



**Ufficio Tecnico del Genio Civile
di Area Vasta Firenze-Prato-Pistoia-Arezzo**

**Comune di
Certaldo**

REGOLAMENTO URBANISTICO COMUNE DI CERTALDO

STUDIO IDROLOGICO IDRAULICO
L.R. n°1 03/01/2005 - D.P.G.R. n°26/R 27/04/2007
- D.P.C.M 06/05/2005

Allegati idraulici affluenti F. Elsa

**Dirigente Ufficio Tecnico
del Genio Civile**

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Gruppo di Lavoro

Ing. F. Baroni

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Ing. P.G. Spannocchi

**Responsabile Assetto del Territorio
e Urbanistica Comune di Certaldo**

Arch. C. Vanni

Giugno 2010

Legenda

Sezioni	River Sta		Codice sezione fluviale
	Q Total	[mc/s]	Portata
	W.S.Elev	[m s.l.m]	Quota assoluta pelo libero o carico piezometrico
	Crit W.S.	[m s.l.m]	Quota assoluta del carico piezometrico critico
	E.G. Elev	[m s.l.m]	Carico totale
	Thalveg	[m s.l.m]	Quota assoluta del thalveg
	E.G. Slope	[m/m]	Cadente piezometrica
	Vel Chnl	[m/s]	Velocità media nella sezione
	Flow Area	[mq]	Area sezione liquida totale
	Hydr Radium R	[m]	Raggio idraulico
	Froude # Chl	-	Numero di Froude
APE	W.S. Elev	[m s.l.m]	Quota assoluta del pelo libero in APE
	SA Min El	[m s.l.m]	Quota assoluta del fondo APE
	SA Volume	[mc/1000]	Volume invasato

Corso d'acqua :**Torrente Agliena** (pagine 2-9)

Eventi: Durata 3 ore (critica) - Tr200 → Plan :tr200 crit

- Tr100 → Plan :tr100 crit

- Tr30 → Plan :tr30 crit

- Tr20 → Plan :tr20 crit

HEC-RAS Plan: tr200crit River: Agliena Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	32	Max WS	128.95	80.20		80.52	76.74	0.003794	2.92	54.79	1.75	0.55
unico	31.99	Max WS	128.95	80.19		80.51	76.74	0.003866	2.94	54.44	1.74	0.56
unico	31.5	Max WS	128.83	79.40		79.60	75.36	0.002471	2.03	66.88	1.86	0.42
unico	31	Max WS	128.78	78.44		78.87	75.08	0.005452	3.28	46.98	1.64	0.63
unico	30	Max WS	128.73	76.56		76.91	73.41	0.004899	3.07	51.85	1.57	0.62
unico	29.99	Max WS	128.70	76.50		76.63	72.80	0.001641	1.81	83.06	1.75	0.35
unico	29.9	Max WS	128.67	76.44	75.56	76.61	72.80	0.002216	2.07	75.55	1.90	0.40
unico	29.8	Bridge										
unico	29.77	Max WS	128.63	76.41		76.58	72.80	0.002229	2.06	74.04	1.63	0.40
unico	29.7	Max WS	128.67	76.42		76.56	72.80	0.001928	1.59	78.48	1.73	0.37
unico	29.5	Max WS	128.63	76.22		76.41	72.00	0.002329	2.23	70.42	1.76	0.40
unico	29	Max WS	128.59	75.11	75.15	76.06	71.51	0.012683	4.70	32.02	1.50	0.93
unico	28.5	Max WS	128.51	75.10		75.25	71.15	0.001961	2.01	79.29	1.69	0.37
unico	28	Max WS	128.51	74.00	74.01	75.36	70.67	0.016377	5.19	25.25	1.81	1.01
unico	27	Max WS	128.51	73.97	73.73	74.82	70.66	0.009448	4.32	33.15	1.78	0.82
unico	26.5	Inl Struct										
unico	26	Max WS	128.51	73.84		74.80	70.65	0.011080	4.54	31.44	1.70	0.88
unico	25	Max WS	128.51	73.80	73.81	74.87	70.63	0.012442	5.21	30.05	1.73	0.98
unico	24.98	Lat Struct										
unico	24	Max WS	62.90	73.13		73.60	70.55	0.009326	3.06	21.43	1.16	0.79
unico	23.5	Max WS	51.11	72.66		72.86	69.72	0.003853	2.10	27.89	1.04	0.49
unico	23.48	Lat Struct										
unico	23	Max WS	30.41	72.60		72.65	68.96	0.000793	0.98	30.94	1.65	0.23
unico	22	Max WS	128.15	72.25		72.41	68.18	0.001783	1.83	73.19	2.09	0.38
unico	21.98	Lat Struct										
unico	21.5	Max WS	128.14	71.54	71.48	72.40	68.50	0.012543	4.11	31.55	1.54	0.93
unico	21	Max WS	127.44	71.30		71.53	67.42	0.001105	2.16	61.85	2.39	0.38
unico	20	Max WS	127.44	71.12	69.93	71.53	67.42	0.001538	2.82	58.02	3.18	0.50
unico	19.5	Bridge										
unico	19	Max WS	127.44	69.87	69.80	70.68	67.42	0.007551	4.01	31.83	1.57	0.95
unico	18	Max WS	127.44	69.83	69.80	70.68	67.42	0.008107	4.10	31.12	1.56	0.98
unico	17.5	Max WS	127.44	69.12	69.15	69.83	67.10	0.008909	3.75	34.02	1.30	1.03
unico	17	Max WS	120.95	68.54		68.84	65.43	0.002415	2.41	50.16	1.79	0.56
unico	16.7	Max WS	120.87	68.34	67.71	68.64	65.04	0.002529	2.42	49.99	1.73	0.57
unico	16.6	Bridge										
unico	16.5	Max WS	127.43	67.90		68.46	65.04	0.006308	3.34	38.18	1.42	0.88
unico	16	Max WS	127.42	67.59		67.90	64.30	0.002357	2.45	52.07	1.86	0.55
unico	15	Max WS	127.42	67.59	66.82	67.89	64.30	0.002298	2.43	52.46	1.87	0.55
unico	14.5	Bridge										
unico	14	Max WS	127.42	66.95		67.57	64.30	0.006465	3.47	36.71	1.47	0.88
unico	13	Max WS	127.42	67.17		67.46	64.32	0.002228	2.36	54.09	1.83	0.55
unico	12	Max WS	127.41	66.60		67.14	63.84	0.005140	3.25	39.18	1.59	0.80
unico	11.5	Max WS	123.31	66.17		66.66	63.28	0.004785	3.10	39.80	1.56	0.77
unico	11	Max WS	123.19	66.38		66.51	62.45	0.000743	1.57	78.39	2.27	0.32
unico	10	Max WS	123.18	66.38	64.84	66.51	62.45	0.000712	1.54	79.89	2.28	0.31
unico	9.5	Bridge										
unico	9	Max WS	123.18	65.99		66.16	62.45	0.001184	1.83	67.36	2.01	0.40
unico	8	Max WS	123.18	65.92		66.16	62.48	0.001661	2.15	57.41	1.98	0.47
unico	7	Max WS	123.09	65.81		66.06	62.17	0.001487	2.21	55.80	2.25	0.46
unico	6	Max WS	123.09	65.82	64.51	66.05	62.17	0.001323	2.11	58.26	2.30	0.43
unico	5.5	Bridge										
unico	5	Max WS	128.80	65.04		65.54	62.17	0.003910	3.15	40.93	1.85	0.71
unico	4	Max WS	128.69	65.03		65.53	62.05	0.004274	3.14	41.04	1.73	0.74
unico	3.5	Max WS	127.76	64.47	64.44	65.38	61.09	0.007982	4.24	30.15	1.70	0.98
unico	3	Max WS	127.65	64.32		65.11	61.36	0.006588	3.94	32.37	1.76	0.91
unico	2.6	Max WS	126.95	64.28		64.53	60.16	0.001688	2.21	57.32	2.06	0.48
unico	2.3	Max WS	85.60	64.04	62.77	64.25	60.35	0.001387	2.02	42.29	2.08	0.42
unico	2.25	Inl Struct										
unico	2.22	Max WS	127.82	64.08		64.19	57.92	0.000364	1.49	87.52	2.55	0.23
unico	2.2	Max WS	127.81	64.08	60.81	64.19	57.92	0.000365	1.49	87.46	2.55	0.23
unico	2.1	Bridge										
unico	1.9	Max WS	127.81	64.06		64.18	57.92	0.000369	1.49	87.07	2.57	0.23
unico	1.8	Max WS	127.81	64.06		64.17	57.92	0.000369	1.49	87.01	2.57	0.23
unico	1.5	Max WS	3.01	63.90	58.31	63.90	57.72	0.000001	0.05	55.16	1.97	0.01

HEC-RAS Plan: tr200crit Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
agl_sx01	Max WS	72.96	72.00	9.13
agl_sx02	Max WS	72.60	70.20	24.20
agl_sx03	Max WS	71.27	70.21	1.02
agl_sx04	Max WS	61.90	61.90	0.00
agl_sx05	Max WS	62.00	62.00	0.00

HEC-RAS Plan: tr100crit River: Agliena Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	32	Max WS	110.81	80.02		80.31	76.74	0.003786	2.80	49.45	1.61	0.54
unico	31.99	Max WS	110.81	80.01		80.31	76.74	0.003861	2.82	49.12	1.60	0.55
unico	31.5	Max WS	110.67	79.19		79.37	75.36	0.002486	1.93	60.59	1.70	0.42
unico	31	Max WS	110.64	78.27		78.66	75.08	0.005359	3.11	42.75	1.51	0.62
unico	30	Max WS	110.57	76.37		76.70	73.41	0.005073	2.97	46.41	1.42	0.62
unico	29.99	Max WS	110.56	76.29		76.41	72.80	0.001695	1.74	73.85	1.67	0.35
unico	29.9	Max WS	110.56	76.24	75.45	76.40	72.80	0.002280	1.99	67.16	1.72	0.40
unico	29.8	Bridge										
unico	29.77	Max WS	110.55	76.20		76.36	72.80	0.002350	2.01	65.37	1.56	0.41
unico	29.7	Max WS	110.55	76.21		76.34	72.80	0.002028	1.53	69.92	1.66	0.37
unico	29.5	Max WS	110.55	76.01		76.18	72.00	0.002437	2.17	62.87	1.59	0.41
unico	29	Max WS	110.55	74.94	74.98	75.80	71.51	0.012558	4.46	28.97	1.38	0.92
unico	28.5	Max WS	110.44	74.84		74.99	71.15	0.002312	2.05	68.19	1.47	0.39
unico	28	Max WS	110.94	73.77	73.76	74.98	70.67	0.015997	4.90	23.06	1.71	0.99
unico	27	Max WS	110.38	73.76	73.53	74.52	70.66	0.009212	4.05	30.20	1.65	0.80
unico	26.5	Inl Struct										
unico	26	Max WS	110.38	73.63		74.49	70.65	0.011002	4.29	28.45	1.58	0.87
unico	25	Max WS	110.37	73.56	73.61	74.56	70.63	0.012949	5.03	26.74	1.59	0.98
unico	24.98	Lat Struct										
unico	24	Max WS	56.46	73.09		73.49	70.55	0.008305	2.84	20.72	1.12	0.74
unico	23.5	Max WS	47.18	72.42		72.74	69.72	0.006597	2.54	18.93	1.17	0.63
unico	23.48	Lat Struct										
unico	23	Max WS	26.60	72.38		72.42	68.96	0.000856	0.97	27.49	1.52	0.23
unico	22	Max WS	110.00	72.07		72.21	68.18	0.001668	1.71	67.54	1.96	0.36
unico	21.98	Lat Struct										
unico	21.5	Max WS	109.98	71.30	71.25	72.12	68.50	0.013798	4.02	27.35	1.57	0.96
unico	21	Max WS	109.97	70.92		71.15	67.42	0.001246	2.13	53.65	2.14	0.40
unico	20	Max WS	109.97	70.76	69.74	71.14	67.42	0.001715	2.75	50.16	2.81	0.52
unico	19.5	Bridge										
unico	19	Max WS	109.97	69.71		70.44	67.42	0.007442	3.78	29.10	1.51	0.93
unico	18	Max WS	109.97	69.66	69.63	70.43	67.42	0.008152	3.89	28.25	1.47	0.98
unico	17.5	Max WS	109.97	68.98	69.01	69.64	67.10	0.009105	3.58	30.69	1.20	1.03
unico	17	Max WS	105.87	68.39		68.66	65.43	0.002372	2.30	46.05	1.69	0.55
unico	16.7	Max WS	105.81	68.18	67.59	68.46	65.04	0.002515	2.31	45.80	1.62	0.57
unico	16.6	Bridge										
unico	16.5	Max WS	111.45	67.75		68.28	65.04	0.006620	3.24	34.39	1.31	0.89
unico	16	Max WS	109.96	67.40		67.68	64.30	0.002343	2.33	47.10	1.74	0.55
unico	15	Max WS	109.96	67.40	66.66	67.67	64.30	0.002279	2.32	47.49	1.76	0.54
unico	14.5	Bridge										
unico	14	Max WS	109.96	66.78		67.36	64.30	0.006689	3.35	32.82	1.36	0.89
unico	13	Max WS	109.96	66.99		67.25	64.32	0.002209	2.25	48.91	1.72	0.54
unico	12	Max WS	109.95	66.42		66.92	63.84	0.005315	3.13	35.12	1.46	0.81
unico	11.5	Max WS	109.95	65.91		66.46	63.28	0.006405	3.28	33.57	1.36	0.87
unico	11	Max WS	109.94	66.09		66.22	62.45	0.000866	1.59	68.99	2.07	0.34
unico	10	Max WS	109.94	66.09	64.74	66.21	62.45	0.000822	1.56	70.50	2.08	0.33
unico	9.5	Bridge										
unico	9	Max WS	109.94	65.73		65.90	62.45	0.001334	1.85	59.29	1.88	0.42
unico	8	Max WS	109.94	65.66		65.90	62.48	0.001974	2.18	50.39	1.79	0.50
unico	7	Max WS	109.93	65.53		65.78	62.17	0.001673	2.22	49.47	2.08	0.48
unico	6	Max WS	109.93	65.55	64.38	65.78	62.17	0.001453	2.12	51.97	2.15	0.44
unico	5.5	Bridge										
unico	5	Max WS	109.93	64.83		65.29	62.17	0.003870	2.99	36.75	1.73	0.70
unico	4	Max WS	109.93	64.80		65.27	62.05	0.004622	3.05	36.00	1.56	0.76
unico	3.5	Max WS	109.93	64.24	64.23	65.11	61.09	0.008392	4.13	26.64	1.57	0.99
unico	3	Max WS	109.92	64.08		64.84	61.36	0.007186	3.88	28.34	1.61	0.94
unico	2.6	Max WS	109.92	63.62		63.99	60.16	0.003300	2.68	40.94	1.66	0.65
unico	2.3	Max WS	109.93	63.10	63.09	63.97	60.35	0.008171	4.14	26.59	1.61	0.99
unico	2.25	Inl Struct										
unico	2.22	Max WS	106.81	62.60		62.78	57.92	0.000807	1.85	57.67	2.74	0.33
unico	2.2	Max WS	106.76	62.60	60.56	62.78	57.92	0.000809	1.85	57.59	2.73	0.33
unico	2.1	Bridge										
unico	1.9	Max WS	106.76	62.59		62.77	57.92	0.000815	1.86	57.45	2.73	0.33
unico	1.8	Max WS	106.72	62.59		62.76	57.92	0.000818	1.86	57.37	2.73	0.33
unico	1.5	Max WS	5.30	62.00	58.47	62.00	57.72	0.000018	0.21	25.48	1.76	0.04

HEC-RAS Plan: tr100crit Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
agl_sx01	Max WS	72.84	72.00	7.33
agl_sx02	Max WS	72.38	70.20	20.22
agl_sx03	Max WS	70.21	70.21	0.00
agl_sx04	Max WS	61.90	61.90	0.00
agl_sx05	Max WS	62.00	62.00	0.00

HEC-RAS Plan: tr30crit River: Agliena Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	32	Max WS	83.80	79.74		79.98	76.74	0.003645	2.55	41.21	1.41	0.52
unico	31.99	Max WS	83.80	79.73		79.97	76.74	0.003722	2.56	40.91	1.40	0.53
unico	31.5	Max WS	83.75	78.88		79.07	75.36	0.002995	1.93	43.28	1.68	0.46
unico	31	Max WS	83.75	77.99		78.31	75.08	0.005201	2.83	35.84	1.29	0.60
unico	30	Max WS	83.74	76.09		76.39	73.41	0.005314	2.78	38.01	1.18	0.62
unico	29.99	Max WS	83.74	75.96		76.06	72.80	0.001773	1.63	60.74	1.42	0.35
unico	29.9	Max WS	83.74	75.92	75.28	76.05	72.80	0.002369	1.86	55.01	1.45	0.40
unico	29.8		Bridge									
unico	29.77	Max WS	83.74	75.87		76.01	72.80	0.002598	1.92	52.76	1.30	0.42
unico	29.7	Max WS	83.74	75.88		75.99	72.80	0.002129	1.45	57.52	1.42	0.37
unico	29.5	Max WS	83.74	75.66		75.82	72.00	0.002633	2.07	51.01	1.32	0.42
unico	29	Max WS	83.73	74.67		75.38	71.51	0.011739	4.00	24.42	1.19	0.87
unico	28.5	Max WS	83.73	74.46		74.62	71.15	0.003051	2.13	51.88	1.14	0.44
unico	28	Max WS	83.73	73.40	73.35	74.36	70.67	0.015104	4.36	19.50	1.53	0.96
unico	27	Max WS	83.73	73.50	73.21	74.07	70.66	0.007800	3.48	26.52	1.49	0.72
unico	26.5		Inl Struct									
unico	26	Max WS	83.73	73.42		74.04	70.65	0.008850	3.62	25.41	1.44	0.77
unico	25	Max WS	83.73	73.30		74.08	70.63	0.011471	4.42	23.09	1.41	0.91
unico	24.98		Lat Struct									
unico	24	Max WS	47.14	73.02		73.33	70.55	0.006762	2.49	19.65	1.07	0.66
unico	23.5	Max WS	39.99	72.23		72.53	69.72	0.007102	2.45	16.39	1.17	0.65
unico	23.48		Lat Struct									
unico	23	Max WS	21.21	71.97		72.02	68.96	0.001146	0.99	21.33	1.27	0.26
unico	22	Max WS	83.55	71.70		71.82	68.18	0.001614	1.56	56.41	1.73	0.35
unico	21.98		Lat Struct									
unico	21.5	Max WS	83.55	70.95	70.92	71.68	68.50	0.014653	3.77	22.17	1.39	0.97
unico	21	Max WS	83.55	70.33		70.55	67.42	0.001549	2.08	41.07	1.72	0.44
unico	20	Max WS	83.55	70.20	69.43	70.54	67.42	0.002038	2.60	38.30	2.27	0.55
unico	19.5		Bridge									
unico	19	Max WS	83.55	69.47		70.04	67.42	0.006915	3.35	24.93	1.33	0.89
unico	18	Max WS	83.55	69.41	69.36	70.03	67.42	0.007857	3.49	23.92	1.29	0.94
unico	17.5	Max WS	83.55	68.77	68.78	69.32	67.10	0.009441	3.29	25.39	1.02	1.03
unico	17	Max WS	78.94	68.09		68.30	65.43	0.002248	2.06	38.39	1.48	0.53
unico	16.7	Max WS	78.86	67.89	67.35	68.11	65.04	0.002440	2.07	38.05	1.41	0.54
unico	16.6		Bridge									
unico	16.5	Max WS	83.54	67.49		67.94	65.04	0.006943	2.98	28.04	1.11	0.89
unico	16	Max WS	83.54	67.07		67.30	64.30	0.002341	2.14	38.99	1.53	0.54
unico	15	Max WS	83.54	67.07	66.41	67.30	64.30	0.002261	2.12	39.40	1.55	0.53
unico	14.5		Bridge									
unico	14	Max WS	83.54	66.49		67.00	64.30	0.007358	3.17	26.40	1.16	0.91
unico	13	Max WS	83.54	66.66		66.88	64.32	0.002251	2.08	40.09	1.51	0.53
unico	12	Max WS	83.53	66.05		66.54	63.84	0.006441	3.12	26.80	1.26	0.87
unico	11.5	Max WS	83.53	65.39		66.03	63.28	0.007280	3.56	23.46	1.40	0.93
unico	11	Max WS	83.53	65.49		65.63	62.45	0.001170	1.64	51.07	1.72	0.39
unico	10	Max WS	83.53	65.50	64.53	65.63	62.45	0.001086	1.59	52.65	1.74	0.37
unico	9.5		Bridge									
unico	9	Max WS	83.53	65.19		65.37	62.45	0.001880	1.91	43.82	1.51	0.48
unico	8	Max WS	83.53	65.09		65.37	62.48	0.003345	2.34	35.64	1.34	0.63
unico	7	Max WS	83.52	64.92		65.19	62.17	0.002336	2.29	36.43	1.70	0.55
unico	6	Max WS	83.52	64.95	64.09	65.18	62.17	0.001851	2.13	39.26	1.81	0.49
unico	5.5		Bridge									
unico	5	Max WS	83.52	64.53		64.90	62.17	0.003650	2.70	30.96	1.55	0.67
unico	4	Max WS	83.52	64.47		64.89	62.05	0.004908	2.87	29.09	1.36	0.77
unico	3.5	Max WS	83.51	63.93	63.90	64.66	61.09	0.008352	3.79	22.02	1.39	0.97
unico	3	Max WS	83.50	63.78		64.42	61.36	0.007068	3.54	23.61	1.42	0.92
unico	2.6	Max WS	83.47	63.27		63.59	60.16	0.003530	2.52	33.06	1.44	0.65
unico	2.3	Max WS	83.35	62.76	62.73	63.51	60.35	0.008299	3.85	21.67	1.43	0.98
unico	2.25		Inl Struct									
unico	2.22	Max WS	83.69	62.42		62.54	57.92	0.000582	1.54	54.42	2.64	0.28
unico	2.2	Max WS	83.69	62.42	60.27	62.54	57.92	0.000584	1.54	54.36	2.64	0.28
unico	2.1		Bridge									
unico	1.9	Max WS	83.38	62.41		62.53	57.92	0.000581	1.53	54.32	2.64	0.28
unico	1.8	Max WS	83.37	62.41		62.53	57.92	0.000582	1.54	54.27	2.64	0.28
unico	1.5	Max WS	5.30	62.00	58.47	62.00	57.72	0.000018	0.21	25.48	1.76	0.04

HEC-RAS Plan: tr30crit Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
agl_sx01	Max WS	72.67	72.00	5.01
agl_sx02	Max WS	71.97	70.20	13.32
agl_sx03	Max WS	70.21	70.21	0.00
agl_sx04	Max WS	61.90	61.90	0.00
agl_sx05	Max WS	62.00	62.00	0.00

HEC-RAS Plan: tr30crit River: Agliena Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	32	Max WS	75.98	79.65		79.87	76.74	0.003580	2.46	38.69	1.35	0.52
unico	31.99	Max WS	75.98	79.64		79.87	76.74	0.003655	2.48	38.40	1.34	0.52
unico	31.5	Max WS	75.74	78.79		78.96	75.36	0.002845	1.84	41.25	1.62	0.44
unico	31	Max WS	75.98	77.90		78.20	75.08	0.005153	2.75	33.65	1.22	0.59
unico	30	Max WS	75.98	76.01		76.29	73.41	0.005401	2.73	35.40	1.11	0.62
unico	29.99	Max WS	75.97	75.86		75.96	72.80	0.001799	1.59	56.76	1.34	0.35
unico	29.9	Max WS	75.97	75.82	75.23	75.95	72.80	0.002401	1.81	51.31	1.36	0.40
unico	29.8		Bridge									
unico	29.77	Max WS	75.97	75.77		75.90	72.80	0.002698	1.89	48.90	1.22	0.42
unico	29.7	Max WS	75.97	75.78		75.88	72.80	0.002165	1.42	53.75	1.34	0.37
unico	29.5	Max WS	75.97	75.56		75.71	72.00	0.002708	2.04	47.33	1.23	0.42
unico	29	Max WS	75.97	74.60		75.25	71.51	0.011316	3.83	23.07	1.13	0.85
unico	28.5	Max WS	75.96	74.34		74.51	71.15	0.003376	2.17	46.94	1.04	0.46
unico	28	Max WS	75.96	73.29	73.22	74.17	70.67	0.014558	4.16	18.51	1.48	0.94
unico	27	Max WS	75.96	73.43	73.11	73.94	70.66	0.007156	3.27	25.56	1.45	0.69
unico	26.5		Inl Struct									
unico	26	Max WS	75.96	73.36		73.90	70.65	0.008016	3.39	24.59	1.41	0.73
unico	25	Max WS	75.96	73.24		73.94	70.63	0.010647	4.18	22.16	1.37	0.87
unico	24.98		Lat Struct									
unico	24	Max WS	43.89	73.00		73.28	70.55	0.006222	2.36	19.26	1.06	0.63
unico	23.5	Max WS	37.69	72.20		72.48	69.72	0.006620	2.34	16.13	1.17	0.63
unico	23.48		Lat Struct									
unico	23	Max WS	20.94	71.84		71.90	68.96	0.001472	1.08	19.44	1.19	0.30
unico	22	Max WS	75.79	71.59		71.70	68.18	0.001583	1.51	53.07	1.66	0.34
unico	21.98		Lat Struct									
unico	21.5	Max WS	75.79	70.85	70.82	71.53	68.50	0.014656	3.66	20.73	1.33	0.97
unico	21	Max WS	75.79	70.15		70.37	67.42	0.001666	2.05	37.34	1.65	0.45
unico	20	Max WS	75.79	70.03	69.34	70.36	67.42	0.002163	2.54	34.91	2.10	0.56
unico	19.5		Bridge									
unico	19	Max WS	75.79	69.40		69.92	67.42	0.006707	3.21	23.64	1.27	0.87
unico	18	Max WS	75.79	69.33		69.91	67.42	0.007727	3.36	22.59	1.23	0.93
unico	17.5	Max WS	75.79	68.70	68.71	69.22	67.10	0.009439	3.18	23.85	0.97	1.02
unico	17	Max WS	75.79	68.05		68.26	65.43	0.002218	2.02	37.51	1.46	0.52
unico	16.7	Max WS	75.78	67.86	67.32	68.07	65.04	0.002412	2.04	37.20	1.39	0.54
unico	16.6		Bridge									
unico	16.5	Max WS	75.79	67.41		67.84	65.04	0.007109	2.90	26.12	1.05	0.89
unico	16	Max WS	75.78	66.97		67.19	64.30	0.002306	2.07	36.66	1.47	0.53
unico	15	Max WS	75.78	66.97	66.32	67.18	64.30	0.002223	2.04	37.06	1.48	0.52
unico	14.5		Bridge									
unico	14	Max WS	75.78	66.40		66.89	64.30	0.007617	3.10	24.41	1.10	0.92
unico	13	Max WS	75.78	66.55		66.76	64.32	0.002273	2.03	37.35	1.44	0.53
unico	12	Max WS	75.78	65.93		66.41	63.84	0.006313	3.09	24.52	1.26	0.86
unico	11.5	Max WS	75.77	65.26	65.21	65.89	63.28	0.007717	3.53	21.47	1.32	0.95
unico	11	Max WS	75.77	65.33		65.46	62.45	0.001282	1.63	46.37	1.60	0.40
unico	10	Max WS	75.77	65.33	64.46	65.46	62.45	0.001183	1.58	47.93	1.62	0.39
unico	9.5		Bridge									
unico	9	Max WS	75.77	65.03		65.22	62.45	0.002084	1.91	39.69	1.40	0.50
unico	8	Max WS	75.77	64.92		65.22	62.48	0.003807	2.40	31.55	1.26	0.67
unico	7	Max WS	75.77	64.75		65.02	62.17	0.002582	2.30	32.93	1.58	0.57
unico	6	Max WS	75.77	64.79	63.99	65.01	62.17	0.001965	2.11	35.90	1.71	0.50
unico	5.5		Bridge									
unico	5	Max WS	75.77	64.43		64.77	62.17	0.003604	2.61	29.07	1.49	0.66
unico	4	Max WS	75.77	64.36		64.76	62.05	0.005067	2.82	26.85	1.30	0.77
unico	3.5	Max WS	75.77	63.82	63.79	64.52	61.09	0.008365	3.68	20.57	1.33	0.97
unico	3	Max WS	75.76	63.68		64.28	61.36	0.007013	3.43	22.10	1.36	0.91
unico	2.6	Max WS	75.76	63.15		63.46	60.16	0.003690	2.49	30.46	1.36	0.66
unico	2.3	Max WS	75.75	62.63	62.62	63.36	60.35	0.008640	3.80	19.95	1.36	1.00
unico	2.25		Inl Struct									
unico	2.22	Max WS	75.78	62.35		62.45	57.92	0.000510	1.43	53.14	2.61	0.26
unico	2.2	Max WS	75.78	62.34	60.16	62.45	57.92	0.000511	1.43	53.09	2.61	0.26
unico	2.1		Bridge									
unico	1.9	Max WS	75.78	62.34		62.45	57.92	0.000512	1.43	53.06	2.61	0.26
unico	1.8	Max WS	75.78	62.34		62.44	57.92	0.000513	1.43	53.02	2.60	0.26
unico	1.5	Max WS	5.01	62.00	58.45	62.00	57.72	0.000016	0.20	25.48	1.76	0.04

HEC-RAS Plan: tr30crit Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
agl_sx01	Max WS	72.61	72.00	4.36
agl_sx02	Max WS	71.84	70.20	11.31
agl_sx03	Max WS	70.21	70.21	0.00
agl_sx04	Max WS	61.90	61.90	0.00
agl_sx05	Max WS	62.00	62.00	0.00

Corso d'acqua :**Borro Corniola** (pagine 11-26)

