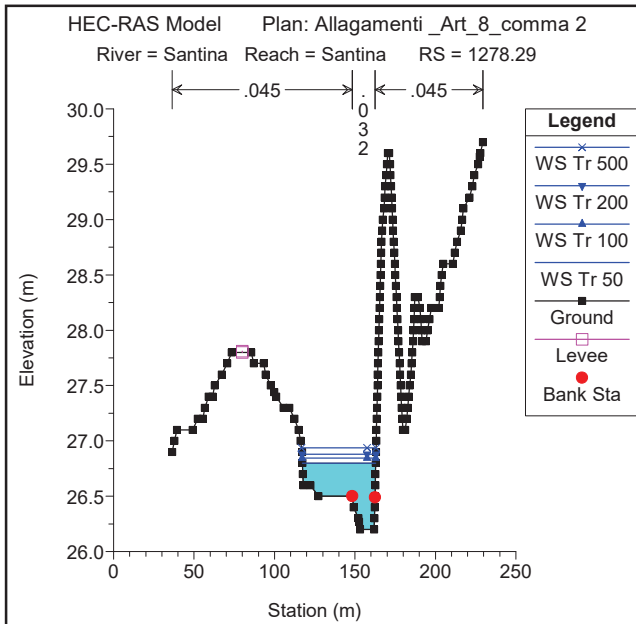


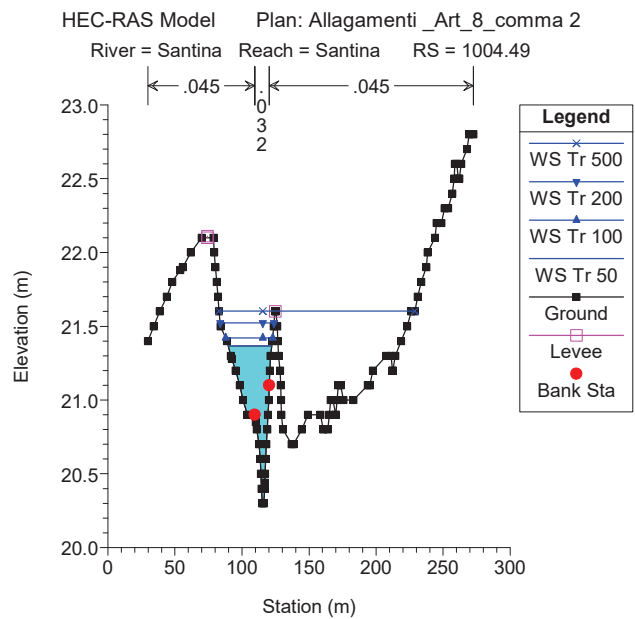
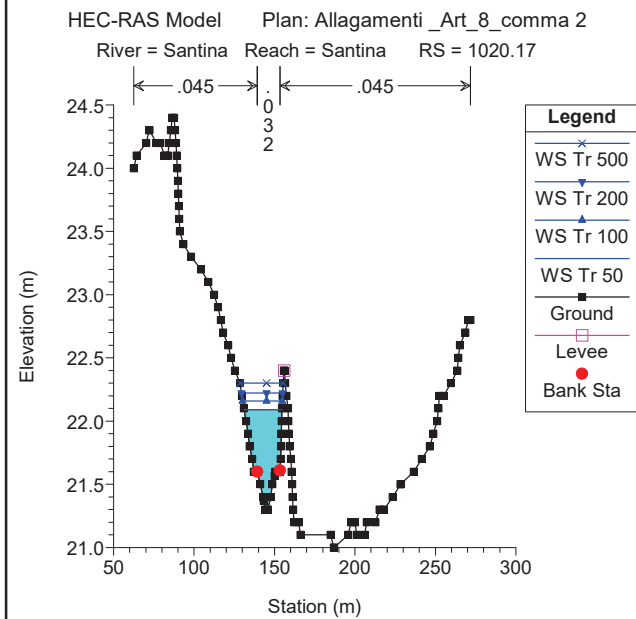
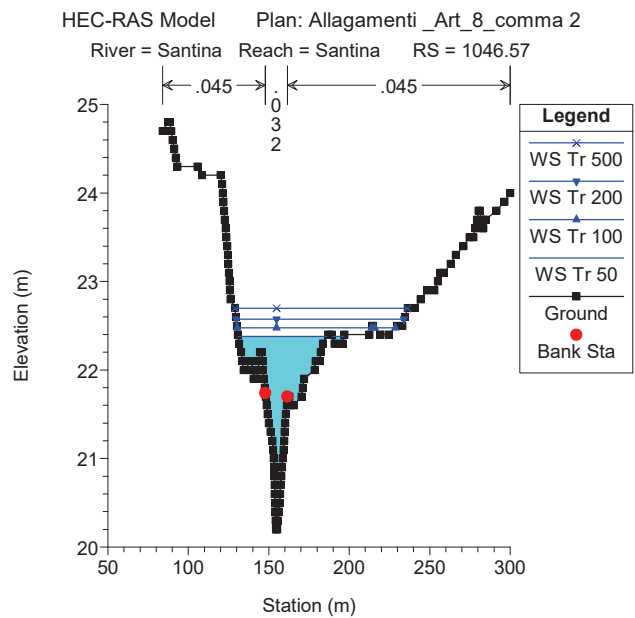
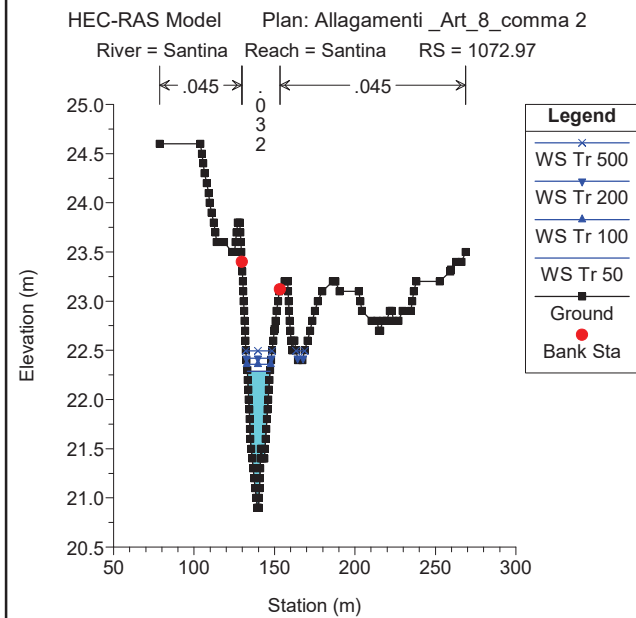
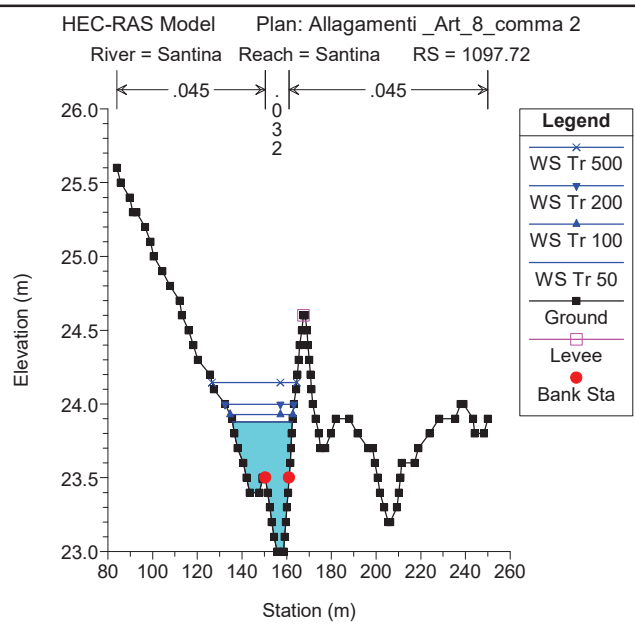
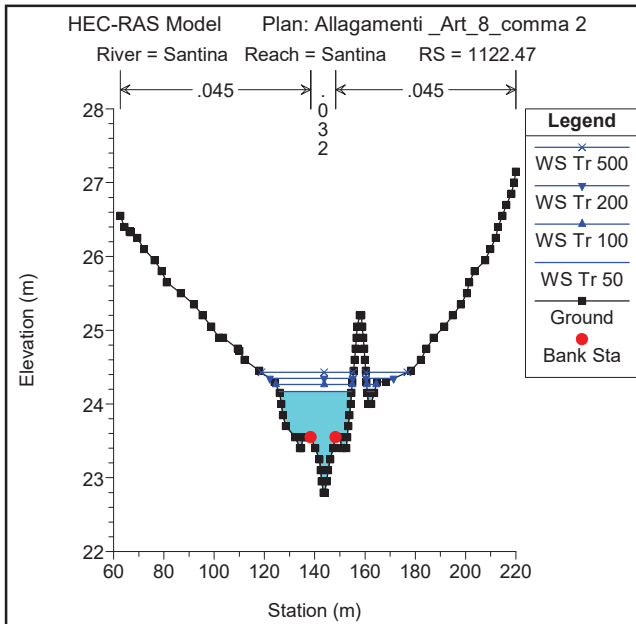


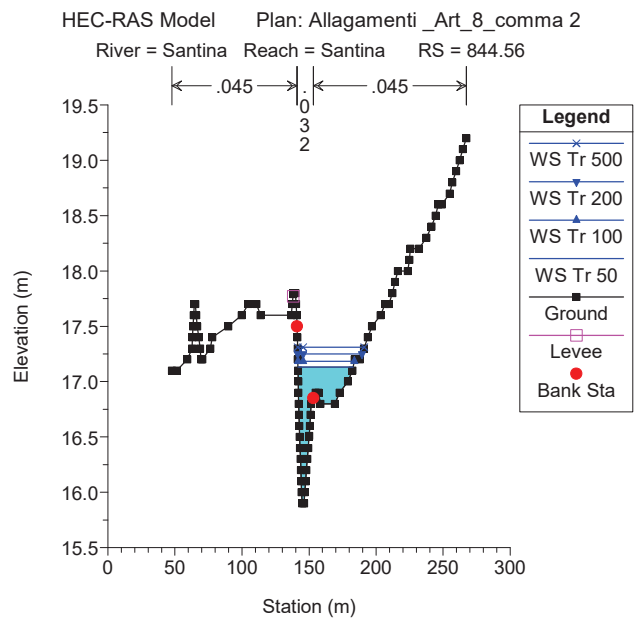
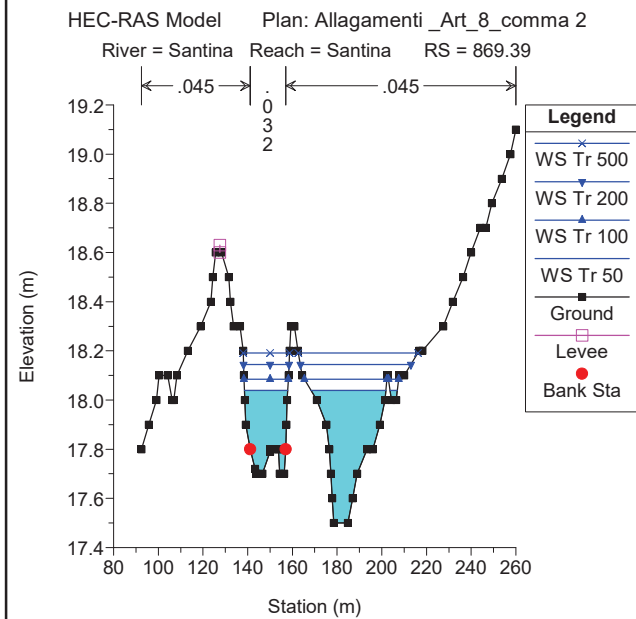
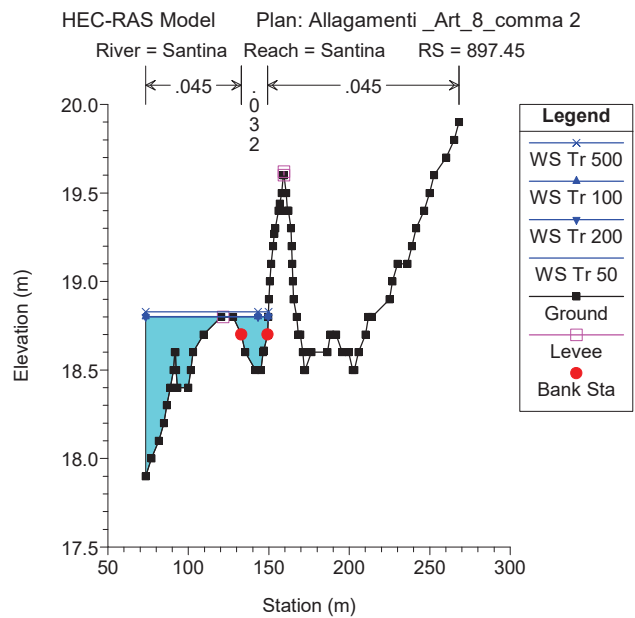
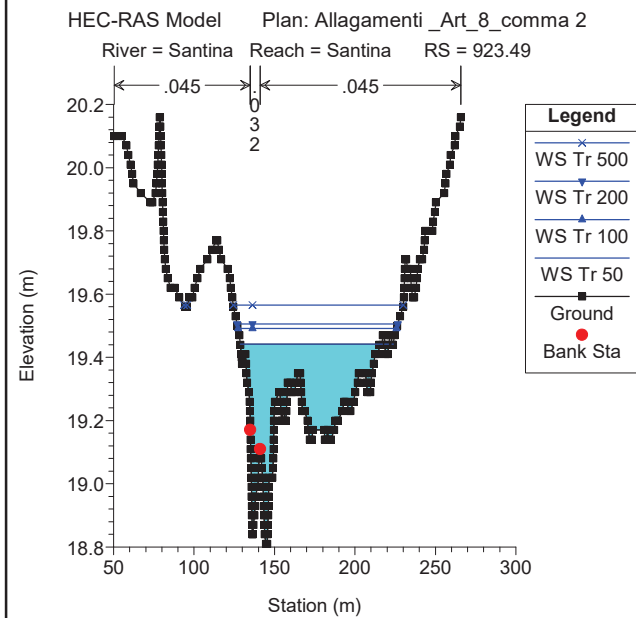
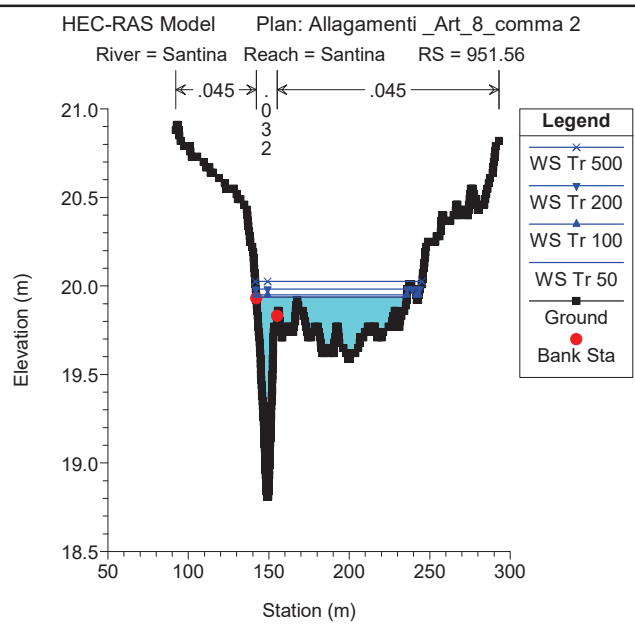
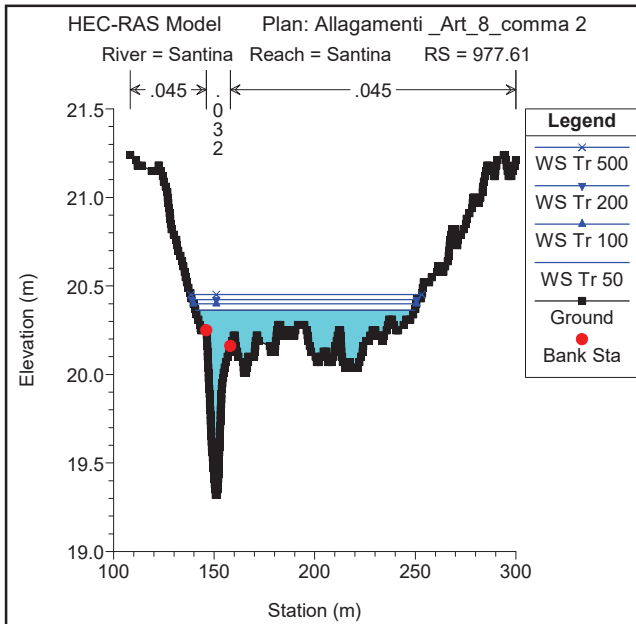


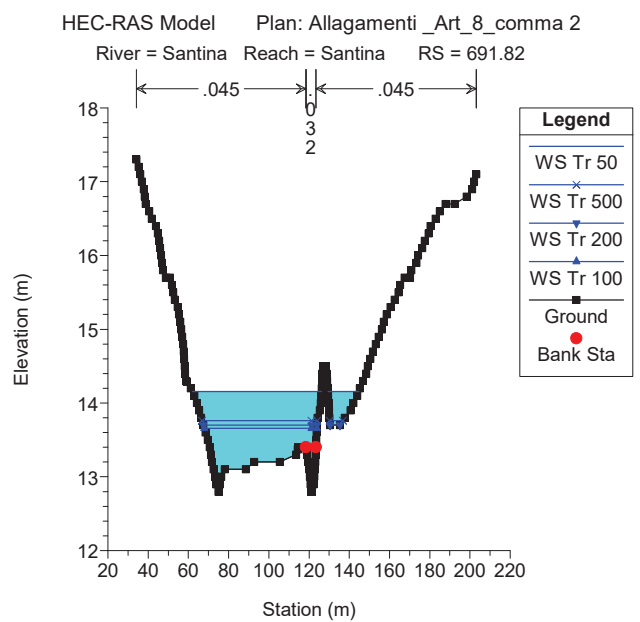
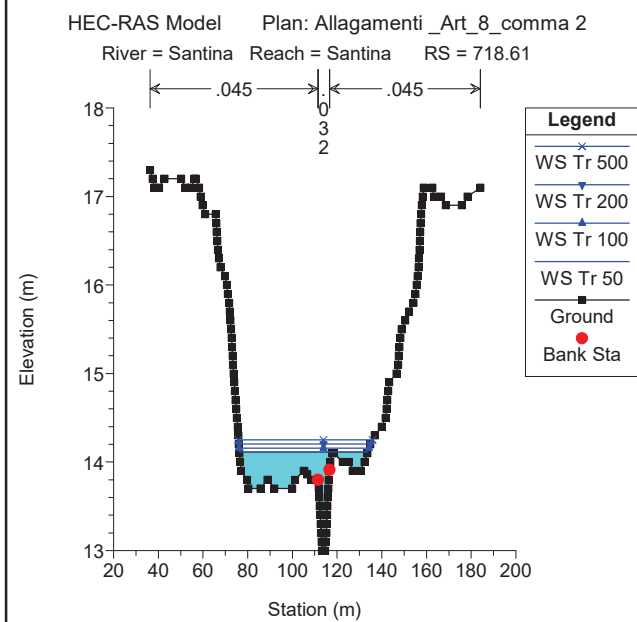
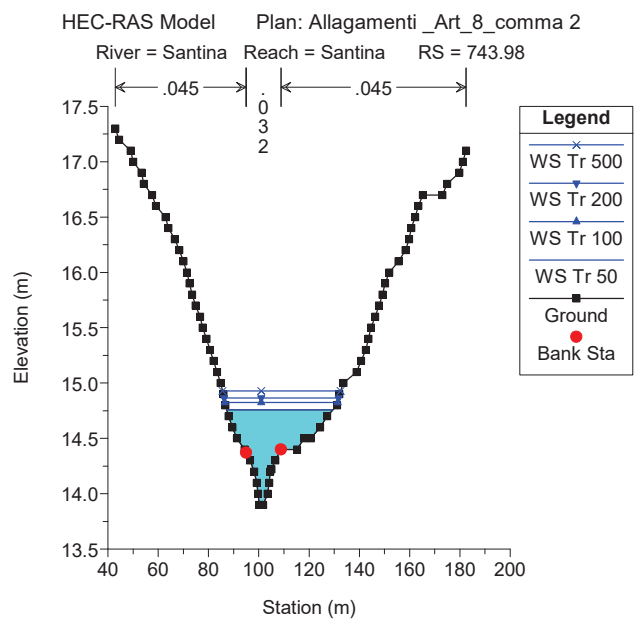
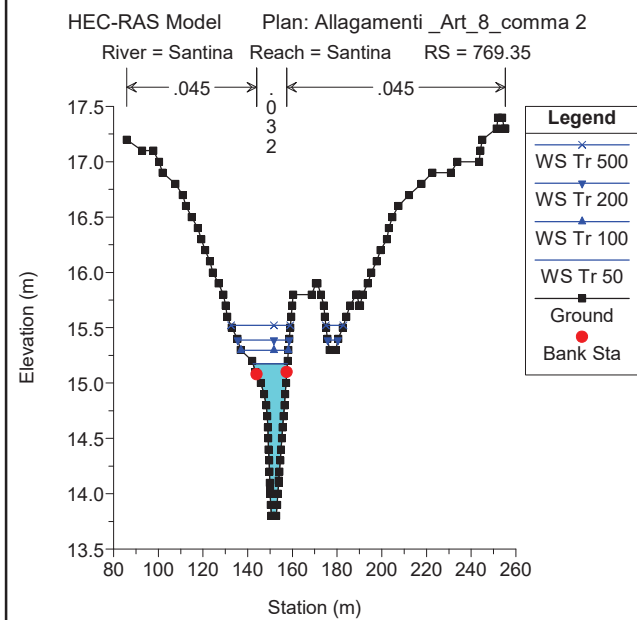
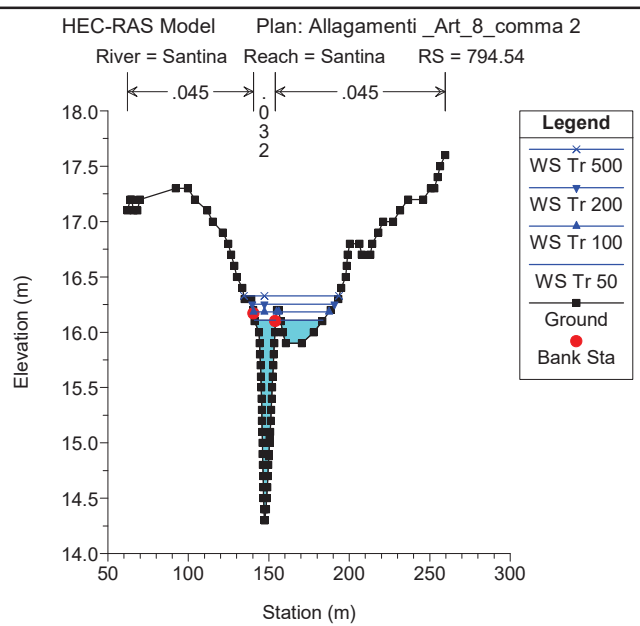
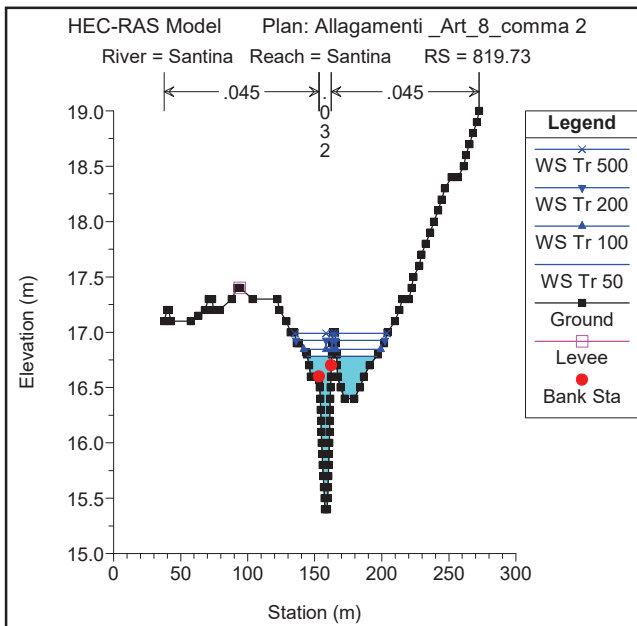