Eventi: Durata 0.85 ore (critica) - Tr200 → Plan :SA_tr200_cr

- Tr100 → Plan :SA_tr100_cr

- Tr30 → Plan :SA_tr30_cr

- Tr20 → Plan :SA_tr20_cr

Durata 3 ore

Tr200 → Plan :SA_tr200_d3

Tr100 → Plan : SA_tr100_d3

Tr30 → Plan : SA_tr30_d3

Tr20 → Plan : SA_tr20_d3

HEC-RAS Plan: SA_tr200 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	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
unico	10.5	25.66	57.95	59.95	59.92	60.24	0.011983	2.60	11.56	15.42	0.76
unico	10	25.66	57.95	59.92	59.92	60.24	0.013589	2.72	11.06	15.40	0.81
unico	9.99	Lat Struct									
unico	9.98	Lat Struct									
unico	9	12.20	57.40	59.37	59.33	59.52	0.007549	2.04	8.22	17.71	0.58
unico	8	7.21	57.02	58.70	58.32	58.87	0.007341	1.79	4.03	4.02	0.57
unico	7.833333*	6.97	56.88	58.55	58.18	58.71	0.007468	1.77	3.93	3.96	0.57
unico	7.666666*	6.97	56.73	58.37	58.03	58.54	0.008278	1.85	3.77	3.85	0.60
unico	7.5*	6.97	56.58	58.16	57.85	58.35	0.009136	1.92	3.63	3.74	0.62
unico	7.333333*	6.97	56.44	57.94	57.65	58.14	0.010045	1.99	3.50	3.63	0.65
unico	7.166666*	6.97	56.30	57.69	57.43	57.90	0.011117	2.07	3.37	3.50	0.67
unico	7	6.97	56.15	57.37	57.18	57.63	0.013917	2.24	3.11	3.35	0.74
unico	6.55*	6.96	55.65	57.29	56.77	57.41	0.004975	1.54	4.53	3.95	0.46
unico	6.1	6.96	55.15	57.28	56.28	57.33	0.001614	1.01	6.88	4.49	0.26
unico	6	6.96	55.15	57.27	56.28	57.32	0.001638	1.02	6.85	4.48	0.26
unico	5.8	Bridge									
unico	5.5	6.96	55.15	57.18	56.28	57.24	0.001929	1.08	6.44	4.43	0.29
unico	5.4999	Lat Struct									
unico	5.499	Lat Struct									
unico	5.4	6.96	55.15	57.17	56.28	57.23	0.001967	1.09	6.40	4.43	0.29
unico	5	6.95	54.93	56.86	56.16	56.96	0.003663	1.36	5.10	4.26	0.40
unico	4	6.95	54.63	56.04	55.65	56.19	0.007033	1.71	4.07	3.96	0.54
unico	3.1	6.94	53.92	55.36	54.61	55.41	0.001838	1.01	6.86	5.44	0.29
unico	3	6.94	53.92	55.35	54.61	55.40	0.001882	1.02	6.80	5.44	0.29
unico	2.8	Bridge									
unico	2.5	6.94	53.92	55.32	54.61	55.38	0.001991	1.04	6.67	5.42	0.30
unico	2.4999	Lat Struct									
unico	2.499	Lat Struct									
unico	2.4	6.94	53.92	55.31	54.61	55.36	0.002078	1.06	6.57	5.41	0.31
unico	2	6.94	53.09	54.73	54.26	54.85	0.005271	1.54	4.52	4.59	0.49
unico	1	6.94	52.36	53.83	53.40	53.93	0.004806	1.43	4.87	5.64	0.49

HEC-RAS Plan: SA_tr200 Profile: Max WS

Storage Area	W.S. Elev	SA Min EI	SA Volume
	(m)	(m)	(1000 m3)
co_sx01	57.83	56.90	3.56
co_dx01	58.07	57.00	2.49
co_sx02	56.10	55.40	0.51
co_sx03	50.50	50.50	0.00
co_sx04	56.34	55.10	5.61
co_sx05	55.00	55.00	0.00
co_dx02	56.27	54.00	51.06
co_dx03	50.00	50.00	0.00

HEC-RAS Plan: SA_tr100 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	22.83	59.91	59.87	60.17	0.011212	2.46	10.90	0.24	0.74
unico	10	22.83	59.88	59.87	60.16	0.012755	2.59	10.41	0.24	0.78
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	11.54	59.35	59.32	59.50	0.007202	1.98	8.01	0.24	0.56
unico	8	7.09	58.70	58.31	58.86	0.007212	1.77	4.01	0.00	0.56
unico	7.833333*	6.89	58.55	58.17	58.71	0.007456	1.77	3.90	0.00	0.57
unico	7.666666*	6.89	58.36	58.02	58.53	0.008271	1.84	3.74	0.00	0.60
unico	7.5*	6.89	58.15	57.84	58.34	0.009127	1.91	3.60	0.00	0.62
unico	7.333333*	6.89	57.93	57.64	58.13	0.010041	1.98	3.47	0.00	0.65
unico	7.166666*	6.89	57.68	57.42	57.89	0.011106	2.06	3.35	0.00	0.67
unico	7	6.89	57.36	57.18	57.62	0.013978	2.24	3.08	0.00	0.74
unico	6.55*	6.89	57.28	56.77	57.40	0.004985	1.54	4.49	0.00	0.46
unico	6.1	6.89	57.27	56.28	57.32	0.001609	1.01	6.84	0.00	0.26
unico	6	6.89	57.26	56.28	57.31	0.001634	1.01	6.80	0.00	0.26
unico	5.8	Bridge								
unico	5.5	6.89	57.17	56.27	57.23	0.001919	1.07	6.41	0.00	0.29
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.89	57.16	56.27	57.22	0.001958	1.08	6.36	0.00	0.29
unico	5	6.89	56.85	56.16	56.95	0.003655	1.36	5.07	0.00	0.40
unico	4	6.89	56.04	55.65	56.18	0.007033	1.70	4.04	0.00	0.54
unico	3.1	6.88	55.35	54.61	55.40	0.001836	1.01	6.82	0.00	0.29
unico	3	6.88	55.34	54.61	55.40	0.001879	1.02	6.76	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.88	55.32	54.60	55.37	0.001988	1.04	6.63	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.88	55.30	54.61	55.36	0.002075	1.05	6.53	0.00	0.31
unico	2	6.88	54.73	54.26	54.85	0.005267	1.53	4.49	0.00	0.49
unico	1	6.88	53.82	53.39	53.93	0.004802	1.42	4.84	0.00	0.49

HEC-RAS Plan: SA_tr100 Profile: Max WS

Storage Area	W.S. Elev	SA Min EI	SA Volume
	(m)	(m)	(1000 m3)
co_sx01	57.82	56.90	3.27
co_dx01	58.04	57.00	2.28
co_sx02	55.65	55.40	0.01
co_sx03	50.50	50.50	0.00
co_sx04	56.31	55.10	4.43
co_sx05	55.00	55.00	0.00
co_dx02	56.17	54.00	41.92
co_dx03	50.00	50.00	0.00

HEC-RAS Plan: SA_tr30 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	18.58	59.84	59.78	60.06	0.009899	2.23	9.83	0.22	0.69
unico	10	18.58	59.81	59.78	60.05	0.011186	2.34	9.40	0.22	0.73
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	10.30	59.34	59.28	59.47	0.006288	1.83	7.71	0.22	0.52
unico	8	6.96	58.69	58.30	58.85	0.007090	1.75	3.99	0.00	0.56
unico	7.83333*	6.80	58.54	58.16	58.70	0.007456	1.76	3.86	0.00	0.57
unico	7.66666*	6.80	58.35	58.01	58.52	0.008268	1.84	3.70	0.00	0.60
unico	7.5*	6.80	58.14	57.84	58.33	0.009127	1.91	3.57	0.00	0.62
unico	7.33333*	6.80	57.92	57.64	58.12	0.010043	1.98	3.44	0.00	0.65
unico	7.16666*	6.80	57.67	57.41	57.88	0.011109	2.05	3.31	0.00	0.67
unico	7	6.80	57.35	57.17	57.61	0.014190	2.24	3.03	0.00	0.75
unico	6.55*	6.80	57.26	56.76	57.38	0.005060	1.54	4.42	0.00	0.46
unico	6.1	6.80	57.25	56.27	57.30	0.001617	1.01	6.76	0.00	0.26
unico	6	6.80	57.24	56.27	57.30	0.001642	1.01	6.72	0.00	0.26
unico	5.8	Bridge								
unico	5.5	6.80	57.16	56.27	57.22	0.001910	1.07	6.36	0.00	0.28
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.80	57.15	56.27	57.21	0.001949	1.08	6.31	0.00	0.29
unico	5	6.80	56.84	56.15	56.94	0.003645	1.35	5.03	0.00	0.40
unico	4	6.80	56.03	55.64	56.17	0.007033	1.70	4.00	0.00	0.54
unico	3.1	6.79	55.34	54.60	55.39	0.001832	1.00	6.76	0.00	0.29
unico	3	6.79	55.33	54.60	55.38	0.001875	1.01	6.71	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.79	55.31	54.60	55.36	0.001985	1.03	6.57	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.79	55.29	54.60	55.35	0.002071	1.05	6.48	0.00	0.31
unico	2	6.79	54.72	54.25	54.84	0.005258	1.53	4.45	0.00	0.49
unico	1	6.79	53.81	53.39	53.92	0.004802	1.42	4.79	0.00	0.49

HEC-RAS Plan: SA_tr30 Profile: Max WS

Storage Area	W.S. Elev	SA Min EI	SA Volume
	(m)	(m)	(1000 m3)
co_sx01	57.79	56.90	2.68
co_dx01	57.98	57.00	1.93
co_sx02	55.40	55.40	0.00
co_sx03	50.50	50.50	0.00
co_sx04	56.26	55.10	2.45
co_sx05	55.00	55.00	0.00
co_dx02	56.03	54.00	28.84
co_dx03	50.00	50.00	0.00

HEC-RAS Plan: SA_tr20 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	17.33	59.82	59.76	60.02	0.009455	2.16	9.50	0.22	0.67
unico	10	17.33	59.79	59.76	60.02	0.010641	2.26	9.09	0.22	0.71
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	9.90	59.33	59.27	59.46	0.006011	1.78	7.61	0.22	0.51
unico	8	6.92	58.69	58.29	58.84	0.007051	1.74	3.98	0.00	0.55
unico	7.83333*	6.77	58.53	58.16	58.69	0.007455	1.76	3.85	0.00	0.57
unico	7.66666*	6.77	58.35	58.01	58.52	0.008269	1.83	3.69	0.00	0.60
unico	7.5*	6.77	58.14	57.84	58.33	0.009128	1.91	3.55	0.00	0.62
unico	7.33333*	6.77	57.92	57.63	58.11	0.010045	1.97	3.43	0.00	0.65
unico	7.16666*	6.77	57.67	57.41	57.88	0.011110	2.05	3.30	0.00	0.67
unico	7	6.77	57.34	57.17	57.60	0.014290	2.25	3.01	0.00	0.75
unico	6.55*	6.77	57.25	56.76	57.37	0.005099	1.54	4.39	0.00	0.46
unico	6.1	6.77	57.24	56.27	57.30	0.001622	1.01	6.73	0.00	0.26
unico	6	6.77	57.24	56.27	57.29	0.001648	1.01	6.69	0.00	0.26
unico	5.8	Bridge								
unico	5.5	6.77	57.16	56.27	57.21	0.001909	1.07	6.34	0.00	0.28
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.77	57.15	56.26	57.20	0.001947	1.08	6.29	0.00	0.29
unico	5	6.76	56.84	56.15	56.93	0.003643	1.35	5.01	0.00	0.40
unico	4	6.76	56.02	55.64	56.17	0.007049	1.70	3.98	0.00	0.54
unico	3.1	6.75	55.34	54.60	55.39	0.001830	1.00	6.73	0.00	0.29
unico	3	6.75	55.33	54.60	55.38	0.001874	1.01	6.68	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.75	55.30	54.60	55.36	0.001984	1.03	6.55	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.75	55.28	54.60	55.34	0.002070	1.05	6.45	0.00	0.31
unico	2	6.75	54.71	54.24	54.83	0.005257	1.52	4.43	0.00	0.49
unico	1	6.74	53.81	53.38	53.91	0.004801	1.42	4.76	0.00	0.49

HEC-RAS Plan: SA_tr20 Profile: Max WS

Storage Area	W.S. Elev	SA Min EI	SA Volume
	(m)	(m)	(1000 m3)
co_sx01	57.78	56.90	2.47
co_dx01	57.96	57.00	1.82
co_sx02	55.40	55.40	0.00
co_sx03	50.50	50.50	0.00
co_sx04	56.23	55.10	1.89
co_sx05	55.00	55.00	0.00
co_dx02	55.99	54.00	25.26
co_dx03	50.00	50.00	0.00

HEC-RAS Plan: SA_tr200_d3 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	16.14	59.80	59.73	59.99	0.008985	2.08	9.19	0.21	0.65
unico	10	16.14	59.77	59.73	59.98	0.010195	2.18	8.76	0.21	0.69
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	9.66	59.32	59.27	59.45	0.005964	1.77	7.48	0.21	0.51
unico	8	6.84	58.69	58.28	58.84	0.006978	1.73	3.96	0.00	0.55
unico	7.83333*	6.71	58.53	58.15	58.68	0.007447	1.76	3.82	0.00	0.57
unico	7.66666*	6.71	58.34	58.01	58.51	0.008263	1.83	3.67	0.00	0.60
unico	7.5*	6.71	58.13	57.83	58.32	0.009117	1.90	3.53	0.00	0.62
unico	7.33333*	6.71	57.91	57.63	58.11	0.010016	1.97	3.41	0.00	0.64
unico	7.16666*	6.71	57.66	57.40	57.87	0.011003	2.04	3.29	0.00	0.67
unico	7	6.71	57.33	57.16	57.59	0.014750	2.27	2.96	0.00	0.76
unico	6.55*	6.71	57.24	56.75	57.36	0.005141	1.54	4.35	0.00	0.47
unico	6.1	6.71	57.23	56.26	57.29	0.001625	1.00	6.68	0.00	0.26
unico	6	6.71	57.23	56.26	57.28	0.001651	1.01	6.64	0.00	0.26
unico	5.8	Bridge								
unico	5.5	6.71	57.15	56.26	57.21	0.001901	1.06	6.31	0.00	0.28
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.71	57.14	56.26	57.20	0.001940	1.07	6.26	0.00	0.29
unico	5	6.71	56.83	56.14	56.93	0.003634	1.35	4.98	0.00	0.40
unico	4	6.71	56.02	55.64	56.16	0.007037	1.69	3.97	0.00	0.54
unico	3.1	6.71	55.33	54.60	55.38	0.001827	1.00	6.71	0.00	0.29
unico	3	6.71	55.32	54.60	55.37	0.001871	1.01	6.65	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.71	55.30	54.60	55.35	0.001981	1.03	6.52	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.71	55.28	54.60	55.34	0.002069	1.04	6.43	0.00	0.31
unico	2	6.71	54.71	54.24	54.83	0.005248	1.52	4.41	0.00	0.49
unico	1	6.71	53.81	53.38	53.91	0.004800	1.41	4.74	0.00	0.49

HEC-RAS Plan: SA_tr200_d3 Profile: Max WS

Storage Area	W.S. Elev	SA Min EI	SA Volume
	(m)	(m)	(1000 m3)
co_sx01	57.81	56.90	3.07
co_dx01	57.94	57.00	1.73
co_sx02	56.29	55.40	1.58
co_sx03	52.94	50.50	0.48
co_sx04	56.37	55.10	6.96
co_sx05	55.00	55.00	0.00
co_dx02	56.45	54.00	69.09
co_dx03	55.39	50.00	1.79

HEC-RAS Plan: SA_tr100_d3 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	14.40	59.77	59.69	59.94	0.008265	1.96	8.70	0.20	0.62
unico	10	14.40	59.74	59.69	59.93	0.009200	2.04	8.35	0.20	0.66
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	9.05	59.31	59.23	59.43	0.005588	1.70	7.28	0.20	0.49
unico	8	6.74	58.68	58.28	58.83	0.006899	1.72	3.93	0.00	0.55
unico	7.83333*	6.64	58.52	58.15	58.68	0.007441	1.75	3.79	0.00	0.57
unico	7.66666*	6.64	58.33	58.00	58.50	0.008260	1.82	3.64	0.00	0.59
unico	7.5*	6.64	58.13	57.82	58.31	0.009116	1.89	3.50	0.00	0.62
unico	7.33333*	6.64	57.90	57.62	58.10	0.010017	1.96	3.38	0.00	0.64
unico	7.16666*	6.64	57.66	57.40	57.87	0.010984	2.03	3.27	0.00	0.67
unico	7	6.64	57.32	57.15	57.58	0.015007	2.28	2.92	0.00	0.77
unico	6.55*	6.64	57.23	56.75	57.35	0.005229	1.55	4.29	0.00	0.47
unico	6.1	6.64	57.22	56.26	57.27	0.001637	1.00	6.61	0.00	0.26
unico	6	6.64	57.21	56.26	57.26	0.001664	1.01	6.57	0.00	0.27
unico	5.8	Bridge								
unico	5.5	6.64	57.14	56.26	57.20	0.001895	1.06	6.27	0.00	0.28
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.64	57.13	56.26	57.19	0.001933	1.07	6.22	0.00	0.29
unico	5	6.64	56.82	56.14	56.92	0.003627	1.34	4.95	0.00	0.39
unico	4	6.64	56.01	55.63	56.15	0.007043	1.69	3.93	0.00	0.54
unico	3.1	6.64	55.32	54.59	55.37	0.001823	1.00	6.66	0.00	0.29
unico	3	6.64	55.31	54.59	55.37	0.001867	1.00	6.61	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.64	55.29	54.59	55.34	0.001978	1.02	6.48	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.64	55.27	54.59	55.33	0.002065	1.04	6.38	0.00	0.31
unico	2	6.64	54.70	54.23	54.82	0.005243	1.52	4.38	0.00	0.49
unico	1	6.64	53.80	53.38	53.90	0.004806	1.41	4.70	0.00	0.49

HEC-RAS Plan: SA_tr100_d3 Profile: Max WS

Storage Area	W.S. Elev	SA Min EI	SA Volume
	(m)	(m)	(1000 m3)
co_sx01	57.80	56.90	2.85
co_dx01	57.91	57.00	1.56
co_sx02	56.09	55.40	0.48
co_sx03	50.50	50.50	0.00
co_sx04	56.34	55.10	5.64
co_sx05	55.00	55.00	0.00
co_dx02	56.31	54.00	55.54
co_dx03	51.35	50.00	0.05

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	11.50	59.71	59.60	59.85	0.006946	1.74	7.81	0.18	0.57
unico	10	11.50	59.69	59.60	59.84	0.007500	1.79	7.58	0.18	0.59
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	8.05	59.29	59.05	59.39	0.004958	1.59	6.92	0.18	0.46
unico	8	6.57	58.67	58.26	58.81	0.006781	1.69	3.89	0.00	0.54
unico	7.83333*	6.50	58.51	58.14	58.66	0.007439	1.74	3.74	0.00	0.57
unico	7.66666*	6.50	58.32	57.99	58.49	0.008257	1.81	3.59	0.00	0.59
unico	7.5*	6.50	58.11	57.81	58.29	0.009117	1.88	3.45	0.00	0.62
unico	7.33333*	6.50	57.89	57.61	58.08	0.010004	1.95	3.33	0.00	0.64
unico	7.16666*	6.50	57.64	57.38	57.85	0.010930	2.02	3.22	0.00	0.67
unico	7	6.50	57.29	57.14	57.56	0.015476	2.29	2.84	0.00	0.78
unico	6.55*	6.50	57.20	56.74	57.32	0.005397	1.56	4.18	0.00	0.48
unico	6.1	6.50	57.19	56.25	57.24	0.001659	1.00	6.48	0.00	0.26
unico	6	6.50	57.18	56.25	57.23	0.001687	1.01	6.44	0.00	0.27
unico	5.8	Bridge								
unico	5.5	6.50	57.12	56.25	57.18	0.001883	1.05	6.19	0.00	0.28
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.50	57.11	56.25	57.17	0.001922	1.06	6.14	0.00	0.29
unico	5	6.50	56.81	56.12	56.90	0.003609	1.33	4.88	0.00	0.39
unico	4	6.50	55.99	55.62	56.14	0.007049	1.68	3.88	0.00	0.54
unico	3.1	6.50	55.31	54.58	55.36	0.001818	0.99	6.58	0.00	0.29
unico	3	6.50	55.30	54.58	55.35	0.001861	1.00	6.52	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.50	55.27	54.58	55.33	0.001972	1.02	6.39	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.50	55.26	54.58	55.31	0.002059	1.03	6.30	0.00	0.30
unico	2	6.50	54.69	54.22	54.80	0.005232	1.51	4.31	0.00	0.49
unico	1	6.50	53.78	53.37	53.88	0.004805	1.41	4.63	0.00	0.49

HEC-RAS Plan: SA_tr30_d3 Profile: Max WS

Storage Area	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
co_sx01	57.78	56.90	2.44
co_dx01	57.85	57.00	1.20
co_sx02	55.40	55.40	0.00
co_sx03	50.50	50.50	0.00
co_sx04	56.27	55.10	2.83
co_sx05	55.00	55.00	0.00
co_dx02	56.08	54.00	32.91
co_dx03	50.00	50.00	0.00

HEC-RAS Plan: SA_tr20_d3 River: corniola Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	10.5	10.60	59.69	59.56	59.82	0.006520	1.66	7.51	0.17	0.55
unico	10	10.60	59.68	59.56	59.81	0.006963	1.70	7.31	0.17	0.57
unico	9.99	Lat Struct								
unico	9.98	Lat Struct								
unico	9	7.74	59.28	59.00	59.38	0.004773	1.55	6.80	0.17	0.45
unico	8	6.51	58.66	58.26	58.81	0.006750	1.68	3.87	0.00	0.54
unico	7.83333*	6.46	58.50	58.13	58.65	0.007441	1.74	3.72	0.00	0.57
unico	7.66666*	6.46	58.31	57.98	58.48	0.008262	1.81	3.57	0.00	0.59
unico	7.5*	6.46	58.11	57.81	58.29	0.009116	1.88	3.43	0.00	0.62
unico	7.33333*	6.46	57.88	57.61	58.08	0.010003	1.95	3.32	0.00	0.64
unico	7.16666*	6.46	57.64	57.38	57.85	0.010910	2.01	3.21	0.00	0.67
unico	7	6.46	57.28	57.14	57.55	0.015627	2.29	2.82	0.00	0.79
unico	6.55*	6.46	57.19	56.73	57.31	0.005452	1.56	4.14	0.00	0.48
unico	6.1	6.46	57.18	56.25	57.23	0.001666	1.00	6.44	0.00	0.27
unico	6	6.46	57.17	56.24	57.22	0.001694	1.01	6.40	0.00	0.27
unico	5.8	Bridge								
unico	5.5	6.46	57.12	56.25	57.17	0.001879	1.05	6.16	0.00	0.28
unico	5.4999	Lat Struct								
unico	5.499	Lat Struct								
unico	5.4	6.46	57.11	56.25	57.16	0.001917	1.06	6.11	0.00	0.29
unico	5	6.46	56.80	56.12	56.89	0.003603	1.33	4.86	0.00	0.39
unico	4	6.46	55.99	55.61	56.13	0.007051	1.67	3.86	0.00	0.54
unico	3.1	6.46	55.30	54.58	55.35	0.001816	0.99	6.55	0.00	0.29
unico	3	6.46	55.29	54.58	55.34	0.001860	0.99	6.49	0.00	0.29
unico	2.8	Bridge								
unico	2.5	6.46	55.27	54.58	55.32	0.001970	1.01	6.36	0.00	0.30
unico	2.4999	Lat Struct								
unico	2.499	Lat Struct								
unico	2.4	6.46	55.25	54.58	55.31	0.002058	1.03	6.27	0.00	0.30
unico	2	6.46	54.68	54.22	54.80	0.005228	1.50	4.29	0.00	0.49
unico	1	6.46	53.78	53.36	53.88	0.004804	1.40	4.60	0.00	0.49

HEC-RAS Plan: SA_tr20_d3 Profile: Max WS

Storage Area	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
co_sx01	57.77	56.90	2.27
co_dx01	57.82	57.00	1.07
co_sx02	55.40	55.40	0.00
co_sx03	50.50	50.50	0.00
co_sx04	56.25	55.10	2.01
co_sx05	55.00	55.00	0.00
co_dx02	56.00	54.00	26.16
co_dx03	50.00	50.00	0.00

Corso d'acqua :**Borro dell'Inferno** (pagine 28-35)

Eventi: Durata 0.84 ore (critica) - Tr200 → Plan :SA_tr200

- Tr100 → Plan :SA_tr100

- Tr30 → Plan :SA_tr30

- Tr20 → Plan :SA_tr20

HEC-RAS Plan: SA_tr200 River: Inferno Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	5.5	20.87	75.38	75.44	75.81	0.019524	3.30	7.61	0.29	1.06
unico	5	20.86	75.31	75.44	75.84	0.026546	3.68	6.87	0.26	1.22
unico	4.999	Lat Struct								
unico	4.87412*	0.63	74.90		74.90	0.000052	0.15	5.29	0.20	0.05
unico	4.74925*	0.76	74.90		74.90	0.000020	0.11	8.25	0.31	0.03
unico	4.62437*	4.89	74.90		74.91	0.000311	0.52	12.51	0.21	0.14
unico	4.4995*	1.11	74.90		74.90	0.000006	0.08	18.43	0.58	0.02
unico	4.37462*	1.43	74.90		74.90	0.000005	0.08	23.64	0.91	0.02
unico	4.24975*	1.62	74.90		74.90	0.000003	0.07	28.00	1.18	0.01
unico	4.12487*	1.73	74.90		74.90	0.000003	0.07	31.51	1.36	0.01
unico	4	3.76	74.90		74.90	0.000009	0.13	34.18	1.44	0.02
unico	3.96	5.67	74.89		74.90	0.000005	0.17	40.58	1.78	0.03
unico	3.94	5.67	74.88		74.91	0.000423	0.72	7.89	0.09	0.12
unico	3.935	Culvert								
unico	3.93	5.67	72.69		72.77	0.001549	1.29	4.40	0.00	0.33
unico	3.92	5.67	72.68		72.77	0.001571	1.30	4.38	0.00	0.33
unico	3.91	5.67	72.67		72.76	0.001601	1.31	4.35	0.00	0.34
unico	3.9	5.67	72.66		72.75	0.001623	1.31	4.32	0.00	0.34
unico	3.8	Culvert								
unico	3.1	5.67	69.66		69.70	0.000592	0.88	6.48	0.00	0.26
unico	3	5.67	69.66	68.93	69.70	0.001034	0.88	6.47	0.00	0.26
unico	2.9	Bridge								
unico	2.8	5.67	69.49		69.54	0.001632	1.02	5.54	0.00	0.32
unico	2.79	5.67	69.48		69.53	0.001675	1.03	5.49	0.00	0.33
unico	2.69142*	5.67	69.44		69.50	0.001782	1.08	5.23	0.00	0.34
unico	2.59285*	5.67	69.40		69.46	0.001970	1.15	4.92	0.00	0.36
unico	2.49428*	5.67	69.35		69.43	0.002271	1.23	4.59	0.00	0.39
unico	2.39571*	5.67	69.29		69.38	0.002722	1.33	4.25	0.00	0.42
unico	2.29714*	5.67	69.21		69.32	0.003440	1.46	3.89	0.00	0.48
unico	2.19857*	5.67	69.11		69.25	0.004718	1.62	3.49	0.00	0.56
unico	2.1	4.82	68.97		69.10	0.005393	1.60	3.01	0.00	0.59
unico	2	4.82	68.94	68.64	69.07	0.005299	1.59	3.03	0.00	0.59
unico	1.9	Bridge								
unico	1.5	5.67	68.74	68.70	69.04	0.014172	2.43	2.33	0.00	0.94
unico	1.3	5.67	68.66	68.67	69.01	0.017147	2.61	2.17	0.00	1.03
unico	1.27272*	5.67	68.33	68.33	68.65	0.016610	2.51	2.26	0.00	1.00
unico	1.24545*	5.67	68.05		68.32	0.013334	2.30	2.47	0.00	0.90
unico	1.21818*	1.04	68.01		68.01	0.000161	0.28	3.71	0.00	0.10
unico	1.19090*	1.04	68.00		68.01	0.000062	0.19	5.42	0.00	0.06
unico	1.16363*	1.04	68.00		68.00	0.000027	0.14	7.45	0.00	0.04
unico	1.13636*	1.04	68.00		68.00	0.000014	0.11	9.82	0.00	0.03
unico	1.10909*	1.03	68.00		68.00	0.000007	0.08	12.51	0.00	0.02
unico	1.08181*	1.03	68.00		68.00	0.000004	0.07	15.54	0.00	0.02
unico	1.05454*	1.03	68.00		68.00	0.000003	0.05	18.90	0.00	0.01
unico	1.02727*	1.03	68.00		68.00	0.000002	0.05	22.59	0.00	0.01
unico	1	0.38	68.00	64.13	68.00	0.000000	0.01	26.61	0.00	0.00

HEC-RAS Plan: SA_tr200 Profile: Max WS

Storage Area	W.S. Elev	SA Min El	SA Volume
	(m)	(m)	(1000 m3)
cassa	74.89	72.00	42.44

HEC-RAS Plan: SA_tr100 River: Inferno Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	5.5	18.45	75.33	75.38	75.72	0.018805	3.14	7.10	0.27	1.03
unico	5	18.44	75.27	75.38	75.75	0.025881	3.51	6.39	0.24	1.20
unico	4.999	Lat Struct								
unico	4.87412*	8.93	74.79	74.86	75.09	0.021039	2.71	4.12	0.15	1.03
unico	4.74925*	2.59	74.71		74.73	0.000541	0.52	6.21	0.23	0.17
unico	4.62437*	3.44	74.71		74.72	0.000308	0.47	9.23	0.24	0.13
unico	4.4995*	4.38	74.70		74.71	0.000168	0.39	14.85	0.41	0.10
unico	4.37462*	3.14	74.70		74.71	0.000035	0.20	20.24	0.76	0.05
unico	4.24975*	3.15	74.70		74.70	0.000018	0.16	24.78	1.05	0.03
unico	4.12487*	3.12	74.70		74.70	0.000011	0.13	28.48	1.26	0.03
unico	4	4.28	74.70		74.70	0.000015	0.16	31.33	1.36	0.03
unico	3.96	5.44	74.70		74.70	0.000005	0.18	37.63	1.66	0.03
unico	3.94	5.44	74.69		74.72	0.000458	0.73	7.45	0.00	0.12
unico	3.935	Culvert								
unico	3.93	5.44	72.62		72.71	0.001598	1.29	4.21	0.00	0.34
unico	3.92	5.44	72.61		72.70	0.001624	1.30	4.19	0.00	0.34
unico	3.91	5.44	72.60		72.69	0.001657	1.31	4.16	0.00	0.35
unico	3.9	5.44	72.59		72.68	0.001683	1.32	4.13	0.00	0.35
unico	3.8	Culvert								
unico	3.1	5.44	69.62		69.66	0.000595	0.87	6.28	0.00	0.26
unico	3	5.44	69.62	68.91	69.66	0.001038	0.87	6.28	0.00	0.26
unico	2.9	Bridge								
unico	2.8	5.44	69.46		69.51	0.001637	1.01	5.38	0.00	0.32
unico	2.79	5.44	69.45		69.50	0.001682	1.02	5.33	0.00	0.33
unico	2.69142*	5.44	69.41		69.47	0.001781	1.07	5.08	0.00	0.34
unico	2.59285*	5.44	69.37		69.43	0.001963	1.14	4.79	0.00	0.36
unico	2.49428*	5.44	69.32		69.39	0.002256	1.22	4.47	0.00	0.38
unico	2.39571*	5.44	69.26		69.35	0.002706	1.32	4.13	0.00	0.42
unico	2.29714*	5.44	69.19		69.29	0.003425	1.44	3.78	0.00	0.47
unico	2.19857*	5.44	69.09		69.22	0.004711	1.61	3.38	0.00	0.56
unico	2.1	4.78	68.96		69.09	0.005371	1.60	2.99	0.00	0.59
unico	2	4.78	68.94	68.64	69.07	0.005274	1.59	3.01	0.00	0.59
unico	1.9	Bridge								
unico	1.5	5.44	68.72		69.01	0.014121	2.40	2.26	0.00	0.94
unico	1.3	5.44	68.64	68.65	68.98	0.017118	2.58	2.11	0.00	1.03
unico	1.27272*	5.44	68.31	68.30	68.63	0.016590	2.48	2.19	0.00	0.99
unico	1.24545*	5.44	68.03		68.29	0.012993	2.25	2.41	0.00	0.89
unico	1.21818*	0.84	68.01		68.01	0.000106	0.23	3.71	0.00	0.08
unico	1.19090*	1.07	68.00		68.01	0.000067	0.20	5.42	0.00	0.06
unico	1.16363*	1.07	68.00		68.00	0.000029	0.14	7.45	0.00	0.04
unico	1.13636*	3.77	68.00		68.01	0.000180	0.38	9.82	0.00	0.11
unico	1.10909*	3.76	68.00		68.01	0.000095	0.30	12.51	0.00	0.08
unico	1.08181*	3.76	68.00		68.00	0.000056	0.24	15.54	0.00	0.06
unico	1.05454*	3.76	68.00		68.00	0.000035	0.20	18.90	0.00	0.05
unico	1.02727*	3.76	68.00		68.00	0.000022	0.17	22.59	0.00	0.04
unico	1	0.28	68.00	64.09	68.00	0.000000	0.01	26.61	0.00	0.00

HEC-RAS Plan: SA_tr100 Profile: Max WS

Storage Area	W.S. Elev	SA Min El	SA Volume
	(m)	(m)	(1000 m3)
cassa	74.70	72.00	35.37

HEC-RAS Plan: SA_tr30 River: Inferno Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	5.5	14.77	75.25	75.28	75.58	0.017670	2.87	6.26	0.24	0.99
unico	5	14.77	75.19	75.28	75.60	0.024715	3.23	5.59	0.21	1.15
unico	4.999	Lat Struct								
unico	4.87412*	7.16	74.74	74.79	75.00	0.018940	2.46	3.63	0.13	0.97
unico	4.74925*	1.19	74.47		74.48	0.000501	0.41	3.57	0.12	0.16
unico	4.62437*	1.57	74.47		74.47	0.000174	0.30	6.46	0.24	0.10
unico	4.4995*	1.93	74.47		74.47	0.000082	0.25	10.50	0.19	0.07
unico	4.37462*	1.85	74.47		74.47	0.000024	0.15	16.09	0.56	0.04
unico	4.24975*	1.85	74.47		74.47	0.000011	0.11	20.86	0.88	0.03
unico	4.12487*	1.77	74.47		74.47	0.000006	0.09	24.78	1.12	0.02
unico	4	3.39	74.47		74.47	0.000014	0.15	27.84	1.25	0.03
unico	3.96	5.14	74.47		74.47	0.000007	0.18	33.99	1.51	0.03
unico	3.94	5.14	74.45		74.48	0.000474	0.74	6.97	0.00	0.13
unico	3.935	Culvert								
unico	3.93	5.14	72.54		72.63	0.001657	1.29	3.98	0.00	0.35
unico	3.92	5.14	72.53		72.62	0.001687	1.30	3.95	0.00	0.35
unico	3.91	5.14	72.52		72.61	0.001726	1.31	3.92	0.00	0.36
unico	3.9	5.14	72.51		72.60	0.001756	1.32	3.90	0.00	0.36
unico	3.8	Culvert								
unico	3.1	5.14	69.57		69.61	0.000607	0.86	6.00	0.00	0.26
unico	3	5.14	69.57	68.90	69.61	0.001059	0.86	6.00	0.00	0.26
unico	2.9	Bridge								
unico	2.8	5.13	69.42		69.47	0.001651	0.99	5.16	0.00	0.32
unico	2.79	5.13	69.41		69.46	0.001700	1.00	5.11	0.00	0.33
unico	2.69142*	5.13	69.37		69.42	0.001788	1.05	4.87	0.00	0.34
unico	2.59285*	5.13	69.33		69.39	0.001959	1.12	4.60	0.00	0.36
unico	2.49428*	5.13	69.28		69.35	0.002247	1.20	4.29	0.00	0.38
unico	2.39571*	5.13	69.22		69.31	0.002692	1.29	3.97	0.00	0.42
unico	2.29714*	4.77	69.15		69.24	0.002936	1.32	3.63	0.00	0.44
unico	2.19857*	4.77	69.07		69.18	0.003795	1.44	3.32	0.00	0.50
unico	2.1	4.77	68.96		69.09	0.005340	1.59	2.99	0.00	0.59
unico	2	4.75	68.94	68.63	69.07	0.005187	1.57	3.02	0.00	0.58
unico	1.9	Bridge								
unico	1.5	5.15	68.69		68.97	0.014058	2.37	2.18	0.00	0.93
unico	1.3	5.15	68.61	68.62	68.94	0.017109	2.55	2.02	0.00	1.02
unico	1.27272*	5.14	68.29	68.28	68.59	0.016516	2.44	2.10	0.00	0.99
unico	1.24545*	5.14	68.02		68.26	0.012447	2.19	2.35	0.00	0.87
unico	1.21818*	0.64	68.00		68.01	0.000061	0.17	3.70	0.00	0.06
unico	1.19090*	0.64	68.00		68.00	0.000023	0.12	5.41	0.00	0.04
unico	1.16363*	0.83	68.00		68.00	0.000017	0.11	7.45	0.00	0.03
unico	1.13636*	0.83	68.00		68.00	0.000009	0.08	9.81	0.00	0.02
unico	1.10909*	0.83	68.00		68.00	0.000005	0.07	12.51	0.00	0.02
unico	1.08181*	0.83	68.00		68.00	0.000003	0.05	15.54	0.00	0.01
unico	1.05454*	0.63	68.00		68.00	0.000001	0.03	18.90	0.00	0.01
unico	1.02727*	3.67	68.00		68.00	0.000021	0.16	22.59	0.00	0.04
unico	1	0.07	68.00	63.98	68.00	0.000000	0.00	26.61	0.00	0.00

HEC-RAS Plan: SA_tr30 Profile: Max WS

Storage Area	W.S. Elev	SA Min El	SA Volume
	(m)	(m)	(1000 m3)
cassa	74.46	72.00	26.65

HEC-RAS Plan: SA_tr20 River: Inferno Reach: unico Profile: Max WS

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	5.5	13.74	75.23	75.26	75.53	0.017266	2.79	6.01	0.23	0.97
unico	5	13.74	75.17	75.26	75.56	0.024275	3.14	5.36	0.20	1.14
unico	4.999	Lat Struct								
unico	4.87412*	6.80	74.72	74.78	74.98	0.019894	2.47	3.43	0.12	0.99
unico	4.74925*	2.73	74.37		74.44	0.005866	1.26	2.47	0.07	0.52
unico	4.62437*	3.44	74.37		74.39	0.001439	0.81	5.30	0.19	0.27
unico	4.4995*	3.99	74.37		74.38	0.000548	0.60	8.62	0.12	0.18
unico	4.37462*	2.44	74.36		74.37	0.000060	0.23	14.22	0.47	0.06
unico	4.24975*	2.95	74.36		74.37	0.000036	0.20	19.09	0.80	0.05
unico	4.12487*	2.94	74.36		74.37	0.000019	0.16	23.13	1.06	0.03
unico	4	3.85	74.36		74.36	0.000021	0.18	26.29	1.20	0.04
unico	3.96	5.00	74.36		74.36	0.000007	0.19	32.39	1.44	0.04
unico	3.94	5.00	74.35		74.38	0.000481	0.74	6.77	0.00	0.13
unico	3.935	Culvert								
unico	3.93	5.00	72.51		72.59	0.001674	1.29	3.89	0.00	0.35
unico	3.92	5.00	72.50		72.58	0.001706	1.29	3.86	0.00	0.35
unico	3.91	5.00	72.49		72.57	0.001746	1.31	3.82	0.00	0.36
unico	3.9	5.00	72.48		72.57	0.001778	1.32	3.80	0.00	0.36
unico	3.8	Culvert								
unico	3.1	5.00	69.55		69.58	0.000614	0.85	5.87	0.00	0.26
unico	3	5.00	69.55	68.89	69.58	0.001071	0.85	5.86	0.00	0.26
unico	2.9	Bridge								
unico	2.8	5.00	69.40		69.45	0.001650	0.99	5.07	0.00	0.32
unico	2.79	4.86	69.39		69.44	0.001610	0.97	5.02	0.00	0.32
unico	2.69142*	4.86	69.35		69.41	0.001674	1.01	4.80	0.00	0.33
unico	2.59285*	4.86	69.32		69.37	0.001814	1.07	4.55	0.00	0.34
unico	2.49428*	4.86	69.27		69.34	0.002050	1.14	4.26	0.00	0.37
unico	2.39571*	4.86	69.22		69.30	0.002412	1.22	3.97	0.00	0.40
unico	2.29714*	4.85	69.16		69.25	0.002967	1.33	3.66	0.00	0.44
unico	2.19857*	4.85	69.08		69.19	0.003849	1.45	3.35	0.00	0.50
unico	2.1	4.85	68.97		69.10	0.005447	1.61	3.01	0.00	0.59
unico	2	4.85	68.94	68.64	69.07	0.005368	1.60	3.03	0.00	0.59
unico	1.9	Bridge								
unico	1.5	5.09	68.69		68.97	0.013957	2.35	2.16	0.00	0.93
unico	1.3	5.09	68.61	68.61	68.93	0.017001	2.53	2.01	0.00	1.02
unico	1.27272*	5.06	68.28	68.27	68.58	0.016369	2.43	2.09	0.00	0.98
unico	1.24545*	5.04	68.01		68.25	0.012104	2.15	2.34	0.00	0.86
unico	1.21818*	0.69	68.00		68.01	0.000072	0.19	3.70	0.00	0.07
unico	1.19090*	0.69	68.00		68.00	0.000028	0.13	5.41	0.00	0.04
unico	1.16363*	3.73	68.00		68.02	0.000346	0.50	7.45	0.00	0.15
unico	1.13636*	3.73	68.00		68.01	0.000176	0.38	9.81	0.00	0.11
unico	1.10909*	3.72	68.00		68.01	0.000093	0.30	12.51	0.00	0.08
unico	1.08181*	3.72	68.00		68.00	0.000055	0.24	15.54	0.00	0.06
unico	1.05454*	3.72	68.00		68.00	0.000035	0.20	18.90	0.00	0.05
unico	1.02727*	3.72	68.00		68.00	0.000022	0.16	22.59	0.00	0.04
unico	1	0.05	68.00	63.96	68.00	0.000000	0.00	26.61	0.00	0.00

HEC-RAS Plan: SA_tr20 Profile: Max WS

Storage Area	W.S. Elev	SA Min El	SA Volume
	(m)	(m)	(1000 m3)
cassa	74.36	72.00	23.42

Corso d'acqua :**Fosso Piano** (pagine 37-38)

Eventi: Moto Permanente → Tr200

Tr100

Tr30

Tr20

HEC-RAS Plan: River: piano Reach: unico

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	5	4.50	75.20	75.19	75.34	0.010821	1.92	3.06	0.29	0.75
unico	5	4.00	75.17	75.16	75.30	0.010688	1.86	2.84	0.26	0.74
unico	5	3.20	75.12	75.12	75.24	0.010554	1.75	2.43	0.21	0.72
unico	5	2.90	75.10	75.10	75.22	0.010686	1.72	2.24	0.19	0.72
unico	4.8*	4.50	74.98	74.97	75.11	0.010685	1.91	3.24	0.24	0.73
unico	4.8*	4.00	74.95	74.94	75.08	0.010697	1.86	2.98	0.21	0.73
unico	4.8*	3.20	74.90	74.90	75.02	0.010448	1.75	2.54	0.16	0.71
unico	4.8*	2.90	74.89	74.89	75.00	0.009432	1.65	2.45	0.15	0.67
unico	4.6*	4.50	74.75	74.75	74.88	0.010594	1.90	3.35	0.18	0.71
unico	4.6*	4.00	74.73	74.73	74.85	0.010293	1.83	3.10	0.16	0.70
unico	4.6*	3.20	74.69	74.69	74.80	0.009564	1.70	2.67	0.12	0.67
unico	4.6*	2.90	74.68	74.68	74.80	0.010086	1.72	2.29	0.11	0.68
unico	4.4*	4.50	74.54	74.54	74.66	0.009669	1.84	3.51	0.15	0.67
unico	4.4*	4.00	74.51	74.51	74.64	0.010066	1.82	3.14	0.12	0.68
unico	4.4*	3.20	74.47	74.48	74.60	0.010108	1.76	2.51	0.07	0.67
unico	4.4*	2.90	74.43	74.46	74.58	0.011419	1.81	2.14	0.04	0.71
unico	4.2*	4.50	74.33	74.34	74.46	0.009934	1.87	3.47	0.11	0.66
unico	4.2*	4.00	74.31	74.32	74.43	0.009335	1.79	3.22	0.09	0.64
unico	4.2*	3.20	74.26	74.28	74.38	0.009237	1.71	2.60	0.04	0.63
unico	4.2*	2.90	74.30	74.09	74.37	0.005316	1.34	3.10	0.08	0.48
unico	4	4.50	74.15	74.15	74.27	0.008243	1.76	3.71	0.10	0.59
unico	4	4.00	74.12	74.13	74.24	0.008454	1.75	3.28	0.07	0.60
unico	4	3.20	74.08	74.08	74.19	0.007505	1.60	2.75	0.03	0.56
unico	4	2.90	73.81	73.81	74.13	0.025708	2.50	1.16	0.55	1.00
unico	3.9	Culvert								
unico	3	4.50	72.87	71.94	72.88	0.000489	0.53	8.95	0.60	0.13
unico	3	4.00	72.84	71.91	72.85	0.000414	0.49	8.75	0.59	0.12
unico	3	3.20	72.78	71.86	72.79	0.000304	0.41	8.36	0.56	0.10
unico	3	2.90	72.76	71.84	72.77	0.000265	0.38	8.18	0.55	0.09
unico	2.5*	4.50	72.87	71.75	72.87	0.000167	0.36	14.65	0.43	0.10
unico	2.5*	4.00	72.84	71.68	72.84	0.000145	0.33	14.18	0.41	0.09
unico	2.5*	3.20	72.78	71.54	72.79	0.000112	0.28	13.27	0.36	0.08
unico	2.5*	2.90	72.76	71.49	72.76	0.000100	0.26	12.87	0.34	0.08
unico	2	4.50	72.86	71.31	72.87	0.000240	0.36	13.13	0.09	0.12
unico	2	4.00	72.83	71.25	72.84	0.000213	0.33	12.48	0.07	0.12
unico	2	3.20	72.78	71.16	72.79	0.000172	0.29	11.33	0.05	0.10
unico	2	2.90	72.76	71.12	72.76	0.000157	0.27	10.89	0.03	0.10
unico	1.84*	4.50	72.86	71.39	72.86	0.000225	0.33	14.59	0.09	0.11
unico	1.84*	4.00	72.83	71.34	72.84	0.000200	0.30	13.87	0.06	0.11
unico	1.84*	3.20	72.78	71.26	72.78	0.000162	0.26	12.52	0.03	0.09
unico	1.84*	2.90	72.75	71.23	72.76	0.000148	0.25	12.02	0.01	0.09
unico	1.68*	4.50	72.85	71.44	72.86	0.000193	0.31	15.31	0.09	0.11
unico	1.68*	4.00	72.83	71.40	72.83	0.000172	0.29	14.59	0.06	0.10
unico	1.68*	3.20	72.77	71.26	72.78	0.000139	0.25	13.17	0.01	0.09
unico	1.68*	2.90	72.75	71.22	72.75	0.000127	0.23	12.63	0.03	0.09
unico	1.52*	4.50	72.85	71.25	72.85	0.000188	0.31	15.37	0.07	0.11
unico	1.52*	4.00	72.82	71.19	72.83	0.000168	0.29	14.65	0.05	0.10
unico	1.52*	3.20	72.77	71.09	72.77	0.000137	0.25	12.80	0.01	0.09
unico	1.52*	2.90	72.75	71.05	72.75	0.000115	0.23	12.41	0.03	0.08

HEC-RAS Plan: River: piano Reach: unico (Continued)

Reach	River Sta	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Hydr Radius R (m)	Froude # Chl
unico	1.36*	4.50	72.84	71.03	72.85	0.000206	0.32	14.87	0.03	0.11
unico	1.36*	4.00	72.82	70.97	72.82	0.000177	0.30	13.46	0.02	0.11
unico	1.36*	3.20	72.77	70.87	72.77	0.000115	0.25	12.65	0.07	0.09
unico	1.36*	2.90	72.75	70.83	72.75	0.000094	0.23	12.34	0.03	0.08
unico	1.2	4.50	72.84	70.77	72.84	0.000201	0.34	13.35	0.00	0.12
unico	1.2	4.00	72.81	70.71	72.82	0.000155	0.31	12.99	0.10	0.10
unico	1.2	3.20	72.77	70.61	72.77	0.000091	0.26	12.39	0.07	0.08
unico	1.2	2.90	72.74	70.57	72.75	0.000076	0.24	12.16	0.03	0.07
unico	1.1	Bridge								
unico	1	4.50	70.77	70.77	71.08	0.019186	2.48	1.81	0.00	1.00
unico	1	4.00	70.71	70.71	71.01	0.019278	2.41	1.66	0.10	1.00
unico	1	3.20	70.61	70.61	70.88	0.019595	2.30	1.39	0.07	1.00
unico	1	2.90	70.57	70.57	70.83	0.020230	2.27	1.28	0.03	1.01

Corso d'acqua :**Borro della Zufola** (pagine 39-47)

Eventi: Durata 0.6 ore (critica) → Tr200

Tr100

Tr30

Tr20

HEC-RAS Plan: SA_200 River: zufola Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	6	Max WS	11.52	73.81	74.10	74.50	72.20	0.039687	3.69	3.14	0.53	1.28
unico	5.85714*	Max WS	11.47	73.51	73.59	74.04	71.95	0.028306	3.23	3.55	0.67	1.12
unico	5.71428*	Max WS	11.15	73.34	73.19	73.65	71.70	0.013632	2.44	4.58	0.76	0.81
unico	5.57142*	Max WS	11.20	73.44	72.83	73.56	71.45	0.004119	1.53	7.31	0.93	0.46
unico	5.42857*	Max WS	11.20	73.48	72.47	73.54	71.20	0.001719	1.08	10.34	1.07	0.31
unico	5.28571*	Max WS	11.23	73.49	72.12	73.53	70.95	0.000845	0.81	13.82	1.18	0.22
unico	5.14285*	Max WS	11.23	73.50	71.78	73.52	70.70	0.000451	0.63	17.86	1.23	0.17
unico	5	Max WS	11.22	73.50	71.44	73.52	70.45	0.000239	0.50	23.04	0.94	0.12
unico	4.8	Max WS	11.21	73.50		73.52	70.45	0.000239	0.50	23.00	0.95	0.12
unico	4.7			Culvert								
unico	4.5	Max WS	11.21	71.46	71.44	71.81	70.45	0.018373	2.61	4.30	0.68	0.96
unico	4	Max WS	11.18	71.32	71.24	71.61	70.35	0.014824	2.38	4.71	0.69	0.87
unico	3.83333*	Max WS	11.15	71.33	71.01	71.49	70.07	0.006595	1.80	6.20	0.83	0.59
unico	3.66666*	Max WS	11.17	71.35	70.77	71.45	69.79	0.003367	1.42	7.84	0.97	0.43
unico	3.5*	Max WS	11.17	71.36	70.53	71.43	69.52	0.001961	1.18	9.49	0.89	0.33
unico	3.33333*	Max WS	11.17	71.37	70.29	71.42	69.24	0.001153	0.98	12.04	0.85	0.26
unico	3.16666*	Max WS	11.17	71.38	70.05	71.41	68.96	0.000716	0.83	14.59	0.89	0.20
unico	3	Max WS	11.17	71.39	69.80	71.40	68.68	0.000386	0.65	20.17	0.99	0.15
unico	2.95	Max WS	11.16	71.38		71.40	68.68	0.000490	0.73	16.27	1.09	0.17
unico	2.9			Culvert								
unico	2.85	Max WS	11.16	70.23	69.80	70.39	68.68	0.005622	1.74	6.40	0.90	0.54
unico	2.7	Max WS	11.16	70.20	69.80	70.36	68.68	0.006139	1.80	6.20	0.88	0.56
unico	2.69999			Lat Struct								
unico	2.68332*	Max WS	10.28	70.16	69.79	70.33	68.61	0.006661	1.82	5.65	0.84	0.58
unico	2.66666*	Max WS	9.57	70.11	69.78	70.28	68.55	0.007149	1.82	5.25	0.80	0.60
unico	2.64999*	Max WS	9.02	70.08	69.74	70.23	68.48	0.006519	1.75	5.16	0.81	0.56
unico	2.63333*	Max WS	8.56	70.05	69.60	70.19	68.41	0.005594	1.65	5.17	0.83	0.50
unico	2.61666*	Max WS	8.12	70.04	69.41	70.15	68.35	0.004366	1.52	5.56	0.63	0.42
unico	2.6	Max WS	7.60	70.04	69.15	70.13	68.28	0.003085	1.32	6.27	0.65	0.32
unico	2.59	Max WS	7.60	70.04		70.12	68.05	0.002867	1.24	6.57	0.61	0.29
unico	2.5			Culvert								
unico	2.45	Max WS	7.59	68.35	68.16	68.51	67.30	0.006341	1.80	4.21	0.64	0.69
unico	2.4	Max WS	7.58	68.27	68.31	68.59	67.52	0.017214	2.49	3.05	0.50	1.10
unico	2.39999			Lat Struct								
unico	2.3999			Lat Struct								
unico	2.35466*	Max WS	7.80	68.11	68.16	68.45	67.28	0.019061	2.59	3.01	0.49	1.15
unico	2.31033*	Max WS	8.06	67.92	68.00	68.30	67.04	0.021165	2.71	2.98	0.48	1.21
unico	2.266*	Max WS	8.32	67.72	67.81	68.13	66.80	0.024114	2.86	2.91	0.47	1.28
unico	2.22166*	Max WS	8.59	67.48	67.61	67.95	66.56	0.026497	3.03	2.83	0.48	1.33
unico	2.17733*	Max WS	8.86	67.25	67.38	67.73	66.31	0.025293	3.09	2.87	0.51	1.29
unico	2.133*	Max WS	9.13	67.05	67.11	67.46	66.07	0.018747	2.84	3.21	0.57	1.11
unico	2.08866*	Max WS	9.41	66.92	66.82	67.20	65.83	0.010771	2.35	4.00	0.65	0.85
unico	2.04433*	Max WS	9.82	66.95	66.52	67.10	65.59	0.004317	1.69	5.80	0.78	0.55
unico	2	Max WS	10.76	66.95	66.26	67.05	65.35	0.002474	1.41	7.64	0.90	0.42
unico	1.95	Max WS	10.76	67.00	65.27	67.04	64.35	0.000391	0.87	12.32	1.16	0.21
unico	1.9			Bridge								
unico	1.8	Max WS	10.76	66.83	65.11	66.87	64.20	0.000423	0.91	11.85	1.16	0.21
unico	1.6	Max WS	10.76	66.82	65.01	66.87	63.90	0.000407	0.94	11.41	1.26	0.20
unico	1.5			Bridge								
unico	1.4	Max WS	10.76	66.71	65.02	66.76	63.80	0.000474	1.01	10.70	1.24	0.22
unico	1	Max WS	10.76	66.71		66.76	63.80	0.000474	1.01	10.70	1.24	0.22
unico	0.95			Culvert								
unico	0.9	Max WS	10.72	66.00	65.02	66.11	63.80	0.001248	1.45	7.39	1.04	0.36
unico	0.5	Max WS	0.87	66.00	64.12	66.00	63.80	0.000008	0.12	7.37	1.04	0.03

HEC-RAS Plan: SA_200 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
zu_sx02	Max WS	69.66	69.40	0.11
zu_sx01	Max WS	69.08	67.50	1.49
zu_dx01	Max WS	68.30	67.70	0.05

HEC-RAS Plan: SA_tr100 River: zufola Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	6	Max WS	8.68	73.62	73.80	74.26	72.20	0.043562	3.54	2.45	0.56	1.32
unico	5.85714*	Max WS	8.67	73.25	73.40	73.85	71.95	0.040198	3.44	2.52	0.57	1.30
unico	5.71428*	Max WS	8.56	72.93	73.02	73.43	71.70	0.032080	3.13	2.73	0.59	1.19
unico	5.57142*	Max WS	8.51	72.72	72.66	73.03	71.45	0.017561	2.48	3.43	0.65	0.91
unico	5.42857*	Max WS	8.47	72.76	72.31	72.88	71.20	0.004874	1.53	5.52	0.82	0.50
unico	5.28571*	Max WS	8.48	72.80	71.97	72.86	70.95	0.001739	1.04	8.13	1.00	0.31
unico	5.14285*	Max WS	8.48	72.82	71.63	72.85	70.70	0.000763	0.77	11.08	1.17	0.21
unico	5	Max WS	8.48	72.82	71.30	72.84	70.45	0.000378	0.59	14.43	1.33	0.15
unico	4.8	Max WS	8.48	72.82		72.84	70.45	0.000380	0.59	14.40	1.33	0.15
unico	4.7			Culvert								
unico	4.5	Max WS	8.48	71.32	71.30	71.62	70.45	0.018635	2.42	3.51	0.60	0.95
unico	4	Max WS	8.46	71.17	71.11	71.42	70.35	0.015867	2.23	3.79	0.60	0.88
unico	3.83333*	Max WS	8.45	71.17	70.87	71.30	70.07	0.006346	1.64	5.16	0.74	0.57
unico	3.66666*	Max WS	8.45	71.19	70.63	71.27	69.79	0.002960	1.26	6.72	0.89	0.40
unico	3.5*	Max WS	8.46	71.19	70.38	71.25	69.52	0.001637	1.02	8.28	1.01	0.30
unico	3.33333*	Max WS	8.45	71.20	70.15	71.24	69.24	0.000994	0.86	9.91	0.79	0.23
unico	3.16666*	Max WS	8.45	71.20	69.89	71.23	68.96	0.000604	0.72	12.41	0.87	0.18
unico	3	Max WS	8.45	71.21	69.65	71.22	68.68	0.000384	0.61	14.91	1.01	0.15
unico	2.95	Max WS	8.45	71.20		71.22	68.68	0.000399	0.62	14.29	1.11	0.15
unico	2.9			Culvert								
unico	2.85	Max WS	8.45	70.16	69.65	70.26	68.68	0.003885	1.41	5.98	0.86	0.44
unico	2.7	Max WS	8.45	70.14	69.65	70.25	68.68	0.004102	1.44	5.86	0.85	0.46
unico	2.69999			Lat Struct								
unico	2.68332*	Max WS	7.93	70.10	69.65	70.22	68.61	0.004600	1.48	5.35	0.82	0.48
unico	2.66666*	Max WS	7.53	70.06	69.65	70.18	68.55	0.005105	1.51	4.98	0.78	0.50
unico	2.64999*	Max WS	7.25	70.03	69.62	70.14	68.48	0.004879	1.48	4.90	0.78	0.49
unico	2.63333*	Max WS	7.05	69.99	69.51	70.10	68.41	0.004361	1.43	4.92	0.81	0.44
unico	2.61666*	Max WS	6.91	69.97	69.33	70.06	68.35	0.003839	1.38	5.11	0.60	0.39
unico	2.6	Max WS	6.79	69.95	69.09	70.03	68.28	0.003128	1.28	5.66	0.61	0.32
unico	2.59	Max WS	6.79	69.95		70.02	68.05	0.002748	1.19	6.00	0.62	0.28
unico	2.5			Culvert								
unico	2.45	Max WS	6.79	68.30	68.12	68.45	67.30	0.006167	1.73	3.94	0.62	0.67
unico	2.4	Max WS	6.79	68.23	68.27	68.53	67.52	0.017997	2.44	2.78	0.47	1.11
unico	2.39999			Lat Struct								
unico	2.3999			Lat Struct								
unico	2.35466*	Max WS	6.79	68.05	68.11	68.38	67.28	0.020176	2.52	2.70	0.45	1.17
unico	2.31033*	Max WS	6.79	67.86	67.93	68.20	67.04	0.022532	2.61	2.60	0.43	1.23
unico	2.266*	Max WS	6.79	67.63	67.73	68.02	66.80	0.026479	2.77	2.46	0.42	1.32
unico	2.22166*	Max WS	6.79	67.38	67.51	67.82	66.56	0.029443	2.96	2.30	0.43	1.38
unico	2.17733*	Max WS	6.79	67.10	67.24	67.59	66.31	0.031518	3.11	2.18	0.44	1.41
unico	2.133*	Max WS	6.78	66.82	66.95	67.30	66.07	0.028518	3.06	2.21	0.46	1.33
unico	2.08866*	Max WS	6.78	66.63	66.64	66.96	65.83	0.016775	2.56	2.64	0.53	1.03
unico	2.04433*	Max WS	6.80	66.53	66.33	66.71	65.59	0.007194	1.90	3.58	0.63	0.68
unico	2	Max WS	7.15	66.57	66.05	66.66	65.35	0.002794	1.35	5.31	0.77	0.43
unico	1.95	Max WS	7.15	66.63	65.06	66.65	64.35	0.000288	0.72	9.92	1.10	0.17
unico	1.9			Bridge								
unico	1.8	Max WS	7.15	66.46	64.89	66.49	64.20	0.000290	0.73	9.73	1.12	0.17
unico	1.6	Max WS	7.15	66.45	64.75	66.48	63.90	0.000283	0.75	9.59	1.16	0.17
unico	1.5			Bridge								
unico	1.4	Max WS	7.15	66.34	64.77	66.37	63.80	0.000339	0.80	8.90	1.14	0.19
unico	1	Max WS	7.15	66.34		66.37	63.80	0.000339	0.80	8.90	1.14	0.19
unico	0.95			Culvert								
unico	0.9	Max WS	6.92	66.00	64.75	66.05	63.80	0.000520	0.94	7.38	1.04	0.23
unico	0.5	Max WS	1.69	66.00	64.24	66.00	63.80	0.000031	0.23	7.37	1.04	0.06

HEC-RAS Plan: SA_tr100 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
zu_dx01	Max WS	68.23	67.70	0.04
zu_sx01	Max WS	69.00	67.50	1.15
zu_sx02	Max WS	69.58	69.40	0.03