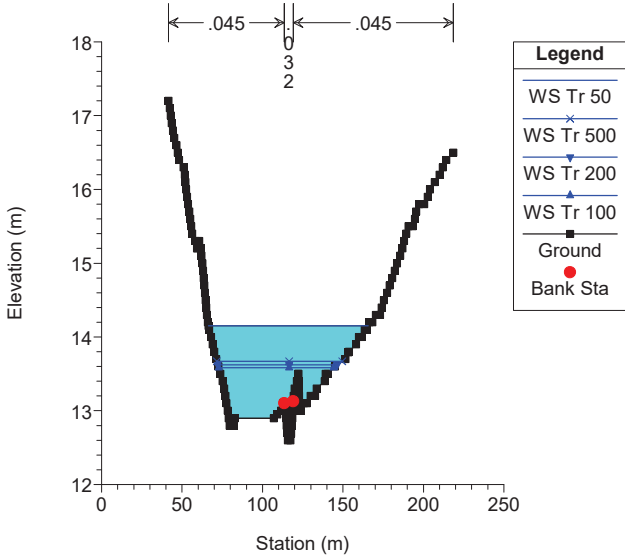




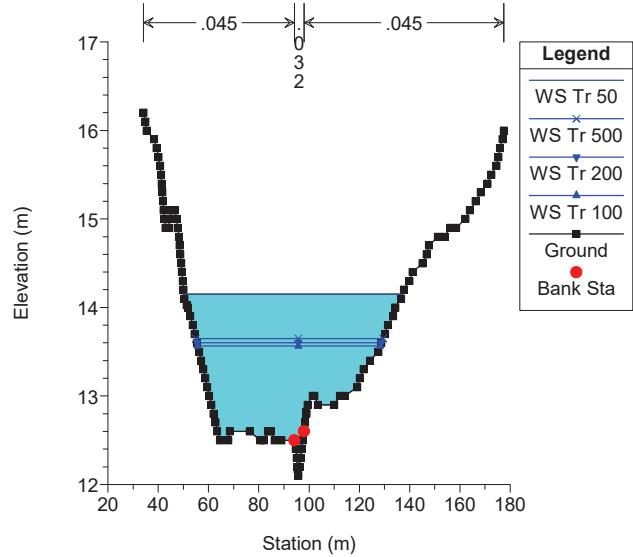




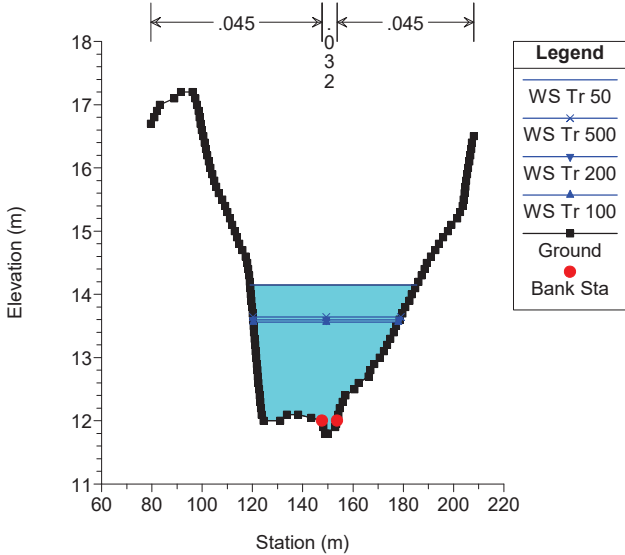
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Santina Reach = Santina RS = 666.48



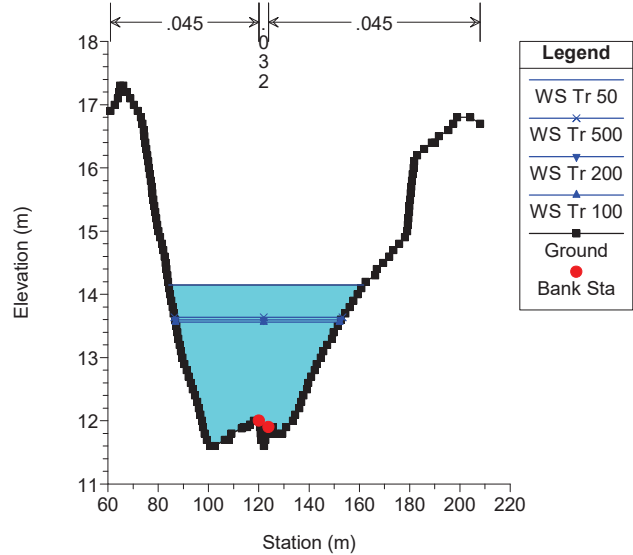
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Santina Reach = Santina RS = 639.7



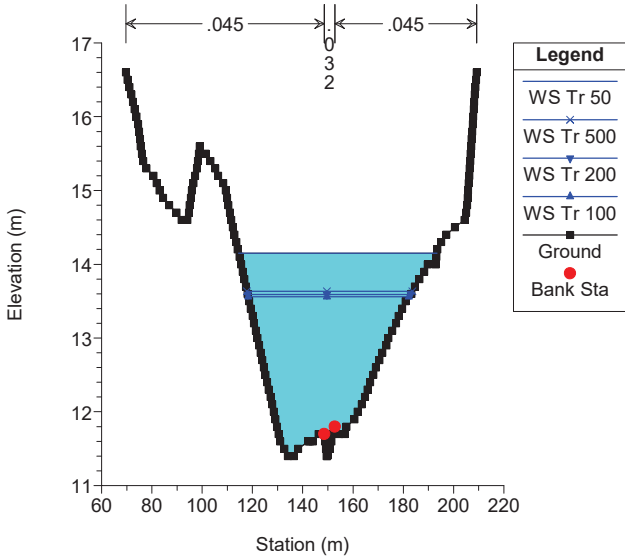
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Santina Reach = Santina RS = 614.37



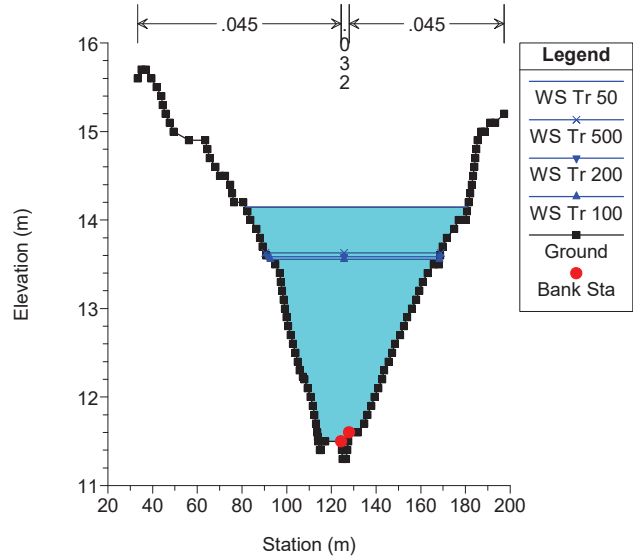
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Santina Reach = Santina RS = 589.98

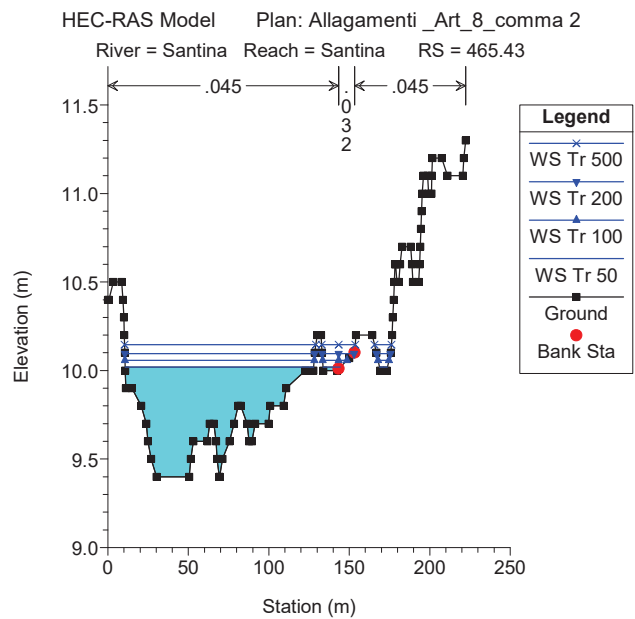
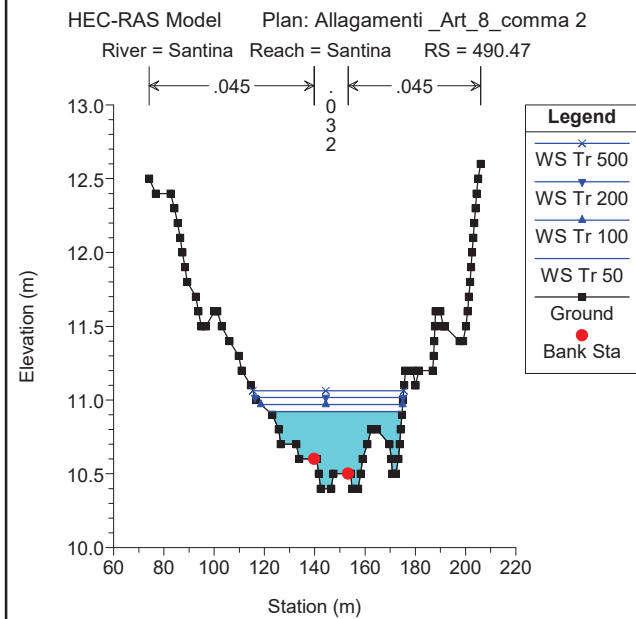
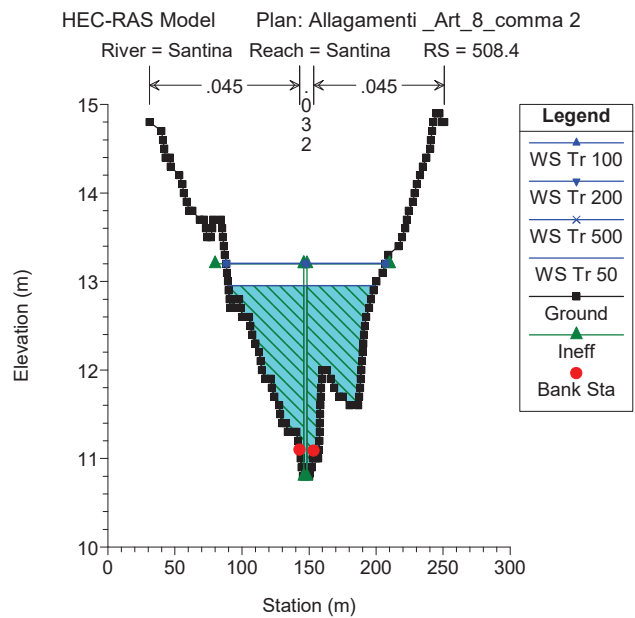
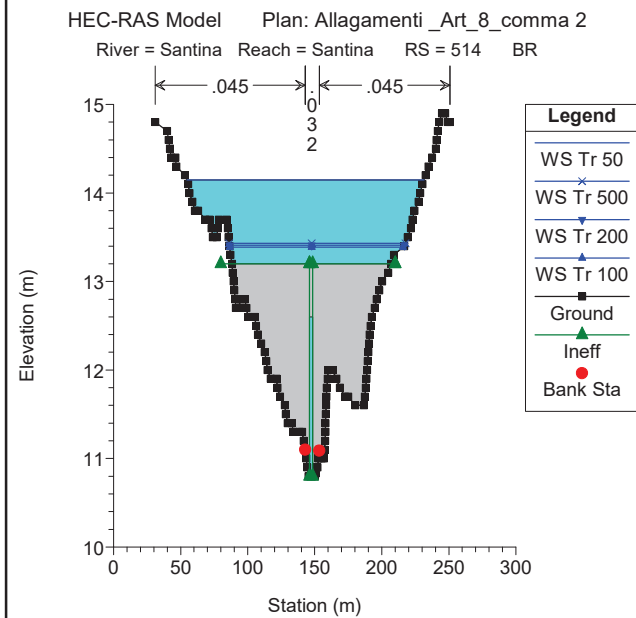
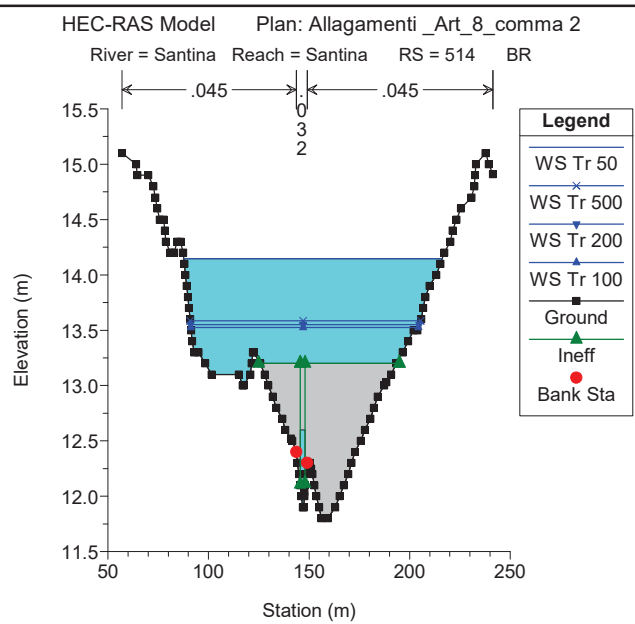
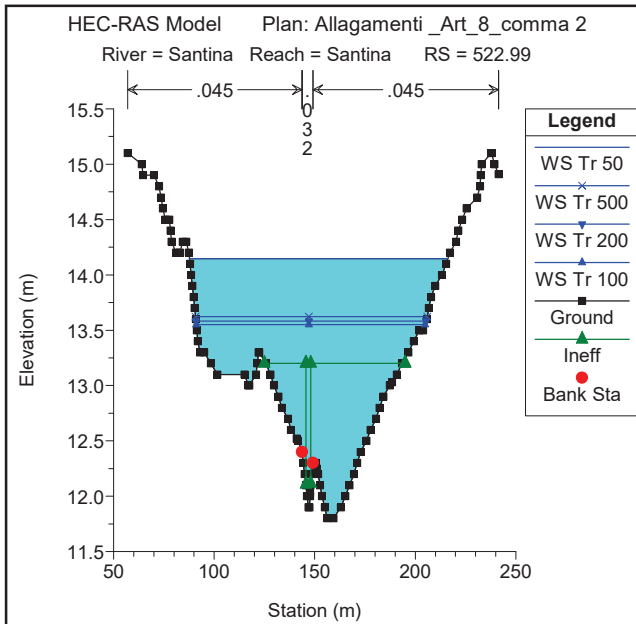


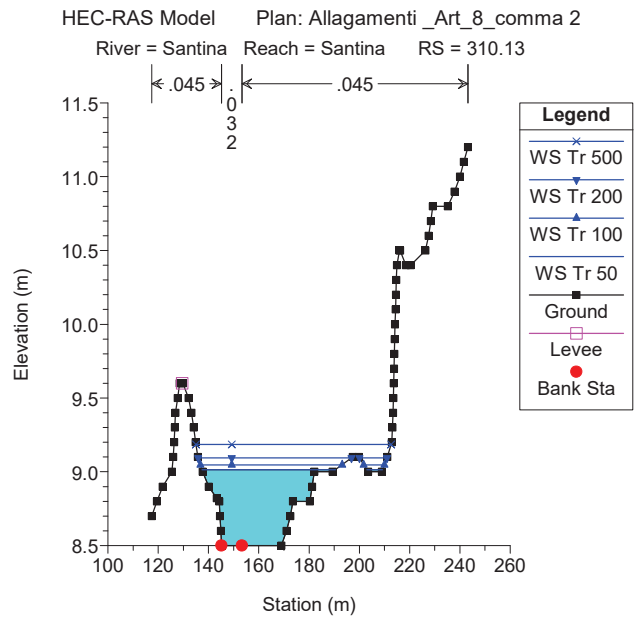
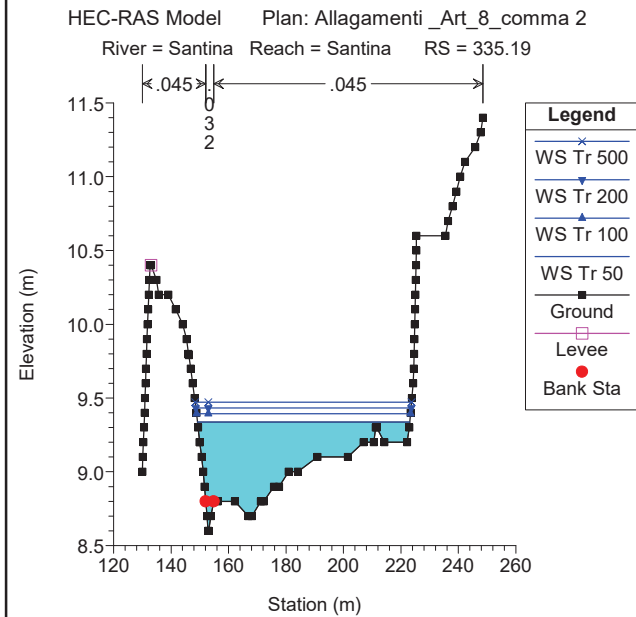
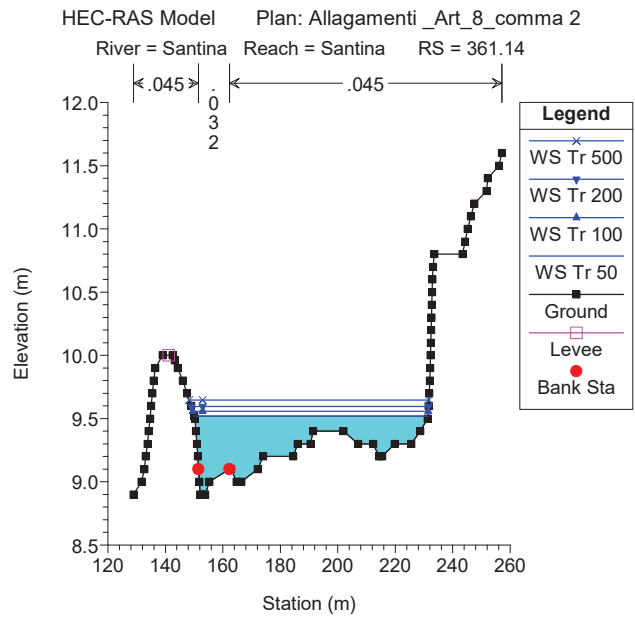
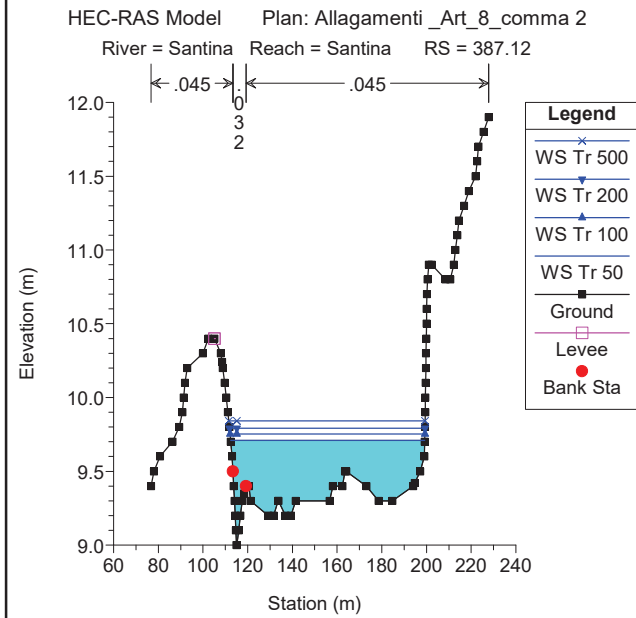
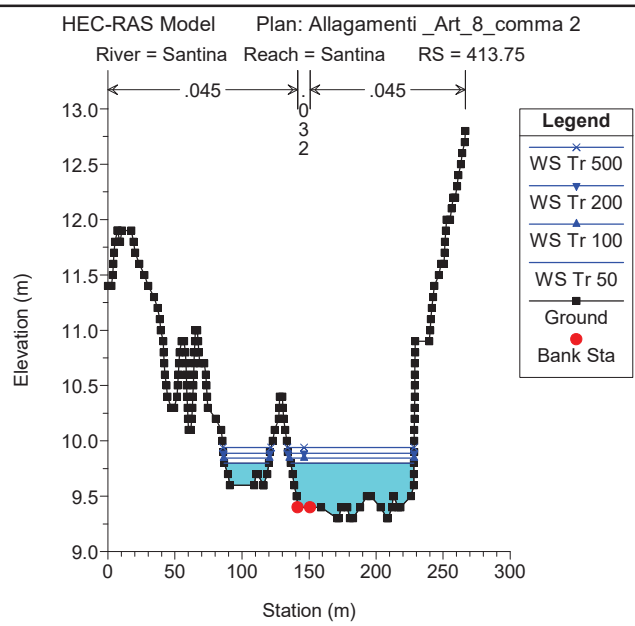
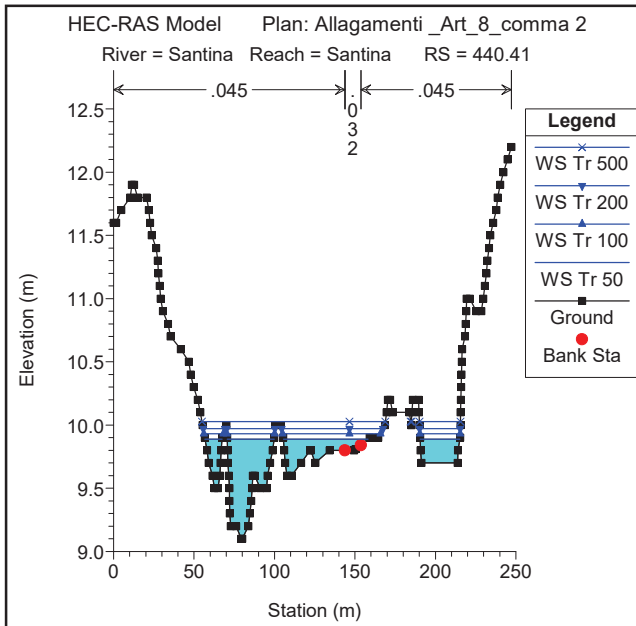
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Santina Reach = Santina RS = 565.59