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	6	Max WS	8.23	73.59	73.76	74.21	72.20	0.043662	3.50	2.35	0.55	1.31
unico	5.85714*	Max WS	8.23	73.22	73.37	73.81	71.95	0.040416	3.40	2.42	0.56	1.30
unico	5.71428*	Max WS	8.20	72.90	73.00	73.39	71.70	0.032934	3.13	2.62	0.57	1.20
unico	5.57142*	Max WS	8.18	72.68	72.64	73.00	71.45	0.018800	2.52	3.24	0.63	0.93
unico	5.42857*	Max WS	8.13	72.68	72.29	72.81	71.20	0.005711	1.61	5.05	0.79	0.53
unico	5.28571*	Max WS	8.12	72.72	71.94	72.78	70.95	0.001916	1.07	7.59	0.97	0.32
unico	5.14285*	Max WS	8.11	72.74	71.60	72.77	70.70	0.000816	0.78	10.46	1.13	0.21
unico	5	Max WS	8.11	72.74	71.27	72.76	70.45	0.000396	0.59	13.72	1.30	0.15
unico	4.8	Max WS	8.10	72.74		72.76	70.45	0.000398	0.59	13.69	1.29	0.15
unico	4.7			Culvert								
unico	4.5	Max WS	8.10	71.30	71.27	71.59	70.45	0.018661	2.39	3.40	0.58	0.95
unico	4	Max WS	8.09	71.14	71.09	71.39	70.35	0.016153	2.21	3.65	0.58	0.88
unico	3.83333*	Max WS	8.06	71.14	70.85	71.27	70.07	0.006352	1.61	5.00	0.73	0.57
unico	3.66666*	Max WS	8.08	71.16	70.61	71.24	69.79	0.002914	1.23	6.54	0.87	0.39
unico	3.5*	Max WS	8.07	71.17	70.36	71.22	69.52	0.001592	1.00	8.09	1.00	0.29
unico	3.33333*	Max WS	8.07	71.17	70.12	71.21	69.24	0.000964	0.84	9.67	1.12	0.23
unico	3.16666*	Max WS	8.07	71.18	69.87	71.20	68.96	0.000587	0.70	12.06	0.85	0.18
unico	3	Max WS	8.07	71.18	69.62	71.20	68.68	0.000371	0.60	14.56	0.99	0.15
unico	2.95	Max WS	8.07	71.18		71.19	68.68	0.000384	0.61	13.99	1.09	0.15
unico	2.9			Culvert								
unico	2.85	Max WS	8.07	70.15	69.62	70.24	68.68	0.003650	1.36	5.92	0.86	0.43
unico	2.7	Max WS	8.07	70.13	69.62	70.23	68.68	0.003840	1.39	5.81	0.85	0.44
unico	2.69999			Lat Struct								
unico	2.68332*	Max WS	7.60	70.09	69.63	70.20	68.61	0.004338	1.43	5.30	0.81	0.47
unico	2.66666*	Max WS	7.25	70.05	69.63	70.16	68.55	0.004864	1.47	4.93	0.77	0.49
unico	2.64999*	Max WS	7.01	70.02	69.60	70.12	68.48	0.004703	1.45	4.85	0.77	0.48
unico	2.63333*	Max WS	6.86	69.98	69.50	70.08	68.41	0.004242	1.41	4.87	0.80	0.44
unico	2.61666*	Max WS	6.76	69.95	69.32	70.05	68.35	0.003795	1.36	5.02	0.62	0.39
unico	2.6	Max WS	6.69	69.93	69.08	70.01	68.28	0.003161	1.28	5.56	0.61	0.32
unico	2.59	Max WS	6.69	69.94		70.01	68.05	0.002743	1.18	5.91	0.62	0.28
unico	2.5			Culvert								
unico	2.45	Max WS	6.69	68.29	68.11	68.44	67.30	0.006114	1.71	3.91	0.61	0.67
unico	2.4	Max WS	6.69	68.22	68.26	68.52	67.52	0.017958	2.43	2.75	0.46	1.11
unico	2.39999			Lat Struct								
unico	2.3999			Lat Struct								
unico	2.35466*	Max WS	6.69	68.05	68.10	68.37	67.28	0.020185	2.51	2.67	0.44	1.17
unico	2.31033*	Max WS	6.69	67.85	67.92	68.20	67.04	0.022563	2.60	2.57	0.43	1.23
unico	2.266*	Max WS	6.69	67.63	67.73	68.02	66.80	0.026509	2.76	2.43	0.42	1.32
unico	2.22166*	Max WS	6.69	67.37	67.50	67.82	66.56	0.029485	2.95	2.27	0.43	1.38
unico	2.17733*	Max WS	6.69	67.09	67.24	67.58	66.31	0.031740	3.10	2.15	0.44	1.41
unico	2.133*	Max WS	6.68	66.81	66.95	67.30	66.07	0.029183	3.08	2.17	0.46	1.35
unico	2.08866*	Max WS	6.68	66.61	66.63	66.95	65.83	0.017673	2.60	2.57	0.52	1.05
unico	2.04433*	Max WS	6.69	66.51	66.33	66.70	65.59	0.007582	1.93	3.47	0.62	0.70
unico	2	Max WS	7.00	66.55	66.04	66.64	65.35	0.002803	1.34	5.21	0.76	0.43
unico	1.95	Max WS	7.00	66.61	65.05	66.63	64.35	0.000282	0.71	9.81	1.09	0.17
unico	1.9			Bridge								
unico	1.8	Max WS	7.00	66.44	64.88	66.47	64.20	0.000283	0.73	9.64	1.12	0.17
unico	1.6	Max WS	7.00	66.44	64.74	66.46	63.90	0.000278	0.74	9.51	1.16	0.17
unico	1.5			Bridge								
unico	1.4	Max WS	7.00	66.32	64.76	66.35	63.80	0.000332	0.79	8.83	1.13	0.18
unico	1	Max WS	7.00	66.32		66.35	63.80	0.000332	0.79	8.83	1.13	0.18
unico	0.95			Culvert								
unico	0.9	Max WS	6.96	66.00	64.75	66.05	63.80	0.000527	0.94	7.38	1.04	0.23
unico	0.5	Max WS	0.87	66.00	64.12	66.00	63.80	0.000008	0.12	7.37	1.04	0.03

HEC-RAS Plan: SA_tr30 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
zu_sx02	Max WS	69.55	69.40	0.02
zu_sx01	Max WS	68.86	67.50	0.73
zu_dx01	Max WS	68.21	67.70	0.03

HEC-RAS Plan: SA_tr20 River: zufola Reach: unico Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
unico	6	Max WS	7.62	73.55	73.71	74.15	72.20	0.043469	3.43	2.22	0.53	1.31
unico	5.85714*	Max WS	7.62	73.18	73.33	73.75	71.95	0.040818	3.35	2.28	0.54	1.30
unico	5.71428*	Max WS	7.60	72.84	72.96	73.35	71.70	0.035402	3.15	2.41	0.55	1.24
unico	5.57142*	Max WS	7.59	72.60	72.60	72.95	71.45	0.021744	2.61	2.91	0.59	1.00
unico	5.42857*	Max WS	7.51	72.54	72.25	72.70	71.20	0.007339	1.73	4.35	0.73	0.60
unico	5.28571*	Max WS	7.51	72.60	71.90	72.66	70.95	0.002232	1.11	6.78	0.91	0.34
unico	5.14285*	Max WS	7.51	72.61	71.57	72.65	70.70	0.000905	0.79	9.51	1.08	0.22
unico	5	Max WS	7.51	72.62	71.24	72.64	70.45	0.000424	0.59	12.63	1.24	0.16
unico	4.8	Max WS	7.51	72.62		72.64	70.45	0.000427	0.60	12.60	1.24	0.16
unico	4.7			Culvert								
unico	4.5	Max WS	7.51	71.26	71.24	71.54	70.45	0.018742	2.34	3.21	0.56	0.94
unico	4	Max WS	7.49	71.10	71.05	71.35	70.35	0.016784	2.19	3.42	0.56	0.90
unico	3.83333*	Max WS	7.47	71.09	70.81	71.22	70.07	0.006465	1.59	4.71	0.70	0.57
unico	3.66666*	Max WS	7.47	71.11	70.57	71.18	69.79	0.002860	1.20	6.23	0.85	0.39
unico	3.5*	Max WS	7.47	71.12	70.33	71.17	69.52	0.001529	0.96	7.75	0.98	0.29
unico	3.33333*	Max WS	7.47	71.12	70.08	71.15	69.24	0.000913	0.80	9.31	1.09	0.22
unico	3.16666*	Max WS	7.47	71.13	69.84	71.15	68.96	0.000563	0.68	11.45	0.81	0.18
unico	3	Max WS	7.47	71.13	69.58	71.14	68.68	0.000354	0.57	13.93	0.96	0.14
unico	2.95	Max WS	7.47	71.13		71.14	68.68	0.000363	0.58	13.46	1.06	0.14
unico	2.9			Culvert								
unico	2.85	Max WS	7.47	70.13	69.59	70.21	68.68	0.003288	1.29	5.81	0.85	0.41
unico	2.7	Max WS	7.47	70.11	69.59	70.20	68.68	0.003438	1.31	5.72	0.84	0.42
unico	2.69999			Lat Struct								
unico	2.68332*	Max WS	7.09	70.08	69.59	70.17	68.61	0.003944	1.36	5.21	0.81	0.44
unico	2.66666*	Max WS	6.82	70.04	69.60	70.14	68.55	0.004508	1.41	4.84	0.77	0.47
unico	2.64999*	Max WS	6.65	70.00	69.58	70.10	68.48	0.004466	1.40	4.76	0.77	0.46
unico	2.63333*	Max WS	6.56	69.96	69.48	70.06	68.41	0.004097	1.37	4.78	0.79	0.43
unico	2.61666*	Max WS	6.53	69.93	69.30	70.02	68.35	0.003752	1.34	4.90	0.67	0.38
unico	2.6	Max WS	6.52	69.91	69.07	69.99	68.28	0.003223	1.27	5.39	0.60	0.32
unico	2.59	Max WS	6.52	69.91		69.98	68.05	0.002737	1.17	5.76	0.62	0.28
unico	2.5			Culvert								
unico	2.45	Max WS	6.52	68.28	68.10	68.43	67.30	0.006038	1.69	3.85	0.61	0.67
unico	2.4	Max WS	6.52	68.21	68.25	68.51	67.52	0.017894	2.41	2.71	0.46	1.11
unico	2.39999			Lat Struct								
unico	2.3999			Lat Struct								
unico	2.35466*	Max WS	6.52	68.04	68.09	68.35	67.28	0.020158	2.48	2.62	0.44	1.17
unico	2.31033*	Max WS	6.52	67.84	67.91	68.18	67.04	0.022570	2.58	2.53	0.43	1.23
unico	2.266*	Max WS	6.52	67.62	67.72	68.00	66.80	0.026528	2.74	2.38	0.41	1.32
unico	2.22166*	Max WS	6.52	67.36	67.49	67.80	66.56	0.029547	2.93	2.23	0.42	1.38
unico	2.17733*	Max WS	6.52	67.08	67.22	67.57	66.31	0.032057	3.09	2.11	0.43	1.42
unico	2.133*	Max WS	6.52	66.80	66.93	67.29	66.07	0.030227	3.10	2.10	0.45	1.37
unico	2.08866*	Max WS	6.51	66.58	66.62	66.94	65.83	0.019283	2.66	2.44	0.60	1.10
unico	2.04433*	Max WS	6.51	66.47	66.31	66.67	65.59	0.008247	1.97	3.30	0.81	0.73
unico	2	Max WS	6.71	66.52	66.02	66.61	65.35	0.002784	1.33	5.06	0.76	0.43
unico	1.95	Max WS	6.71	66.58	65.03	66.60	64.35	0.000270	0.70	9.65	1.09	0.17
unico	1.9			Bridge								
unico	1.8	Max WS	6.71	66.41	64.87	66.44	64.20	0.000269	0.71	9.50	1.12	0.16
unico	1.6	Max WS	6.71	66.41	64.72	66.43	63.90	0.000266	0.72	9.37	1.15	0.16
unico	1.5			Bridge								
unico	1.4	Max WS	6.71	66.29	64.73	66.32	63.80	0.000317	0.77	8.71	1.13	0.18
unico	1	Max WS	6.71	66.29		66.32	63.80	0.000317	0.77	8.70	1.13	0.18
unico	0.95			Culvert								
unico	0.9	Max WS	6.63	66.00	64.73	66.04	63.80	0.000478	0.90	7.38	1.04	0.22
unico	0.5	Max WS	0.87	66.00	64.12	66.00	63.80	0.000008	0.12	7.37	1.04	0.03

HEC-RAS Plan: SA_tr20 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
zu_sx02	Max WS	69.57	69.40	0.03
zu_sx01	Max WS	68.71	67.50	0.41
zu_dx01	Max WS	68.20	67.70	0.03

Corso d'acqua :**Borro del Vicariato** (pagine 48-80)

Eventi: Durata 1 ora (critica) → Tr200

Tr100

Tr30

Tr20

Durata 3 ore → Tr200

Tr100

Tr30

Tr20

Durata 6 ore → Tr200

Tr20

Durata 9 ore → Tr200

Tr100

Tr30

Tr20

Durata 12 ore → Tr200

Tr20

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	7.73	73.89	73.91	74.41	72.82	0.027987	3.19	2.45	0.49	1.32
cassa	48.999	Max WS	7.73	73.88	74.03	74.42	72.82	0.033049	3.24	2.39	0.49	1.34
cassa	48.99		Lat Struct									
cassa	48	Max WS	2.48	72.54		72.66	71.59	0.010310	1.57	1.58	0.38	0.73
cassa	47	Max WS	6.56	71.67		71.98	70.14	0.011293	2.60	2.86	0.56	0.78
cassa	46.4	Max WS	7.75	71.57	71.67	72.12	70.14	0.022417	3.44	2.49	0.52	1.08
cassa	46	Max WS	7.71	71.03	71.00	71.40	69.41	0.017815	2.68	2.87	0.59	0.95
cassa	45	Max WS	7.68	69.52	69.68	70.11	68.50	0.032941	3.39	2.26	0.53	1.37
cassa	44	Max WS	7.68	68.56		68.77	67.42	0.008854	2.01	3.81	0.65	0.74
cassa	43	Max WS	7.59	67.90		67.95	66.06	0.001260	0.99	7.68	0.96	0.29
cassa	42	Max WS	7.59	67.79		67.83	65.85	0.001061	0.98	8.41	0.77	0.27
cassa	41	Max WS	7.57	67.71		67.74	65.47	0.000765	0.80	9.45	1.02	0.24
cassa	40	Max WS	7.57	67.71		67.73	65.50	0.000314	0.65	11.59	1.16	0.18
cassa	39	Max WS	15.99	67.35		67.53	65.48	0.003188	1.88	8.49	1.00	0.55
cassa	38	Max WS	15.99	67.37		67.49	65.06	0.001823	1.53	10.48	1.11	0.42
cassa	37.9		Culvert									
cassa	37	Max WS	15.98	66.41	66.31	66.80	64.80	0.010355	2.76	5.78	0.74	0.95
cassa	36	Max WS	15.96	65.95	66.20	66.68	64.71	0.019471	3.79	4.21	0.73	1.30
cassa	35	Max WS	15.95	65.88		65.95	63.50	0.000819	1.14	14.87	0.90	0.29
cassa	34.9		Culvert									
cassa	34.5	Max WS	15.78	65.51		65.62	63.50	0.001944	1.47	10.74	0.97	0.44
cassa	34	Max WS	15.68	65.44		65.58	63.67	0.002922	1.71	9.18	0.92	0.53
cassa	33	Max WS	18.40	64.83		64.98	63.12	0.004342	1.71	10.76	0.69	0.64
cassa	32	Max WS	18.45	64.70		64.85	62.85	0.004504	1.70	10.84	0.66	0.64
cassa	31	Max WS	18.56	64.52		64.65	62.37	0.003372	1.57	11.80	0.73	0.56
cassa	30	Max WS	18.89	64.15		64.31	62.24	0.004193	1.79	10.56	0.75	0.63
cassa	29.9	Max WS	18.91	64.11	63.89	64.29	62.24	0.004808	1.88	10.06	0.73	0.67
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	18.91	63.33		63.71	61.24	0.006528	2.71	6.99	1.01	0.70
cassa	29	Max WS	18.91	63.49		63.68	61.10	0.002724	1.93	9.79	1.17	0.43
cassa	28.9		Culvert									
cassa	28	Max WS	18.43	62.88		63.09	61.02	0.003305	2.04	9.03	1.10	0.55
cassa	27.99		Lat Struct									
cassa	27	Max WS	18.60	62.86		63.03	60.82	0.002400	1.82	10.22	1.18	0.48
cassa	26	Max WS	18.96	62.74		62.89	60.47	0.002089	1.75	10.87	1.23	0.45
cassa	25	Max WS	19.27	62.55		62.75	60.33	0.003071	2.01	9.61	1.11	0.54
cassa	24	Max WS	19.33	62.57		62.72	60.33	0.001805	1.67	11.60	1.27	0.42
cassa	23.9		Culvert									
cassa	23.5	Max WS	19.24	62.40		62.57	60.33	0.002432	1.85	10.39	1.20	0.48
cassa	23.499		Lat Struct									
cassa	23	Max WS	19.60	62.20		62.40	59.97	0.002942	1.98	9.91	1.14	0.53
cassa	22	Max WS	19.69	62.10		62.24	59.81	0.001868	1.68	11.77	1.04	0.43
cassa	21	Max WS	19.85	61.98		62.13	59.73	0.002008	1.70	11.67	1.10	0.45
cassa	20	Max WS	19.41	61.86		61.98	59.63	0.001464	1.53	13.93	0.61	0.40
cassa	19	Max WS	19.43	61.80		61.89	59.32	0.001021	1.35	15.30	0.87	0.33
cassa	18	Max WS	20.28	61.81	60.52	61.88	59.14	0.000855	1.17	17.34	1.31	0.30
cassa	17.9		Bridge									
cassa	17.5	Max WS	20.28	61.79		61.86	59.14	0.000987	1.22	17.09	1.30	0.28
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	19.21	61.70		61.81	59.10	0.001876	1.50	12.80	1.33	0.37
cassa	16	Max WS	16.12	61.58		61.70	59.05	0.002262	1.57	12.10	0.64	0.39
cassa	15	Max WS	15.63	61.60		61.67	58.99	0.001359	1.29	14.47	0.71	0.30
cassa	14.9		Culvert									
cassa	14.5	Max WS	15.54	61.41		61.52	58.99	0.002132	1.51	11.42	0.64	0.37
cassa	14.499		Lat Struct									
cassa	14	Max WS	15.50	61.34		61.46	58.89	0.002223	1.54	10.94	0.64	0.39
cassa	13	Max WS	11.90	61.30		61.36	58.71	0.001088	1.12	12.66	0.65	0.27
cassa	12	Max WS	9.86	61.33		61.36	58.60	0.000469	0.79	14.71	0.74	0.18
cassa	11.8		Culvert									
cassa	11.6	Max WS	9.28	61.22		61.25	58.60	0.000537	0.82	12.86	0.68	0.19
cassa	11.599		Lat Struct									
cassa	11	Max WS	8.78	61.22		61.25	58.66	0.000522	0.77	13.80	0.72	0.19
cassa	10	Max WS	15.34	60.81		61.05	58.51	0.005488	2.18	7.05	1.00	0.57
cassa	9	Max WS	17.57	60.94	59.50	60.99	58.17	0.000626	0.90	19.45	1.42	0.22
cassa	8.9		Bridge									
cassa	8.8	Max WS	17.57	60.73		60.83	58.40	0.001885	1.42	12.36	1.23	0.36
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	17.55	60.61		60.82	58.21	0.004217	2.03	8.64	1.12	0.51
cassa	8	Max WS	17.05	60.56		60.77	58.21	0.004340	2.03	8.40	1.10	0.52
cassa	7	Max WS	1.86	60.35		60.35	57.99	0.000069	0.24	7.68	1.02	0.07
cassa	6	Max WS	1.33	60.35		60.35	57.76	0.000020	0.14	9.18	1.14	0.04
cassa	5.5	Max WS	0.30	60.35		60.35	57.26	0.000000	0.03	11.96	1.31	0.01
cassa	5	Max WS	0.15	60.35	56.97	60.35	56.75	0.000000	0.01	16.31	1.47	0.00
cassa	4.5		Bridge									
cassa	4.3	Max WS	0.15	60.35		60.35	56.75	0.000000	0.01	16.32	1.27	0.00
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	0.15	60.35		60.35	56.75	0.000000	0.01	16.32	1.27	0.00
cassa	3	Max WS	0.15	60.35		60.35	55.96	0.000000	0.01	27.16	1.69	0.00
cassa	2	Max WS	0.00	60.35		60.35	55.35	0.000000	0.00	38.21	2.10	0.00
cassa	1.6	Max WS	0.00	60.35	55.31	60.35	55.30	0.000000	0.00	44.19	2.39	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.64		61.64	55.26	0.000000	0.00	63.90	3.00	0.00
cassa	1	Max WS	0.00	61.64	55.22	61.64	55.21	0.000000	0.00	64.41	3.02	0.00

HEC-RAS Plan: Vic_T200_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.91	70.77	0.53
dx1	Max WS	59.13	55.00	18.33
dx2	Max WS	61.22	59.60	11.36
dx3	Max WS	59.23	57.80	4.60
sx1	Max WS	60.35	55.25	9.12
sx2	Max WS	61.82	58.80	2.83

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	6.92	73.86	73.91	74.32	72.82	0.026471	3.02	2.32	0.48	1.28
cassa	48.999	Max WS	6.92	73.85	73.97	74.33	72.82	0.031617	3.09	2.24	0.47	1.31
cassa	48.99		Lat Struct									
cassa	48	Max WS	2.42	72.53		72.65	71.59	0.010290	1.56	1.56	0.38	0.72
cassa	47	Max WS	5.90	71.61		71.90	70.14	0.011159	2.49	2.66	0.54	0.77
cassa	46.4	Max WS	6.97	71.51	71.60	72.03	70.14	0.022509	3.32	2.31	0.50	1.08
cassa	46	Max WS	6.93	70.97	70.93	71.31	69.41	0.017667	2.60	2.66	0.57	0.94
cassa	45	Max WS	6.91	69.48	69.62	70.02	68.50	0.032029	3.26	2.12	0.51	1.34
cassa	44	Max WS	6.90	68.48		68.69	67.42	0.010029	2.04	3.39	0.60	0.78
cassa	43	Max WS	6.81	67.79		67.84	66.06	0.001339	0.98	6.95	0.91	0.30
cassa	42	Max WS	6.81	67.66		67.71	65.85	0.001186	0.99	7.26	0.75	0.28
cassa	41	Max WS	6.80	67.57		67.61	65.47	0.000847	0.81	8.39	0.96	0.25
cassa	40	Max WS	6.79	67.57		67.60	65.50	0.000333	0.65	10.45	1.10	0.18
cassa	39	Max WS	14.37	67.20		67.39	65.48	0.003352	1.92	7.49	0.99	0.56
cassa	38	Max WS	14.37	67.22		67.34	65.06	0.002044	1.54	9.33	1.03	0.44
cassa	37.9		Culvert									
cassa	37	Max WS	14.36	66.31		66.71	64.80	0.009062	2.79	5.14	0.83	0.89
cassa	36	Max WS	14.35	65.85	66.06	66.61	64.71	0.022172	3.86	3.72	0.69	1.37
cassa	35	Max WS	14.33	65.75		65.82	63.50	0.000864	1.13	13.10	0.92	0.30
cassa	34.9		Culvert									
cassa	34.5	Max WS	14.20	65.44		65.54	63.50	0.001785	1.40	10.14	0.99	0.42
cassa	34	Max WS	14.04	65.38		65.51	63.67	0.002646	1.62	8.67	0.92	0.51
cassa	33	Max WS	16.81	64.78		64.92	63.12	0.004394	1.67	10.06	0.66	0.63
cassa	32	Max WS	16.83	64.65		64.79	62.85	0.004696	1.68	10.04	0.63	0.65
cassa	31	Max WS	16.88	64.46		64.58	62.37	0.003494	1.55	10.90	0.70	0.57
cassa	30	Max WS	17.04	64.08		64.24	62.24	0.004362	1.76	9.67	0.72	0.64
cassa	29.9	Max WS	17.05	64.04	63.84	64.22	62.24	0.005087	1.86	9.16	0.69	0.68
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	17.03	63.13		63.53	61.24	0.007679	2.80	6.07	0.94	0.76
cassa	29	Max WS	17.04	63.30		63.49	61.10	0.002842	1.91	8.91	1.12	0.44
cassa	28.9		Culvert									
cassa	28	Max WS	16.80	62.74		62.96	61.02	0.003660	2.07	8.13	1.04	0.58
cassa	27.99		Lat Struct									
cassa	27	Max WS	16.92	62.72		62.89	60.82	0.002577	1.82	9.29	1.12	0.49
cassa	26	Max WS	17.06	62.60		62.75	60.47	0.002173	1.72	9.90	1.17	0.46
cassa	25	Max WS	17.15	62.41		62.61	60.33	0.003243	1.98	8.64	1.07	0.55
cassa	24	Max WS	17.26	62.43		62.57	60.33	0.001850	1.63	10.61	1.21	0.42
cassa	23.9		Culvert									
cassa	23.5	Max WS	17.13	62.28		62.44	60.33	0.002422	1.79	9.56	1.14	0.48
cassa	23.499		Lat Struct									
cassa	23	Max WS	17.35	62.09		62.27	59.97	0.002867	1.90	9.14	1.10	0.52
cassa	22	Max WS	17.60	62.00		62.13	59.81	0.001819	1.61	10.93	1.21	0.42
cassa	21	Max WS	17.81	61.89		62.02	59.73	0.001927	1.63	10.94	1.17	0.44
cassa	20	Max WS	16.21	61.78		61.87	59.63	0.001245	1.36	12.45	0.81	0.36
cassa	19	Max WS	16.22	61.73		61.80	59.32	0.000835	1.19	14.17	0.82	0.30
cassa	18	Max WS	17.16	61.74	60.40	61.80	59.14	0.000698	1.03	16.60	1.27	0.27
cassa	17.9		Bridge									
cassa	17.5	Max WS	17.15	61.73		61.79	59.14	0.000791	1.06	16.42	1.26	0.25
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	16.25	61.65		61.74	59.10	0.001454	1.31	12.44	1.31	0.32
cassa	16	Max WS	14.39	61.52		61.63	59.05	0.002122	1.48	11.15	0.62	0.38
cassa	15	Max WS	14.08	61.53		61.61	58.99	0.001288	1.23	13.40	0.69	0.29
cassa	14.9		Culvert									
cassa	14.5	Max WS	14.05	61.36		61.46	58.99	0.001979	1.42	10.64	0.62	0.35
cassa	14.499		Lat Struct									
cassa	14	Max WS	14.13	61.29		61.40	58.89	0.002103	1.47	10.18	0.60	0.37
cassa	13	Max WS	11.48	61.22		61.29	58.71	0.001260	1.17	11.33	0.61	0.29
cassa	12	Max WS	10.00	61.25		61.29	58.60	0.000585	0.86	13.32	0.69	0.20
cassa	11.8		Culvert									
cassa	11.6	Max WS	9.22	61.13		61.17	58.60	0.000651	0.87	11.45	0.63	0.21
cassa	11.599		Lat Struct									
cassa	11	Max WS	8.39	61.14		61.17	58.66	0.000594	0.80	12.39	0.68	0.20
cassa	10	Max WS	14.38	60.72		60.96	58.51	0.005865	2.18	6.61	0.96	0.59
cassa	9	Max WS	16.02	60.86	59.43	60.90	58.17	0.000599	0.87	18.48	1.38	0.22
cassa	8.9		Bridge									
cassa	8.8	Max WS	16.02	60.67		60.76	58.40	0.001725	1.34	11.94	1.20	0.35
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	16.03	60.57		60.75	58.21	0.003791	1.90	8.43	1.10	0.49
cassa	8	Max WS	15.75	60.52		60.71	58.21	0.004070	1.93	8.14	1.08	0.50
cassa	7	Max WS	1.03	60.31		60.31	57.99	0.000023	0.14	7.47	1.01	0.04
cassa	6	Max WS	0.78	60.31		60.31	57.76	0.000007	0.09	8.97	1.12	0.02
cassa	5.5	Max WS	0.10	60.31		60.31	57.26	0.000000	0.01	11.74	1.29	0.00
cassa	5	Max WS	0.00	60.31	56.79	60.31	56.75	0.000000	0.00	15.99	1.46	0.00
cassa	4.5		Bridge									
cassa	4.3	Max WS	0.00	60.31		60.31	56.75	0.000000	0.00	15.99	1.46	0.00
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	0.00	60.31		60.31	56.75	0.000000	0.00	15.99	1.46	0.00
cassa	3	Max WS	0.00	60.31		60.31	55.96	0.000000	0.00	26.66	1.73	0.00
cassa	2	Max WS	0.00	60.31		60.31	55.35	0.000000	0.00	37.63	2.08	0.00
cassa	1.6	Max WS	0.00	60.31	55.31	60.31	55.30	0.000000	0.00	43.60	2.37	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.31		61.31	55.26	0.000000	0.00	58.89	2.85	0.00
cassa	1	Max WS	0.00	61.31	55.22	61.31	55.21	0.000000	0.00	59.42	2.87	0.00

HEC-RAS Plan: Vic_T100_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.86	70.77	0.50
dx1	Max WS	59.05	55.00	12.46
dx2	Max WS	61.13	59.60	8.09
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.31	55.25	7.53
sx2	Max WS	61.74	58.80	2.00