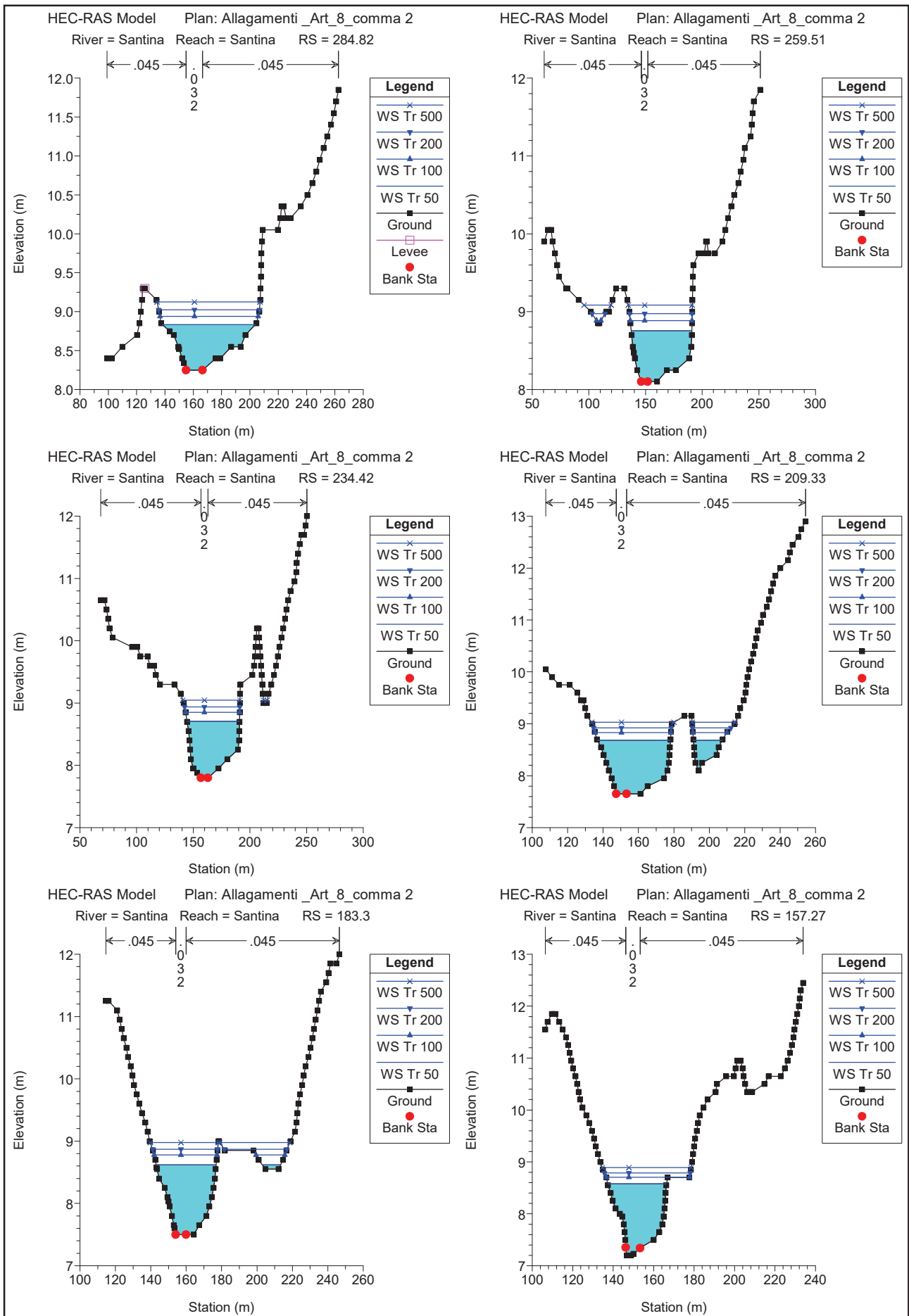


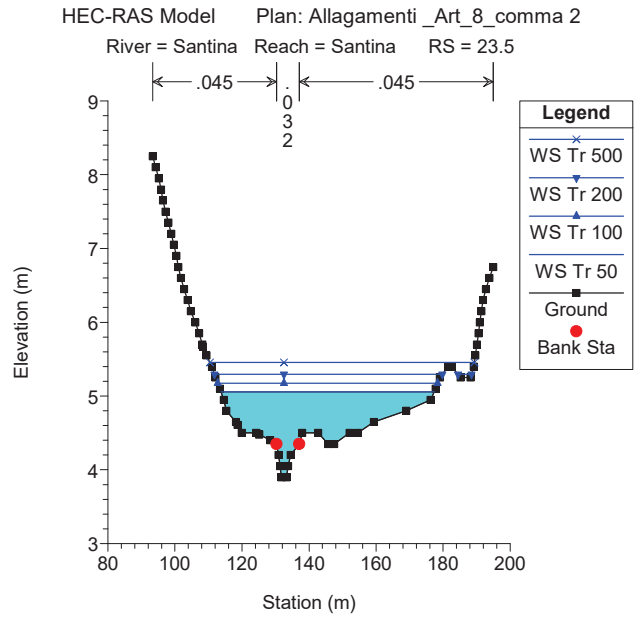
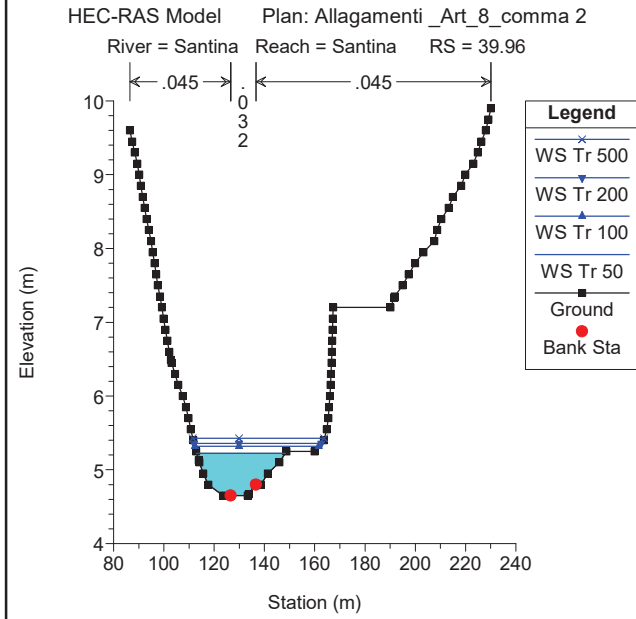
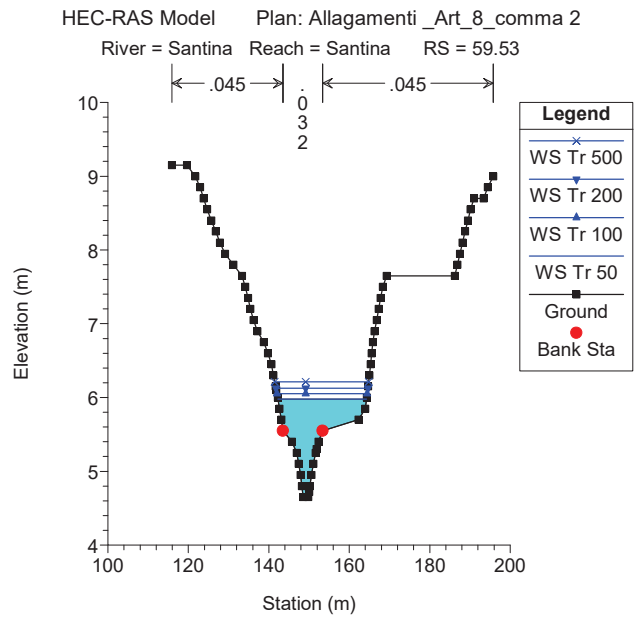
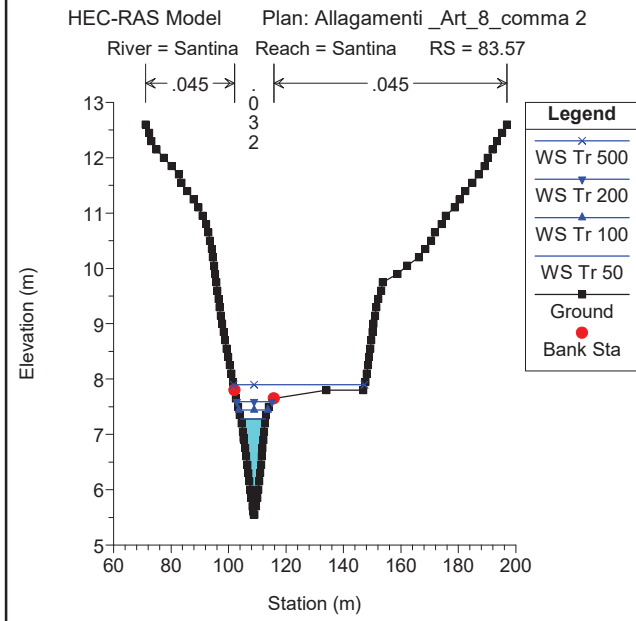
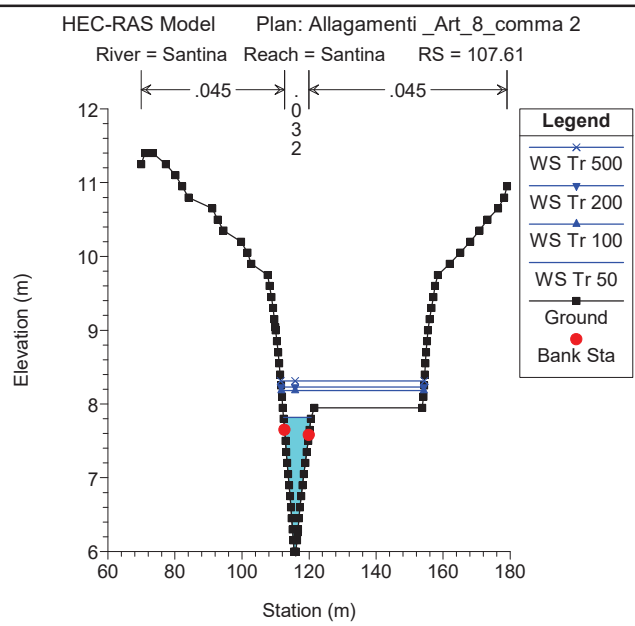
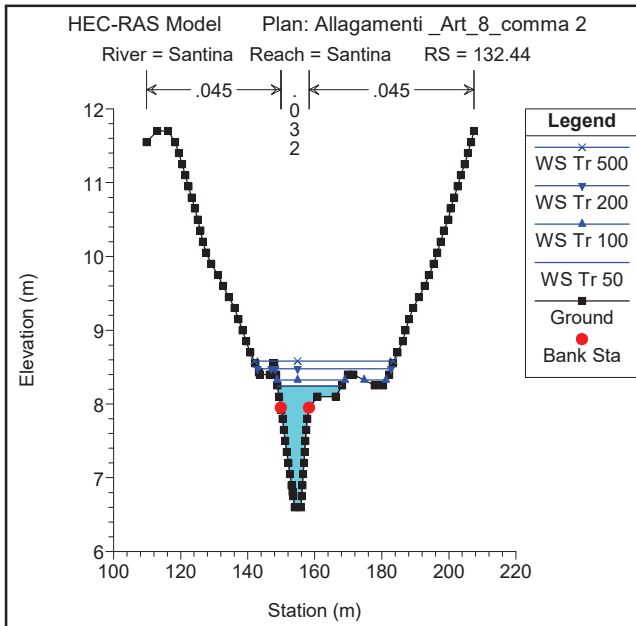
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
River = Santina Reach = Santina RS = 540.56



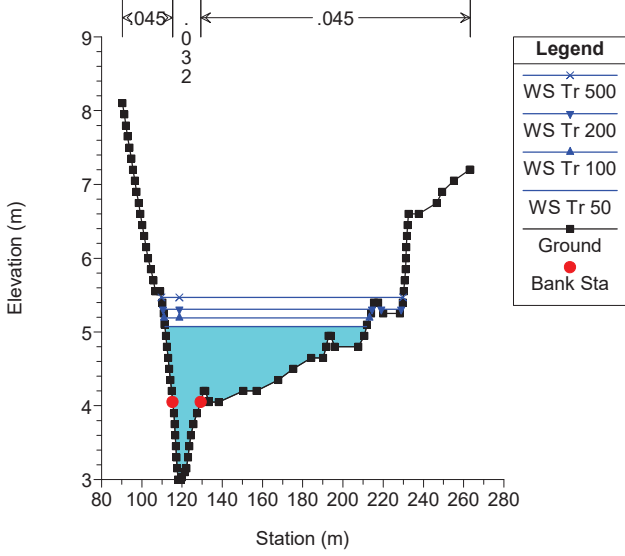




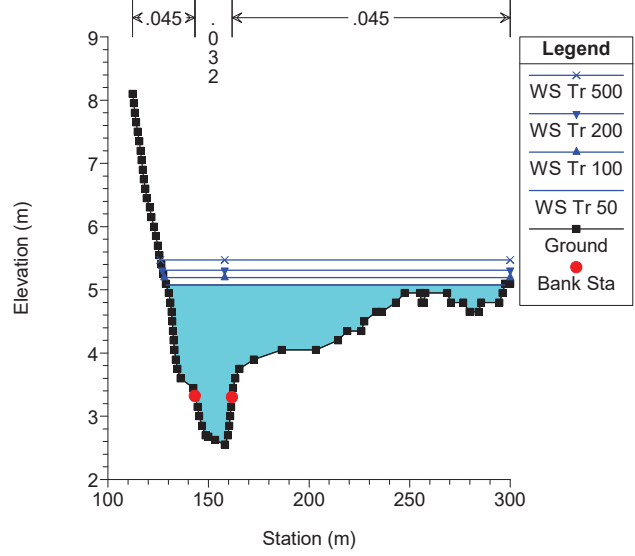




HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Santina Reach = Santina RS = 3



HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Santina Reach = Santina RS = 1



HEC-RAS Plan: Default Scenario River: Riu di Preadu Reach: Preadu

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Preadu	1536.43	Tr 50	51.22	111.88	112.88	112.88	113.31	0.017690	2.82	17.65	20.87	1.20
Preadu	1536.43	Tr 100	62.28	111.88	113.01	113.01	113.48	0.017094	3.00	20.51	22.21	1.20
Preadu	1536.43	Tr 200	73.62	111.88	113.14	113.14	113.64	0.016472	3.15	23.40	23.49	1.20
Preadu	1536.43	Tr 500	89.05	111.88	113.29	113.29	113.84	0.015973	3.33	27.10	25.05	1.20
Preadu	1486.9	Tr 50	51.22	110.10	111.03		111.27	0.007808	2.64	26.70	35.07	0.87
Preadu	1486.9	Tr 100	62.28	110.10	111.10	110.99	111.39	0.008890	2.95	29.19	35.98	0.94
Preadu	1486.9	Tr 200	73.62	110.10	111.16	111.09	111.51	0.010009	3.26	31.44	36.79	1.01
Preadu	1486.9	Tr 500	89.05	110.10	111.23	111.21	111.67	0.011643	3.67	34.03	37.69	1.10
Preadu	1437.37	Tr 50	51.22	110.10	110.93		110.99	0.002836	1.47	48.50	64.11	0.52
Preadu	1437.37	Tr 100	62.28	110.10	111.01		111.09	0.003089	1.63	53.51	65.15	0.55
Preadu	1437.37	Tr 200	73.62	110.10	111.08		111.17	0.003310	1.78	58.26	65.98	0.57
Preadu	1437.37	Tr 500	89.05	110.10	111.17		111.28	0.003588	1.96	64.15	67.00	0.60
Preadu	1387.84	Tr 50	51.22	110.10	110.82		110.86	0.002343	1.21	58.40	85.45	0.46
Preadu	1387.84	Tr 100	62.28	110.10	110.89		110.94	0.002518	1.34	64.43	85.96	0.48
Preadu	1387.84	Tr 200	73.62	110.10	110.96		111.02	0.002667	1.46	70.19	86.44	0.50
Preadu	1387.84	Tr 500	89.05	110.10	111.04		111.11	0.002857	1.60	77.29	87.03	0.53
Preadu	1338.31	Tr 50	51.22	110.10	110.62		110.69	0.005812	1.54	46.10	92.96	0.68
Preadu	1338.31	Tr 100	62.28	110.10	110.67		110.75	0.006223	1.70	50.91	93.50	0.72
Preadu	1338.31	Tr 200	73.62	110.10	110.72		110.82	0.006408	1.83	55.92	94.01	0.74
Preadu	1338.31	Tr 500	89.05	110.10	110.79		110.90	0.006817	2.01	61.68	94.53	0.77
Preadu	1288.78	Tr 50	51.22	109.90	110.00	110.00	110.15	0.025321	0.83	29.78	100.46	1.01
Preadu	1288.78	Tr 100	62.28	109.90	110.05	110.05	110.22	0.023453	1.16	35.17	111.36	1.07
Preadu	1288.78	Tr 200	73.62	109.90	110.10	110.10	110.27	0.022023	1.40	40.67	121.49	1.10
Preadu	1288.78	Tr 500	89.05	109.90	110.15	110.15	110.34	0.021501	1.66	46.93	123.85	1.13
Preadu	1239.25	Tr 50	51.22	107.81	108.34	108.34	108.55	0.021982	2.61	25.71	63.06	1.28
Preadu	1239.25	Tr 100	62.28	107.81	108.40	108.40	108.64	0.020351	2.78	30.22	66.61	1.26
Preadu	1239.25	Tr 200	73.62	107.81	108.46	108.46	108.73	0.019718	2.95	34.33	69.69	1.27
Preadu	1239.25	Tr 500	89.05	107.81	108.54	108.54	108.83	0.019078	3.16	39.70	73.51	1.27
Preadu	1189.72	Tr 50	51.22	102.72	103.41	103.41	103.72	0.020938	2.86	21.08	35.68	1.28
Preadu	1189.72	Tr 100	62.28	102.72	103.50	103.50	103.85	0.019938	3.12	24.47	37.43	1.29
Preadu	1189.72	Tr 200	73.62	102.72	103.59	103.59	103.97	0.019038	3.35	27.86	39.01	1.29
Preadu	1189.72	Tr 500	89.05	102.72	103.70	103.70	104.11	0.018381	3.62	32.14	40.92	1.30
Preadu	1140.19	Tr 50	51.22	100.20	101.46		101.56	0.002777	1.62	38.29	37.22	0.52
Preadu	1140.19	Tr 100	62.28	100.20	101.58		101.70	0.002956	1.80	42.66	38.48	0.55
Preadu	1140.19	Tr 200	73.62	100.20	101.69		101.82	0.003117	1.96	46.86	39.64	0.57
Preadu	1140.19	Tr 500	89.05	100.20	101.82		101.98	0.003302	2.17	52.23	41.01	0.60
Preadu	1090.66	Tr 50	51.22	100.20	101.24		101.38	0.004405	2.13	33.42	39.65	0.67
Preadu	1090.66	Tr 100	62.28	100.20	101.33		101.51	0.004784	2.34	37.10	40.78	0.70
Preadu	1090.66	Tr 200	73.62	100.20	101.41		101.62	0.005132	2.55	40.60	41.82	0.74
Preadu	1090.66	Tr 500	89.05	100.20	101.52		101.77	0.005568	2.80	44.97	43.09	0.78
Preadu	1067.5	Tr 50	51.22	100.20	101.12		101.27	0.005482	2.13	32.80	43.59	0.72
Preadu	1067.5	Tr 100	62.28	100.20	101.21		101.38	0.005925	2.35	36.42	44.68	0.76
Preadu	1067.5	Tr 200	73.62	100.20	101.28		101.49	0.006334	2.56	39.84	45.69	0.80
Preadu	1067.5	Tr 500	89.05	100.20	101.37		101.62	0.006900	2.82	44.01	46.89	0.85
Preadu	1041.13	Tr 50	51.22	100.20	100.76	100.76	101.02	0.018436	2.89	24.55	49.76	1.23
Preadu	1041.13	Tr 100	62.28	100.20	100.84	100.84	101.12	0.017558	3.07	28.34	51.24	1.23
Preadu	1041.13	Tr 200	73.62	100.20	100.91	100.91	101.22	0.016961	3.23	31.98	52.55	1.23
Preadu	1041.13	Tr 500	89.05	100.20	101.00	101.00	101.35	0.016107	3.42	36.87	54.25	1.22
Preadu	1017.37	Tr 50	51.22	99.75	100.29	100.29	100.51	0.018030	2.78	27.20	63.09	1.21
Preadu	1017.37	Tr 100	62.28	99.75	100.35	100.35	100.60	0.017433	2.95	31.30	64.95	1.21
Preadu	1017.37	Tr 200	73.62	99.75	100.42	100.42	100.68	0.016928	3.10	35.31	66.65	1.21
Preadu	1017.37	Tr 500	89.05	99.75	100.49	100.49	100.79	0.016594	3.29	40.36	68.72	1.22
Preadu	991.6	Tr 50	51.22	97.95	98.62	98.62	98.85	0.015084	2.89	27.48	59.62	1.14
Preadu	991.6	Tr 100	62.28	97.95	98.69	98.69	98.95	0.014657	3.05	31.91	62.76	1.14
Preadu	991.6	Tr 200	73.62	97.95	98.76	98.76	99.03	0.014142	3.19	36.40	65.62	1.14
Preadu	991.6	Tr 500	89.05	97.95	98.84	98.84	99.14	0.014094	3.39	41.74	68.82	1.16
Preadu	967.26	Tr 50	51.22	95.85	98.60		98.61	0.000108	0.62	144.91	93.08	0.12
Preadu	967.26	Tr 100	62.28	95.85	98.71		98.72	0.000135	0.71	154.76	96.40	0.14
Preadu	967.26	Tr 200	73.62	95.85	98.81		98.83	0.000161	0.80	164.75	99.64	0.15
Preadu	967.26	Tr 500	89.05	95.85	98.94		98.96	0.000195	0.90	177.58	103.82	0.17
Preadu	942.07	Tr 50	51.22	96.08	98.60		98.61	0.000154	0.70	135.56	91.69	0.14
Preadu	942.07	Tr 100	62.28	96.08	98.70		98.72	0.000189	0.80	145.20	94.82	0.16
Preadu	942.07	Tr 200	73.62	96.08	98.81		98.82	0.000223	0.89	154.97	98.03	0.18

HEC-RAS Plan: Default Scenario River: Riu_di_Preadu Reach: Preadu (Continued)

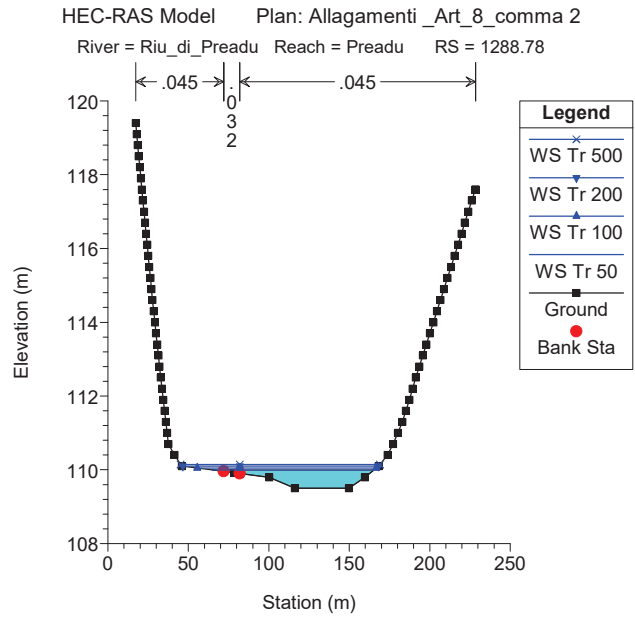
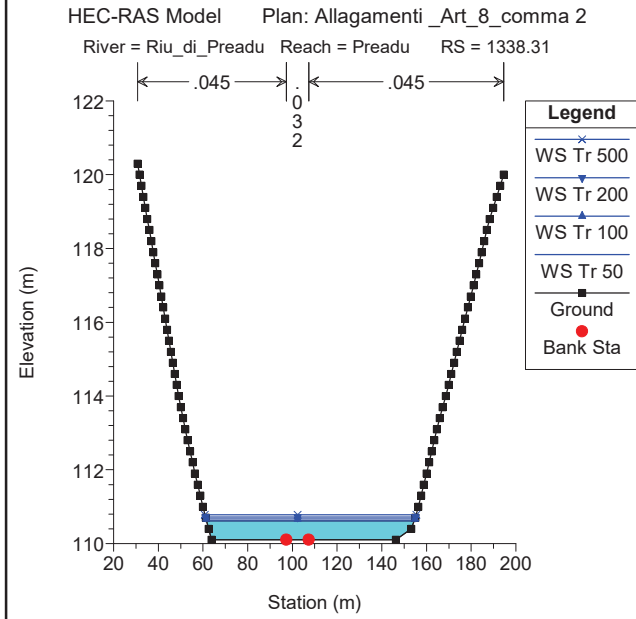
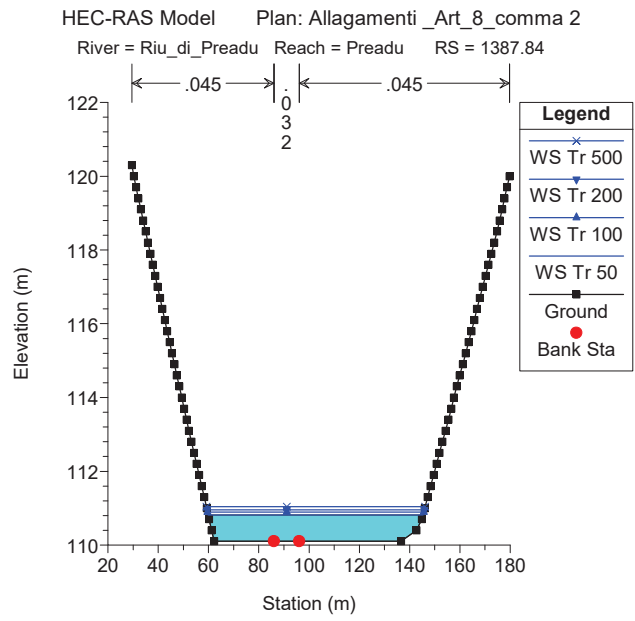
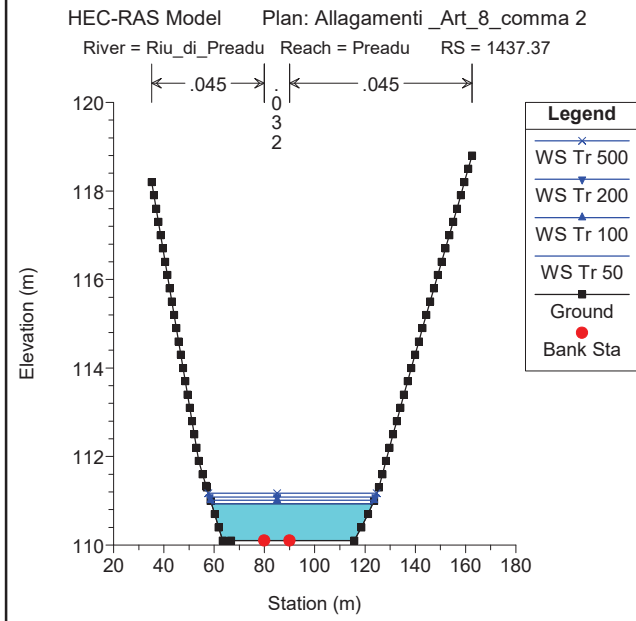
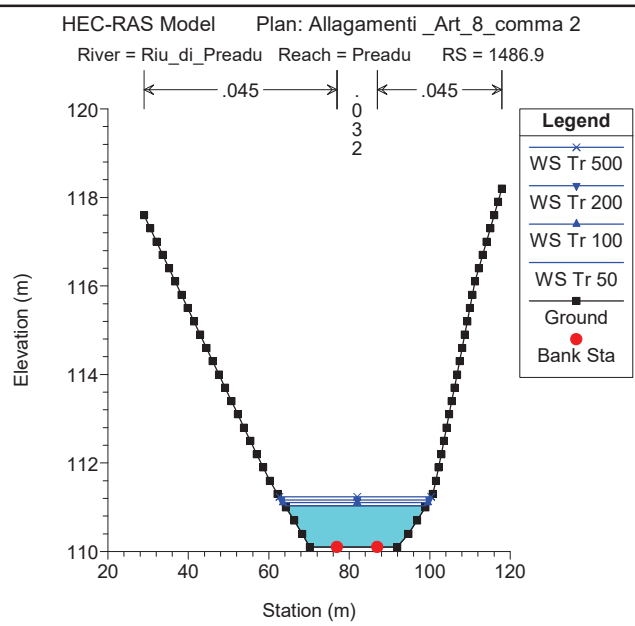
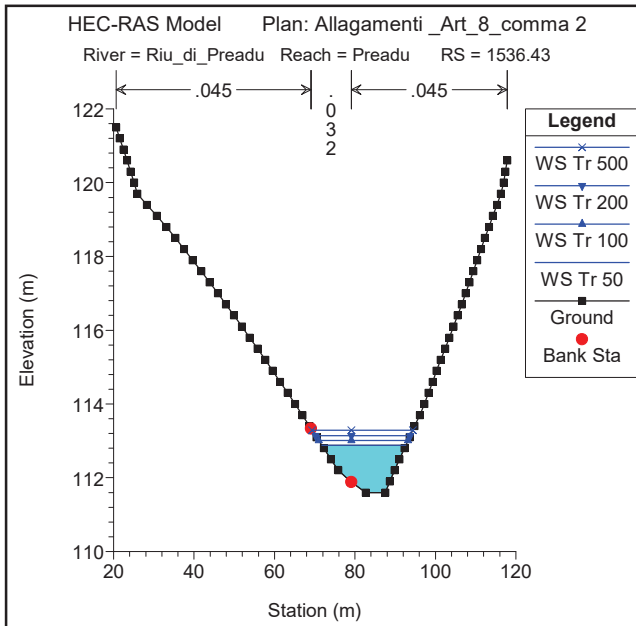
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Preadu	942.07	Tr 500	89.05	96.08	98.93		98.95	0.000266	1.01	167.51	102.01	0.19
Preadu	920.53	Tr 50	51.22	97.69	98.36	98.33	98.58	0.017564	2.87	26.36	55.05	1.21
Preadu	920.53	Tr 100	62.28	97.69	98.47	98.41	98.68	0.014192	2.90	32.69	59.77	1.12
Preadu	920.53	Tr 200	73.62	97.69	98.58	98.48	98.79	0.011578	2.90	39.64	64.47	1.03
Preadu	920.53	Tr 500	89.05	97.69	98.71	98.57	98.91	0.009769	2.94	48.22	69.41	0.97
Preadu	892.54	Tr 50	51.22	96.90	97.83	97.83	98.18	0.011200	3.16	23.03	34.58	1.04
Preadu	892.54	Tr 100	62.28	96.90	97.94	97.94	98.32	0.010926	3.35	26.78	36.57	1.05
Preadu	892.54	Tr 200	73.62	96.90	98.03	98.03	98.45	0.010879	3.54	30.30	38.35	1.06
Preadu	892.54	Tr 500	89.05	96.90	98.17	98.17	98.61	0.010082	3.68	35.74	40.69	1.04
Preadu	868.03	Tr 50	51.22	90.30	91.99	91.99	92.49	0.010386	3.14	16.38	17.23	1.00
Preadu	868.03	Tr 100	62.28	90.30	92.14	92.14	92.70	0.009700	3.31	19.09	18.47	0.99
Preadu	868.03	Tr 200	73.62	90.30	92.28	92.28	92.89	0.009155	3.47	21.73	19.54	0.98
Preadu	868.03	Tr 500	89.05	90.30	92.46	92.46	93.13	0.008617	3.67	25.27	20.89	0.97
Preadu	843.01	Tr 50	51.22	90.30	91.24	91.24	91.63	0.011670	3.24	21.22	29.06	1.07
Preadu	843.01	Tr 100	62.28	90.30	91.36	91.36	91.78	0.011272	3.44	24.66	30.60	1.07
Preadu	843.01	Tr 200	73.62	90.30	91.47	91.47	91.93	0.010862	3.61	28.15	32.08	1.07
Preadu	843.01	Tr 500	89.05	90.30	91.61	91.61	92.11	0.010381	3.81	32.77	33.87	1.06
Preadu	817.47	Tr 50	51.22	89.86	90.56	90.56	90.83	0.018268	3.22	23.60	43.24	1.26
Preadu	817.47	Tr 100	62.28	89.86	90.64	90.64	90.95	0.017429	3.41	27.32	44.74	1.26
Preadu	817.47	Tr 200	73.62	89.86	90.72	90.72	91.06	0.017235	3.61	30.69	46.03	1.27
Preadu	817.47	Tr 500	89.05	89.86	90.82	90.82	91.19	0.016542	3.81	35.38	47.71	1.27
Preadu	793.48	Tr 50	51.22	87.90	88.83	88.83	89.19	0.011873	3.24	22.46	33.17	1.07
Preadu	793.48	Tr 100	62.28	87.90	88.94	88.94	89.33	0.011470	3.44	26.23	35.33	1.08
Preadu	793.48	Tr 200	73.62	87.90	89.04	89.04	89.47	0.011234	3.62	29.88	37.31	1.08
Preadu	793.48	Tr 500	89.05	87.90	89.18	89.18	89.63	0.010413	3.76	35.27	39.71	1.06
Preadu	771.61	Tr 50	51.22	81.75	83.15	83.15	83.58	0.009045	2.96	19.08	25.49	0.95
Preadu	771.61	Tr 100	62.28	81.75	83.28	83.28	83.75	0.008458	3.12	22.67	27.70	0.93
Preadu	771.61	Tr 200	73.62	81.75	83.41	83.41	83.91	0.008083	3.26	26.17	29.44	0.93
Preadu	771.61	Tr 500	89.05	81.75	83.57	83.57	84.11	0.007549	3.41	31.03	31.49	0.91
Preadu	743.95	Tr 50	51.22	74.70	75.77	75.77	76.19	0.009946	2.88	18.49	24.46	0.97
Preadu	743.95	Tr 100	62.28	74.70	75.90	75.90	76.36	0.009229	3.03	21.72	26.07	0.96
Preadu	743.95	Tr 200	73.62	74.70	76.02	76.02	76.52	0.008836	3.19	24.81	27.28	0.95
Preadu	743.95	Tr 500	89.05	74.70	76.16	76.16	76.72	0.008413	3.37	28.90	28.80	0.95
Preadu	721.35	Tr 50	51.22	70.20	71.21	71.21	71.61	0.010597	3.24	21.21	27.72	1.03
Preadu	721.35	Tr 100	62.28	70.20	71.33	71.33	71.77	0.010402	3.44	24.45	28.77	1.04
Preadu	721.35	Tr 200	73.62	70.20	71.44	71.44	71.92	0.010204	3.63	27.66	29.77	1.04
Preadu	721.35	Tr 500	89.05	70.20	71.58	71.58	72.11	0.009980	3.85	31.85	31.03	1.05
Preadu	694.42	Tr 50	51.22	70.20	70.80		70.88	0.005999	1.71	40.75	71.24	0.71
Preadu	694.42	Tr 100	62.28	70.20	70.87		70.97	0.006029	1.86	45.92	71.87	0.72
Preadu	694.42	Tr 200	73.62	70.20	70.93		71.05	0.006175	2.00	50.57	72.43	0.74
Preadu	694.42	Tr 500	89.05	70.20	71.02		71.15	0.006269	2.16	56.66	73.16	0.76
Preadu	665.83	Tr 50	51.22	69.90	70.38	70.38	70.59	0.019558	2.68	27.18	65.61	1.23
Preadu	665.83	Tr 100	62.28	69.90	70.44	70.44	70.67	0.019070	2.85	31.02	66.48	1.24
Preadu	665.83	Tr 200	73.62	69.90	70.50	70.50	70.75	0.018375	3.00	34.91	67.35	1.24
Preadu	665.83	Tr 500	89.05	69.90	70.57	70.57	70.86	0.017805	3.18	39.76	68.15	1.24
Preadu	644.89	Tr 50	51.22	68.70	69.37	69.37	69.64	0.015676	2.99	25.14	49.04	1.17
Preadu	644.89	Tr 100	62.28	68.70	69.45	69.45	69.74	0.014886	3.15	29.31	51.36	1.16
Preadu	644.89	Tr 200	73.62	68.70	69.53	69.53	69.85	0.014565	3.32	33.19	53.44	1.17
Preadu	644.89	Tr 500	89.05	68.70	69.62	69.62	69.97	0.014110	3.51	38.36	56.09	1.17
Preadu	612.98	Tr 50	51.22	63.00	64.26	64.26	64.66	0.009732	2.84	18.94	25.88	0.96
Preadu	612.98	Tr 100	62.28	63.00	64.37	64.37	64.82	0.009324	3.02	22.06	27.44	0.96
Preadu	612.98	Tr 200	73.62	63.00	64.49	64.49	64.98	0.008730	3.15	25.45	29.05	0.95
Preadu	612.98	Tr 500	89.05	63.00	64.64	64.64	65.17	0.008226	3.31	29.81	30.67	0.94
Preadu	583.91	Tr 50	51.22	62.10	63.13		63.24	0.003353	1.85	38.33	43.05	0.58
Preadu	583.91	Tr 100	62.28	62.10	63.23		63.36	0.003619	2.04	42.52	44.04	0.61
Preadu	583.91	Tr 200	73.62	62.10	63.32		63.47	0.003866	2.22	46.48	44.92	0.64
Preadu	583.91	Tr 500	89.05	62.10	63.43		63.61	0.004156	2.43	51.47	45.91	0.67
Preadu	564.96	Tr 50	51.22	62.10	63.12		63.18	0.001863	1.37	54.53	64.27	0.43
Preadu	564.96	Tr 100	62.28	62.10	63.23		63.29	0.001936	1.49	61.28	65.91	0.45
Preadu	564.96	Tr 200	73.62	62.10	63.32		63.39	0.002012	1.60	67.66	67.55	0.46
Preadu	564.96	Tr 500	89.05	62.10	63.44		63.52	0.002112	1.75	75.84	70.10	0.48
Preadu	545.82	Tr 50	51.22	62.10	63.09		63.14	0.001693	1.28	57.72	67.64	0.41

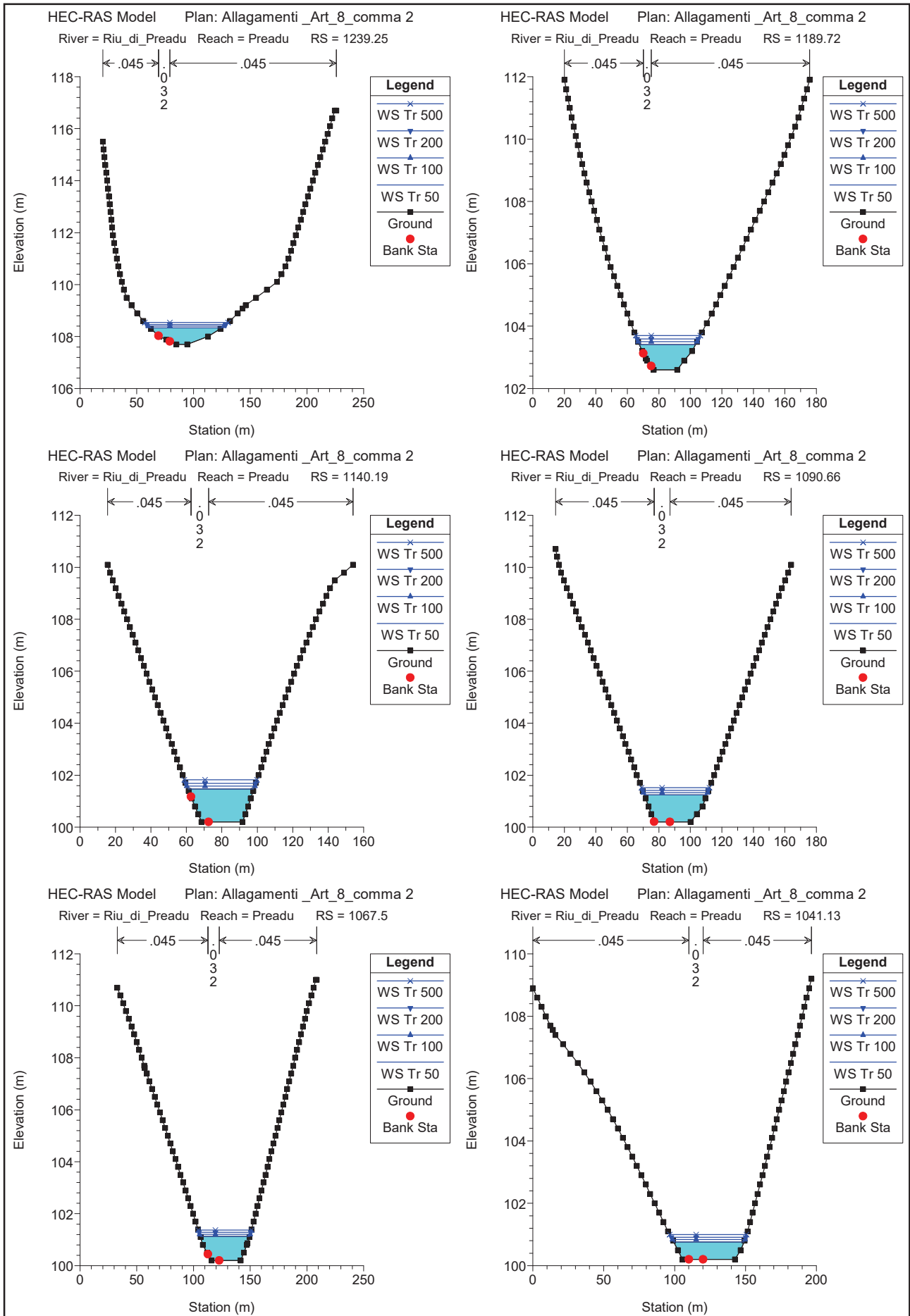
HEC-RAS Plan: Default Scenario River: Riu_di_Preadu Reach: Preadu (Continued)