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	5.70	73.81	73.88	74.18	72.82	0.022554	2.69	2.14	0.46	1.17
cassa	48.999	Max WS	5.70	73.79	73.88	74.20	72.82	0.029198	2.84	2.00	0.44	1.25
cassa	48.99		Lat Struct									
cassa	48	Max WS	2.31	72.51		72.63	71.59	0.010188	1.54	1.51	0.38	0.72
cassa	47	Max WS	4.81	71.50		71.75	70.14	0.010998	2.31	2.31	0.50	0.75
cassa	46.4	Max WS	5.67	71.40	71.48	71.87	70.14	0.023068	3.11	1.98	0.46	1.07
cassa	46	Max WS	5.66	70.86		71.17	69.41	0.017398	2.46	2.30	0.53	0.92
cassa	45	Max WS	5.64	69.40	69.52	69.87	68.50	0.030374	3.03	1.86	0.47	1.29
cassa	44	Max WS	5.64	68.38		68.57	67.42	0.010532	1.94	2.90	0.54	0.79
cassa	43	Max WS	5.60	67.60		67.65	66.06	0.001506	0.96	5.81	0.81	0.31
cassa	42	Max WS	5.60	67.45		67.50	65.85	0.001406	0.99	5.71	0.75	0.30
cassa	41	Max WS	5.57	67.34		67.38	65.47	0.001025	0.83	6.73	0.86	0.27
cassa	40	Max WS	5.57	67.34		67.37	65.50	0.000372	0.64	8.65	1.00	0.19
cassa	39	Max WS	11.69	66.95		67.14	65.48	0.004154	1.96	5.96	0.87	0.62
cassa	38	Max WS	11.69	66.97		67.09	65.06	0.002088	1.53	7.62	1.01	0.44
cassa	37.9		Culvert									
cassa	37	Max WS	11.69	66.17		66.52	64.80	0.008851	2.62	4.46	0.76	0.88
cassa	36	Max WS	11.69	65.69	65.92	66.45	64.71	0.026424	3.88	3.01	0.61	1.48
cassa	35	Max WS	11.68	65.53		65.59	63.50	0.000921	1.09	10.68	1.06	0.30
cassa	34.9		Culvert									
cassa	34.5	Max WS	11.68	65.29		65.37	63.50	0.001566	1.31	8.88	0.99	0.39
cassa	34	Max WS	11.68	65.23		65.35	63.67	0.002415	1.55	7.53	0.92	0.48
cassa	33	Max WS	13.80	64.69		64.82	63.12	0.004347	1.56	8.82	0.60	0.62
cassa	32	Max WS	13.82	64.55		64.68	62.85	0.004880	1.59	8.67	0.57	0.65
cassa	31	Max WS	13.87	64.36		64.47	62.37	0.003581	1.47	9.43	0.63	0.57
cassa	30	Max WS	14.04	63.96		64.11	62.24	0.004731	1.71	8.19	0.65	0.65
cassa	29.9	Max WS	14.06	63.91	63.71	64.08	62.24	0.005753	1.84	7.65	0.62	0.71
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	13.95	62.86		63.27	61.24	0.008789	2.80	4.97	0.85	0.81
cassa	29	Max WS	13.96	63.04		63.21	61.10	0.002813	1.81	7.71	1.04	0.44
cassa	28.9		Culvert									
cassa	28	Max WS	13.81	62.56		62.76	61.02	0.003705	1.97	7.03	0.95	0.58
cassa	27.99		Lat Struct									
cassa	27	Max WS	13.89	62.54		62.69	60.82	0.002512	1.71	8.12	1.04	0.48
cassa	26	Max WS	14.05	62.42		62.55	60.47	0.002080	1.61	8.72	1.09	0.44
cassa	25	Max WS	14.06	62.24		62.41	60.33	0.003133	1.86	7.54	1.00	0.54
cassa	24	Max WS	14.28	62.26		62.38	60.33	0.001740	1.51	9.44	1.13	0.40
cassa	23.9		Culvert									
cassa	23.5	Max WS	14.03	62.14		62.28	60.33	0.002108	1.61	8.69	1.08	0.44
cassa	23.499		Lat Struct									
cassa	23	Max WS	14.27	61.98		62.13	59.97	0.002396	1.69	8.44	1.05	0.48
cassa	22	Max WS	14.57	61.91		62.01	59.81	0.001472	1.42	10.28	1.17	0.38
cassa	21	Max WS	14.81	61.82		61.92	59.73	0.001519	1.42	10.42	1.14	0.39
cassa	20	Max WS	15.19	61.73		61.82	59.63	0.001230	1.33	11.78	0.86	0.36
cassa	19	Max WS	15.01	61.68		61.75	59.32	0.000791	1.13	13.53	1.00	0.29
cassa	18	Max WS	14.82	61.70	60.31	61.74	59.14	0.000570	0.92	16.10	1.24	0.24
cassa	17.9		Bridge									
cassa	17.5	Max WS	14.81	61.69		61.73	59.14	0.000639	0.94	15.97	1.23	0.23
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	14.60	61.62		61.69	59.10	0.001235	1.20	12.21	1.30	0.30
cassa	16	Max WS	13.43	61.48		61.59	59.05	0.002057	1.43	10.54	0.60	0.37
cassa	15	Max WS	13.28	61.49		61.56	58.99	0.001271	1.20	12.70	0.67	0.29
cassa	14.9		Culvert									
cassa	14.5	Max WS	12.99	61.33		61.42	58.99	0.001830	1.35	10.15	0.64	0.34
cassa	14.499		Lat Struct									
cassa	14	Max WS	13.22	61.26		61.36	58.89	0.001990	1.41	9.72	0.58	0.36
cassa	13	Max WS	11.53	61.16		61.24	58.71	0.001507	1.24	10.33	0.57	0.31
cassa	12	Max WS	10.42	61.18		61.23	58.60	0.000740	0.95	12.26	0.66	0.22
cassa	11.8		Culvert									
cassa	11.6	Max WS	9.97	61.05		61.11	58.60	0.000903	1.00	9.97	1.23	0.24
cassa	11.599		Lat Struct									
cassa	11	Max WS	9.39	61.05		61.10	58.66	0.000929	0.98	11.07	0.64	0.25
cassa	10	Max WS	13.54	60.64		60.88	58.51	0.006177	2.17	6.24	0.93	0.60
cassa	9	Max WS	14.74	60.79	59.38	60.82	58.17	0.000572	0.83	17.66	1.35	0.21
cassa	8.9		Bridge									
cassa	8.8	Max WS	14.74	60.62		60.70	58.40	0.001594	1.28	11.55	1.18	0.33
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	14.76	60.53		60.69	58.21	0.003475	1.80	8.22	1.09	0.47
cassa	8	Max WS	14.71	60.47		60.65	58.21	0.003917	1.87	7.88	1.06	0.49
cassa	7	Max WS	0.50	60.27		60.27	57.99	0.000006	0.07	7.26	1.00	0.02
cassa	6	Max WS	0.42	60.27		60.27	57.76	0.000002	0.05	8.75	1.11	0.01
cassa	5.5	Max WS	0.02	60.27		60.27	57.26	0.000000	0.00	11.51	1.28	0.00
cassa	5	Max WS	0.00	60.27	56.78	60.27	56.75	0.000000	0.00	15.65	1.44	0.00
cassa	4.5		Bridge									
cassa	4.3	Max WS	0.00	60.27		60.27	56.75	0.000000	0.00	15.65	1.44	0.00
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	0.00	60.27		60.27	56.75	0.000000	0.00	15.65	1.44	0.00
cassa	3	Max WS	0.00	60.27		60.27	55.96	0.000000	0.00	26.17	1.78	0.00
cassa	2	Max WS	0.00	60.27		60.27	55.35	0.000000	0.00	37.03	2.06	0.00
cassa	1.6	Max WS	0.00	60.27	55.31	60.27	55.30	0.000000	0.00	42.99	2.36	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.79		60.79	55.26	0.000000	0.00	51.02	2.60	0.00
cassa	1	Max WS	0.00	60.79	55.22	60.79	55.21	0.000000	0.00	51.54	2.62	0.00

HEC-RAS Plan: vic_T30_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.75	70.77	0.46
dx1	Max WS	58.79	55.00	3.32
dx2	Max WS	61.04	59.60	5.46
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.27	55.25	5.97
sx2	Max WS	61.65	58.80	1.19

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	5.28	73.79	73.85	74.13	72.82	0.021949	2.60	2.05	0.44	1.15
cassa	48.999	Max WS	5.27	73.76	73.85	74.15	72.82	0.028278	2.75	1.92	0.43	1.23
cassa	48.99		Lat Struct									
cassa	48	Max WS	2.27	72.51		72.63	71.59	0.010140	1.53	1.49	0.38	0.71
cassa	47	Max WS	4.46	71.46		71.70	70.14	0.011114	2.25	2.18	0.48	0.75
cassa	46.4	Max WS	5.26	71.37	71.44	71.81	70.14	0.023401	3.04	1.87	0.45	1.07
cassa	46	Max WS	5.26	70.82		71.12	69.41	0.017349	2.41	2.18	0.51	0.92
cassa	45	Max WS	5.24	69.38	69.49	69.82	68.50	0.029694	2.94	1.78	0.46	1.28
cassa	44	Max WS	5.24	68.35		68.53	67.42	0.010550	1.90	2.75	0.52	0.79
cassa	43	Max WS	5.18	67.54		67.58	66.06	0.001560	0.95	5.43	0.78	0.32
cassa	42	Max WS	5.18	67.38		67.43	65.85	0.001461	0.98	5.30	0.77	0.31
cassa	41	Max WS	5.16	67.27		67.30	65.47	0.001085	0.83	6.23	0.83	0.27
cassa	40	Max WS	5.16	67.27		67.29	65.50	0.000382	0.64	8.09	0.97	0.19
cassa	39	Max WS	10.82	66.87		67.06	65.48	0.004467	1.97	5.48	0.83	0.64
cassa	38	Max WS	10.82	66.89		67.01	65.06	0.002153	1.52	7.12	0.97	0.45
cassa	37.9		Culvert									
cassa	37	Max WS	10.82	66.13		66.46	64.80	0.008681	2.55	4.24	0.74	0.86
cassa	36	Max WS	10.82	65.64	65.87	66.40	64.71	0.027458	3.85	2.81	0.58	1.50
cassa	35	Max WS	10.82	65.45		65.51	63.50	0.000919	1.07	10.08	1.09	0.30
cassa	34.9		Culvert									
cassa	34.5	Max WS	10.81	65.24		65.32	63.50	0.001453	1.27	8.50	1.00	0.37
cassa	34	Max WS	10.81	65.18		65.29	63.67	0.002246	1.50	7.20	0.93	0.46
cassa	33	Max WS	12.85	64.66		64.78	63.12	0.004329	1.53	8.41	0.58	0.62
cassa	32	Max WS	12.89	64.52		64.65	62.85	0.004938	1.56	8.24	0.55	0.65
cassa	31	Max WS	12.94	64.32		64.43	62.37	0.003616	1.44	8.96	0.61	0.57
cassa	30	Max WS	13.10	63.91		64.06	62.24	0.004894	1.70	7.71	0.62	0.66
cassa	29.9	Max WS	13.12	63.86	63.57	64.04	62.24	0.006088	1.84	7.14	0.59	0.73
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	13.12	62.77		63.18	61.24	0.009662	2.86	4.59	0.82	0.84
cassa	29	Max WS	13.13	62.94		63.10	61.10	0.002946	1.81	7.24	1.00	0.46
cassa	28.9		Culvert									
cassa	28	Max WS	12.80	62.50		62.69	61.02	0.003659	1.92	6.68	0.93	0.57
cassa	27.99		Lat Struct									
cassa	27	Max WS	12.89	62.48		62.62	60.82	0.002456	1.66	7.75	1.01	0.47
cassa	26	Max WS	13.03	62.37		62.49	60.47	0.002012	1.56	8.35	1.07	0.44
cassa	25	Max WS	13.20	62.18		62.35	60.33	0.003106	1.83	7.22	0.98	0.54
cassa	24	Max WS	13.29	62.21		62.31	60.33	0.001670	1.46	9.10	1.11	0.39
cassa	23.9		Culvert									
cassa	23.5	Max WS	13.22	62.10		62.23	60.33	0.002046	1.57	8.41	1.06	0.43
cassa	23.499		Lat Struct									
cassa	23	Max WS	13.43	61.95		62.08	59.97	0.002294	1.64	8.20	1.04	0.46
cassa	22	Max WS	13.73	61.88		61.97	59.81	0.001390	1.37	10.05	1.15	0.37
cassa	21	Max WS	13.96	61.79		61.89	59.73	0.001422	1.37	10.22	1.13	0.38
cassa	20	Max WS	14.30	61.71		61.79	59.63	0.001137	1.27	11.56	0.87	0.34
cassa	19	Max WS	14.22	61.67		61.73	59.32	0.000735	1.09	13.35	1.10	0.28
cassa	18	Max WS	14.07	61.68	60.27	61.72	59.14	0.000535	0.88	15.90	1.23	0.24
cassa	17.9		Bridge									
cassa	17.5	Max WS	14.06	61.67		61.71	59.14	0.000595	0.90	15.78	1.22	0.22
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	13.96	61.61		61.67	59.10	0.001155	1.15	12.11	1.29	0.29
cassa	16	Max WS	13.10	61.47		61.57	59.05	0.002055	1.42	10.28	0.59	0.37
cassa	15	Max WS	13.00	61.48		61.54	58.99	0.001273	1.19	12.41	0.66	0.29
cassa	14.9		Culvert									
cassa	14.5	Max WS	12.76	61.31		61.40	58.99	0.001832	1.35	9.92	0.66	0.34
cassa	14.499		Lat Struct									
cassa	14	Max WS	12.90	61.24		61.34	58.89	0.001973	1.40	9.48	0.57	0.36
cassa	13	Max WS	11.63	61.13		61.22	58.71	0.001646	1.28	9.93	0.56	0.33
cassa	12	Max WS	10.67	61.16		61.21	58.60	0.000824	0.99	11.84	0.64	0.23
cassa	11.8		Culvert									
cassa	11.6	Max WS	10.23	61.02		61.08	58.60	0.001001	1.04	9.80	1.22	0.25
cassa	11.599		Lat Struct									
cassa	11	Max WS	9.62	61.02		61.07	58.66	0.001064	1.04	10.56	0.63	0.26
cassa	10	Max WS	13.25	60.60		60.85	58.51	0.006493	2.19	6.05	0.91	0.62
cassa	9	Max WS	14.27	60.75	59.36	60.79	58.17	0.000569	0.83	17.28	1.33	0.21
cassa	8.9		Bridge									
cassa	8.8	Max WS	14.27	60.59		60.67	58.40	0.001569	1.26	11.34	1.17	0.33
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	14.29	60.51		60.66	58.21	0.003426	1.77	8.09	1.07	0.46
cassa	8	Max WS	14.31	60.44		60.61	58.21	0.003943	1.85	7.73	1.05	0.50
cassa	7	Max WS	0.58	60.27		60.27	57.99	0.000008	0.08	7.28	1.00	0.02
cassa	6	Max WS	0.48	60.27		60.27	57.76	0.000003	0.06	8.78	1.11	0.01
cassa	5.5	Max WS	0.02	60.27		60.27	57.26	0.000000	0.00	11.54	1.28	0.00
cassa	5	Max WS	-0.01	60.27		60.27	56.75	0.000000	0.00	15.69	1.45	0.00
cassa	4.5		Bridge									
cassa	4.3	Max WS	-0.01	60.27		60.27	56.75	0.000000	0.00	15.69	1.45	0.00
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	-0.01	60.27		60.27	56.75	0.000000	0.00	15.69	1.45	0.00
cassa	3	Max WS	0.00	60.27		60.27	55.96	0.000000	0.00	26.23	1.77	0.00
cassa	2	Max WS	0.00	60.27		60.27	55.35	0.000000	0.00	37.10	2.06	0.00
cassa	1.6	Max WS	0.00	60.27	55.31	60.27	55.30	0.000000	0.00	43.07	2.36	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.59		60.59	55.26	0.000000	0.00	47.99	2.51	0.00
cassa	1	Max WS	0.00	60.59	55.22	60.59	55.21	0.000000	0.00	48.52	2.53	0.00

HEC-RAS Plan: vicar_T20_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.74	70.77	0.45
dx1	Max WS	58.78	55.00	2.93
dx2	Max WS	61.00	59.60	4.24
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.27	55.25	6.17
sx2	Max WS	61.62	58.80	0.97

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	3.75	73.70	73.71	73.95	72.82	0.019332	2.23	1.69	0.39	1.05
cassa	48.999	Max WS	3.75	73.68	73.71	73.96	72.82	0.024253	2.36	1.59	0.39	1.13
cassa	48.99		Lat Struct									
cassa	48	Max WS	2.10	72.48		72.60	71.59	0.009947	1.49	1.41	0.37	0.70
cassa	47	Max WS	3.28	71.32		71.52	70.14	0.011312	2.03	1.74	0.43	0.73
cassa	46.4	Max WS	3.76	71.22	71.27	71.58	70.14	0.024734	2.73	1.45	0.39	1.06
cassa	46	Max WS	3.75	70.66		70.90	69.41	0.016869	2.20	1.71	0.45	0.89
cassa	45	Max WS	3.75	69.27	69.34	69.62	68.50	0.027227	2.60	1.45	0.41	1.20
cassa	44	Max WS	3.75	68.22		68.37	67.42	0.010511	1.71	2.20	0.44	0.77
cassa	43	Max WS	3.75	67.32		67.36	66.06	0.001728	0.90	4.19	0.65	0.33
cassa	42	Max WS	3.75	67.15		67.20	65.85	0.001496	0.90	4.16	0.74	0.30
cassa	41	Max WS	3.75	67.03		67.06	65.47	0.001198	0.79	4.73	0.72	0.28
cassa	40	Max WS	3.75	67.03		67.05	65.50	0.000376	0.59	6.41	0.86	0.19
cassa	39	Max WS	8.17	66.60		66.80	65.48	0.005887	2.02	4.05	0.70	0.72
cassa	38	Max WS	8.17	66.62		66.73	65.06	0.002377	1.46	5.59	0.85	0.46
cassa	37.9		Culvert									
cassa	37	Max WS	8.17	65.99		66.25	64.80	0.007771	2.27	3.60	0.68	0.81
cassa	36	Max WS	8.17	65.51	65.71	66.16	64.71	0.027652	3.56	2.30	0.51	1.48
cassa	35	Max WS	8.17	65.33		65.37	63.50	0.000661	0.89	9.18	1.06	0.25
cassa	34.9		Culvert									
cassa	34.5	Max WS	8.17	65.22		65.26	63.50	0.000853	0.98	8.37	1.00	0.29
cassa	34	Max WS	8.16	65.19		65.25	63.67	0.001267	1.13	7.24	0.93	0.35
cassa	33	Max WS	11.79	64.64		64.75	63.12	0.004108	1.46	8.07	0.57	0.60
cassa	32	Max WS	11.94	64.50		64.61	62.85	0.004742	1.50	7.93	0.53	0.63
cassa	31	Max WS	12.18	64.30		64.40	62.37	0.003467	1.40	8.72	0.60	0.55
cassa	30	Max WS	12.64	63.89		64.04	62.24	0.004954	1.69	7.48	0.61	0.66
cassa	29.9	Max WS	12.67	63.84	63.50	64.01	62.24	0.006299	1.84	6.89	0.58	0.74
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	12.66	62.76		63.15	61.24	0.009189	2.78	4.55	0.81	0.82
cassa	29	Max WS	12.69	62.93		63.08	61.10	0.002794	1.76	7.20	1.00	0.44
cassa	28.9		Culvert									
cassa	28	Max WS	12.66	62.53		62.70	61.02	0.003405	1.86	6.80	0.94	0.56
cassa	27.99		Lat Struct									
cassa	27	Max WS	12.78	62.50		62.64	60.82	0.002310	1.62	7.88	1.02	0.46
cassa	26	Max WS	13.07	62.39		62.51	60.47	0.001929	1.54	8.51	1.08	0.43
cassa	25	Max WS	13.35	62.21		62.38	60.33	0.002976	1.80	7.40	0.99	0.53
cassa	24	Max WS	13.45	62.23		62.34	60.33	0.001621	1.45	9.27	1.12	0.39
cassa	23.9		Culvert									
cassa	23.5	Max WS	13.43	62.13		62.25	60.33	0.001989	1.56	8.60	1.08	0.43
cassa	23.499		Lat Struct									
cassa	23	Max WS	13.76	61.98		62.11	59.97	0.002250	1.64	8.41	1.05	0.46
cassa	22	Max WS	14.07	61.91		62.00	59.81	0.001373	1.37	10.28	1.17	0.37
cassa	21	Max WS	14.31	61.83		61.92	59.73	0.001400	1.37	10.47	1.15	0.37
cassa	20	Max WS	14.55	61.75		61.83	59.63	0.001088	1.26	11.98	0.86	0.34
cassa	19	Max WS	14.81	61.70		61.76	59.32	0.000747	1.11	13.70	0.92	0.28
cassa	18	Max WS	15.07	61.71	60.32	61.75	59.14	0.000581	0.93	16.19	1.25	0.25
cassa	17.9		Bridge									
cassa	17.5	Max WS	15.05	61.69		61.74	59.14	0.000650	0.95	16.05	1.24	0.23
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	14.82	61.63		61.70	59.10	0.001258	1.21	12.26	1.30	0.30
cassa	16	Max WS	13.52	61.50		61.60	59.05	0.002008	1.43	10.75	0.61	0.36
cassa	15	Max WS	13.30	61.51		61.58	58.99	0.001230	1.19	12.94	0.68	0.28
cassa	14.9		Culvert									
cassa	14.5	Max WS	13.23	61.34		61.44	58.99	0.001827	1.36	10.40	0.62	0.34
cassa	14.499		Lat Struct									
cassa	14	Max WS	13.31	61.28		61.37	58.89	0.001914	1.40	10.03	0.60	0.36
cassa	13	Max WS	11.00	61.22		61.28	58.71	0.001170	1.12	11.27	0.61	0.28
cassa	12	Max WS	9.47	61.24		61.28	58.60	0.000531	0.82	13.23	0.69	0.19
cassa	11.8		Culvert									
cassa	11.6	Max WS	9.26	61.13		61.17	58.60	0.000656	0.88	11.45	0.63	0.21
cassa	11.599		Lat Struct									
cassa	11	Max WS	8.76	61.13		61.17	58.66	0.000654	0.84	12.33	0.68	0.21
cassa	10	Max WS	14.13	60.74		60.97	58.51	0.005417	2.11	6.71	0.97	0.57
cassa	9	Max WS	15.81	60.87	59.42	60.91	58.17	0.000573	0.85	18.60	1.39	0.21
cassa	8.9		Bridge									
cassa	8.8	Max WS	15.33	60.69		60.78	58.40	0.001516	1.26	12.12	1.21	0.32
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	12.63	60.63		60.73	58.21	0.002101	1.44	8.75	1.13	0.36
cassa	8	Max WS	11.91	60.62		60.72	58.21	0.001884	1.36	8.73	1.12	0.34
cassa	7	Max WS	10.51	60.61		60.67	57.99	0.001317	1.15	9.11	1.13	0.29
cassa	6	Max WS	8.72	60.60		60.64	57.76	0.000565	0.83	10.56	1.23	0.19
cassa	5.5	Max WS	7.60	60.62		60.63	57.26	0.000186	0.57	13.44	1.39	0.12
cassa	5	Max WS	6.77	60.63	58.05	60.64	56.75	0.000084	0.36	18.67	1.59	0.08
cassa	4.5		Bridge									
cassa	4.3	Max WS	6.39	60.62		60.63	56.75	0.000075	0.34	19.11	1.40	0.07
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	6.33	60.62		60.63	56.75	0.000073	0.34	19.10	1.40	0.07
cassa	3	Max WS	6.78	60.62		60.62	55.96	0.000024	0.22	30.79	1.79	0.04
cassa	2	Max WS	0.02	60.63		60.63	55.35	0.000000	0.00	42.31	2.22	0.00
cassa	1.6	Max WS	0.00	60.63	55.31	60.63	55.30	0.000000	0.00	48.30	2.52	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.64		61.64	55.26	0.000000	0.00	63.90	3.00	0.00
cassa	1	Max WS	0.00	61.64	55.22	61.64	55.21	0.000000	0.00	64.41	3.02	0.00

HEC-RAS Plan: Vic_T200_d3 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.54	70.77	0.36
dx1	Max WS	59.70	55.00	97.74
dx2	Max WS	61.13	59.60	8.04
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.62	55.25	24.42
sx2	Max WS	61.70	58.80	1.70

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	3.36	73.67	73.68	73.90	72.82	0.018553	2.13	1.59	0.38	1.02
cassa	48.999	Max WS	3.36	73.65	73.68	73.91	72.82	0.023039	2.24	1.50	0.37	1.09
cassa	48.99		Lat Struct									
cassa	48	Max WS	2.04	72.47		72.58	71.59	0.010032	1.49	1.37	0.37	0.70
cassa	47	Max WS	3.00	71.27		71.47	70.14	0.011730	1.99	1.62	0.41	0.74
cassa	46.4	Max WS	3.37	71.17	71.22	71.52	70.14	0.025652	2.65	1.33	0.37	1.07
cassa	46	Max WS	3.36	70.61		70.84	69.41	0.016797	2.13	1.58	0.44	0.88
cassa	45	Max WS	3.36	69.24	69.30	69.56	68.50	0.026290	2.48	1.35	0.39	1.18
cassa	44	Max WS	3.36	68.19		68.32	67.42	0.010598	1.65	2.04	0.42	0.77
cassa	43	Max WS	3.36	67.25		67.29	66.06	0.001829	0.88	3.81	0.61	0.33
cassa	42	Max WS	3.36	67.08		67.12	65.85	0.001525	0.88	3.81	0.70	0.31
cassa	41	Max WS	3.36	66.94		66.97	65.47	0.001276	0.79	4.25	0.68	0.29
cassa	40	Max WS	3.36	66.94		66.96	65.50	0.000382	0.57	5.87	0.82	0.19
cassa	39	Max WS	7.32	66.50		66.71	65.48	0.006537	2.03	3.61	0.65	0.75
cassa	38	Max WS	7.32	66.53		66.64	65.06	0.002445	1.44	5.10	0.81	0.47
cassa	37.9		Culvert									
cassa	37	Max WS	7.32	65.94		66.18	64.80	0.007495	2.17	3.37	0.65	0.79
cassa	36	Max WS	7.32	65.46	65.65	66.09	64.71	0.029520	3.53	2.08	0.48	1.52
cassa	35	Max WS	7.32	65.22		65.26	63.50	0.000657	0.87	8.41	1.03	0.25
cassa	34.9		Culvert									
cassa	34.5	Max WS	7.31	65.12		65.16	63.50	0.000823	0.95	7.71	0.99	0.28
cassa	34	Max WS	7.30	65.09		65.15	63.67	0.001292	1.11	6.60	0.89	0.35
cassa	33	Max WS	10.29	64.58		64.68	63.12	0.004122	1.40	7.35	0.53	0.59
cassa	32	Max WS	10.42	64.44		64.55	62.85	0.004950	1.46	7.14	0.49	0.64
cassa	31	Max WS	10.64	64.24		64.33	62.37	0.003549	1.35	7.88	0.56	0.55
cassa	30	Max WS	11.06	63.81		63.96	62.24	0.005287	1.67	6.60	0.57	0.67
cassa	29.9	Max WS	11.08	63.76	63.41	63.93	62.24	0.006440	1.84	6.03	0.57	0.74
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	11.08	62.61		63.00	61.24	0.009999	2.77	4.00	0.76	0.86
cassa	29	Max WS	11.10	62.77		62.92	61.10	0.002826	1.71	6.51	0.95	0.45
cassa	28.9		Culvert									
cassa	28	Max WS	11.07	62.41		62.57	61.02	0.003502	1.81	6.11	0.88	0.56
cassa	27.99		Lat Struct									
cassa	27	Max WS	11.18	62.38		62.51	60.82	0.002311	1.56	7.15	0.96	0.46
cassa	26	Max WS	11.44	62.27		62.38	60.47	0.001892	1.47	7.77	1.02	0.42
cassa	25	Max WS	11.69	62.10		62.25	60.33	0.002950	1.74	6.72	0.94	0.52
cassa	24	Max WS	11.78	62.12		62.22	60.33	0.001555	1.38	8.55	1.07	0.38
cassa	23.9		Culvert									
cassa	23.5	Max WS	11.75	62.03		62.14	60.33	0.001870	1.47	7.98	1.03	0.41
cassa	23.499		Lat Struct									
cassa	23	Max WS	11.96	61.89		62.01	59.97	0.002038	1.52	7.86	1.02	0.44
cassa	22	Max WS	12.12	61.83		61.91	59.81	0.001181	1.25	9.73	1.13	0.34
cassa	21	Max WS	12.39	61.76		61.84	59.73	0.001193	1.24	9.98	1.12	0.34
cassa	20	Max WS	12.74	61.69		61.76	59.63	0.000940	1.15	11.35	0.89	0.31
cassa	19	Max WS	13.07	61.65		61.70	59.32	0.000641	1.01	13.18	1.09	0.26
cassa	18	Max WS	13.13	61.66	60.23	61.70	59.14	0.000487	0.84	15.67	1.22	0.22
cassa	17.9		Bridge									
cassa	17.5	Max WS	13.12	61.65		61.69	59.14	0.000539	0.85	15.57	1.21	0.21
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	13.16	61.59		61.65	59.10	0.001053	1.10	12.00	1.29	0.27
cassa	16	Max WS	12.59	61.46		61.55	59.05	0.001963	1.38	10.10	0.59	0.36
cassa	15	Max WS	12.50	61.46		61.53	58.99	0.001216	1.16	12.21	0.66	0.28
cassa	14.9		Culvert									
cassa	14.5	Max WS	12.45	61.30		61.39	58.99	0.001767	1.32	9.84	0.67	0.33
cassa	14.499		Lat Struct									
cassa	14	Max WS	12.61	61.24		61.33	58.89	0.001893	1.37	9.45	0.57	0.35
cassa	13	Max WS	11.37	61.14		61.22	58.71	0.001546	1.25	10.03	0.56	0.32
cassa	12	Max WS	10.42	61.16		61.21	58.60	0.000774	0.96	11.94	0.65	0.22
cassa	11.8		Culvert									
cassa	11.6	Max WS	10.12	61.03		61.09	58.60	0.000963	1.03	9.86	1.22	0.25
cassa	11.599		Lat Struct									
cassa	11	Max WS	9.57	61.03		61.08	58.66	0.001026	1.02	10.71	0.63	0.26
cassa	10	Max WS	12.97	60.65		60.87	58.51	0.005561	2.07	6.28	0.93	0.57
cassa	9	Max WS	14.07	60.78	59.35	60.82	58.17	0.000524	0.80	17.62	1.35	0.20
cassa	8.9		Bridge									
cassa	8.8	Max WS	14.04	60.64		60.71	58.40	0.001402	1.20	11.69	1.19	0.31
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	14.02	60.56		60.70	58.21	0.002948	1.67	8.39	1.10	0.43
cassa	8	Max WS	8.34	60.54		60.60	58.21	0.001077	1.01	8.30	1.09	0.26
cassa	7	Max WS	7.30	60.53		60.56	57.99	0.000738	0.84	8.67	1.10	0.21
cassa	6	Max WS	5.83	60.53		60.55	57.76	0.000284	0.58	10.16	1.21	0.13
cassa	5.5	Max WS	4.68	60.54		60.55	57.26	0.000078	0.36	13.00	1.36	0.07
cassa	5	Max WS	4.58	60.55	57.87	60.55	56.75	0.000043	0.26	17.94	1.55	0.06
cassa	4.5		Bridge									
cassa	4.3	Max WS	4.02	60.54		60.54	56.75	0.000033	0.22	18.27	1.36	0.05
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	4.06	60.54		60.54	56.75	0.000034	0.23	18.26	1.36	0.05
cassa	3	Max WS	4.00	60.54		60.54	55.96	0.000009	0.14	29.70	1.75	0.03
cassa	2	Max WS	0.01	60.54		60.54	55.35	0.000000	0.00	41.07	2.19	0.00
cassa	1.6	Max WS	0.00	60.54	55.31	60.54	55.30	0.000000	0.00	47.06	2.48	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.31		61.31	55.26	0.000000	0.00	58.89	2.85	0.00
cassa	1	Max WS	0.00	61.31	55.22	61.31	55.21	0.000000	0.00	59.42	2.87	0.00

HEC-RAS Plan: Vic_T100_d3 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.47	70.77	0.33
dx1	Max WS	59.55	55.00	69.30
dx2	Max WS	61.02	59.60	4.67
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.54	55.25	18.33
sx2	Max WS	61.65	58.80	1.24