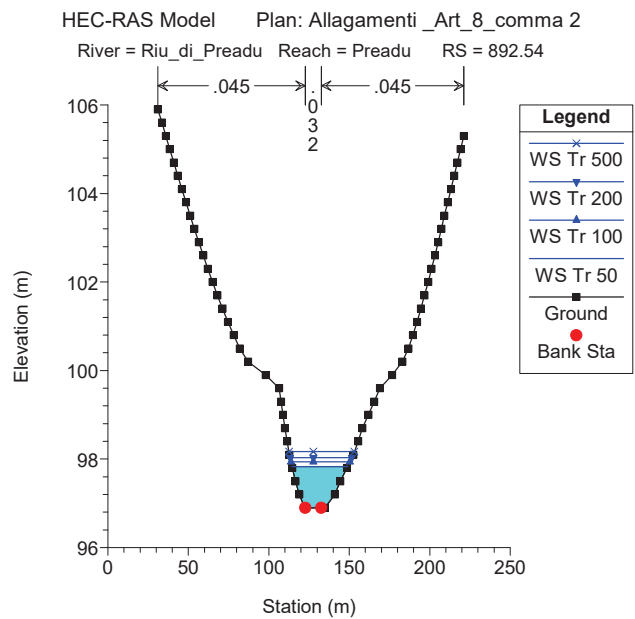
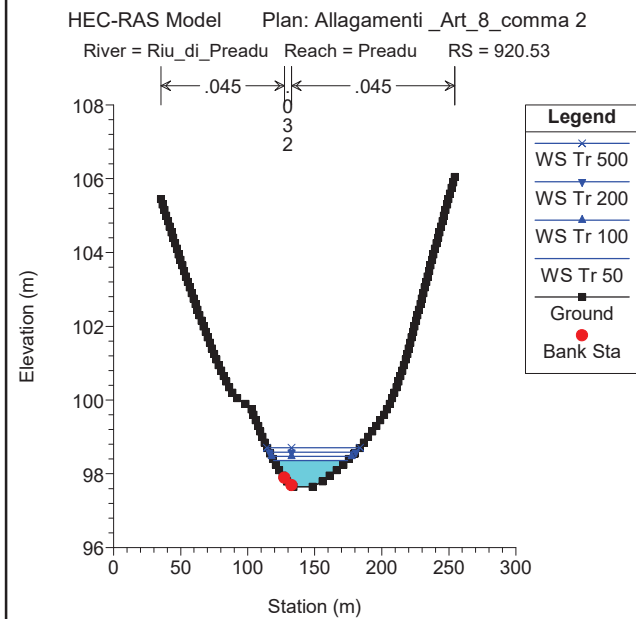
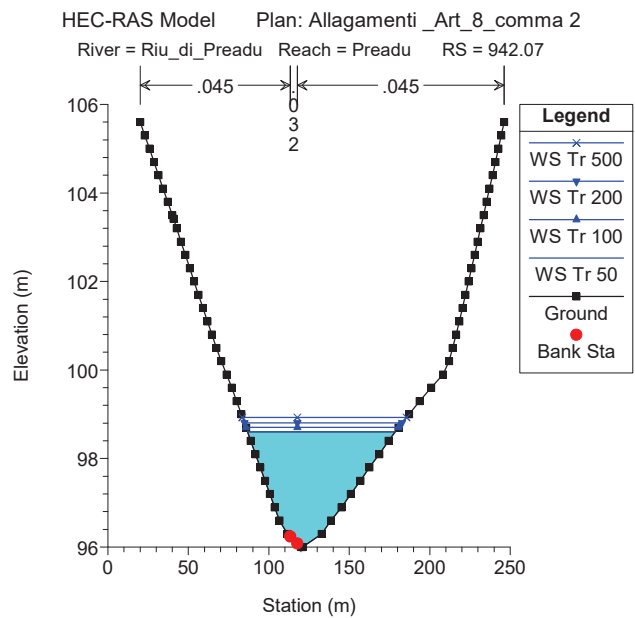
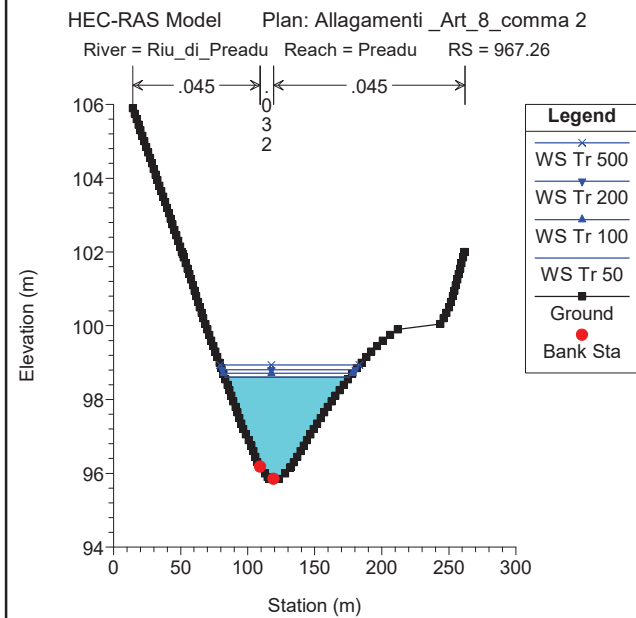
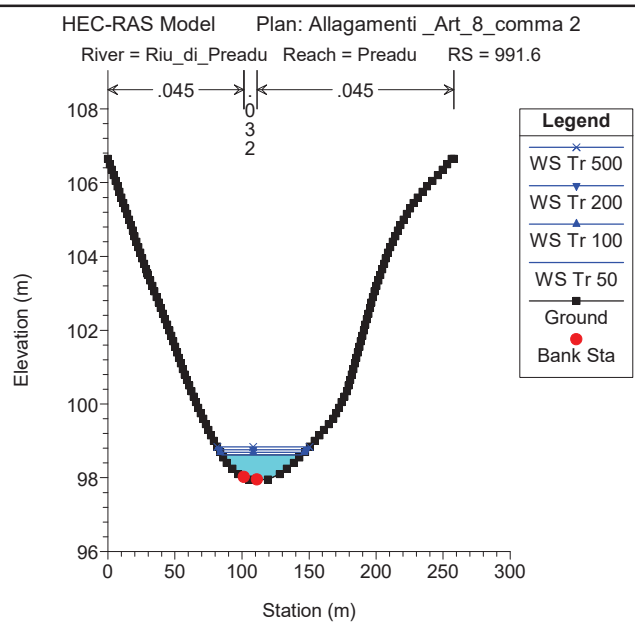
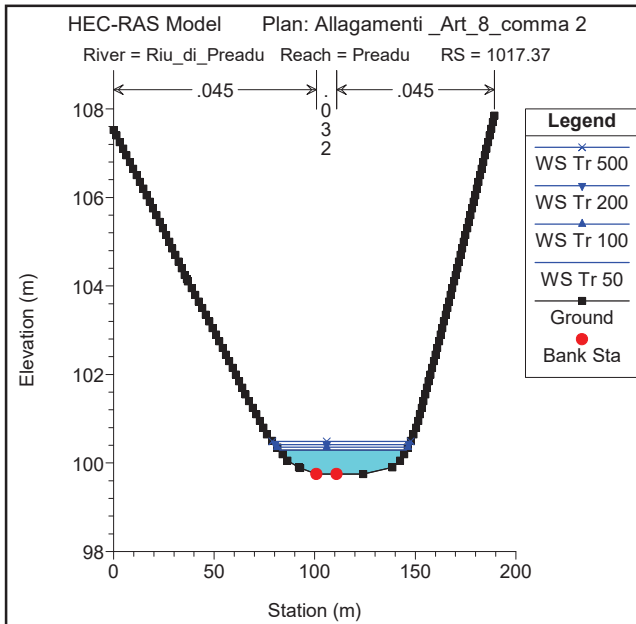
Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Preadu	545.82	Tr 100	62.28	62.10	63.20		63.25	0.001752	1.39	64.77	68.91	0.42
Preadu	545.82	Tr 200	73.62	62.10	63.29		63.35	0.001814	1.50	71.38	70.09	0.44
Preadu	545.82	Tr 500	89.05	62.10	63.41		63.48	0.001888	1.63	79.77	71.58	0.45
Preadu	496.29	Tr 50	51.22	61.88	63.06		63.08	0.000697	0.91	79.62	75.78	0.27
Preadu	496.29	Tr 100	62.28	61.88	63.16		63.19	0.000770	1.01	87.33	76.61	0.29
Preadu	496.29	Tr 200	73.62	61.88	63.25		63.29	0.000838	1.10	94.51	77.37	0.30
Preadu	496.29	Tr 500	89.05	61.88	63.37		63.41	0.000923	1.22	103.55	78.52	0.32
Preadu	469.26	Tr 50	51.22	61.92	63.04		63.06	0.000737	0.90	78.85	76.87	0.27
Preadu	469.26	Tr 100	62.28	61.92	63.14		63.17	0.000808	1.00	86.51	77.37	0.29
Preadu	469.26	Tr 200	73.62	61.92	63.23		63.26	0.000876	1.09	93.60	77.82	0.31
Preadu	469.26	Tr 500	89.05	61.92	63.34		63.39	0.000961	1.21	102.49	78.57	0.33
Preadu	446.76	Tr 50	51.22	61.80	63.03		63.05	0.000498	0.80	90.67	81.08	0.23
Preadu	446.76	Tr 100	62.28	61.80	63.13		63.15	0.000561	0.89	98.67	81.57	0.25
Preadu	446.76	Tr 200	73.62	61.80	63.22		63.25	0.000621	0.98	106.08	82.03	0.26
Preadu	446.76	Tr 500	89.05	61.80	63.33		63.37	0.000695	1.09	115.36	82.59	0.28
Preadu	423.99	Tr 50	51.22	61.80	63.02		63.04	0.000555	0.84	88.55	83.27	0.24
Preadu	423.99	Tr 100	62.28	61.80	63.11		63.14	0.000618	0.93	96.62	83.59	0.26
Preadu	423.99	Tr 200	73.62	61.80	63.20		63.23	0.000679	1.02	104.08	83.89	0.27
Preadu	423.99	Tr 500	89.05	61.80	63.31		63.35	0.000752	1.13	113.42	84.27	0.29
Preadu	397.23	Tr 50	51.22	61.89	63.00		63.02	0.000630	0.82	85.41	82.73	0.25
Preadu	397.23	Tr 100	62.28	61.89	63.10		63.12	0.000699	0.91	93.27	83.05	0.27
Preadu	397.23	Tr 200	73.62	61.89	63.18		63.21	0.000766	1.00	100.52	83.34	0.29
Preadu	397.23	Tr 500	89.05	61.89	63.29		63.33	0.000846	1.11	109.59	83.71	0.31
Preadu	374.73	Tr 50	51.22	61.80	62.98		63.00	0.000711	0.93	81.80	82.92	0.27
Preadu	374.73	Tr 100	62.28	61.80	63.07		63.10	0.000787	1.03	89.50	83.43	0.29
Preadu	374.73	Tr 200	73.62	61.80	63.16		63.19	0.000861	1.12	96.61	83.89	0.31
Preadu	374.73	Tr 500	89.05	61.80	63.27		63.31	0.000949	1.24	105.54	84.45	0.33
Preadu	347.7	Tr 50	51.22	62.10	62.95		62.98	0.001312	0.95	71.07	90.60	0.35
Preadu	347.7	Tr 100	62.28	62.10	63.04		63.07	0.001360	1.04	79.31	91.47	0.36
Preadu	347.7	Tr 200	73.62	62.10	63.12		63.16	0.001413	1.13	86.93	92.25	0.37
Preadu	347.7	Tr 500	89.05	62.10	63.23		63.27	0.001475	1.24	96.57	93.23	0.39
Preadu	331.13	Tr 50	51.22	61.50	62.64	62.64	62.91	0.011011	2.73	27.74	59.40	0.99
Preadu	331.13	Tr 100	62.28	61.50	62.75	62.75	63.00	0.009579	2.75	34.12	62.82	0.94
Preadu	331.13	Tr 200	73.62	61.50	62.81	62.81	63.09	0.009843	2.90	37.98	63.30	0.96
Preadu	331.13	Tr 500	89.05	61.50	62.89	62.89	63.20	0.009953	3.07	43.11	63.92	0.98
Preadu	311.84	Tr 50	51.22	60.30	61.59	61.59	62.11	0.010416	3.20	16.00	15.28	1.00
Preadu	311.84	Tr 100	62.28	60.30	61.74	61.74	62.33	0.010303	3.38	18.43	16.05	1.01
Preadu	311.84	Tr 200	73.62	60.30	61.91	61.91	62.53	0.009918	3.49	21.10	16.98	1.00
Preadu	311.84	Tr 500	89.05	60.30	62.28	62.16	62.78	0.006230	3.15	30.36	32.67	0.82
Preadu	298.17	Tr 50	51.22	60.00	61.27	61.27	61.87	0.010976	3.85	16.46	14.47	1.09
Preadu	298.17	Tr 100	62.28	60.00	61.45	61.45	62.12	0.010457	4.09	19.02	14.87	1.09
Preadu	298.17	Tr 200	73.62	60.00	61.61	61.61	62.35	0.010122	4.32	21.47	15.24	1.09
Preadu	298.17	Tr 500	89.05	60.00	61.82	61.82	62.65	0.009830	4.61	24.62	15.69	1.09
Preadu	272.98	Tr 50	51.22	58.50	60.01	60.01	60.63	0.010320	3.50	14.64	11.71	1.00
Preadu	272.98	Tr 100	62.28	58.50	60.19	60.19	60.89	0.010125	3.69	16.86	12.15	1.00
Preadu	272.98	Tr 200	73.62	58.50	60.37	60.37	61.13	0.009913	3.86	19.07	12.58	1.00
Preadu	272.98	Tr 500	89.05	58.50	60.59	60.59	61.44	0.009720	4.06	21.92	13.10	1.00
Preadu	248.64	Tr 50	51.22	56.10	57.64	57.64	58.27	0.010309	3.51	14.58	11.56	1.00
Preadu	248.64	Tr 100	62.28	56.10	57.83	57.83	58.53	0.010078	3.70	16.84	12.06	1.00
Preadu	248.64	Tr 200	73.62	56.10	58.01	58.01	58.78	0.009933	3.87	19.03	12.53	1.00
Preadu	248.64	Tr 500	89.05	56.10	58.24	58.24	59.08	0.009662	4.05	21.97	13.13	1.00
Preadu	225.49	Tr 50	51.22	52.95	54.36	54.36	54.97	0.010353	3.45	14.84	12.09	0.99
Preadu	225.49	Tr 100	62.28	52.95	54.54	54.54	55.22	0.010261	3.67	16.99	12.45	1.00
Preadu	225.49	Tr 200	73.62	52.95	54.71	54.71	55.46	0.010002	3.83	19.21	12.82	1.00
Preadu	225.49	Tr 500	89.05	52.95	54.94	54.94	55.76	0.009774	4.01	22.21	13.57	1.00
Preadu	199.11	Tr 50	51.22	49.50	50.98	50.98	51.47	0.009589	3.11	16.97	19.28	0.96
Preadu	199.11	Tr 100	62.28	49.50	51.18	51.18	51.65	0.007606	3.10	22.44	29.20	0.88
Preadu	199.11	Tr 200	73.62	49.50	51.32	51.32	51.81	0.007129	3.21	26.57	31.19	0.87
Preadu	199.11	Tr 500	89.05	49.50	51.46	51.46	51.51	0.000964	1.26	106.56	94.37	0.32
Preadu	175.87	Tr 50	51.22	47.55	49.30	49.05	49.31	0.000074	0.26	173.87	95.87	0.08
Preadu	175.87	Tr 100	62.28	47.55	49.30	49.05	49.31	0.000110	0.32	173.84	95.87	0.10
Preadu	175.87	Tr 200	73.62	47.55	49.30	49.05	49.31	0.000153	0.37	173.80	95.87	0.12
Preadu	175.87	Tr 500	89.05	47.55	49.30	49.05	49.31	0.000225	0.45	173.74	95.86	0.15

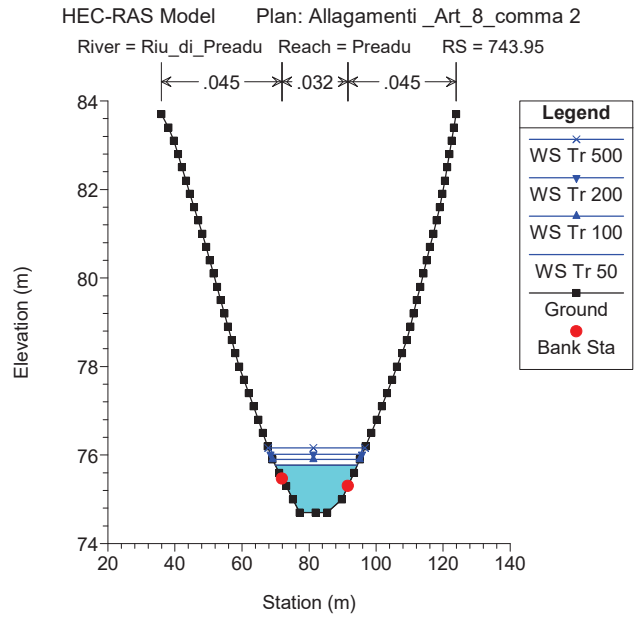
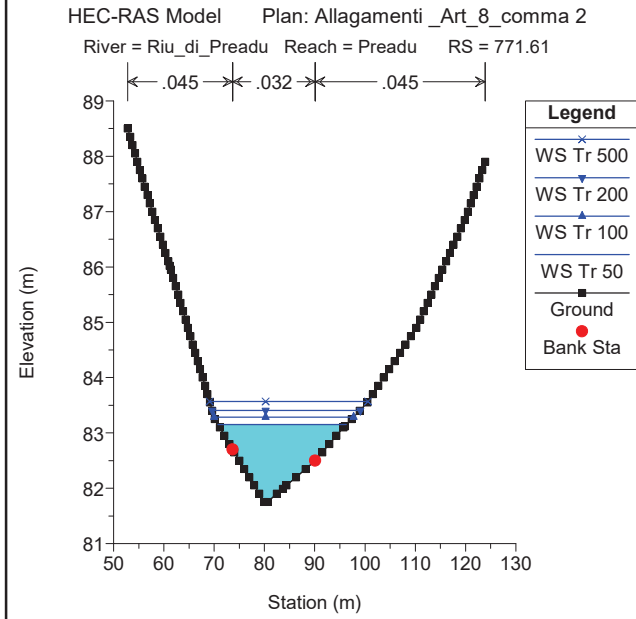
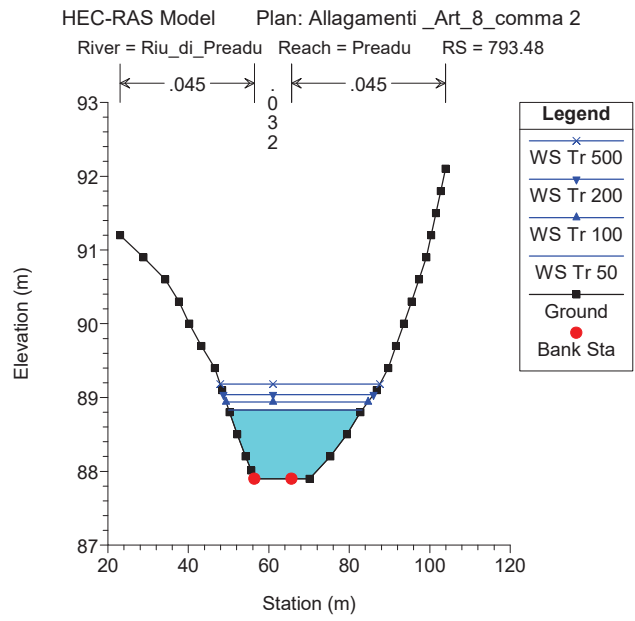
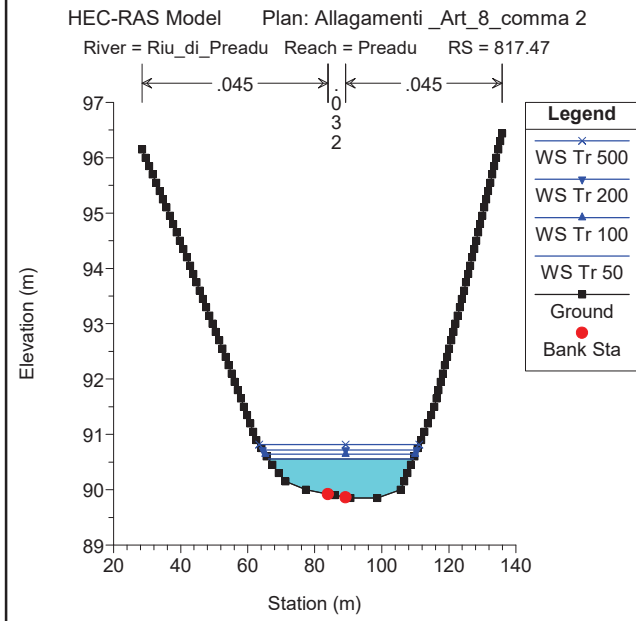
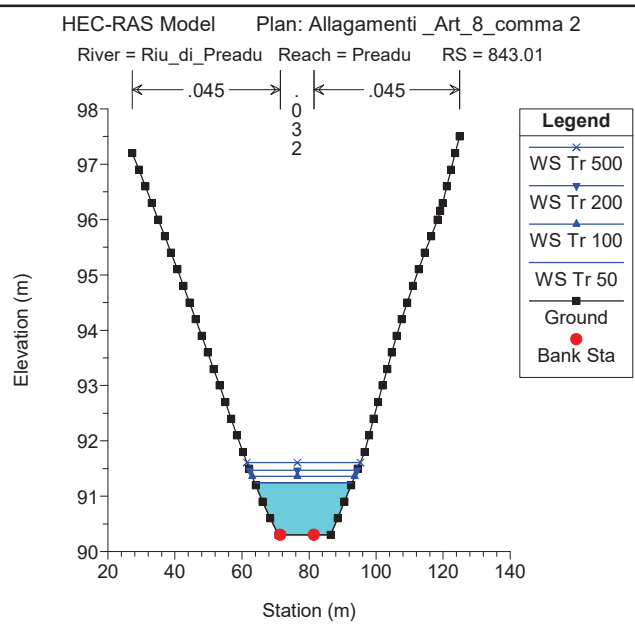
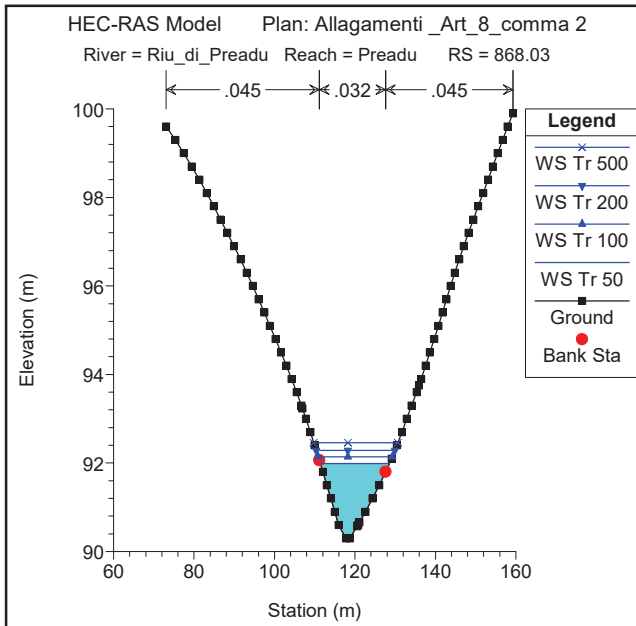
HEC-RAS Plan: Default Scenario River: Riu_di_Preadu Reach: Preadu (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Preadu	149.58	Tr 50	51.22	47.80	49.30	49.30	49.30	0.000030	0.20	274.46	166.47	0.06
Preadu	149.58	Tr 100	62.28	47.80	49.30	49.30	49.30	0.000045	0.25	274.46	166.47	0.07
Preadu	149.58	Tr 200	73.62	47.80	49.30	49.30	49.31	0.000062	0.29	274.46	166.47	0.08
Preadu	149.58	Tr 500	89.05	47.80	49.30	49.30	49.31	0.000091	0.36	274.46	166.47	0.10
Preadu	124.42	Tr 50	51.22	47.25	47.85	47.85	47.86	0.000123	0.16	171.65	131.83	0.09
Preadu	124.42	Tr 100	62.28	47.25	47.85	47.85	47.86	0.000181	0.19	171.65	131.83	0.11
Preadu	124.42	Tr 200	73.62	47.25	47.85	47.85	47.86	0.000253	0.22	171.65	131.83	0.13
Preadu	124.42	Tr 500	89.05	47.25	47.85	47.85	47.87	0.000371	0.27	171.65	131.83	0.16
Preadu	100.05	Tr 50	51.22	46.65	46.52		46.54	0.001120		91.65	140.54	0.00
Preadu	100.05	Tr 100	62.28	46.65	46.64		46.65	0.001025		107.74	146.91	0.00
Preadu	100.05	Tr 200	73.62	46.65	46.75		46.76	0.000949	0.19	125.16	161.45	0.21
Preadu	100.05	Tr 500	89.05	46.65	46.88		46.90	0.000854	0.31	147.83	171.16	0.22
Preadu	78.82	Tr 50	51.22	46.65	46.51		46.52	0.000596		113.10	148.09	0.00
Preadu	78.82	Tr 100	62.28	46.65	46.62		46.64	0.000575		130.05	152.45	0.00
Preadu	78.82	Tr 200	73.62	46.65	46.74		46.75	0.000556	0.12	147.51	162.25	0.15
Preadu	78.82	Tr 500	89.05	46.65	46.87		46.89	0.000551	0.21	170.66	175.10	0.17
Preadu	64.43	Tr 50	51.22	46.50	46.51		46.51	0.000419	0.02	126.78	154.91	0.09
Preadu	64.43	Tr 100	62.28	46.50	46.62		46.63	0.000416	0.14	144.54	159.51	0.14
Preadu	64.43	Tr 200	73.62	46.50	46.73		46.74	0.000413	0.17	163.11	171.85	0.14
Preadu	64.43	Tr 500	89.05	46.50	46.87		46.88	0.000401	0.25	186.96	176.74	0.16
Preadu	50.52	Tr 50	51.22	46.00	46.50		46.51	0.000291	0.30	143.35	165.87	0.15
Preadu	50.52	Tr 100	62.28	46.00	46.62		46.62	0.000297	0.35	162.31	169.86	0.15
Preadu	50.52	Tr 200	73.62	46.00	46.73		46.74	0.000300	0.40	181.48	175.25	0.16
Preadu	50.52	Tr 500	89.05	46.00	46.86		46.87	0.000299	0.46	205.80	180.17	0.17
Preadu	40.7	Tr 50	51.22	44.70	46.50		46.51	0.000174	0.56	165.96	180.06	0.14
Preadu	40.7	Tr 100	62.28	44.70	46.61		46.62	0.000187	0.61	186.49	185.98	0.15
Preadu	40.7	Tr 200	73.62	44.70	46.72		46.73	0.000193	0.64	207.42	190.33	0.15
Preadu	40.7	Tr 500	89.05	44.70	46.86		46.87	0.000196	0.68	233.58	192.19	0.16
Preadu	28.3	Tr 50	51.22	45.36	46.50		46.50	0.000131	0.36	198.54	197.17	0.11
Preadu	28.3	Tr 100	62.28	45.36	46.61		46.62	0.000138	0.40	221.10	202.92	0.12
Preadu	28.3	Tr 200	73.62	45.36	46.72		46.73	0.000145	0.43	243.94	206.99	0.12
Preadu	28.3	Tr 500	89.05	45.36	46.86		46.87	0.000150	0.47	272.52	210.31	0.13
Preadu	9.4	Tr 50	51.22	44.70	46.50		46.50	0.000019	0.20	377.41	256.21	0.05
Preadu	9.4	Tr 100	62.28	44.70	46.61		46.62	0.000022	0.23	406.45	256.92	0.05
Preadu	9.4	Tr 200	73.62	44.70	46.73		46.73	0.000025	0.25	435.12	259.31	0.06
Preadu	9.4	Tr 500	89.05	44.70	46.86		46.86	0.000029	0.28	470.71	260.30	0.06

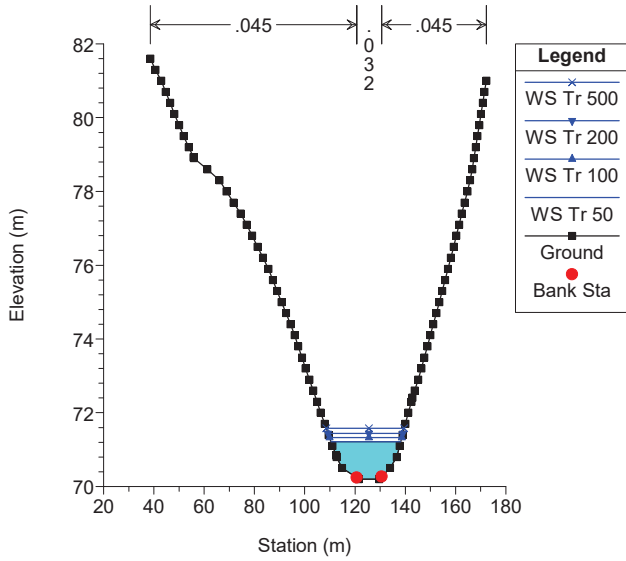




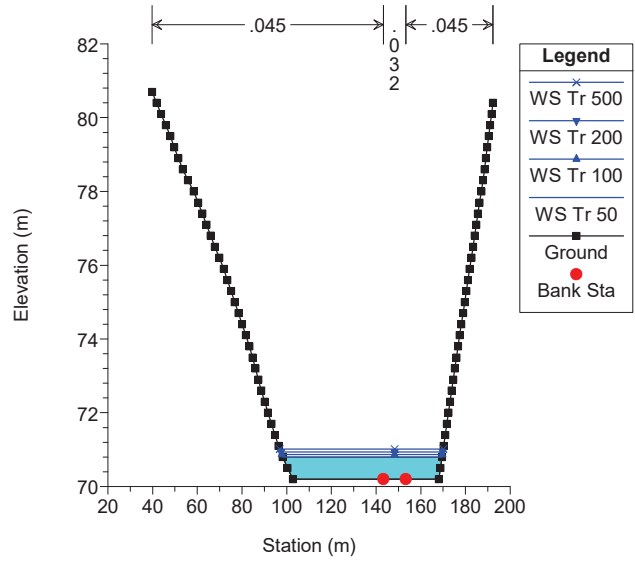




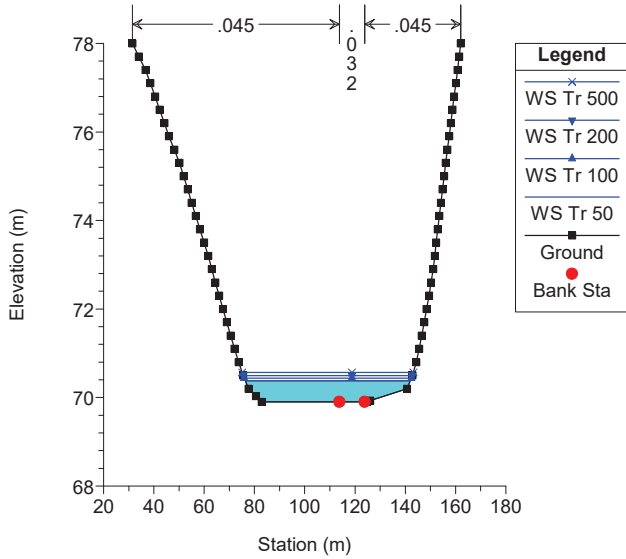
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Riu_di_Preadu Reach = Preadu RS = 721.35



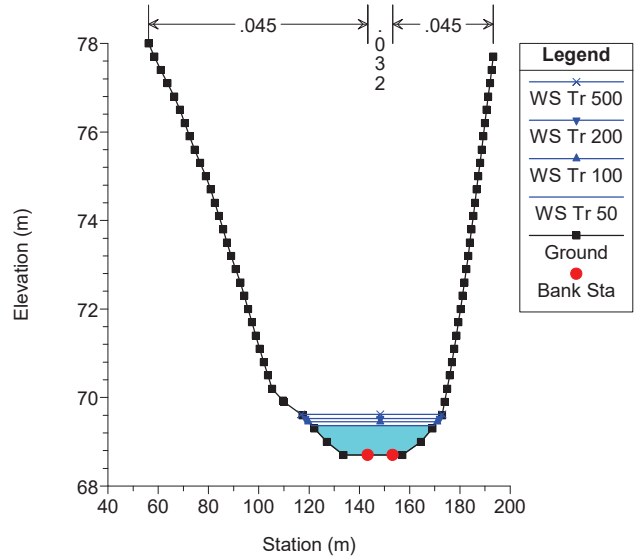
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Riu_di_Preadu Reach = Preadu RS = 694.42



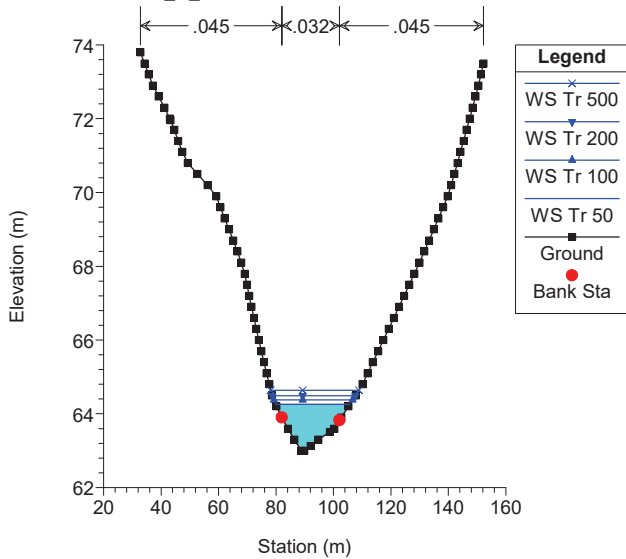
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Riu_di_Preadu Reach = Preadu RS = 665.83



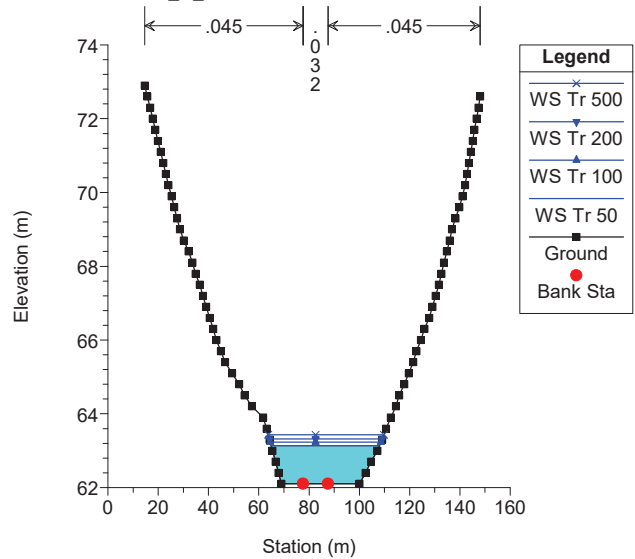
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Riu_di_Preadu Reach = Preadu RS = 644.89

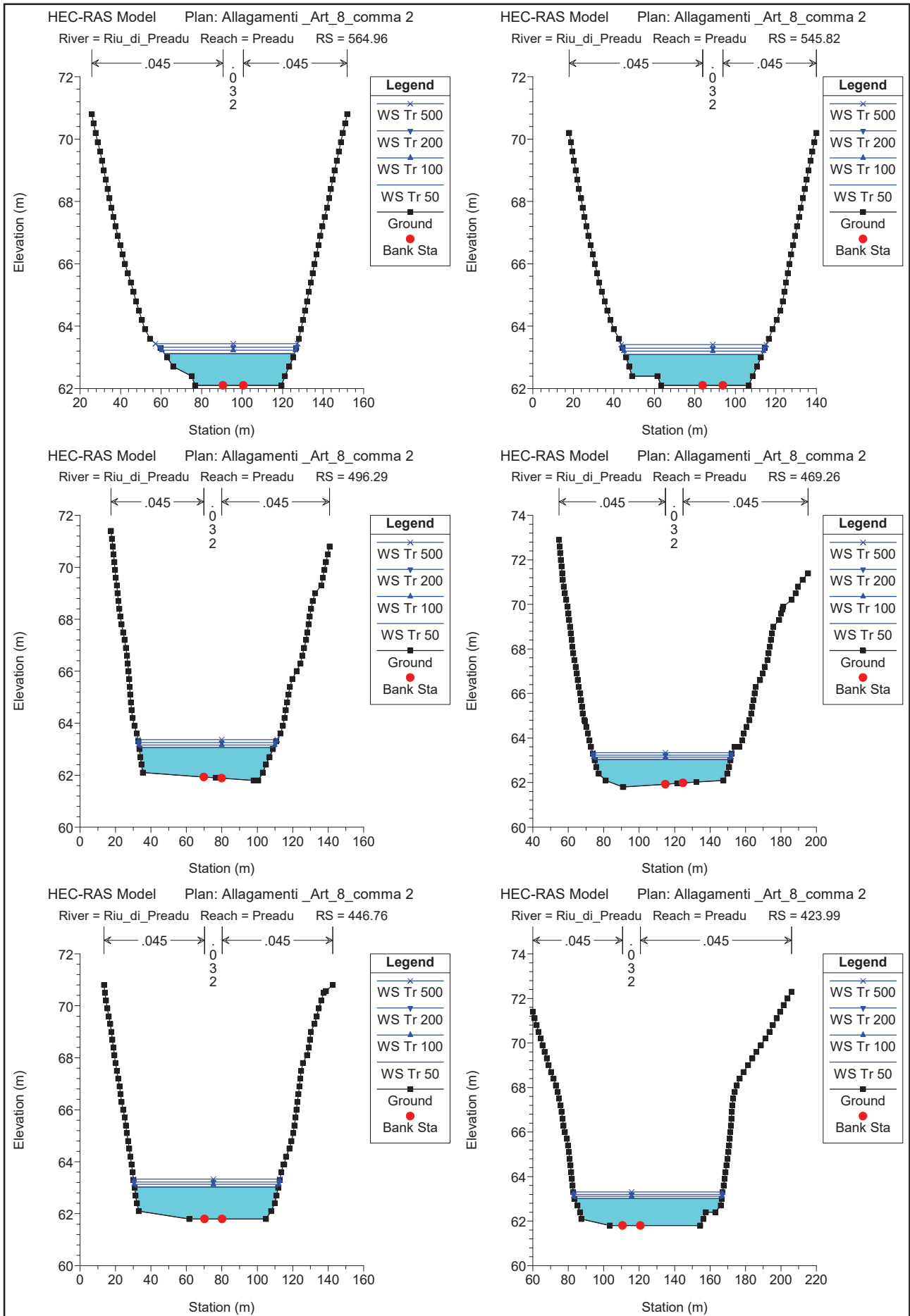


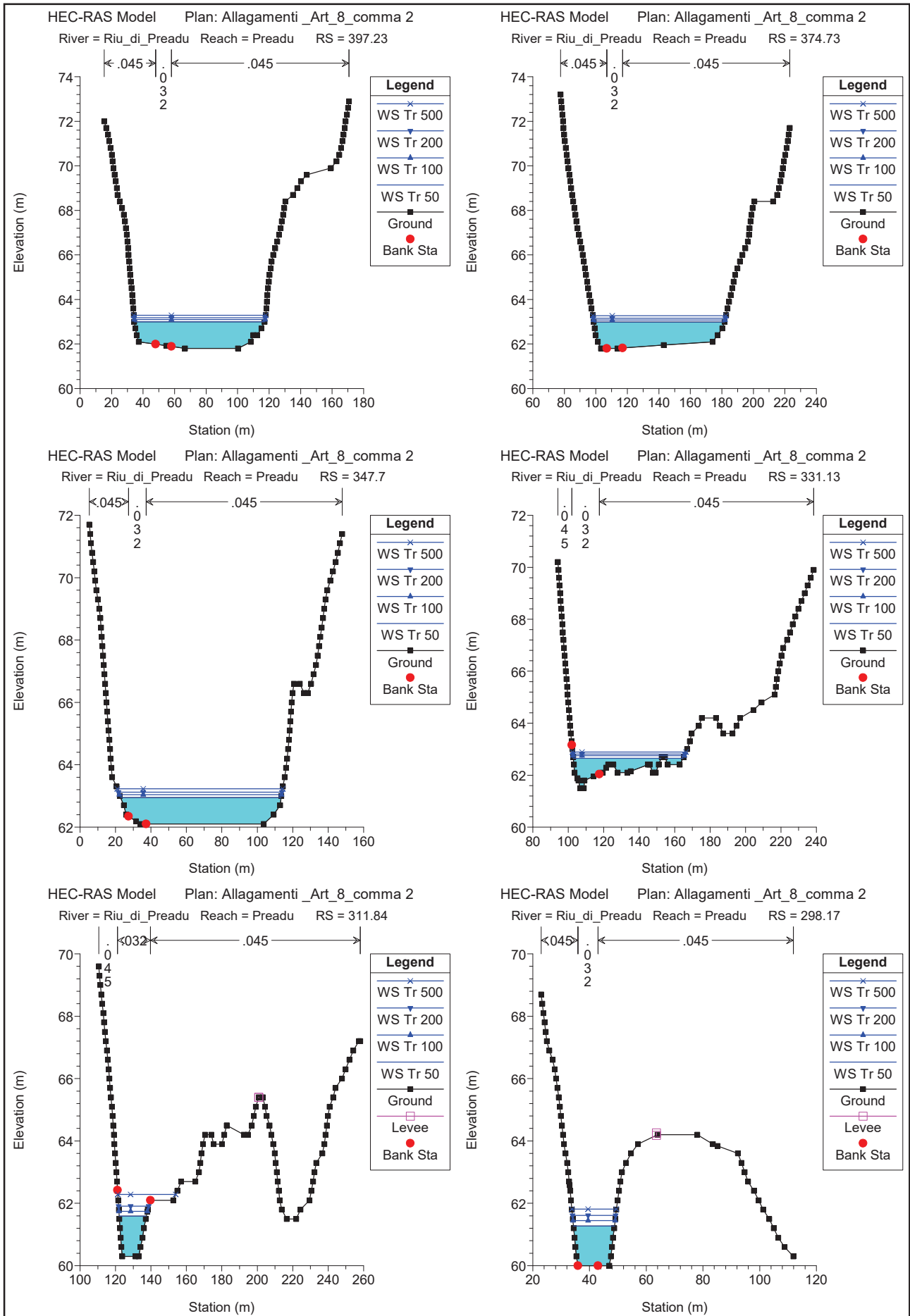
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Riu_di_Preadu Reach = Preadu RS = 612.98



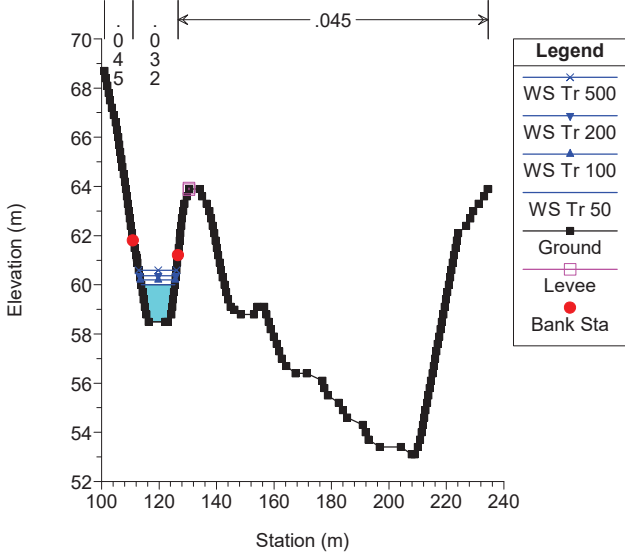
HEC-RAS Model Plan: Allagamenti_Art_8_comma_2
 River = Riu_di_Preadu Reach = Preadu RS = 583.91



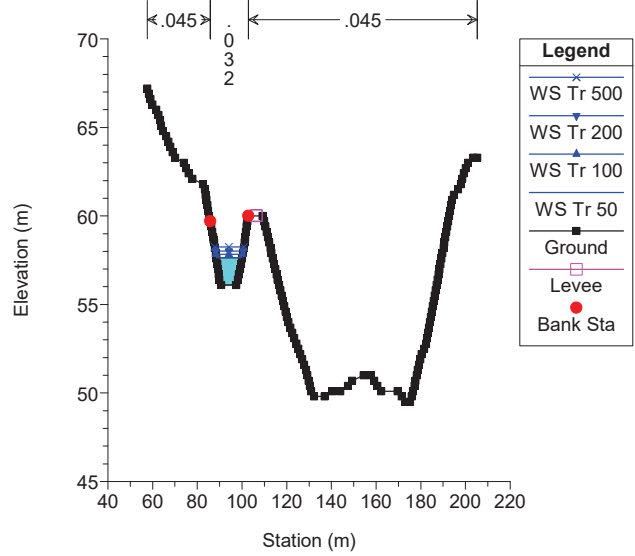




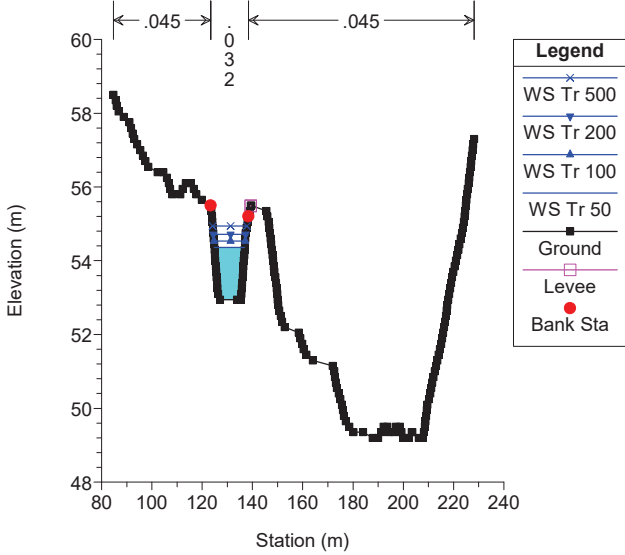
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 272.98