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	2.73	73.62	73.61	73.81	72.82	0.017047	1.93	1.43	0.35	0.97
cassa	48.999	Max WS	2.73	73.60	73.61	73.82	72.82	0.020857	2.03	1.34	0.35	1.03
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.91	72.45		72.56	71.59	0.010215	1.48	1.29	0.37	0.71
cassa	47	Max WS	2.51	71.19		71.37	70.14	0.012808	1.91	1.39	0.38	0.76
cassa	46.4	Max WS	2.73	71.08	71.14	71.40	70.14	0.027517	2.54	1.11	0.35	1.08
cassa	46	Max WS	2.73	70.52		70.73	69.41	0.016530	2.01	1.36	0.41	0.86
cassa	45	Max WS	2.73	69.19	69.23	69.46	68.50	0.025050	2.30	1.19	0.36	1.14
cassa	44	Max WS	2.73	68.13		68.25	67.42	0.010518	1.54	1.78	0.38	0.76
cassa	43	Max WS	2.73	67.13		67.16	66.06	0.001979	0.86	3.18	0.56	0.34
cassa	42	Max WS	2.73	66.95		66.99	65.85	0.001572	0.84	3.25	0.64	0.31
cassa	41	Max WS	2.73	66.80		66.83	65.47	0.001425	0.78	3.50	0.62	0.30
cassa	40	Max WS	2.73	66.80		66.82	65.50	0.000389	0.55	5.00	0.76	0.19
cassa	39	Max WS	5.95	66.36		66.57	65.48	0.007899	2.04	2.91	0.57	0.81
cassa	38	Max WS	5.95	66.38		66.48	65.06	0.002559	1.38	4.31	0.74	0.47
cassa	37.9		Culvert									
cassa	37	Max WS	5.95	65.85		66.05	64.80	0.006982	2.00	2.97	0.61	0.76
cassa	36	Max WS	5.95	65.37	65.55	65.95	64.71	0.030767	3.36	1.77	0.44	1.54
cassa	35	Max WS	5.95	65.06		65.09	63.50	0.000632	0.81	7.30	0.96	0.24
cassa	34.9		Culvert									
cassa	34.5	Max WS	5.95	64.97		65.01	63.50	0.000783	0.88	6.75	0.92	0.27
cassa	34	Max WS	5.95	64.94		65.00	63.67	0.001305	1.05	5.67	0.81	0.35
cassa	33	Max WS	8.22	64.44		64.55	63.12	0.005740	1.46	5.62	0.44	0.68
cassa	32	Max WS	8.33	64.32		64.42	62.85	0.003557	1.42	5.85	0.61	0.55
cassa	31	Max WS	8.50	64.14		64.22	62.37	0.003850	1.29	6.58	0.49	0.56
cassa	30	Max WS	8.84	63.68		63.82	62.24	0.005097	1.66	5.33	0.58	0.65
cassa	29.9	Max WS	8.85	63.63	63.28	63.79	62.24	0.005318	1.78	4.97	0.63	0.67
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	8.85	62.44		62.79	61.24	0.010305	2.64	3.35	0.69	0.87
cassa	29	Max WS	8.87	62.58		62.70	61.10	0.002637	1.57	5.67	0.87	0.43
cassa	28.9		Culvert									
cassa	28	Max WS	8.84	62.22		62.38	61.02	0.003728	1.74	5.09	0.79	0.57
cassa	27.99		Lat Struct									
cassa	27	Max WS	8.93	62.20		62.31	60.82	0.002329	1.47	6.06	0.88	0.46
cassa	26	Max WS	9.14	62.09		62.19	60.47	0.001830	1.37	6.67	0.94	0.41
cassa	25	Max WS	9.32	61.93		62.06	60.33	0.002875	1.62	5.74	0.87	0.51
cassa	24	Max WS	9.40	61.95		62.03	60.33	0.001441	1.26	7.46	0.99	0.36
cassa	23.9		Culvert									
cassa	23.5	Max WS	9.37	61.88		61.97	60.33	0.001680	1.33	7.04	0.96	0.39
cassa	23.499		Lat Struct									
cassa	23	Max WS	9.59	61.76		61.85	59.97	0.001777	1.37	7.02	0.96	0.40
cassa	22	Max WS	9.84	61.71		61.77	59.81	0.001003	1.11	8.86	1.08	0.31
cassa	21	Max WS	10.04	61.65		61.71	59.73	0.000993	1.10	9.14	1.07	0.31
cassa	20	Max WS	10.33	61.59		61.64	59.63	0.000780	1.01	10.30	0.98	0.28
cassa	19	Max WS	10.60	61.56		61.60	59.32	0.000508	0.87	12.23	1.04	0.23
cassa	18	Max WS	10.64	61.57	60.11	61.59	59.14	0.000374	0.73	14.64	1.20	0.20
cassa	17.9		Bridge									
cassa	17.5	Max WS	10.63	61.56		61.59	59.14	0.000425	0.73	14.57	1.20	0.18
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	10.82	61.51		61.56	59.10	0.000816	0.95	11.42	1.25	0.24
cassa	16	Max WS	11.14	61.37		61.46	59.05	0.001938	1.33	8.82	0.61	0.35
cassa	15	Max WS	11.20	61.37		61.43	58.99	0.001232	1.13	10.76	0.62	0.28
cassa	14.9		Culvert									
cassa	14.5	Max WS	11.18	61.22		61.30	58.99	0.001688	1.26	8.95	0.84	0.32
cassa	14.499		Lat Struct									
cassa	14	Max WS	11.32	61.15		61.24	58.89	0.001785	1.30	8.72	1.12	0.34
cassa	13	Max WS	11.26	61.01		61.11	58.71	0.002070	1.38	8.18	1.07	0.36
cassa	12	Max WS	10.93	61.03		61.09	58.60	0.001137	1.11	9.82	1.21	0.27
cassa	11.8		Culvert									
cassa	11.6	Max WS	10.88	60.90		60.97	58.60	0.001411	1.19	9.11	1.17	0.30
cassa	11.599		Lat Struct									
cassa	11	Max WS	10.66	60.86		60.95	58.66	0.001963	1.33	8.41	0.64	0.36
cassa	10	Max WS	11.72	60.38		60.66	58.51	0.008537	2.33	5.02	0.83	0.70
cassa	9	Max WS	12.06	60.56	59.26	60.59	58.17	0.000571	0.79	15.22	1.25	0.21
cassa	8.9		Bridge									
cassa	8.8	Max WS	12.06	60.42		60.50	58.40	0.001535	1.19	10.10	1.10	0.32
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	1.76	60.35		60.35	58.21	0.000071	0.24	7.23	1.01	0.07
cassa	8	Max WS	1.76	60.35		60.35	58.21	0.000071	0.24	7.23	1.01	0.07
cassa	7	Max WS	1.74	60.34		60.35	57.99	0.000061	0.23	7.67	1.02	0.06
cassa	6	Max WS	1.28	60.35		60.35	57.76	0.000019	0.14	9.17	1.14	0.03
cassa	5.5	Max WS	0.23	60.35		60.35	57.26	0.000000	0.02	11.95	1.31	0.00
cassa	5	Max WS	0.11	60.35	56.94	60.35	56.75	0.000000	0.01	16.30	1.47	0.00
cassa	4.5		Bridge									
cassa	4.3	Max WS	0.11	60.35		60.35	56.75	0.000000	0.01	16.30	1.32	0.00
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	0.11	60.35		60.35	56.75	0.000000	0.01	16.30	1.32	0.00
cassa	3	Max WS	0.12	60.35		60.35	55.96	0.000000	0.00	27.13	1.69	0.00
cassa	2	Max WS	0.00	60.35		60.35	55.35	0.000000	0.00	38.18	2.10	0.00
cassa	1.6	Max WS	0.00	60.35	55.31	60.35	55.30	0.000000	0.00	44.16	2.39	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.79		60.79	55.26	0.000000	0.00	51.02	2.60	0.00
cassa	1	Max WS	0.00	60.79	55.22	60.79	55.21	0.000000	0.00	51.54	2.62	0.00

HEC-RAS Plan: vic_T30_d3 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.36	70.77	0.28
dx1	Max WS	59.22	55.00	25.03
dx2	Max WS	60.81	59.60	1.54
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.35	55.25	9.08
sx2	Max WS	60.92	58.80	0.06

HEC-RAS Plan: vicar_T20_d3 River: vicariato Reach: cassa Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	2.52	73.61	73.59	73.78	72.82	0.016539	1.86	1.37	0.34	0.95
cassa	48.999	Max WS	2.52	73.59	73.59	73.78	72.82	0.020111	1.96	1.29	0.34	1.01
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.85	72.43		72.54	71.59	0.010238	1.47	1.26	0.36	0.70
cassa	47	Max WS	2.36	71.16		71.34	70.14	0.013396	1.89	1.31	0.36	0.77
cassa	46.4	Max WS	2.52	71.05	71.10	71.36	70.14	0.025894	2.50	1.04	0.35	1.03
cassa	46	Max WS	2.52	70.49		70.69	69.41	0.016477	1.97	1.28	0.39	0.85
cassa	45	Max WS	2.52	69.17	69.20	69.42	68.50	0.024628	2.23	1.13	0.35	1.12
cassa	44	Max WS	2.52	68.10		68.22	67.42	0.010575	1.50	1.69	0.36	0.75
cassa	43	Max WS	2.52	67.08		67.12	66.06	0.002014	0.85	2.97	0.54	0.34
cassa	42	Max WS	2.52	66.91		66.94	65.85	0.001589	0.83	3.06	0.62	0.31
cassa	41	Max WS	2.52	66.75		66.78	65.47	0.001487	0.78	3.25	0.59	0.30
cassa	40	Max WS	2.52	66.75		66.76	65.50	0.000392	0.54	4.71	0.73	0.19
cassa	39	Max WS	5.49	66.31		66.52	65.48	0.008446	2.04	2.69	0.54	0.83
cassa	38	Max WS	5.49	66.33		66.42	65.06	0.002600	1.36	4.05	0.71	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	5.49	65.81		66.00	64.80	0.006824	1.94	2.83	0.59	0.75
cassa	36	Max WS	5.49	65.35	65.51	65.90	64.71	0.030802	3.28	1.67	0.42	1.53
cassa	35	Max WS	5.49	65.01		65.04	63.50	0.000604	0.78	7.00	0.94	0.24
cassa	34.9		Culvert									
cassa	34.5	Max WS	5.49	64.93		64.97	63.50	0.000737	0.84	6.51	0.90	0.26
cassa	34	Max WS	5.49	64.90		64.95	63.67	0.001244	1.01	5.44	0.80	0.34
cassa	33	Max WS	7.69	64.39		64.51	63.12	0.004487	1.50	5.14	0.55	0.61
cassa	32	Max WS	7.78	64.27		64.38	62.85	0.003761	1.42	5.48	0.58	0.56
cassa	31	Max WS	7.94	64.09		64.18	62.37	0.004253	1.31	6.07	0.47	0.58
cassa	30	Max WS	8.25	63.63		63.77	62.24	0.004609	1.65	5.00	0.62	0.62
cassa	29.9	Max WS	8.27	63.60	63.23	63.65	62.24	0.004600	1.74	4.76	0.67	0.62
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	8.27	62.39		62.73	61.24	0.010374	2.60	3.18	0.67	0.87
cassa	29	Max WS	8.28	62.52		62.64	61.10	0.002574	1.52	5.44	0.85	0.43
cassa	28.9		Culvert									
cassa	28	Max WS	8.25	62.17		62.32	61.02	0.003882	1.73	4.78	0.76	0.58
cassa	27.99		Lat Struct									
cassa	27	Max WS	8.32	62.14		62.25	60.82	0.002376	1.45	5.73	0.85	0.46
cassa	26	Max WS	8.52	62.03		62.12	60.47	0.001849	1.35	6.32	0.91	0.41
cassa	25	Max WS	8.67	61.86		62.00	60.33	0.002934	1.61	5.40	0.84	0.51
cassa	24	Max WS	8.75	61.88		61.96	60.33	0.001442	1.24	7.08	0.96	0.36
cassa	23.9		Culvert									
cassa	23.5	Max WS	8.71	61.82		61.90	60.33	0.001676	1.30	6.69	0.93	0.39
cassa	23.499		Lat Struct									
cassa	23	Max WS	8.84	61.70		61.79	59.97	0.001734	1.33	6.67	0.93	0.40
cassa	22	Max WS	9.06	61.65		61.71	59.81	0.000963	1.07	8.47	1.05	0.30
cassa	21	Max WS	9.26	61.59		61.65	59.73	0.000954	1.06	8.74	1.04	0.31
cassa	20	Max WS	9.55	61.54		61.59	59.63	0.000761	0.97	9.83	1.07	0.28
cassa	19	Max WS	9.85	61.51		61.54	59.32	0.000489	0.84	11.72	1.22	0.22
cassa	18	Max WS	9.89	61.51	60.08	61.54	59.14	0.000296	0.70	14.12	1.35	0.18
cassa	17.9		Bridge									
cassa	17.5	Max WS	9.89	61.51		61.53	59.14	0.000406	0.70	14.07	1.35	0.18
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	10.10	61.46		61.50	59.10	0.000778	0.91	11.05	1.23	0.24
cassa	16	Max WS	10.45	61.32		61.40	59.05	0.001916	1.30	8.25	0.68	0.35
cassa	15	Max WS	10.52	61.32		61.38	58.99	0.001221	1.10	10.04	0.65	0.28
cassa	14.9		Culvert									
cassa	14.5	Max WS	10.50	61.18		61.25	58.99	0.001617	1.22	8.64	1.00	0.31
cassa	14.499		Lat Struct									
cassa	14	Max WS	10.64	61.12		61.20	58.89	0.001696	1.25	8.49	1.10	0.33
cassa	13	Max WS	10.76	60.97		61.07	58.71	0.002048	1.35	7.96	1.05	0.36
cassa	12	Max WS	10.59	60.98		61.05	58.60	0.001153	1.11	9.57	1.20	0.27
cassa	11.8		Culvert									
cassa	11.6	Max WS	10.55	60.87		60.94	58.60	0.001410	1.18	8.92	1.16	0.30
cassa	11.599		Lat Struct									
cassa	11	Max WS	10.45	60.82		60.91	58.66	0.002078	1.35	7.99	0.68	0.37
cassa	10	Max WS	1.00	60.31		60.31	58.51	0.000074	0.21	4.70	0.80	0.06
cassa	9	Max WS	11.35	60.49	59.22	60.53	58.17	0.000573	0.78	14.52	1.22	0.21
cassa	8.9		Bridge									
cassa	8.8	Max WS	11.35	60.36		60.43	58.40	0.001529	1.17	9.67	1.08	0.32
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	1.00	60.31		60.31	58.21	0.000025	0.14	7.01	1.00	0.04
cassa	8	Max WS	1.00	60.30		60.31	58.21	0.000025	0.14	7.01	1.00	0.04
cassa	7	Max WS	1.00	60.30		60.30	57.99	0.000022	0.13	7.45	1.01	0.04
cassa	6	Max WS	0.76	60.30		60.30	57.76	0.000007	0.09	8.95	1.12	0.02
cassa	5.5	Max WS	0.04	60.30		60.30	57.26	0.000000	0.00	11.72	1.29	0.00
cassa	5	Max WS	0.00	60.30	56.78	60.30	56.75	0.000000	0.00	15.95	1.46	0.00
cassa	4.5		Bridge									
cassa	4.3	Max WS	0.00	60.30		60.30	56.75	0.000000	0.00	15.95	1.46	0.00
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	0.00	60.30		60.30	56.75	0.000000	0.00	15.95	1.46	0.00
cassa	3	Max WS	0.00	60.30		60.30	55.96	0.000000	0.00	26.61	1.73	0.00
cassa	2	Max WS	0.00	60.30		60.30	55.35	0.000000	0.00	37.57	2.08	0.00
cassa	1.6	Max WS	0.00	60.30	55.31	60.30	55.30	0.000000	0.00	43.54	2.37	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.59		60.59	55.26	0.000000	0.00	47.99	2.51	0.00
cassa	1	Max WS	0.00	60.59	55.22	60.59	55.21	0.000000	0.00	48.52	2.53	0.00

HEC-RAS Plan: vicar_T20_d3 Profile: Max WS

Storage Area	Profile	W.S. Elev	SA Min EI	SA Volume
		(m)	(m)	(1000 m3)
cassa_vicariato	Max WS	71.32	70.77	0.25
dx1	Max WS	59.01	55.00	8.92
dx2	Max WS	60.74	59.60	1.08
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.30	55.25	7.43
sx2	Max WS	58.80	58.80	0.00

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	2.23	73.58		73.74	72.82	0.015811	1.76	1.28	0.33	0.92
cassa	48.999	Max WS	2.23	73.56	73.56	73.74	72.82	0.018969	1.85	1.21	0.32	0.98
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.77	72.42		72.52	71.59	0.010232	1.46	1.21	0.36	0.70
cassa	47	Max WS	2.13	71.11		71.28	70.14	0.014471	1.87	1.18	0.34	0.79
cassa	46.4	Max WS	2.23	71.00	71.02	71.29	70.14	0.025198	2.41	0.95	0.35	1.01
cassa	46	Max WS	2.23	70.44		70.63	69.41	0.016204	1.90	1.18	0.38	0.84
cassa	45	Max WS	2.23	69.14	69.16	69.37	68.50	0.023776	2.13	1.05	0.34	1.10
cassa	44	Max WS	2.23	68.07		68.18	67.42	0.010684	1.44	1.55	0.34	0.75
cassa	43	Max WS	2.23	67.02		67.06	66.06	0.002050	0.83	2.68	0.52	0.34
cassa	42	Max WS	2.23	66.84		66.87	65.85	0.001614	0.80	2.79	0.58	0.31
cassa	41	Max WS	2.23	66.67		66.70	65.47	0.001582	0.77	2.90	0.56	0.31
cassa	40	Max WS	2.23	66.67		66.69	65.50	0.000394	0.52	4.29	0.70	0.19
cassa	39	Max WS	4.86	66.24		66.45	65.48	0.009233	2.03	2.39	0.50	0.86
cassa	38	Max WS	4.86	66.25		66.34	65.06	0.002651	1.32	3.68	0.68	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	4.86	65.76		65.94	64.80	0.006567	1.85	2.63	0.57	0.73
cassa	36	Max WS	4.86	65.31	65.46	65.82	64.71	0.030668	3.16	1.54	0.40	1.52
cassa	35	Max WS	4.86	64.96		64.99	63.50	0.000528	0.72	6.73	0.92	0.22
cassa	34.9		Culvert									
cassa	34.5	Max WS	4.86	64.90		64.93	63.50	0.000622	0.77	6.34	0.89	0.24
cassa	34	Max WS	4.86	64.88		64.92	63.67	0.001047	0.92	5.30	0.78	0.31
cassa	33	Max WS	7.23	64.37		64.48	63.12	0.004482	1.47	4.93	0.53	0.61
cassa	32	Max WS	7.36	64.25		64.35	62.85	0.003753	1.40	5.28	0.57	0.56
cassa	31	Max WS	7.59	64.07		64.16	62.37	0.004511	1.32	5.77	0.45	0.60
cassa	30	Max WS	8.01	63.62		63.76	62.24	0.004357	1.64	4.90	0.64	0.61
cassa	29.9	Max WS	8.03	63.58	63.22	63.73	62.24	0.004349	1.72	4.67	0.69	0.61
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	8.03	62.37		62.71	61.24	0.010378	2.58	3.12	0.66	0.87
cassa	29	Max WS	8.06	62.50		62.62	61.10	0.002552	1.51	5.35	0.85	0.43
cassa	28.9		Culvert									
cassa	28	Max WS	8.05	62.18		62.32	61.02	0.003543	1.66	4.85	0.76	0.56
cassa	27.99		Lat Struct									
cassa	27	Max WS	8.16	62.15		62.25	60.82	0.002193	1.40	5.81	0.85	0.44
cassa	26	Max WS	8.42	62.05		62.14	60.47	0.001712	1.31	6.44	0.92	0.40
cassa	25	Max WS	8.67	61.90		62.02	60.33	0.002684	1.55	5.58	0.85	0.49
cassa	24	Max WS	8.75	61.91		61.99	60.33	0.001343	1.20	7.27	0.98	0.35
cassa	23.9		Culvert									
cassa	23.5	Max WS	8.74	61.85		61.93	60.33	0.001549	1.27	6.90	0.95	0.37
cassa	23.499		Lat Struct									
cassa	23	Max WS	9.04	61.74		61.83	59.97	0.001640	1.31	6.92	0.95	0.39
cassa	22	Max WS	9.32	61.69		61.75	59.81	0.000926	1.06	8.77	1.07	0.30
cassa	21	Max WS	9.57	61.64		61.70	59.73	0.000923	1.06	9.07	1.06	0.30
cassa	20	Max WS	9.92	61.59		61.63	59.63	0.000732	0.97	10.23	0.99	0.27
cassa	19	Max WS	10.22	61.55		61.59	59.32	0.000479	0.84	12.17	1.03	0.22
cassa	18	Max WS	10.26	61.56	60.10	61.58	59.14	0.000349	0.70	14.57	1.20	0.19
cassa	17.9		Bridge									
cassa	17.5	Max WS	10.26	61.55		61.58	59.14	0.000401	0.71	14.51	1.21	0.18
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	10.49	61.51		61.55	59.10	0.000772	0.92	11.39	1.25	0.23
cassa	16	Max WS	10.87	61.37		61.45	59.05	0.001835	1.29	8.86	0.61	0.34
cassa	15	Max WS	10.93	61.37		61.43	58.99	0.001166	1.10	10.80	0.62	0.27
cassa	14.9		Culvert									
cassa	14.5	Max WS	10.93	61.23		61.30	58.99	0.001577	1.22	9.05	0.81	0.31
cassa	14.499		Lat Struct									
cassa	14	Max WS	11.07	61.17		61.25	58.89	0.001658	1.26	8.82	1.12	0.33
cassa	13	Max WS	10.75	61.06		61.14	58.71	0.001728	1.28	8.43	1.08	0.33
cassa	12	Max WS	10.20	61.07		61.12	58.60	0.000917	1.01	10.08	1.23	0.24
cassa	11.8		Culvert									
cassa	11.6	Max WS	10.16	60.96		61.02	58.60	0.001106	1.08	9.43	1.19	0.26
cassa	11.599		Lat Struct									
cassa	11	Max WS	9.73	60.94		61.01	58.66	0.001334	1.13	9.45	0.59	0.30
cassa	10	Max WS	11.22	60.67		60.83	58.51	0.003977	1.76	6.38	0.94	0.49
cassa	9	Max WS	11.91	60.77	59.25	60.80	58.17	0.000385	0.68	17.48	1.34	0.17
cassa	8.9		Bridge									
cassa	8.8	Max WS	11.88	60.68		60.73	58.40	0.000941	0.99	11.97	1.20	0.26
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	11.70	60.63		60.72	58.21	0.001803	1.34	8.75	1.13	0.34
cassa	8	Max WS	10.99	60.62		60.70	58.21	0.001600	1.26	8.73	1.13	0.32
cassa	7	Max WS	9.80	60.61		60.67	57.99	0.001142	1.08	9.11	1.13	0.27
cassa	6	Max WS	8.51	60.61		60.64	57.76	0.000536	0.81	10.57	1.23	0.18
cassa	5.5	Max WS	7.16	60.62		60.63	57.26	0.000165	0.54	13.45	1.39	0.11
cassa	5	Max WS	6.09	60.63	58.00	60.64	56.75	0.000068	0.33	18.66	1.59	0.07
cassa	4.5		Bridge									
cassa	4.3	Max WS	6.04	60.62		60.63	56.75	0.000067	0.32	19.12	1.40	0.07
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	5.93	60.62		60.63	56.75	0.000064	0.32	19.11	1.40	0.07
cassa	3	Max WS	6.10	60.62		60.62	55.96	0.000019	0.20	30.80	1.79	0.04
cassa	2	Max WS	0.01	60.63		60.63	55.35	0.000000	0.00	42.31	2.22	0.00
cassa	1.6	Max WS	0.00	60.63	55.31	60.63	55.30	0.000000	0.00	48.31	2.52	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.71		61.71	55.26	0.000000	0.00	64.96	3.03	0.00
cassa	1	Max WS	0.00	61.71	55.22	61.71	55.21	0.000000	0.00	65.48	3.05	0.00

HEC-RAS Plan: Vic_T200_d6 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.27	70.77	0.23
dx1	Max WS	59.86	55.00	133.57
dx2	Max WS	60.93	59.60	3.12
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.62	55.25	24.89
sx2	Max WS	61.29	58.80	0.13

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	1.40	73.50		73.60	72.82	0.012495	1.39	1.01	0.28	0.79
cassa	48.999	Max WS	1.40	73.47		73.59	72.82	0.016612	1.53	0.92	0.27	0.90
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.38	72.32		72.42	71.59	0.010074	1.41	0.97	0.35	0.69
cassa	47	Max WS	1.39	70.95		71.09	70.14	0.012445	1.63	0.86	0.34	0.70
cassa	46.4	Max WS	1.40	70.84	70.83	71.06	70.14	0.025337	2.09	0.67	0.31	0.98
cassa	46	Max WS	1.40	70.28		70.43	69.41	0.015798	1.67	0.84	0.32	0.81
cassa	45	Max WS	1.40	69.04	69.04	69.20	68.50	0.020694	1.76	0.80	0.28	1.00
cassa	44	Max WS	1.40	67.97		68.05	67.42	0.011053	1.24	1.13	0.26	0.74
cassa	43	Max WS	1.40	66.82		66.85	66.06	0.002048	0.75	1.86	0.44	0.34
cassa	42	Max WS	1.40	66.63		66.66	65.85	0.001709	0.71	1.97	0.47	0.31
cassa	41	Max WS	1.40	66.43		66.46	65.47	0.001977	0.74	1.89	0.44	0.33
cassa	40	Max WS	1.40	66.43		66.44	65.50	0.000390	0.46	3.06	0.58	0.18
cassa	39	Max WS	3.05	66.04	66.02	66.23	65.48	0.011912	1.92	1.59	0.38	0.95
cassa	38	Max WS	3.05	66.01		66.08	65.06	0.002797	1.18	2.59	0.55	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	3.05	65.59		65.71	64.80	0.005876	1.55	1.96	0.47	0.68
cassa	36	Max WS	3.05	65.19	65.29	65.56	64.71	0.028971	2.67	1.14	0.32	1.44
cassa	35	Max WS	3.07	64.72		64.74	63.50	0.000414	0.58	5.27	0.80	0.19
cassa	34.9		Culvert									
cassa	34.5	Max WS	3.07	64.68		64.70	63.50	0.000467	0.61	5.04	0.78	0.20
cassa	34	Max WS	3.06	64.66		64.69	63.67	0.000868	0.75	4.07	0.67	0.28
cassa	33	Max WS	4.69	64.07		64.19	63.12	0.004047	1.53	3.07	0.61	0.58
cassa	32	Max WS	4.75	63.93		64.06	62.85	0.004452	1.58	3.01	0.60	0.59
cassa	31	Max WS	4.85	63.66		63.80	62.37	0.004293	1.61	3.01	0.63	0.58
cassa	30	Max WS	5.03	63.35		63.45	62.24	0.003047	1.42	3.55	0.68	0.50
cassa	29.9	Max WS	5.04	63.32	62.99	63.43	62.24	0.003306	1.46	3.45	0.66	0.52
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	5.04	62.09		62.36	61.24	0.010745	2.29	2.20	0.54	0.87
cassa	29	Max WS	5.06	62.20		62.28	61.10	0.002152	1.24	4.08	0.72	0.40
cassa	28.9		Culvert									
cassa	28	Max WS	5.04	61.82		61.96	61.02	0.005391	1.67	3.03	0.56	0.67
cassa	27.99		Lat Struct									
cassa	27	Max WS	5.09	61.78		61.87	60.82	0.002847	1.34	3.80	0.65	0.49
cassa	26	Max WS	5.21	61.65		61.73	60.47	0.002066	1.22	4.26	0.72	0.42
cassa	25	Max WS	5.31	61.45		61.58	60.33	0.003926	1.57	3.37	0.65	0.57
cassa	24	Max WS	5.35	61.47		61.53	60.33	0.001664	1.13	4.74	0.76	0.38
cassa	23.9		Culvert									
cassa	23.5	Max WS	5.31	61.39		61.47	60.33	0.002071	1.22	4.37	0.72	0.42
cassa	23.499		Lat Struct									
cassa	23	Max WS	5.20	61.25		61.33	59.97	0.002056	1.23	4.24	0.73	0.42
cassa	22	Max WS	5.34	61.19		61.23	59.81	0.001024	0.95	5.62	0.84	0.31
cassa	21	Max WS	5.45	61.13		61.17	59.73	0.001053	0.96	5.70	0.83	0.31
cassa	20	Max WS	5.63	61.06		61.10	59.63	0.000841	0.88	6.42	0.86	0.28
cassa	19	Max WS	5.81	61.03		61.06	59.32	0.000455	0.71	8.15	1.00	0.21
cassa	18	Max WS	5.84	61.04	59.85	61.05	59.14	0.000252	0.57	10.19	1.13	0.16
cassa	17.9		Bridge									
cassa	17.5	Max WS	5.84	61.03		61.05	59.14	0.000345	0.57	10.16	1.13	0.16
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	5.97	61.00		61.02	59.10	0.000664	0.75	7.93	1.03	0.21
cassa	16	Max WS	6.19	60.87		60.94	59.05	0.001744	1.09	5.67	0.88	0.33
cassa	15	Max WS	6.23	60.88		60.92	58.99	0.000993	0.89	7.02	0.98	0.24
cassa	14.9		Culvert									
cassa	14.5	Max WS	6.23	60.83		60.87	58.99	0.001100	0.92	6.75	0.96	0.26
cassa	14.499		Lat Struct									
cassa	14	Max WS	6.31	60.78		60.83	58.89	0.001185	0.96	6.61	0.96	0.28
cassa	13	Max WS	6.50	60.69		60.74	58.71	0.001341	1.01	6.44	0.95	0.29
cassa	12	Max WS	6.55	60.69		60.73	58.60	0.000732	0.82	7.98	1.09	0.21
cassa	11.8		Culvert									
cassa	11.6	Max WS	6.55	60.65		60.69	58.60	0.000787	0.84	7.77	1.08	0.22
cassa	11.599		Lat Struct									
cassa	11	Max WS	6.59	60.62		60.67	58.66	0.001319	1.00	6.60	0.94	0.29
cassa	10	Max WS	3.74	60.43		60.45	58.51	0.000780	0.71	5.23	0.85	0.21
cassa	9	Max WS	6.85	60.47	58.98	60.48	58.17	0.000220	0.48	14.25	1.21	0.13
cassa	8.9		Bridge									
cassa	8.8	Max WS	4.06	60.43		60.44	58.40	0.000171	0.40	10.16	1.11	0.11
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	3.70	60.43		60.44	58.21	0.000271	0.48	7.66	1.04	0.13
cassa	8	Max WS	3.66	60.42		60.43	58.21	0.000267	0.48	7.64	1.04	0.13
cassa	7	Max WS	3.40	60.41		60.42	57.99	0.000200	0.42	8.06	1.05	0.11
cassa	6	Max WS	2.62	60.42		60.42	57.76	0.000069	0.27	9.55	1.17	0.07
cassa	5.5	Max WS	1.62	60.42		60.42	57.26	0.000011	0.13	12.36	1.33	0.03
cassa	5	Max WS	1.44	60.42	57.42	60.42	56.75	0.000005	0.09	16.92	1.50	0.02
cassa	4.5		Bridge									
cassa	4.3	Max WS	1.40	60.42		60.42	56.75	0.000005	0.08	17.05	1.29	0.02
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	1.38	60.42		60.42	56.75	0.000005	0.08	17.05	1.29	0.02
cassa	3	Max WS	0.96	60.42		60.42	55.96	0.000001	0.03	28.12	1.68	0.01
cassa	2	Max WS	0.00	60.42		60.42	55.35	0.000000	0.00	39.28	2.13	0.00
cassa	1.6	Max WS	0.00	60.42	55.31	60.42	55.30	0.000000	0.00	45.26	2.43	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.87		60.87	55.26	0.000000	0.00	52.23	2.64	0.00
cassa	1	Max WS	0.00	60.87	55.22	60.87	55.21	0.000000	0.00	52.76	2.66	0.00

HEC-RAS Plan: vicar_T20_d6 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.14	70.77	0.17
dx1	Max WS	59.23	55.00	26.39
dx2	Max WS	59.60	59.60	0.00
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.42	55.25	11.94
sx2	Max WS	58.80	58.80	0.00