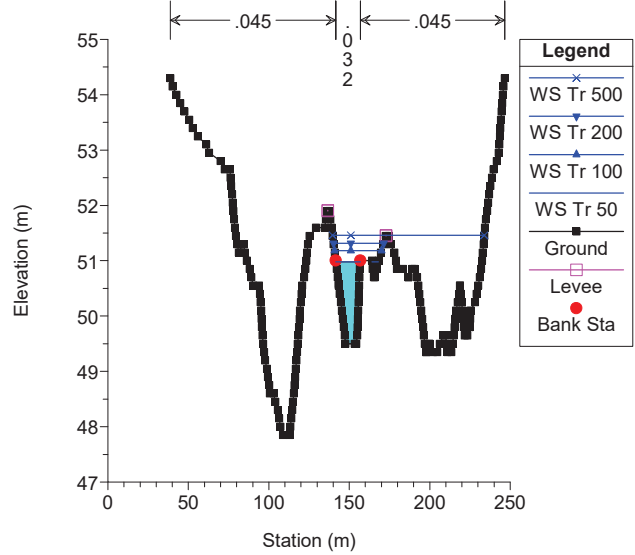
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 248.64



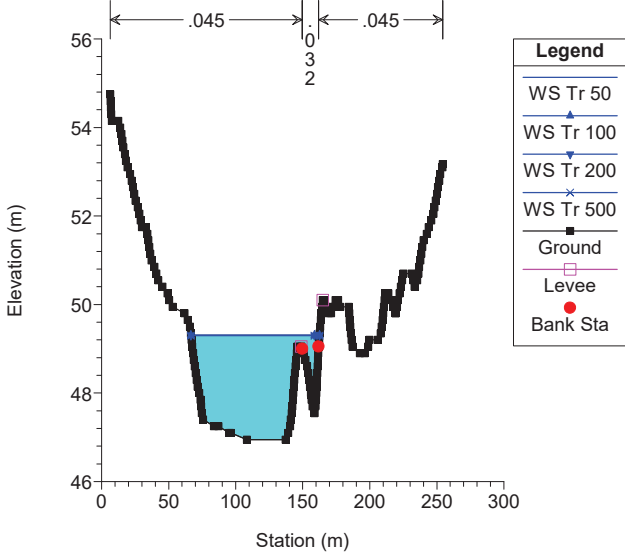
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 225.49



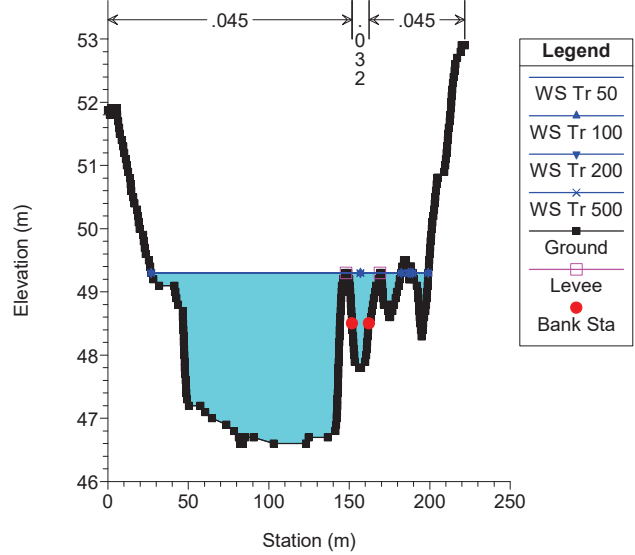
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 199.11

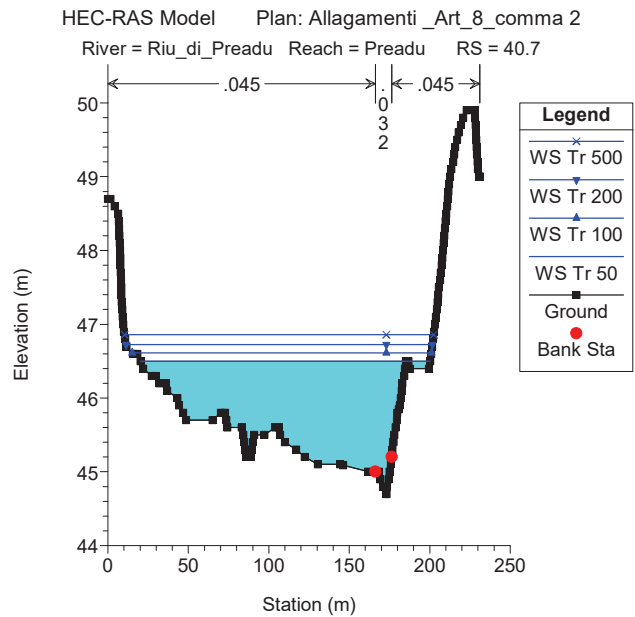
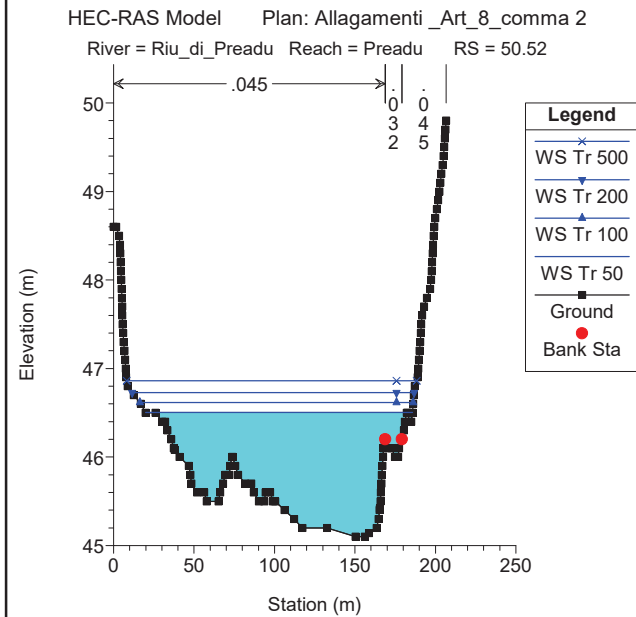
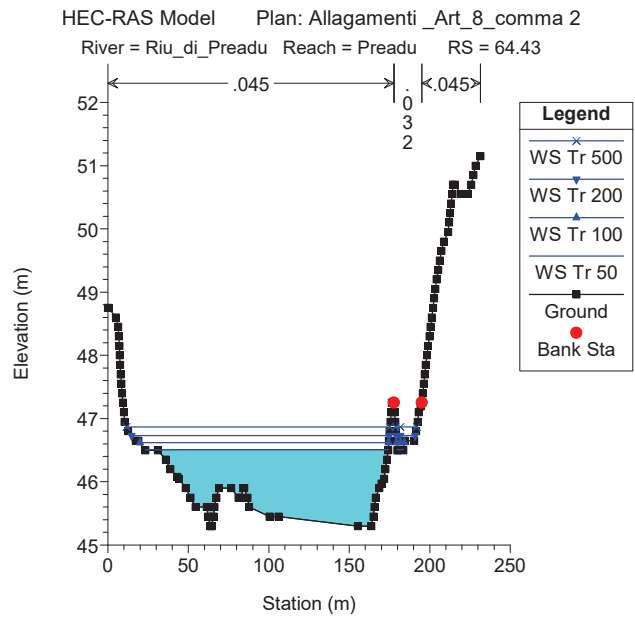
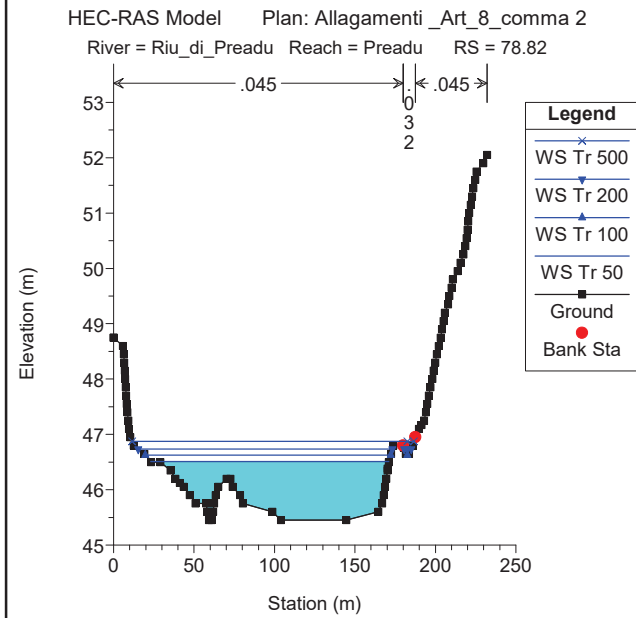
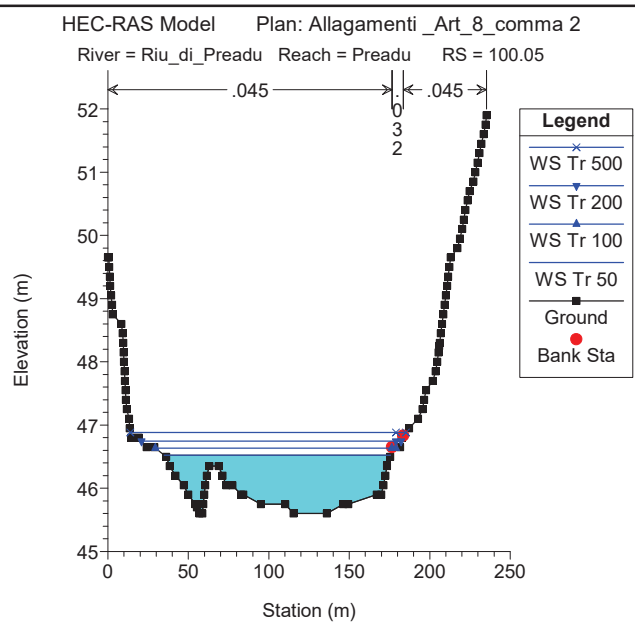
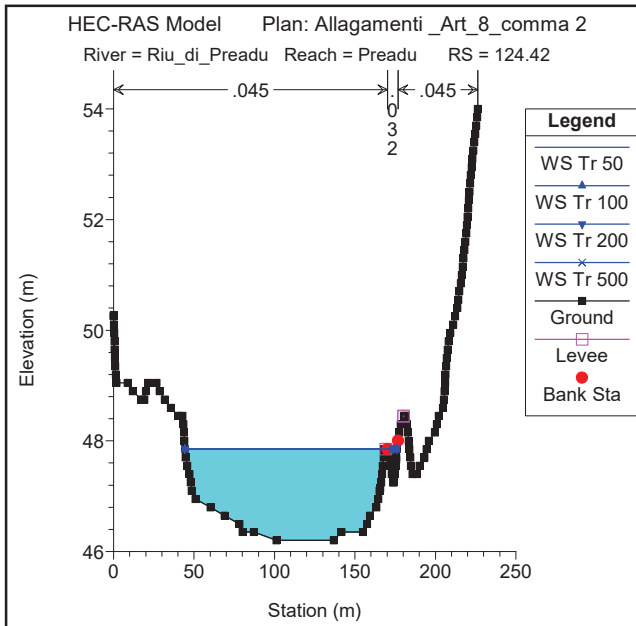


HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 175.87

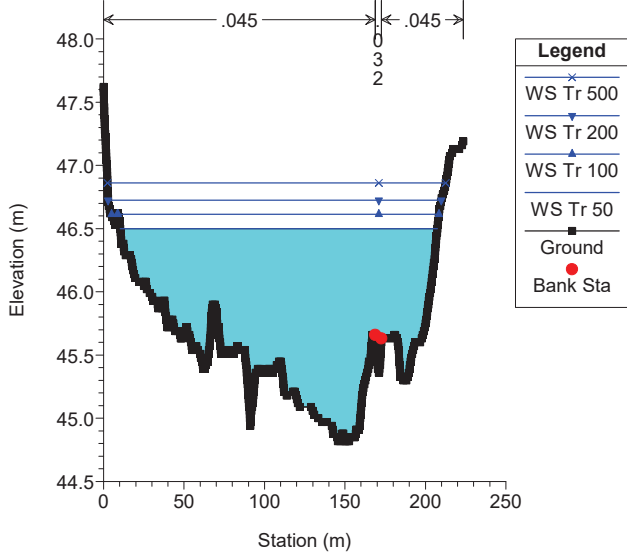


HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 149.58

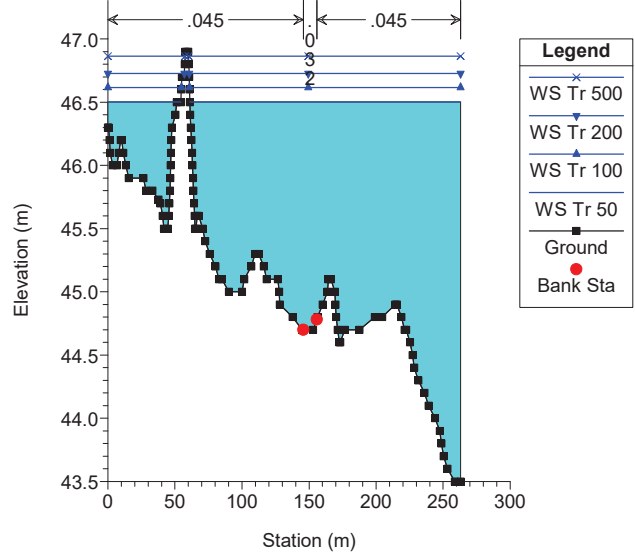




HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 28.3



HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Riu_di_Preadu Reach = Preadu RS = 9.4



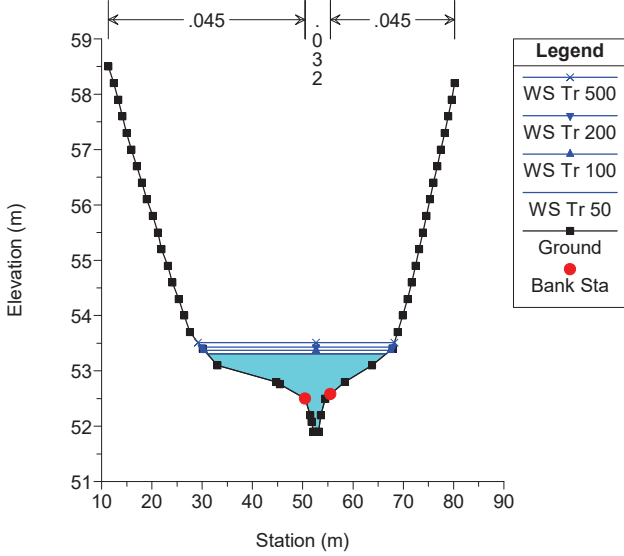
HEC-RAS Plan: Default Scenario River: Asta_4282 Reach: Asta_4282

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta_4282	794.92	Tr 50	27.19	51.90	53.31	53.31	53.53	0.007306	2.71	17.57	35.56	0.84
Asta_4282	794.92	Tr 100	32.80	51.90	53.37	53.37	53.62	0.007729	2.90	19.93	37.07	0.87
Asta_4282	794.92	Tr 200	38.58	51.90	53.43	53.43	53.70	0.008116	3.08	22.15	38.08	0.90
Asta_4282	794.92	Tr 500	46.56	51.90	53.51	53.51	53.81	0.008359	3.26	25.18	39.04	0.92
Asta_4282	745.3	Tr 50	27.19	50.10	51.49	51.49	51.80	0.006017	2.79	14.70	31.61	0.79
Asta_4282	745.3	Tr 100	32.80	50.10	51.62	51.62	51.91	0.005322	2.80	19.12	36.03	0.75
Asta_4282	745.3	Tr 200	38.58	50.10	51.69	51.69	52.00	0.005593	2.97	21.74	36.71	0.78
Asta_4282	745.3	Tr 500	46.56	50.10	51.79	51.79	52.12	0.005671	3.12	25.46	37.65	0.79
Asta_4282	695.68	Tr 50	27.19	48.90	50.27	50.27	50.52	0.007502	2.29	14.58	37.74	0.82
Asta_4282	695.68	Tr 100	32.80	48.90	50.35	50.35	50.61	0.007017	2.37	17.94	40.71	0.81
Asta_4282	695.68	Tr 200	38.58	48.90	50.44	50.44	50.69	0.006297	2.40	21.74	43.26	0.78
Asta_4282	695.68	Tr 500	46.56	48.90	50.50	50.50	50.80	0.007151	2.65	24.15	44.47	0.83
Asta_4282	646.06	Tr 50	27.19	48.30	48.86	48.86	49.06	0.013718	2.48	15.39	35.88	1.06
Asta_4282	646.06	Tr 100	32.80	48.30	48.91	48.91	49.15	0.014118	2.67	17.25	36.39	1.09
Asta_4282	646.06	Tr 200	38.58	48.30	48.97	48.97	49.23	0.013940	2.81	19.31	37.19	1.10
Asta_4282	646.06	Tr 500	46.56	48.30	49.04	49.04	49.33	0.013695	2.99	22.04	38.22	1.11
Asta_4282	596.44	Tr 50	27.19	46.91	47.41	47.41	47.61	0.022525	2.41	14.38	42.16	1.27
Asta_4282	596.44	Tr 100	32.80	46.91	47.48	47.48	47.68	0.018425	2.44	17.33	43.03	1.18
Asta_4282	596.44	Tr 200	38.58	46.91	47.52	47.52	47.75	0.017826	2.58	19.45	43.64	1.18
Asta_4282	596.44	Tr 500	46.56	46.91	47.59	47.59	47.84	0.017244	2.75	22.20	44.42	1.18
Asta_4282	546.82	Tr 50	27.19	45.60	46.12	46.12	46.30	0.015354	2.40	16.36	44.10	1.10
Asta_4282	546.82	Tr 100	32.80	45.60	46.17	46.17	46.37	0.015291	2.56	18.54	44.83	1.11
Asta_4282	546.82	Tr 200	38.58	45.60	46.22	46.22	46.44	0.015115	2.69	20.72	45.52	1.12
Asta_4282	546.82	Tr 500	46.56	45.60	46.28	46.28	46.53	0.014995	2.86	23.50	46.34	1.14
Asta_4282	497.2	Tr 50	27.19	44.40	44.88	44.88	45.06	0.015446	2.37	16.04	42.83	1.10
Asta_4282	497.2	Tr 100	32.80	44.40	44.93	44.93	45.13	0.015339	2.52	18.18	43.40	1.11
Asta_4282	497.2	Tr 200	38.58	44.40	44.97	44.97	45.20	0.015262	2.66	20.25	43.94	1.12
Asta_4282	497.2	Tr 500	46.56	44.40	45.04	45.04	45.29	0.014938	2.82	23.04	44.55	1.13
Asta_4282	447.58	Tr 50	27.19	42.90	43.30	43.30	43.49	0.026581	2.28	14.53	41.21	1.32
Asta_4282	447.58	Tr 100	32.80	42.90	43.43	43.35	43.57	0.014366	2.01	19.64	41.76	1.01
Asta_4282	447.58	Tr 200	38.58	42.90	43.40	43.40	43.62	0.023685	2.50	18.62	41.65	1.29
Asta_4282	447.58	Tr 500	46.56	42.90	43.46	43.46	43.71	0.022782	2.64	21.14	41.91	1.29
Asta_4282	397.96	Tr 50	27.19	40.80	41.57	41.57	41.76	0.009159	2.35	17.77	43.61	0.90
Asta_4282	397.96	Tr 100	32.80	40.80	41.37	41.37	42.24	0.057480	4.71	9.54	29.85	2.13
Asta_4282	397.96	Tr 200	38.58	40.80	41.68	41.68	41.91	0.009536	2.63	22.40	44.24	0.94
Asta_4282	397.96	Tr 500	46.56	40.80	41.60	41.38	42.09	0.022859	3.80	18.82	43.75	1.43
Asta_4282	348.34	Tr 50	27.19	39.90	40.42	40.42	40.60	0.013472	2.35	16.93	52.43	1.04
Asta_4282	348.34	Tr 100	32.80	39.90	40.47	40.47	40.66	0.013389	2.49	19.74	56.73	1.05
Asta_4282	348.34	Tr 200	38.58	39.90	40.56	40.56	40.74	0.011060	2.48	24.90	62.52	0.98
Asta_4282	348.34	Tr 500	46.56	39.90	40.48	40.48	40.85	0.025695	3.48	20.13	57.30	1.46
Asta_4282	298.72	Tr 50	27.19	38.70	39.03	39.03	39.17	0.023470	2.27	16.72	55.93	1.27
Asta_4282	298.72	Tr 100	32.80	38.70	39.07	39.07	39.23	0.022668	2.41	18.98	56.40	1.27
Asta_4282	298.72	Tr 200	38.58	38.70	39.10	39.10	39.29	0.022204	2.54	21.12	56.84	1.28
Asta_4282	298.72	Tr 500	46.56	38.70	39.15	39.15	39.36	0.021601	2.71	23.95	57.41	1.28
Asta_4282	249.1	Tr 50	27.19	37.05	37.78	37.78	37.90	0.010560	2.07	22.32	81.07	0.92
Asta_4282	249.1	Tr 100	32.80	37.05	37.81	37.81	37.95	0.010622	2.18	25.39	81.82	0.93
Asta_4282	249.1	Tr 200	38.58	37.05	37.84	37.84	38.00	0.011164	2.31	27.91	82.67	0.96
Asta_4282	249.1	Tr 500	46.56	37.05	37.89	37.89	38.06	0.011583	2.46	31.32	83.81	0.99
Asta_4282	226.64	Tr 50	27.19	36.75	37.25	37.25	37.36	0.018695	2.41	20.75	81.79	1.18
Asta_4282	226.64	Tr 100	32.80	36.75	37.28	37.28	37.40	0.018617	2.53	23.38	82.05	1.19
Asta_4282	226.64	Tr 200	38.58	36.75	37.31	37.31	37.45	0.019006	2.66	25.71	82.29	1.22
Asta_4282	226.64	Tr 500	46.56	36.75	37.32	37.32	37.51	0.024059	3.05	26.86	82.40	1.37
Asta_4282	209.93	Tr 50	27.19	36.15	36.56	36.56	36.67	0.025259	2.15	19.62	88.56	1.28
Asta_4282	209.93	Tr 100	32.80	36.15	36.59	36.59	36.72	0.025488	2.27	22.16	90.85	1.30
Asta_4282	209.93	Tr 200	38.58	36.15	36.62	36.62	36.76	0.024680	2.37	24.93	92.39	1.30
Asta_4282	209.93	Tr 500	46.56	36.15	36.66	36.66	36.81	0.023268	2.47	28.59	92.93	1.28
Asta_4282	187.48	Tr 50	27.19	35.85	35.97	35.93	36.06	0.020008	0.80	20.88	81.63	0.92
Asta_4282	187.48	Tr 100	32.80	35.85	36.00	35.97	36.10	0.019687	0.91	23.67	83.80	0.94
Asta_4282	187.48	Tr 200	38.58	35.85	36.03	36.00	36.14	0.020596	1.09	25.81	84.64	1.00
Asta_4282	187.48	Tr 500	46.56	35.85	36.09	36.04	36.20	0.017152	1.29	30.68	86.54	0.98
Asta_4282	149.86	Tr 50	27.19	34.80	35.16	35.16	35.25	0.023048	2.23	22.63	116.84	1.25
Asta_4282	149.86	Tr 100	32.80	34.80	35.18	35.18	35.28	0.023933	2.38	25.29	119.02	1.29
Asta_4282	149.86	Tr 200	38.58	34.80	35.21	35.21	35.32	0.023258	2.46	28.42	121.53	1.28
Asta_4282	149.86	Tr 500	46.56	34.80	35.22	35.22	35.36	0.029901	2.84	29.62	122.48	1.46

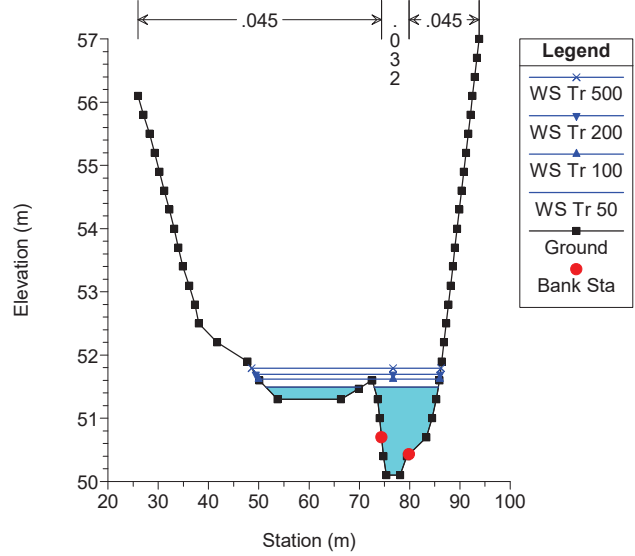
HEC-RAS Plan: Default Scenario River: Asta_4282 Reach: Asta_4282 (Continued)

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Asta_4282	100.24	Tr 50	27.19	33.78	34.33		34.33	0.000304	0.33	104.49	199.26	0.15
Asta_4282	100.24	Tr 100	32.80	33.78	34.46		34.46	0.000218	0.33	130.74	204.69	0.14
Asta_4282	100.24	Tr 200	38.58	33.78	34.58		34.59	0.000171	0.33	156.13	207.64	0.12
Asta_4282	100.24	Tr 500	46.56	33.78	34.73		34.73	0.000142	0.34	185.90	210.52	0.12
Asta_4282	50.62	Tr 50	27.19	33.37	34.33		34.33	0.000008	0.09	348.85	267.38	0.03
Asta_4282	50.62	Tr 100	32.80	33.37	34.46		34.46	0.000009	0.10	383.59	268.25	0.03
Asta_4282	50.62	Tr 200	38.58	33.37	34.58		34.58	0.000009	0.11	416.60	269.40	0.03
Asta_4282	50.62	Tr 500	46.56	33.37	34.73		34.73	0.000010	0.12	455.08	270.87	0.03
Asta_4282	1	Tr 50	27.19	31.40	34.33		34.33	0.000003	0.09	466.97	244.15	0.02
Asta_4282	1	Tr 100	32.80	31.40	34.46		34.46	0.000003	0.10	498.93	250.01	0.02
Asta_4282	1	Tr 200	38.58	31.40	34.58		34.58	0.000004	0.12	530.16	258.50	0.02
Asta_4282	1	Tr 500	46.56	31.40	34.73		34.73	0.000004	0.13	567.34	262.48	0.02

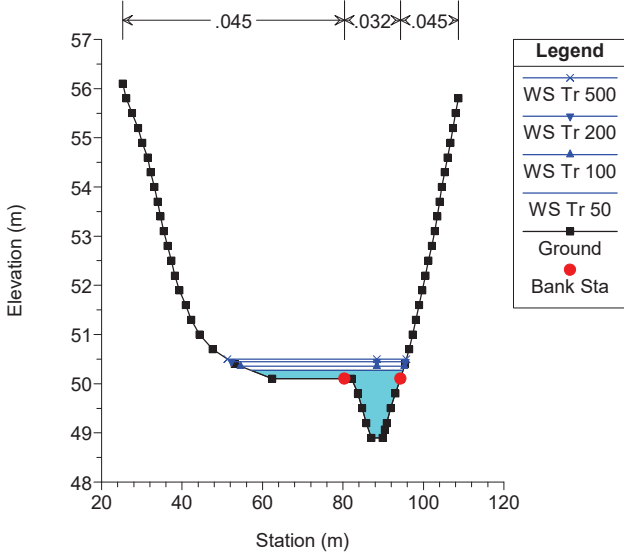
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 794.92



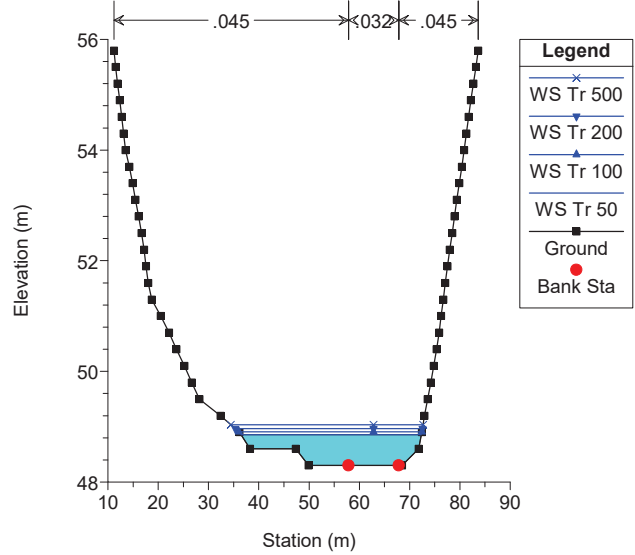
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 745.3



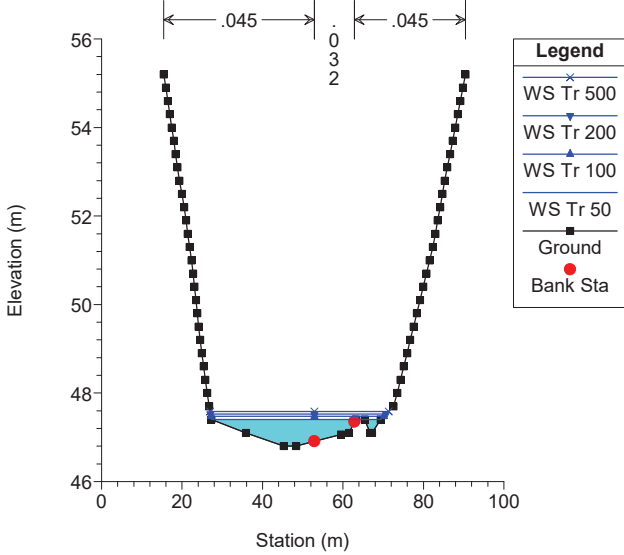
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 695.68



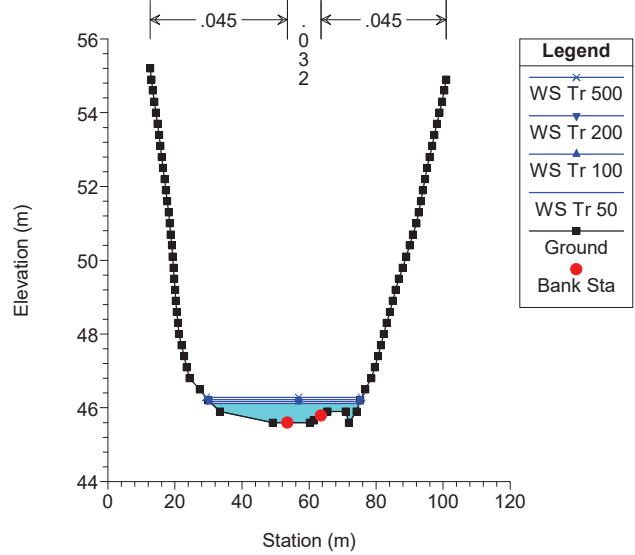
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 646.06



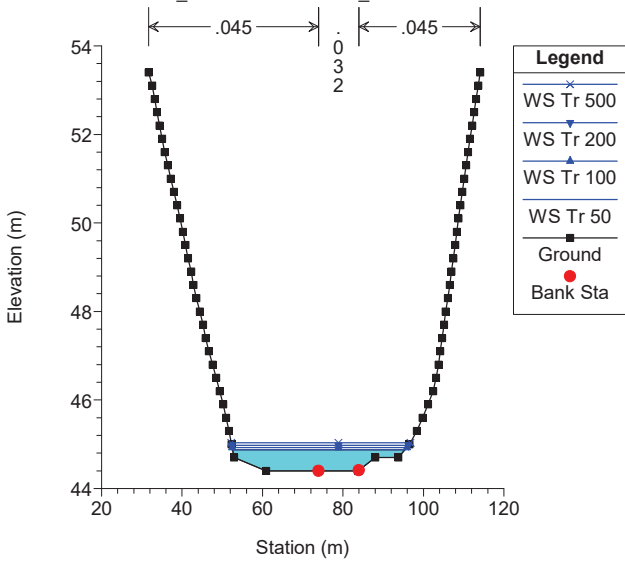
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 596.44



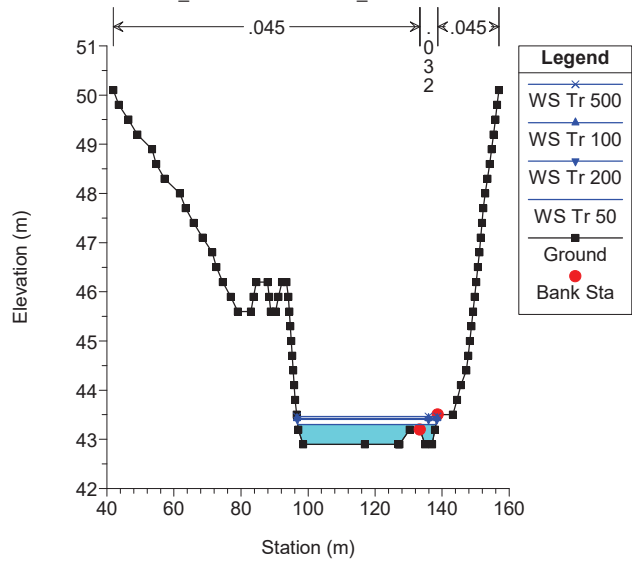
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 546.82



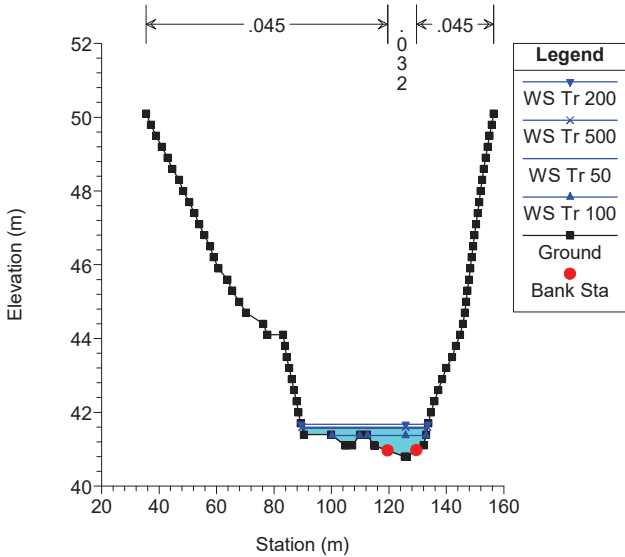
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 497.2



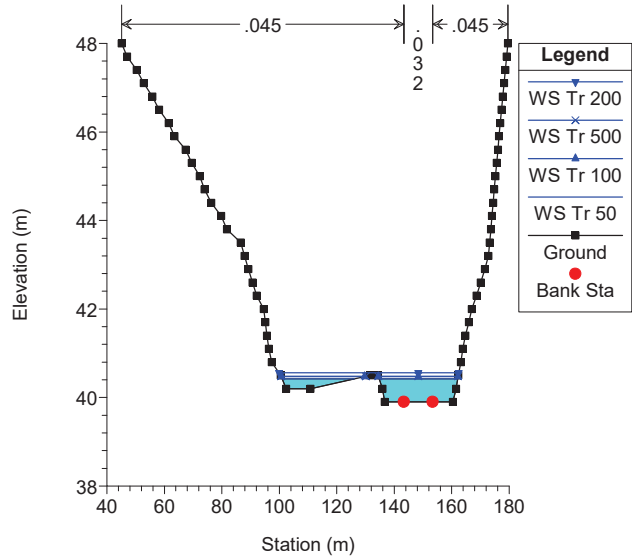
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 447.58



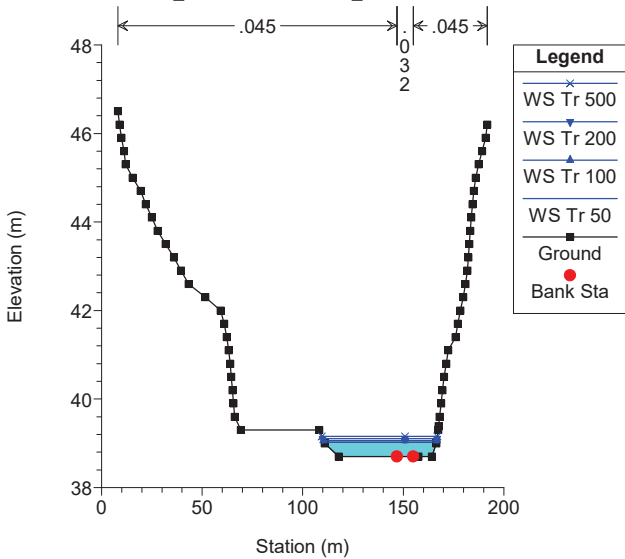
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 397.96



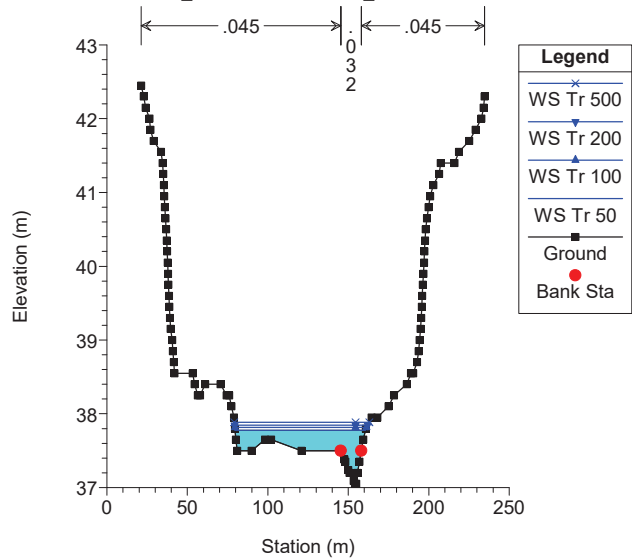
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 348.34



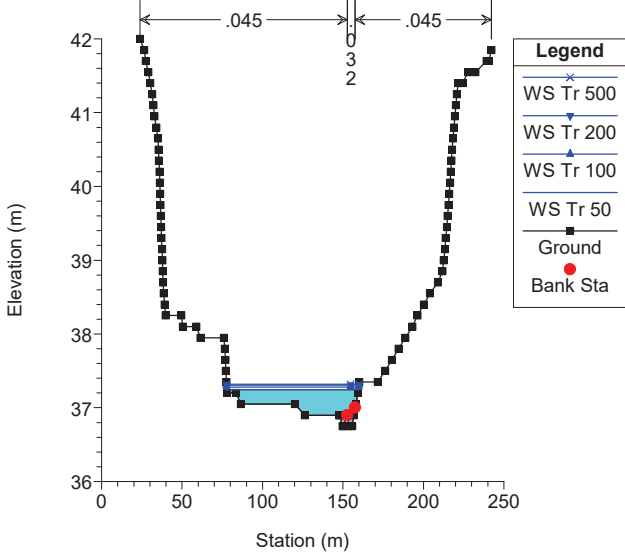
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 298.72



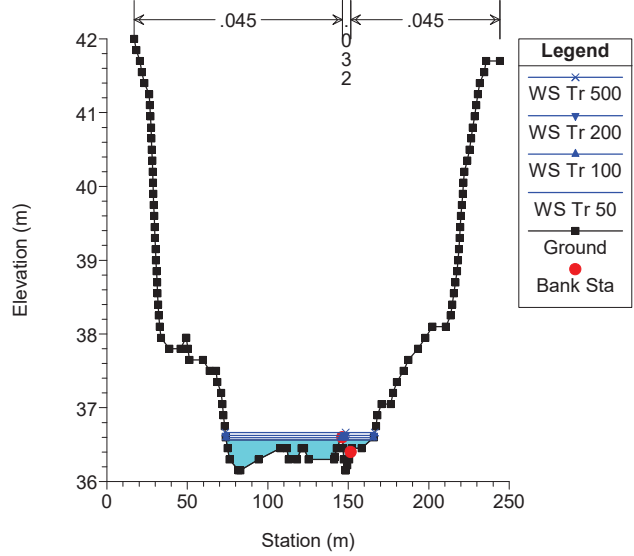
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 249.1



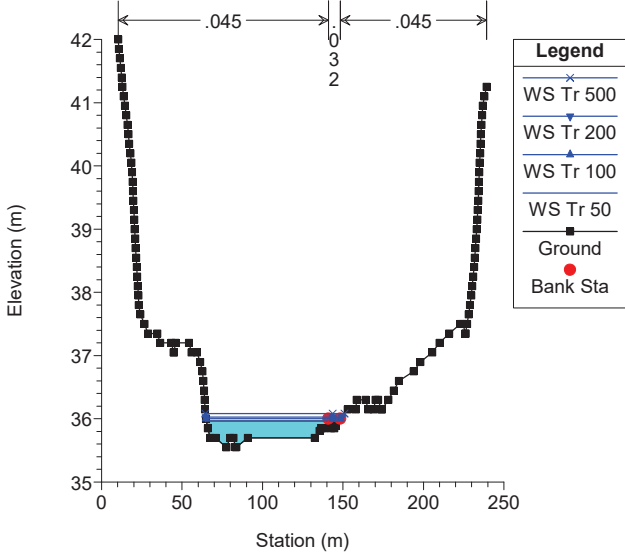
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 226.64



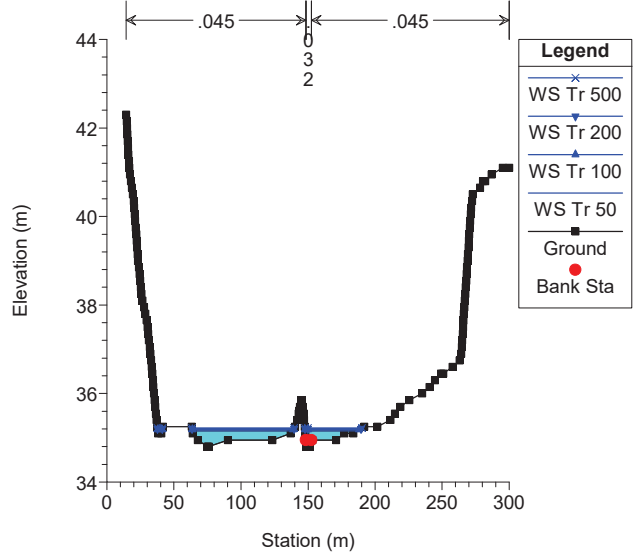
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 209.93



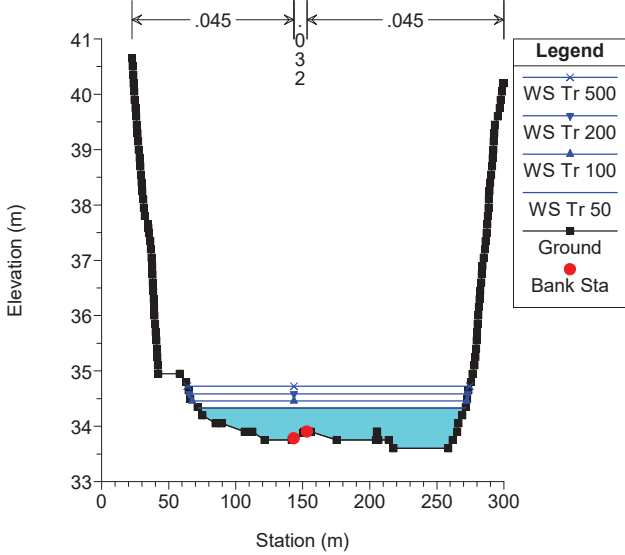
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 187.48



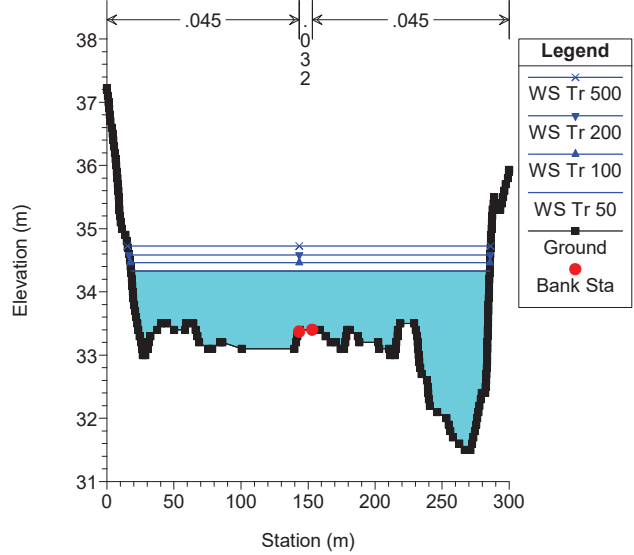
HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 149.86



HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 100.24



HEC-RAS Model Plan: Allagamenti_Art_8_comma 2
 River = Asta_4282 Reach = Asta_4282 RS = 50.62



HEC-RAS Model Plan: Allagamenti_Art_8_comma 2

River = Asta_4282 Reach = Asta_4282 RS = 1