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	1.58	73.52		73.63	72.82	0.013548	1.49	1.06	0.29	0.83
cassa	48.999	Max WS	1.58	73.49		73.63	72.82	0.017684	1.62	0.97	0.28	0.93
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.49	72.35		72.45	71.59	0.010171	1.43	1.04	0.35	0.69
cassa	47	Max WS	1.55	70.98		71.13	70.14	0.013173	1.72	0.92	0.34	0.72
cassa	46.4	Max WS	1.58	70.88	70.87	71.11	70.14	0.025017	2.16	0.73	0.32	0.98
cassa	46	Max WS	1.58	70.32		70.47	69.41	0.015860	1.73	0.91	0.33	0.81
cassa	45	Max WS	1.58	69.06	69.07	69.24	68.50	0.021736	1.86	0.85	0.29	1.03
cassa	44	Max WS	1.58	67.99		68.08	67.42	0.010873	1.29	1.23	0.28	0.74
cassa	43	Max WS	1.58	66.86		66.89	66.06	0.002060	0.78	2.04	0.46	0.34
cassa	42	Max WS	1.58	66.68		66.71	65.85	0.001680	0.73	2.15	0.50	0.31
cassa	41	Max WS	1.58	66.49		66.52	65.47	0.001863	0.75	2.11	0.47	0.33
cassa	40	Max WS	1.58	66.49		66.50	65.50	0.000392	0.47	3.33	0.61	0.18
cassa	39	Max WS	3.44	66.08		66.28	65.48	0.011231	1.95	1.76	0.41	0.93
cassa	38	Max WS	3.44	66.06		66.14	65.06	0.002758	1.21	2.83	0.58	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	3.44	65.63		65.76	64.80	0.006057	1.63	2.11	0.50	0.69
cassa	36	Max WS	3.44	65.22	65.33	65.62	64.71	0.029485	2.79	1.23	0.34	1.46
cassa	35	Max WS	3.45	64.78		64.80	63.50	0.000434	0.61	5.64	0.83	0.20
cassa	34.9		Culvert									
cassa	34.5	Max WS	3.45	64.74		64.76	63.50	0.000493	0.64	5.38	0.81	0.21
cassa	34	Max WS	3.44	64.72		64.75	63.67	0.000885	0.78	4.39	0.70	0.28
cassa	33	Max WS	5.31	64.20		64.30	63.12	0.004130	1.46	3.64	0.56	0.58
cassa	32	Max WS	5.41	64.06		64.17	62.85	0.005286	1.42	3.80	0.45	0.64
cassa	31	Max WS	5.57	63.78		63.91	62.37	0.005093	1.57	3.54	0.54	0.63
cassa	30	Max WS	5.87	63.44		63.55	62.24	0.003078	1.48	3.96	0.72	0.51
cassa	29.9	Max WS	5.88	63.41	63.06	63.53	62.24	0.003336	1.53	3.85	0.71	0.53
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	5.88	62.17		62.46	61.24	0.010632	2.39	2.46	0.58	0.87
cassa	29	Max WS	5.90	62.29		62.38	61.10	0.002281	1.32	4.46	0.76	0.41
cassa	28.9		Culvert									
cassa	28	Max WS	5.90	61.94		62.07	61.02	0.004423	1.63	3.61	0.63	0.61
cassa	27.99		Lat Struct									
cassa	27	Max WS	5.97	61.91		62.00	60.82	0.002480	1.34	4.46	0.73	0.46
cassa	26	Max WS	6.16	61.79		61.87	60.47	0.001841	1.23	5.00	0.80	0.40
cassa	25	Max WS	6.33	61.62		61.74	60.33	0.003139	1.52	4.17	0.73	0.52
cassa	24	Max WS	6.39	61.64		61.70	60.33	0.001427	1.13	5.67	0.85	0.36
cassa	23.9		Culvert									
cassa	23.5	Max WS	6.39	61.58		61.65	60.33	0.001677	1.19	5.35	0.82	0.38
cassa	23.499		Lat Struct									
cassa	23	Max WS	6.59	61.46		61.54	59.97	0.001765	1.24	5.33	0.83	0.40
cassa	22	Max WS	6.79	61.41		61.46	59.81	0.000929	0.98	6.94	0.95	0.29
cassa	21	Max WS	6.97	61.36		61.40	59.73	0.000938	0.98	7.12	0.94	0.30
cassa	20	Max WS	7.21	61.30		61.34	59.63	0.000746	0.90	8.05	0.98	0.27
cassa	19	Max WS	7.44	61.27		61.30	59.32	0.000443	0.75	9.88	1.11	0.21
cassa	18	Max WS	7.48	61.28	59.95	61.30	59.14	0.000257	0.62	12.11	1.24	0.16
cassa	17.9		Bridge									
cassa	17.5	Max WS	7.48	61.27		61.29	59.14	0.000353	0.62	12.07	1.24	0.16
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	7.64	61.23		61.27	59.10	0.000675	0.81	9.46	1.13	0.22
cassa	16	Max WS	7.93	61.11		61.18	59.05	0.001708	1.15	6.88	0.96	0.33
cassa	15	Max WS	7.97	61.11		61.16	58.99	0.001047	0.96	8.28	1.06	0.25
cassa	14.9		Culvert									
cassa	14.5	Max WS	7.97	61.03		61.08	58.99	0.001211	1.02	7.84	1.03	0.27
cassa	14.499		Lat Struct									
cassa	14	Max WS	8.08	60.99		61.04	58.89	0.001256	1.04	7.74	1.05	0.29
cassa	13	Max WS	8.31	60.89		60.95	58.71	0.001475	1.11	7.47	1.01	0.30
cassa	12	Max WS	8.36	60.89		60.93	58.60	0.000855	0.93	9.03	1.16	0.23
cassa	11.8		Culvert									
cassa	11.6	Max WS	8.36	60.82		60.87	58.60	0.000957	0.97	8.66	1.14	0.25
cassa	11.599		Lat Struct									
cassa	11	Max WS	8.34	60.79		60.85	58.66	0.001438	1.11	7.67	0.73	0.31
cassa	10	Max WS	8.57	60.58		60.69	58.51	0.002865	1.44	5.94	0.90	0.41
cassa	9	Max WS	8.73	60.65	59.09	60.67	58.17	0.000254	0.54	16.18	1.29	0.14
cassa	8.9		Bridge									
cassa	8.8	Max WS	8.73	60.60		60.63	58.40	0.000583	0.77	11.38	1.17	0.20
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	8.72	60.57		60.62	58.21	0.001119	1.03	8.44	1.10	0.26
cassa	8	Max WS	8.33	60.56		60.61	58.21	0.001031	0.99	8.41	1.10	0.25
cassa	7	Max WS	7.58	60.55		60.59	57.99	0.000762	0.86	8.79	1.11	0.22
cassa	6	Max WS	6.47	60.55		60.57	57.76	0.000338	0.63	10.27	1.21	0.15
cassa	5.5	Max WS	5.11	60.56		60.57	57.26	0.000091	0.39	13.12	1.37	0.08
cassa	5	Max WS	4.27	60.57	57.84	60.57	56.75	0.000037	0.24	18.12	1.56	0.05
cassa	4.5		Bridge									
cassa	4.3	Max WS	4.27	60.56		60.56	56.75	0.000036	0.24	18.49	1.37	0.05
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	4.22	60.56		60.56	56.75	0.000036	0.23	18.48	1.37	0.05
cassa	3	Max WS	4.00	60.56		60.56	55.96	0.000009	0.14	29.98	1.76	0.03
cassa	2	Max WS	0.01	60.56		60.56	55.35	0.000000	0.00	41.38	2.20	0.00
cassa	1.6	Max WS	0.00	60.56	55.31	60.56	55.30	0.000000	0.00	47.37	2.49	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.62		61.62	55.26	0.000000	0.00	63.59	2.99	0.00
cassa	1	Max WS	0.00	61.62	55.22	61.62	55.21	0.000000	0.00	64.11	3.01	0.00

HEC-RAS Plan: Vic_T200_d9 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.17	70.77	0.19
dx1	Max WS	59.78	55.00	112.89
dx2	Max WS	60.72	59.60	1.01
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.56	55.25	20.02
sx2	Max WS	58.80	58.80	0.00

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	1.37	73.50		73.59	72.82	0.012348	1.37	1.00	0.28	0.79
cassa	48.999	Max WS	1.37	73.47		73.59	72.82	0.016432	1.51	0.91	0.26	0.89
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.35	72.31		72.42	71.59	0.010046	1.41	0.96	0.35	0.68
cassa	47	Max WS	1.36	70.95		71.08	70.14	0.012466	1.62	0.85	0.33	0.70
cassa	46.4	Max WS	1.37	70.83	70.82	71.05	70.14	0.025368	2.07	0.66	0.31	0.97
cassa	46	Max WS	1.37	70.27		70.42	69.41	0.015752	1.66	0.82	0.32	0.80
cassa	45	Max WS	1.37	69.04	69.03	69.19	68.50	0.020409	1.74	0.79	0.28	0.99
cassa	44	Max WS	1.37	67.96		68.04	67.42	0.011077	1.23	1.11	0.26	0.74
cassa	43	Max WS	1.37	66.81		66.84	66.06	0.002052	0.75	1.83	0.44	0.34
cassa	42	Max WS	1.37	66.62		66.65	65.85	0.001713	0.71	1.93	0.46	0.31
cassa	41	Max WS	1.37	66.42		66.45	65.47	0.002001	0.74	1.85	0.44	0.34
cassa	40	Max WS	1.37	66.42		66.43	65.50	0.000390	0.45	3.01	0.57	0.18
cassa	39	Max WS	2.98	66.03	66.02	66.22	65.48	0.012035	1.91	1.56	0.38	0.95
cassa	38	Max WS	2.98	65.99		66.06	65.06	0.002803	1.17	2.54	0.54	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	2.98	65.58		65.70	64.80	0.005839	1.54	1.93	0.47	0.67
cassa	36	Max WS	2.98	65.19	65.29	65.54	64.71	0.028598	2.64	1.13	0.32	1.43
cassa	35	Max WS	3.01	64.71		64.73	63.50	0.000408	0.58	5.22	0.79	0.19
cassa	34.9		Culvert									
cassa	34.5	Max WS	3.01	64.67		64.69	63.50	0.000461	0.60	5.00	0.77	0.20
cassa	34	Max WS	2.99	64.65		64.68	63.67	0.000858	0.74	4.02	0.67	0.27
cassa	33	Max WS	4.61	64.07		64.18	63.12	0.003912	1.50	3.06	0.61	0.57
cassa	32	Max WS	4.69	63.93		64.06	62.85	0.004362	1.55	3.02	0.59	0.59
cassa	31	Max WS	4.83	63.67		63.80	62.37	0.004164	1.59	3.03	0.64	0.57
cassa	30	Max WS	5.09	63.35		63.46	62.24	0.003042	1.42	3.59	0.68	0.50
cassa	29.9	Max WS	5.11	63.33	63.00	63.44	62.24	0.003307	1.47	3.49	0.67	0.52
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	5.11	62.10		62.37	61.24	0.010721	2.30	2.22	0.54	0.87
cassa	29	Max WS	5.12	62.21		62.28	61.10	0.002163	1.25	4.11	0.72	0.40
cassa	28.9		Culvert									
cassa	28	Max WS	5.12	61.85		61.98	61.02	0.004899	1.62	3.16	0.58	0.64
cassa	27.99		Lat Struct									
cassa	27	Max WS	5.18	61.81		61.90	60.82	0.002620	1.31	3.96	0.67	0.47
cassa	26	Max WS	5.35	61.69		61.76	60.47	0.001900	1.20	4.47	0.75	0.41
cassa	25	Max WS	5.50	61.51		61.63	60.33	0.003377	1.50	3.66	0.68	0.53
cassa	24	Max WS	5.55	61.53		61.59	60.33	0.001480	1.10	5.07	0.79	0.36
cassa	23.9		Culvert									
cassa	23.5	Max WS	5.55	61.47		61.54	60.33	0.001765	1.17	4.76	0.76	0.39
cassa	23.499		Lat Struct									
cassa	23	Max WS	5.72	61.35		61.42	59.97	0.001853	1.21	4.72	0.78	0.40
cassa	22	Max WS	5.90	61.29		61.34	59.81	0.000946	0.95	6.22	0.89	0.30
cassa	21	Max WS	6.05	61.23		61.28	59.73	0.000962	0.95	6.36	0.88	0.30
cassa	20	Max WS	6.25	61.18		61.22	59.63	0.000763	0.87	7.19	0.92	0.27
cassa	19	Max WS	6.46	61.15		61.17	59.32	0.000431	0.72	8.98	1.06	0.21
cassa	18	Max WS	6.49	61.15	59.89	61.17	59.14	0.000245	0.58	11.11	1.18	0.16
cassa	17.9		Bridge									
cassa	17.5	Max WS	6.49	61.15		61.17	59.14	0.000336	0.59	11.08	1.18	0.16
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	6.63	61.11		61.14	59.10	0.000642	0.76	8.68	1.08	0.21
cassa	16	Max WS	6.87	61.00		61.06	59.05	0.001631	1.09	6.29	0.92	0.32
cassa	15	Max WS	6.91	61.00		61.04	58.99	0.000966	0.90	7.67	1.02	0.24
cassa	14.9		Culvert									
cassa	14.5	Max WS	6.91	60.94		60.98	58.99	0.001083	0.94	7.35	1.00	0.25
cassa	14.499		Lat Struct									
cassa	14	Max WS	7.00	60.90		60.95	58.89	0.001133	0.97	7.25	1.01	0.27
cassa	13	Max WS	7.21	60.81		60.86	58.71	0.001289	1.02	7.07	0.99	0.28
cassa	12	Max WS	7.25	60.81		60.85	58.60	0.000730	0.84	8.62	1.14	0.21
cassa	11.8		Culvert									
cassa	11.6	Max WS	7.25	60.76		60.80	58.60	0.000795	0.87	8.35	1.12	0.22
cassa	11.599		Lat Struct									
cassa	11	Max WS	7.29	60.73		60.79	58.66	0.001252	1.01	7.25	0.85	0.29
cassa	10	Max WS	7.48	60.55		60.64	58.51	0.002347	1.29	5.80	0.89	0.37
cassa	9	Max WS	7.57	60.61	59.02	60.62	58.17	0.000206	0.48	15.71	1.27	0.13
cassa	8.9		Bridge									
cassa	8.8	Max WS	7.57	60.57		60.59	58.40	0.000463	0.68	11.15	1.16	0.18
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	7.56	60.55		60.59	58.21	0.000883	0.91	8.30	1.09	0.24
cassa	8	Max WS	7.28	60.54		60.58	58.21	0.000827	0.88	8.28	1.09	0.23
cassa	7	Max WS	6.73	60.52		60.55	57.99	0.000631	0.78	8.65	1.10	0.20
cassa	6	Max WS	5.67	60.53		60.54	57.76	0.000270	0.56	10.14	1.21	0.13
cassa	5.5	Max WS	4.33	60.53		60.54	57.26	0.000068	0.34	12.98	1.36	0.07
cassa	5	Max WS	3.64	60.54	57.77	60.54	56.75	0.000028	0.20	17.89	1.55	0.04
cassa	4.5		Bridge									
cassa	4.3	Max WS	3.64	60.54		60.54	56.75	0.000027	0.20	18.22	1.35	0.04
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	3.60	60.53		60.54	56.75	0.000027	0.20	18.22	1.35	0.04
cassa	3	Max WS	3.27	60.54		60.54	55.96	0.000006	0.11	29.64	1.75	0.02
cassa	2	Max WS	0.01	60.54		60.54	55.35	0.000000	0.00	40.98	2.18	0.00
cassa	1.6	Max WS	0.00	60.54	55.31	60.54	55.30	0.000000	0.00	46.98	2.48	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.40		61.40	55.26	0.000000	0.00	60.26	2.90	0.00
cassa	1	Max WS	0.00	61.40	55.22	61.40	55.21	0.000000	0.00	60.78	2.91	0.00

HEC-RAS Plan: Vic_T100_d9 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min El (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	71.13	70.77	0.17
dx1	Max WS	59.60	55.00	79.62
dx2	Max WS	60.65	59.60	0.62
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.53	55.25	17.94
sx2	Max WS	58.80	58.80	0.00

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	1.06	73.45		73.53	72.82	0.011987	1.25	0.85	0.25	0.76
cassa	48.999	Max WS	1.06	73.42		73.52	72.82	0.015782	1.38	0.77	0.24	0.86
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.06	72.23		72.33	71.59	0.010384	1.34	0.79	0.31	0.69
cassa	47	Max WS	1.03	70.87		70.97	70.14	0.011300	1.44	0.72	0.31	0.66
cassa	46.4	Max WS	1.06	70.75	70.74	70.94	70.14	0.024144	1.91	0.56	0.28	0.94
cassa	46	Max WS	1.06	70.20		70.32	69.41	0.015429	1.55	0.69	0.29	0.78
cassa	45	Max WS	1.06	68.99	68.98	69.12	68.50	0.019689	1.58	0.67	0.25	0.96
cassa	44	Max WS	1.06	67.92		67.98	67.42	0.011031	1.13	0.94	0.23	0.73
cassa	43	Max WS	1.06	66.72		66.74	66.06	0.002077	0.70	1.52	0.39	0.33
cassa	42	Max WS	1.06	66.53		66.55	65.85	0.001765	0.66	1.60	0.41	0.31
cassa	41	Max WS	1.06	66.32		66.34	65.47	0.002251	0.72	1.47	0.39	0.35
cassa	40	Max WS	1.06	66.31		66.32	65.50	0.000381	0.42	2.52	0.52	0.18
cassa	39	Max WS	2.31	65.95	65.95	66.12	65.48	0.013352	1.82	1.27	0.32	0.98
cassa	38	Max WS	2.31	65.89		65.95	65.06	0.002866	1.10	2.11	0.48	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	2.31	65.50		65.60	64.80	0.005547	1.40	1.65	0.42	0.65
cassa	36	Max WS	2.31	65.13	65.21	65.43	64.71	0.028050	2.42	0.96	0.28	1.39
cassa	35	Max WS	2.32	64.59		64.60	63.50	0.000358	0.51	4.54	0.73	0.18
cassa	34.9		Culvert									
cassa	34.5	Max WS	2.32	64.56		64.57	63.50	0.000396	0.53	4.38	0.71	0.19
cassa	34	Max WS	2.32	64.54		64.56	63.67	0.000794	0.67	3.45	0.61	0.26
cassa	33	Max WS	3.57	63.93		64.04	63.12	0.004146	1.43	2.50	0.54	0.57
cassa	32	Max WS	3.64	63.80		63.91	62.85	0.004094	1.45	2.51	0.56	0.56
cassa	31	Max WS	3.75	63.53		63.64	62.37	0.004096	1.49	2.52	0.58	0.56
cassa	30	Max WS	3.95	63.22		63.31	62.24	0.002977	1.31	3.00	0.61	0.49
cassa	29.9	Max WS	3.96	63.20	62.89	63.29	62.24	0.003257	1.36	2.91	0.60	0.51
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	3.96	61.97		62.21	61.24	0.010925	2.15	1.84	0.48	0.88
cassa	29	Max WS	3.97	62.07		62.13	61.10	0.001970	1.12	3.56	0.66	0.38
cassa	28.9		Culvert									
cassa	28	Max WS	3.97	61.70		61.83	61.02	0.005832	1.59	2.50	0.49	0.68
cassa	27.99		Lat Struct									
cassa	27	Max WS	4.02	61.66		61.74	60.82	0.002876	1.25	3.21	0.59	0.49
cassa	26	Max WS	4.14	61.53		61.60	60.47	0.001980	1.13	3.68	0.66	0.41
cassa	25	Max WS	4.26	61.34		61.45	60.33	0.003750	1.46	2.92	0.60	0.56
cassa	24	Max WS	4.30	61.35		61.41	60.33	0.001556	1.03	4.16	0.70	0.37
cassa	23.9		Culvert									
cassa	23.5	Max WS	4.30	61.29		61.36	60.33	0.001929	1.11	3.86	0.66	0.40
cassa	23.499		Lat Struct									
cassa	23	Max WS	4.44	61.16		61.23	59.97	0.001995	1.16	3.81	0.69	0.41
cassa	22	Max WS	4.57	61.10		61.14	59.81	0.000962	0.89	5.14	0.80	0.29
cassa	21	Max WS	4.69	61.04		61.08	59.73	0.000989	0.90	5.22	0.79	0.30
cassa	20	Max WS	4.84	60.99		61.02	59.63	0.000777	0.82	5.92	0.83	0.27
cassa	19	Max WS	5.00	60.96		60.98	59.32	0.000402	0.65	7.64	0.97	0.20
cassa	18	Max WS	5.02	60.96	59.79	60.97	59.14	0.000218	0.52	9.61	1.09	0.15
cassa	17.9		Bridge									
cassa	17.5	Max WS	5.02	60.96		60.97	59.14	0.000300	0.52	9.58	1.09	0.15
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	5.13	60.93		60.95	59.10	0.000571	0.68	7.50	1.00	0.20
cassa	16	Max WS	5.32	60.83		60.88	59.05	0.001444	0.98	5.43	0.86	0.30
cassa	15	Max WS	5.35	60.83		60.86	58.99	0.000808	0.79	6.77	0.96	0.22
cassa	14.9		Culvert									
cassa	14.5	Max WS	5.35	60.79		60.82	58.99	0.000872	0.81	6.58	0.95	0.23
cassa	14.499		Lat Struct									
cassa	14	Max WS	5.42	60.76		60.79	58.89	0.000927	0.84	6.47	0.95	0.24
cassa	13	Max WS	5.58	60.69		60.73	58.71	0.000991	0.87	6.43	0.95	0.25
cassa	12	Max WS	5.61	60.69		60.72	58.60	0.000541	0.70	7.96	1.09	0.18
cassa	11.8		Culvert									
cassa	11.6	Max WS	5.61	60.66		60.69	58.60	0.000569	0.72	7.81	1.08	0.19
cassa	11.599		Lat Struct									
cassa	11	Max WS	5.65	60.64		60.68	58.66	0.000932	0.84	6.70	0.95	0.25
cassa	10	Max WS	5.81	60.51		60.56	58.51	0.001575	1.04	5.60	0.87	0.30
cassa	9	Max WS	5.85	60.54	58.91	60.55	58.17	0.000139	0.39	15.04	1.24	0.10
cassa	8.9		Bridge									
cassa	8.8	Max WS	5.84	60.52		60.53	58.40	0.000302	0.54	10.78	1.14	0.14
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	5.84	60.50		60.53	58.21	0.000573	0.72	8.08	1.07	0.19
cassa	8	Max WS	5.72	60.50		60.52	58.21	0.000555	0.71	8.05	1.07	0.19
cassa	7	Max WS	5.44	60.48		60.51	57.99	0.000446	0.65	8.44	1.08	0.17
cassa	6	Max WS	4.45	60.49		60.50	57.76	0.000177	0.45	9.93	1.19	0.11
cassa	5.5	Max WS	3.15	60.49		60.50	57.26	0.000038	0.25	12.76	1.35	0.05
cassa	5	Max WS	2.69	60.50	57.64	60.50	56.75	0.000016	0.15	17.53	1.53	0.03
cassa	4.5		Bridge									
cassa	4.3	Max WS	2.67	60.49		60.49	56.75	0.000016	0.15	17.80	1.33	0.03
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	2.65	60.49		60.49	56.75	0.000016	0.15	17.80	1.33	0.03
cassa	3	Max WS	2.20	60.49		60.49	55.96	0.000003	0.08	29.08	1.72	0.02
cassa	2	Max WS	0.01	60.49		60.49	55.35	0.000000	0.00	40.36	2.17	0.00
cassa	1.6	Max WS	0.00	60.49	55.31	60.49	55.30	0.000000	0.00	46.35	2.46	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.11		61.11	55.26	0.000000	0.00	55.87	2.76	0.00
cassa	1	Max WS	0.00	61.11	55.22	61.11	55.21	0.000000	0.00	56.39	2.78	0.00

HEC-RAS Plan: vicar_T30_d9 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	70.77	70.77	0.00
dx1	Max WS	59.57	55.00	73.29
dx2	Max WS	59.60	59.60	0.00
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.49	55.25	14.89
sx2	Max WS	58.80	58.80	0.00

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	0.97	73.43		73.51	72.82	0.011996	1.22	0.80	0.24	0.76
cassa	48.999	Max WS	0.97	73.41		73.50	72.82	0.015762	1.35	0.72	0.23	0.86
cassa	48.99		Lat Struct									
cassa	48	Max WS	0.97	72.21		72.30	71.59	0.010355	1.31	0.74	0.30	0.68
cassa	47	Max WS	0.97	70.85		70.95	70.14	0.011033	1.40	0.69	0.31	0.65
cassa	46.4	Max WS	0.97	70.72	70.71	70.90	70.14	0.024608	1.88	0.52	0.27	0.95
cassa	46	Max WS	0.97	70.17		70.29	69.41	0.015425	1.51	0.64	0.28	0.78
cassa	45	Max WS	0.97	68.97	68.96	69.09	68.50	0.019512	1.54	0.63	0.24	0.95
cassa	44	Max WS	0.97	67.90		67.96	67.42	0.011369	1.12	0.87	0.22	0.73
cassa	43	Max WS	0.97	66.69		66.71	66.06	0.002088	0.68	1.42	0.38	0.33
cassa	42	Max WS	0.97	66.50		66.52	65.85	0.001771	0.65	1.50	0.40	0.31
cassa	41	Max WS	0.97	66.28		66.31	65.47	0.002355	0.72	1.36	0.37	0.35
cassa	40	Max WS	0.97	66.28		66.29	65.50	0.000378	0.41	2.37	0.50	0.18
cassa	39	Max WS	2.11	65.93	65.93	66.09	65.48	0.013780	1.78	1.18	0.31	0.99
cassa	38	Max WS	2.11	65.85		65.91	65.06	0.002876	1.07	1.98	0.46	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	2.11	65.48		65.57	64.80	0.005441	1.36	1.56	0.41	0.64
cassa	36	Max WS	2.11	65.12	65.19	65.39	64.71	0.027745	2.34	0.90	0.27	1.38
cassa	35	Max WS	2.11	64.55		64.56	63.50	0.000340	0.49	4.32	0.71	0.17
cassa	34.9		Culvert									
cassa	34.5	Max WS	2.11	64.52		64.53	63.50	0.000373	0.51	4.18	0.69	0.18
cassa	34	Max WS	2.11	64.50		64.52	63.67	0.000772	0.65	3.26	0.58	0.26
cassa	33	Max WS	3.26	63.89		63.99	63.12	0.004200	1.40	2.33	0.52	0.58
cassa	32	Max WS	3.32	63.76		63.86	62.85	0.004077	1.41	2.35	0.54	0.56
cassa	31	Max WS	3.42	63.49		63.59	62.37	0.004064	1.45	2.36	0.56	0.56
cassa	30	Max WS	3.60	63.17		63.26	62.24	0.002951	1.28	2.82	0.59	0.49
cassa	29.9	Max WS	3.61	63.15	62.86	63.24	62.24	0.003237	1.32	2.73	0.58	0.51
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	3.61	61.93		62.16	61.24	0.011019	2.10	1.72	0.46	0.88
cassa	29	Max WS	3.62	62.02		62.08	61.10	0.001909	1.07	3.38	0.63	0.37
cassa	28.9		Culvert									
cassa	28	Max WS	3.62	61.66		61.79	61.02	0.006170	1.57	2.31	0.46	0.70
cassa	27.99		Lat Struct									
cassa	27	Max WS	3.67	61.61		61.69	60.82	0.002970	1.23	2.98	0.56	0.49
cassa	26	Max WS	3.78	61.48		61.54	60.47	0.002005	1.10	3.43	0.63	0.41
cassa	25	Max WS	3.89	61.29		61.40	60.33	0.003884	1.44	2.70	0.58	0.56
cassa	24	Max WS	3.93	61.30		61.35	60.33	0.001586	1.01	3.88	0.67	0.37
cassa	23.9		Culvert									
cassa	23.5	Max WS	3.92	61.24		61.30	60.33	0.002017	1.10	3.57	0.63	0.41
cassa	23.499		Lat Struct									
cassa	23	Max WS	4.05	61.10		61.16	59.97	0.002078	1.15	3.51	0.66	0.42
cassa	22	Max WS	4.16	61.03		61.07	59.81	0.000980	0.87	4.77	0.77	0.30
cassa	21	Max WS	4.27	60.97		61.01	59.73	0.001011	0.88	4.83	0.76	0.30
cassa	20	Max WS	4.40	60.91		60.95	59.63	0.000793	0.80	5.48	0.79	0.27
cassa	19	Max WS	4.54	60.89		60.91	59.32	0.000394	0.63	7.17	0.94	0.19
cassa	18	Max WS	4.56	60.89	59.76	60.90	59.14	0.000211	0.50	9.08	1.06	0.14
cassa	17.9		Bridge									
cassa	17.5	Max WS	4.56	60.89		60.90	59.14	0.000289	0.50	9.06	1.06	0.15
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	4.66	60.86		60.88	59.10	0.000550	0.66	7.08	0.97	0.19
cassa	16	Max WS	4.83	60.76		60.81	59.05	0.001389	0.94	5.12	0.83	0.29
cassa	15	Max WS	4.86	60.76		60.79	58.99	0.000760	0.75	6.44	0.94	0.21
cassa	14.9		Culvert									
cassa	14.5	Max WS	4.85	60.73		60.76	58.99	0.000811	0.77	6.28	0.92	0.22
cassa	14.499		Lat Struct									
cassa	14	Max WS	4.91	60.70		60.73	58.89	0.000870	0.80	6.17	0.92	0.24
cassa	13	Max WS	5.05	60.64		60.67	58.71	0.000906	0.82	6.17	0.93	0.24
cassa	12	Max WS	5.08	60.64		60.66	58.60	0.000486	0.66	7.69	1.07	0.17
cassa	11.8		Culvert									
cassa	11.6	Max WS	5.07	60.62		60.64	58.60	0.000507	0.67	7.57	1.06	0.18
cassa	11.599		Lat Struct									
cassa	11	Max WS	5.10	60.60		60.63	58.66	0.000838	0.79	6.46	0.93	0.23
cassa	10	Max WS	5.11	60.48		60.53	58.51	0.001289	0.93	5.48	0.87	0.27
cassa	9	Max WS	5.23	60.51	58.87	60.52	58.17	0.000117	0.36	14.71	1.23	0.09
cassa	8.9		Bridge									
cassa	8.8	Max WS	5.17	60.49		60.50	58.40	0.000248	0.49	10.59	1.13	0.13
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	5.12	60.48		60.50	58.21	0.000462	0.64	7.95	1.06	0.17
cassa	8	Max WS	5.01	60.48		60.50	58.21	0.000447	0.63	7.92	1.06	0.17
cassa	7	Max WS	4.76	60.46		60.48	57.99	0.000356	0.57	8.32	1.07	0.15
cassa	6	Max WS	3.84	60.47		60.47	57.76	0.000137	0.39	9.81	1.18	0.09
cassa	5.5	Max WS	2.62	60.47		60.47	57.26	0.000027	0.21	12.63	1.34	0.04
cassa	5	Max WS	2.29	60.47	57.58	60.47	56.75	0.000012	0.13	17.34	1.52	0.03
cassa	4.5		Bridge									
cassa	4.3	Max WS	2.23	60.47		60.47	56.75	0.000011	0.13	17.56	1.32	0.03
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	2.22	60.47		60.47	56.75	0.000011	0.13	17.56	1.32	0.03
cassa	3	Max WS	1.75	60.47		60.47	55.96	0.000002	0.06	28.78	1.71	0.01
cassa	2	Max WS	0.00	60.47		60.47	55.35	0.000000	0.00	40.02	2.15	0.00
cassa	1.6	Max WS	0.00	60.47	55.31	60.47	55.30	0.000000	0.00	46.01	2.45	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.93		60.93	55.26	0.000000	0.00	53.14	2.67	0.00
cassa	1	Max WS	0.00	60.93	55.22	60.93	55.21	0.000000	0.00	53.67	2.69	0.00

HEC-RAS Plan: vicar_T20_d9 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	70.77	70.77	0.00
dx1	Max WS	59.43	55.00	51.32
dx2	Max WS	59.60	59.60	0.00
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.47	55.25	14.00
sx2	Max WS	58.80	58.80	0.00

HEC-RAS Plan: Vic_T200_d12 River: vicariato Reach: cassa Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	1.24	73.48		73.57	72.82	0.012071	1.32	0.94	0.26	0.77
cassa	48.999	Max WS	1.24	73.45		73.56	72.82	0.016145	1.46	0.85	0.25	0.88
cassa	48.99		Lat Struct									
cassa	48	Max WS	1.24	72.29		72.38	71.59	0.010150	1.39	0.90	0.33	0.68
cassa	47	Max WS	1.24	70.91		71.04	70.14	0.012441	1.58	0.79	0.33	0.70
cassa	46.4	Max WS	1.24	70.80	70.78	71.00	70.14	0.024900	2.01	0.62	0.30	0.96
cassa	46	Max WS	1.24	70.25		70.38	69.41	0.015490	1.61	0.77	0.31	0.79
cassa	45	Max WS	1.24	69.02	69.01	69.16	68.50	0.020112	1.68	0.74	0.27	0.98
cassa	44	Max WS	1.24	67.95		68.02	67.42	0.011094	1.19	1.05	0.25	0.73
cassa	43	Max WS	1.24	66.77		66.80	66.06	0.002058	0.73	1.70	0.42	0.33
cassa	42	Max WS	1.24	66.59		66.61	65.85	0.001743	0.69	1.80	0.44	0.31
cassa	41	Max WS	1.24	66.38		66.41	65.47	0.002118	0.74	1.69	0.42	0.34
cassa	40	Max WS	1.24	66.38		66.39	65.50	0.000391	0.44	2.80	0.55	0.18
cassa	39	Max WS	2.69	66.00	65.99	66.18	65.48	0.012518	1.87	1.44	0.36	0.96
cassa	38	Max WS	2.69	65.95		66.02	65.06	0.002811	1.14	2.36	0.52	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	2.69	65.55		65.66	64.80	0.005707	1.48	1.82	0.45	0.66
cassa	36	Max WS	2.69	65.17	65.26	65.49	64.71	0.028088	2.54	1.06	0.31	1.41
cassa	35	Max WS	2.72	64.66		64.68	63.50	0.000389	0.55	4.94	0.77	0.19
cassa	34.9		Culvert									
cassa	34.5	Max WS	2.72	64.62		64.64	63.50	0.000436	0.57	4.74	0.75	0.20
cassa	34	Max WS	2.71	64.61		64.63	63.67	0.000837	0.72	3.78	0.64	0.27
cassa	33	Max WS	4.17	64.01		64.12	63.12	0.004047	1.48	2.81	0.58	0.57
cassa	32	Max WS	4.24	63.88		63.99	62.85	0.004136	1.52	2.80	0.60	0.57
cassa	31	Max WS	4.37	63.61		63.74	62.37	0.004145	1.55	2.82	0.61	0.57
cassa	30	Max WS	4.60	63.30		63.39	62.24	0.003018	1.38	3.34	0.65	0.50
cassa	29.9	Max WS	4.61	63.28	62.95	63.38	62.24	0.003290	1.42	3.24	0.64	0.52
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	4.61	62.05		62.30	61.24	0.010781	2.24	2.06	0.52	0.87
cassa	29	Max WS	4.62	62.15		62.22	61.10	0.002081	1.19	3.88	0.69	0.39
cassa	28.9		Culvert									
cassa	28	Max WS	4.62	61.78		61.92	61.02	0.005276	1.61	2.87	0.54	0.66
cassa	27.99		Lat Struct									
cassa	27	Max WS	4.68	61.74		61.83	60.82	0.002732	1.29	3.63	0.64	0.48
cassa	26	Max WS	4.82	61.62		61.69	60.47	0.001940	1.17	4.12	0.71	0.41
cassa	25	Max WS	4.96	61.44		61.55	60.33	0.003543	1.49	3.33	0.65	0.54
cassa	24	Max WS	5.00	61.45		61.51	60.33	0.001513	1.07	4.67	0.75	0.36
cassa	23.9		Culvert									
cassa	23.5	Max WS	5.00	61.39		61.46	60.33	0.001839	1.15	4.36	0.72	0.40
cassa	23.499		Lat Struct									
cassa	23	Max WS	5.16	61.26		61.34	59.97	0.001927	1.20	4.31	0.74	0.41
cassa	22	Max WS	5.32	61.21		61.25	59.81	0.000961	0.93	5.73	0.85	0.30
cassa	21	Max WS	5.45	61.15		61.19	59.73	0.000984	0.93	5.84	0.84	0.30
cassa	20	Max WS	5.64	61.09		61.13	59.63	0.000778	0.85	6.61	0.88	0.27
cassa	19	Max WS	5.81	61.06		61.09	59.32	0.000423	0.69	8.37	1.02	0.20
cassa	18	Max WS	5.84	61.07	59.85	61.08	59.14	0.000236	0.56	10.43	1.14	0.15
cassa	17.9		Bridge									
cassa	17.5	Max WS	5.84	61.06		61.08	59.14	0.000323	0.56	10.40	1.14	0.16
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	5.96	61.03		61.06	59.10	0.000617	0.73	8.14	1.05	0.21
cassa	16	Max WS	6.17	60.92		60.98	59.05	0.001564	1.05	5.89	0.89	0.31
cassa	15	Max WS	6.21	60.92		60.96	58.99	0.000903	0.86	7.25	1.00	0.23
cassa	14.9		Culvert									
cassa	14.5	Max WS	6.21	60.87		60.91	58.99	0.000994	0.89	7.00	0.98	0.24
cassa	14.499		Lat Struct									
cassa	14	Max WS	6.28	60.84		60.88	58.89	0.001045	0.91	6.90	0.98	0.26
cassa	13	Max WS	6.46	60.76		60.80	58.71	0.001155	0.95	6.78	0.97	0.27
cassa	12	Max WS	6.50	60.76		60.79	58.60	0.000643	0.78	8.32	1.12	0.20
cassa	11.8		Culvert									
cassa	11.6	Max WS	6.50	60.72		60.75	58.60	0.000689	0.80	8.11	1.10	0.21
cassa	11.599		Lat Struct									
cassa	11	Max WS	6.53	60.69		60.74	58.66	0.001107	0.93	7.00	0.97	0.27
cassa	10	Max WS	6.73	60.53		60.60	58.51	0.001997	1.18	5.71	0.88	0.34
cassa	9	Max WS	6.78	60.58	58.97	60.59	58.17	0.000175	0.44	15.40	1.26	0.12
cassa	8.9		Bridge									
cassa	8.8	Max WS	6.78	60.55		60.56	58.40	0.000387	0.62	10.98	1.15	0.16
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	6.78	60.53		60.56	58.21	0.000737	0.83	8.21	1.08	0.21
cassa	8	Max WS	6.57	60.52		60.55	58.21	0.000701	0.80	8.18	1.08	0.21
cassa	7	Max WS	6.16	60.51		60.53	57.99	0.000547	0.72	8.56	1.09	0.18
cassa	6	Max WS	5.14	60.51		60.52	57.76	0.000228	0.51	10.04	1.20	0.12
cassa	5.5	Max WS	3.81	60.52		60.52	57.26	0.000054	0.30	12.88	1.36	0.06
cassa	5	Max WS	3.23	60.52	57.72	60.52	56.75	0.000022	0.18	17.73	1.54	0.04
cassa	4.5		Bridge									
cassa	4.3	Max WS	3.23	60.52		60.52	56.75	0.000022	0.18	18.03	1.35	0.04
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	3.20	60.52		60.52	56.75	0.000022	0.18	18.03	1.35	0.04
cassa	3	Max WS	2.79	60.52		60.52	55.96	0.000005	0.10	29.39	1.74	0.02
cassa	2	Max WS	0.01	60.52		60.52	55.35	0.000000	0.00	40.71	2.18	0.00
cassa	1.6	Max WS	0.00	60.52	55.31	60.52	55.30	0.000000	0.00	46.70	2.47	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	61.30		61.30	55.26	0.000000	0.00	58.74	2.85	0.00
cassa	1	Max WS	0.00	61.30	55.22	61.30	55.21	0.000000	0.00	59.26	2.87	0.00

HEC-RAS Plan: Vic_T200_d12 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	70.77	70.77	0.00
dx1	Max WS	59.52	55.00	64.00
dx2	Max WS	60.59	59.60	0.39
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.52	55.25	16.47
sx2	Max WS	58.80	58.80	0.00

HEC-RAS Plan: vicar_T20_d12 River: vicariato Reach: cassa Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
cassa	49	Max WS	0.75	73.38		73.45	72.82	0.012342	1.16	0.64	0.22	0.75
cassa	48.999	Max WS	0.75	73.35		73.44	72.82	0.016728	1.31	0.57	0.21	0.87
cassa	48.99		Lat Struct									
cassa	48	Max WS	0.75	72.14		72.22	71.59	0.010555	1.24	0.60	0.27	0.68
cassa	47	Max WS	0.75	70.78		70.86	70.14	0.010034	1.26	0.59	0.29	0.61
cassa	46.4	Max WS	0.75	70.65		70.81	70.14	0.023703	1.74	0.43	0.25	0.93
cassa	46	Max WS	0.75	70.10		70.21	69.41	0.015047	1.41	0.53	0.25	0.76
cassa	45	Max WS	0.75	68.93		69.03	68.50	0.018475	1.39	0.54	0.21	0.91
cassa	44	Max WS	0.75	67.85		67.91	67.42	0.011627	1.06	0.71	0.20	0.73
cassa	43	Max WS	0.75	66.61		66.63	66.06	0.002121	0.64	1.18	0.34	0.33
cassa	42	Max WS	0.75	66.42		66.44	65.85	0.001769	0.60	1.24	0.36	0.31
cassa	41	Max WS	0.75	66.19		66.21	65.47	0.002693	0.70	1.07	0.32	0.37
cassa	40	Max WS	0.75	66.19		66.19	65.50	0.000367	0.38	1.98	0.45	0.17
cassa	39	Max WS	1.62	65.86	65.87	66.01	65.48	0.015609	1.70	0.95	0.26	1.03
cassa	38	Max WS	1.62	65.76		65.81	65.06	0.002970	0.99	1.63	0.41	0.48
cassa	37.9		Culvert									
cassa	37	Max WS	1.62	65.40		65.48	64.80	0.005242	1.23	1.31	0.37	0.62
cassa	36	Max WS	1.62	65.07	65.13	65.30	64.71	0.027481	2.13	0.76	0.24	1.35
cassa	35	Max WS	1.62	64.45		64.45	63.50	0.000287	0.43	3.80	0.66	0.16
cassa	34.9		Culvert									
cassa	34.5	Max WS	1.62	64.42		64.43	63.50	0.000310	0.44	3.69	0.64	0.16
cassa	34	Max WS	1.62	64.41		64.43	63.67	0.000694	0.58	2.81	0.53	0.24
cassa	33	Max WS	2.51	63.77		63.86	63.12	0.004508	1.33	1.89	0.46	0.59
cassa	32	Max WS	2.54	63.64		63.73	62.85	0.004103	1.31	1.94	0.48	0.56
cassa	31	Max WS	2.58	63.35		63.44	62.37	0.004088	1.35	1.91	0.50	0.55
cassa	30	Max WS	2.66	63.04		63.11	62.24	0.002857	1.16	2.30	0.52	0.47
cassa	29.9	Max WS	2.67	63.02	62.76	63.09	62.24	0.003144	1.20	2.22	0.51	0.50
cassa	29.85		Inl Struct									
cassa	29.8	Max WS	2.67	61.82		62.01	61.24	0.011337	1.93	1.38	0.40	0.88
cassa	29	Max WS	2.67	61.89		61.93	61.10	0.001698	0.94	2.85	0.56	0.35
cassa	28.9		Culvert									
cassa	28	Max WS	2.67	61.53		61.65	61.02	0.007650	1.53	1.75	0.38	0.76
cassa	27.99		Lat Struct									
cassa	27	Max WS	2.69	61.46		61.53	60.82	0.003447	1.17	2.30	0.46	0.52
cassa	26	Max WS	2.74	61.32		61.37	60.47	0.002138	1.02	2.68	0.54	0.42
cassa	25	Max WS	2.80	61.12		61.21	60.33	0.004312	1.37	2.05	0.49	0.58
cassa	24	Max WS	2.81	61.12		61.16	60.33	0.001687	0.93	3.01	0.56	0.37
cassa	23.9		Culvert									
cassa	23.5	Max WS	2.81	61.05		61.10	60.33	0.002400	1.05	2.67	0.52	0.44
cassa	23.499		Lat Struct									
cassa	23	Max WS	2.86	60.89		60.95	59.97	0.002376	1.10	2.61	0.56	0.44
cassa	22	Max WS	2.92	60.81		60.85	59.81	0.001017	0.80	3.65	0.65	0.30
cassa	21	Max WS	2.96	60.75		60.79	59.73	0.001034	0.81	3.67	0.65	0.30
cassa	20	Max WS	3.02	60.69		60.72	59.63	0.000778	0.72	4.20	0.68	0.26
cassa	19	Max WS	3.10	60.67		60.68	59.32	0.000326	0.53	5.80	0.83	0.17
cassa	18	Max WS	3.11	60.67	59.65	60.68	59.14	0.000165	0.41	7.52	0.95	0.13
cassa	17.9		Bridge									
cassa	17.5	Max WS	3.11	60.67		60.68	59.14	0.000226	0.41	7.50	0.95	0.13
cassa	17.4999		Lat Struct									
cassa	17.499		Lat Struct									
cassa	17	Max WS	3.16	60.65		60.66	59.10	0.000418	0.54	5.88	0.88	0.17
cassa	16	Max WS	3.25	60.58		60.61	59.05	0.001003	0.76	4.30	0.76	0.24
cassa	15	Max WS	3.26	60.58		60.60	58.99	0.000511	0.59	5.56	0.87	0.17
cassa	14.9		Culvert									
cassa	14.5	Max WS	3.26	60.56		60.58	58.99	0.000530	0.60	5.48	0.86	0.18
cassa	14.499		Lat Struct									
cassa	14	Max WS	3.30	60.55		60.56	58.89	0.000580	0.62	5.35	0.85	0.19
cassa	13	Max WS	3.37	60.51		60.53	58.71	0.000543	0.61	5.52	0.88	0.18
cassa	12	Max WS	3.39	60.51		60.52	58.60	0.000278	0.48	7.01	1.02	0.13
cassa	11.8		Culvert									
cassa	11.6	Max WS	3.39	60.50		60.51	58.60	0.000284	0.49	6.95	1.02	0.13
cassa	11.599		Lat Struct									
cassa	11	Max WS	3.40	60.49		60.50	58.66	0.000485	0.58	5.86	0.89	0.18
cassa	10	Max WS	3.45	60.43		60.45	58.51	0.000663	0.66	5.23	0.85	0.19
cassa	9	Max WS	3.51	60.44	58.73	60.45	58.17	0.000061	0.25	13.99	1.20	0.07
cassa	8.9		Bridge									
cassa	8.8	Max WS	3.47	60.43		60.44	58.40	0.000125	0.34	10.15	1.10	0.09
cassa	8.7999		Lat Struct									
cassa	8.799		Lat Struct									
cassa	8.7	Max WS	3.47	60.43		60.44	58.21	0.000238	0.45	7.66	1.04	0.12
cassa	8	Max WS	3.47	60.42		60.43	58.21	0.000239	0.45	7.64	1.04	0.12
cassa	7	Max WS	3.41	60.41		60.42	57.99	0.000201	0.42	8.06	1.05	0.11
cassa	6	Max WS	2.63	60.42		60.42	57.76	0.000069	0.28	9.55	1.17	0.07
cassa	5.5	Max WS	1.46	60.42		60.42	57.26	0.000009	0.12	12.36	1.33	0.03
cassa	5	Max WS	1.25	60.42	57.37	60.42	56.75	0.000004	0.07	16.91	1.50	0.02
cassa	4.5		Bridge									
cassa	4.3	Max WS	1.24	60.42		60.42	56.75	0.000004	0.07	17.05	1.29	0.02
cassa	4.2999		Lat Struct									
cassa	4.299		Lat Struct									
cassa	4	Max WS	1.19	60.42		60.42	56.75	0.000003	0.07	17.05	1.29	0.02
cassa	3	Max WS	0.83	60.42		60.42	55.96	0.000000	0.03	28.11	1.68	0.01
cassa	2	Max WS	0.00	60.42		60.42	55.35	0.000000	0.00	39.27	2.13	0.00
cassa	1.6	Max WS	0.00	60.42	55.31	60.42	55.30	0.000000	0.00	45.25	2.43	0.00
cassa	1.5		Inl Struct									
cassa	1.4	Max WS	0.00	60.86		60.86	55.26	0.000000	0.00	52.08	2.64	0.00
cassa	1	Max WS	0.00	60.86	55.22	60.86	55.21	0.000000	0.00	52.60	2.66	0.00

HEC-RAS Plan: vicar_T20_d12 Profile: Max WS

Storage Area	Profile	W.S. Elev (m)	SA Min EI (m)	SA Volume (1000 m3)
cassa_vicariato	Max WS	70.77	70.77	0.00
dx1	Max WS	59.41	55.00	48.31
dx2	Max WS	59.60	59.60	0.00
dx3	Max WS	57.80	57.80	0.00
sx1	Max WS	60.42	55.25	11.99
sx2	Max WS	58.80	58.80	0.00

Corso d'acqua :**Borro della Valle**(pagine 81-85)

Eventi: Durata 1 ora (critica) → Tr200

Tr100

Tr30

Tr20

HEC-RAS Plan: lavalle_T200_d1 River: la valle Reach: dx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
dx	6	Max WS	8.81	69.54		69.74	68.08	0.007030	1.99	4.43	0.76	0.67
dx	5.83333*	Max WS	8.81	69.47		69.67	68.00	0.007013	2.00	4.41	0.76	0.66
dx	5.66666*	Max WS	8.80	69.40		69.60	67.92	0.006871	1.99	4.43	0.77	0.66
dx	5.5*	Max WS	8.80	69.34		69.53	67.84	0.006650	1.97	4.47	0.78	0.64
dx	5.33333*	Max WS	8.80	69.28		69.47	67.76	0.006301	1.94	4.55	0.79	0.63
dx	5.16666*	Max WS	8.79	69.23		69.41	67.68	0.005873	1.89	4.66	0.80	0.60
dx	5	Max WS	8.79	69.18		69.35	67.60	0.005366	1.83	4.81	0.82	0.58
dx	4.88888*	Max WS	8.78	69.13		69.30	67.55	0.005465	1.84	4.77	0.81	0.58
dx	4.77777*	Max WS	8.78	69.07		69.25	67.50	0.005580	1.85	4.74	0.81	0.59
dx	4.66666*	Max WS	8.78	69.02		69.19	67.46	0.005729	1.87	4.69	0.80	0.59
dx	4.55555*	Max WS	8.77	68.96		69.14	67.41	0.005912	1.89	4.64	0.80	0.60
dx	4.44444*	Max WS	8.76	68.89		69.08	67.36	0.006144	1.92	4.57	0.79	0.61
dx	4.33333*	Max WS	8.75	68.83		69.02	67.31	0.006463	1.95	4.48	0.78	0.63
dx	4.22222*	Max WS	8.73	68.75		68.96	67.27	0.006892	2.00	4.37	0.77	0.65
dx	4.11111*	Max WS	8.71	68.67		68.89	67.22	0.007566	2.06	4.22	0.76	0.68
dx	4	Max WS	8.71	68.57		68.81	67.17	0.008850	2.18	3.99	0.73	0.73
dx	3.92307*	Max WS	8.64	68.50		68.73	67.06	0.007773	2.09	4.13	0.76	0.68
dx	3.84615*	Max WS	8.63	68.46		68.66	66.94	0.006416	1.96	4.41	0.79	0.62
dx	3.76923*	Max WS	8.63	68.44		68.60	66.83	0.005073	1.80	4.79	0.83	0.55
dx	3.69230*	Max WS	8.64	68.42		68.56	66.71	0.003946	1.65	5.24	0.88	0.48
dx	3.61538*	Max WS	8.64	68.41		68.53	66.60	0.003055	1.50	5.76	0.93	0.42
dx	3.53846*	Max WS	8.64	68.41		68.50	66.49	0.002378	1.37	6.32	0.97	0.36
dx	3.46153*	Max WS	8.64	68.40		68.48	66.37	0.001870	1.25	6.93	1.01	0.32
dx	3.38461*	Max WS	8.64	68.40		68.47	66.26	0.001487	1.14	7.58	1.05	0.28
dx	3.30769*	Max WS	8.64	68.40		68.45	66.14	0.001196	1.05	8.26	1.09	0.25
dx	3.23076*	Max WS	8.64	68.40		68.44	66.03	0.000974	0.96	8.98	1.12	0.22
dx	3.15384*	Max WS	8.64	68.39		68.43	65.92	0.000800	0.89	9.73	1.15	0.19
dx	3.07692*	Max WS	8.64	68.39		68.43	65.80	0.000663	0.82	10.52	1.18	0.17
dx	3	Max WS	8.64	68.39		68.42	65.65	0.000533	0.75	11.51	1.20	0.15
dx	2.9	Culvert										
dx	2	Max WS	8.44	67.49		67.52	65.00	0.000407	0.68	12.49	1.22	0.14
dx	1	Max WS	8.39	67.48	66.29	67.51	65.25	0.000497	0.74	12.44	0.80	0.20

HEC-RAS Plan: lavalle_T100_d1 River: la valle Reach: dx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
dx	6	Max WS	7.87	69.46		69.65	68.08	0.007143	1.94	4.05	0.72	0.67
dx	5.83333*	Max WS	7.87	69.39		69.58	68.00	0.007135	1.95	4.03	0.73	0.67
dx	5.66666*	Max WS	7.86	69.32		69.51	67.92	0.006990	1.94	4.05	0.73	0.66
dx	5.5*	Max WS	7.86	69.25		69.44	67.84	0.006745	1.92	4.09	0.74	0.64
dx	5.33333*	Max WS	7.86	69.20		69.38	67.76	0.006374	1.89	4.16	0.75	0.63
dx	5.16666*	Max WS	7.85	69.14		69.32	67.68	0.005910	1.84	4.27	0.77	0.60
dx	5	Max WS	7.85	69.10		69.26	67.60	0.005366	1.78	4.42	0.78	0.57
dx	4.88888*	Max WS	7.85	69.04		69.21	67.55	0.005471	1.79	4.39	0.78	0.58
dx	4.77777*	Max WS	7.85	68.99		69.15	67.50	0.005598	1.80	4.35	0.78	0.58
dx	4.66666*	Max WS	7.84	68.93		69.10	67.46	0.005762	1.82	4.30	0.77	0.59
dx	4.55555*	Max WS	7.84	68.87		69.04	67.41	0.005979	1.85	4.25	0.76	0.60
dx	4.44444*	Max WS	7.84	68.81		68.99	67.36	0.006267	1.88	4.17	0.76	0.62
dx	4.33333*	Max WS	7.84	68.74		68.92	67.31	0.006675	1.92	4.08	0.75	0.64
dx	4.22222*	Max WS	7.83	68.66		68.86	67.27	0.007309	1.98	3.95	0.73	0.66
dx	4.11111*	Max WS	7.83	68.56		68.78	67.22	0.008433	2.09	3.75	0.71	0.71
dx	4	Max WS	7.82	68.43		68.70	67.17	0.011059	2.31	3.39	0.67	0.81
dx	3.92307*	Max WS	7.80	68.31		68.59	67.06	0.011298	2.34	3.33	0.68	0.81
dx	3.84615*	Max WS	7.76	68.21		68.48	66.94	0.010533	2.29	3.39	0.69	0.78
dx	3.76923*	Max WS	7.76	68.15		68.39	66.83	0.008771	2.15	3.61	0.72	0.71
dx	3.69230*	Max WS	7.76	68.12		68.31	66.71	0.006679	1.95	3.98	0.76	0.62
dx	3.61538*	Max WS	7.76	68.10		68.26	66.60	0.004923	1.74	4.45	0.81	0.53
dx	3.53846*	Max WS	7.76	68.09		68.22	66.49	0.003620	1.56	4.99	0.86	0.45
dx	3.46153*	Max WS	7.76	68.09		68.19	66.37	0.002697	1.39	5.58	0.91	0.38
dx	3.38461*	Max WS	7.76	68.08		68.16	66.26	0.002040	1.25	6.21	0.95	0.33
dx	3.30769*	Max WS	7.76	68.08		68.15	66.14	0.001566	1.13	6.89	1.00	0.28
dx	3.23076*	Max WS	7.76	68.08		68.13	66.03	0.001223	1.02	7.60	1.03	0.24
dx	3.15384*	Max WS	7.76	68.08		68.12	65.92	0.000968	0.93	8.35	1.07	0.21
dx	3.07692*	Max WS	7.76	68.08		68.11	65.80	0.000777	0.85	9.13	1.10	0.19
dx	3	Max WS	7.76	68.08		68.11	65.65	0.000602	0.77	10.13	1.14	0.16
dx	2.9	Culvert										
dx	2	Max WS	7.58	67.36		67.38	65.00	0.000391	0.64	11.79	1.21	0.13
dx	1	Max WS	7.53	67.34	66.23	67.37	65.25	0.000589	0.76	10.47	0.69	0.21

HEC-RAS Plan: lavalle_T30_d1 River: la valle Reach: dx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
dx	6	Max WS	6.46	69.33		69.51	68.08	0.007331	1.87	3.46	0.67	0.67
dx	5.83333*	Max WS	6.45	69.26		69.43	68.00	0.007321	1.87	3.44	0.67	0.67
dx	5.66666*	Max WS	6.45	69.18		69.36	67.92	0.007166	1.86	3.46	0.68	0.66
dx	5.5*	Max WS	6.44	69.12		69.29	67.84	0.006894	1.84	3.50	0.68	0.65
dx	5.33333*	Max WS	6.44	69.06		69.22	67.76	0.006471	1.80	3.57	0.70	0.63
dx	5.16666*	Max WS	6.44	69.01		69.16	67.68	0.005934	1.75	3.68	0.71	0.60
dx	5	Max WS	6.43	68.96		69.11	67.60	0.005311	1.68	3.83	0.73	0.56
dx	4.88888*	Max WS	6.43	68.91		69.06	67.55	0.005407	1.69	3.80	0.72	0.57
dx	4.77777*	Max WS	6.43	68.86		69.00	67.50	0.005529	1.71	3.77	0.72	0.58
dx	4.66666*	Max WS	6.43	68.80		68.95	67.46	0.005686	1.72	3.73	0.72	0.58
dx	4.55555*	Max WS	6.42	68.74		68.89	67.41	0.005896	1.75	3.68	0.71	0.59
dx	4.44444*	Max WS	6.42	68.68		68.84	67.36	0.006181	1.78	3.62	0.70	0.61
dx	4.33333*	Max WS	6.42	68.61		68.78	67.31	0.006604	1.82	3.53	0.69	0.63
dx	4.22222*	Max WS	6.42	68.53		68.71	67.27	0.007261	1.88	3.41	0.68	0.66
dx	4.11111*	Max WS	6.42	68.43		68.64	67.22	0.008490	1.99	3.22	0.66	0.71
dx	4	Max WS	6.42	68.30		68.55	67.17	0.011618	2.23	2.87	0.62	0.82
dx	3.92307*	Max WS	6.42	68.16		68.44	67.06	0.012538	2.31	2.77	0.61	0.85
dx	3.84615*	Max WS	6.42	68.03		68.32	66.94	0.013297	2.38	2.70	0.61	0.87
dx	3.76923*	Max WS	6.41	67.89		68.19	66.83	0.013752	2.42	2.65	0.61	0.88
dx	3.69230*	Max WS	6.41	67.76		68.06	66.71	0.013398	2.40	2.67	0.62	0.87
dx	3.61538*	Max WS	6.40	67.67		67.93	66.60	0.011251	2.25	2.85	0.64	0.79
dx	3.53846*	Max WS	6.40	67.63		67.83	66.49	0.007964	1.98	3.23	0.68	0.66
dx	3.46153*	Max WS	6.40	67.62		67.77	66.37	0.005361	1.70	3.75	0.74	0.54
dx	3.38461*	Max WS	6.40	67.62		67.73	66.26	0.003664	1.48	4.34	0.79	0.44
dx	3.30769*	Max WS	6.40	67.61		67.70	66.14	0.002567	1.29	4.97	0.84	0.37
dx	3.23076*	Max WS	6.40	67.61		67.68	66.03	0.001848	1.13	5.65	0.89	0.31
dx	3.15384*	Max WS	6.40	67.61		67.66	65.92	0.001359	1.00	6.37	0.93	0.26
dx	3.07692*	Max WS	6.40	67.61		67.65	65.80	0.001023	0.90	7.13	0.97	0.22
dx	3	Max WS	6.40	67.61		67.64	65.65	0.000739	0.79	8.11	1.02	0.18
dx	2.9	Culvert										
dx	2	Max WS	6.23	67.14		67.16	65.00	0.000342	0.58	10.71	1.15	0.13
dx	1	Max WS	6.19	67.12	66.14	67.15	65.25	0.000687	0.75	8.25	1.00	0.22

HEC-RAS Plan: lavalle_T20_d1 River: la valle Reach: dx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
dx	6	Max WS	6.03	69.29		69.46	68.08	0.007387	1.84	3.28	0.65	0.67
dx	5.83333*	Max WS	6.03	69.21		69.39	68.00	0.007377	1.85	3.27	0.65	0.67
dx	5.66666*	Max WS	6.03	69.14		69.31	67.92	0.007223	1.84	3.28	0.66	0.66
dx	5.5*	Max WS	6.02	69.08		69.24	67.84	0.006945	1.82	3.32	0.67	0.65
dx	5.33333*	Max WS	6.02	69.01		69.18	67.76	0.006509	1.78	3.39	0.68	0.62
dx	5.16666*	Max WS	6.01	68.96		69.11	67.68	0.005945	1.72	3.49	0.69	0.60
dx	5	Max WS	6.01	68.92		69.06	67.60	0.005294	1.65	3.64	0.71	0.56
dx	4.88888*	Max WS	6.01	68.87		69.01	67.55	0.005388	1.66	3.62	0.70	0.57
dx	4.77777*	Max WS	6.01	68.81		68.95	67.50	0.005503	1.67	3.59	0.70	0.57
dx	4.66666*	Max WS	6.00	68.76		68.90	67.46	0.005657	1.69	3.55	0.70	0.58
dx	4.55555*	Max WS	6.00	68.70		68.85	67.41	0.005863	1.71	3.51	0.69	0.59
dx	4.44444*	Max WS	6.00	68.64		68.79	67.36	0.006147	1.74	3.45	0.69	0.60
dx	4.33333*	Max WS	6.00	68.57		68.73	67.31	0.006556	1.78	3.37	0.68	0.62
dx	4.22222*	Max WS	6.00	68.49		68.66	67.27	0.007216	1.84	3.25	0.66	0.65
dx	4.11111*	Max WS	6.00	68.40		68.59	67.22	0.008453	1.95	3.07	0.64	0.70
dx	4	Max WS	6.00	68.26		68.50	67.17	0.011669	2.20	2.73	0.60	0.82
dx	3.92307*	Max WS	6.00	68.13		68.39	67.06	0.012599	2.28	2.63	0.60	0.85
dx	3.84615*	Max WS	5.99	67.99		68.27	66.94	0.013440	2.34	2.56	0.60	0.87
dx	3.76923*	Max WS	5.99	67.85		68.14	66.83	0.014091	2.39	2.50	0.59	0.89
dx	3.69230*	Max WS	5.99	67.71		68.00	66.71	0.014403	2.42	2.48	0.59	0.90
dx	3.61538*	Max WS	5.98	67.58		67.86	66.60	0.013556	2.36	2.53	0.60	0.86
dx	3.53846*	Max WS	5.97	67.50		67.74	66.49	0.010690	2.16	2.77	0.62	0.77
dx	3.46153*	Max WS	5.97	67.47		67.65	66.37	0.007140	1.86	3.22	0.67	0.62
dx	3.38461*	Max WS	5.98	67.47		67.59	66.26	0.004688	1.58	3.77	0.73	0.50
dx	3.30769*	Max WS	5.98	67.46		67.56	66.14	0.003158	1.36	4.39	0.78	0.41
dx	3.23076*	Max WS	5.98	67.46		67.53	66.03	0.002198	1.18	5.04	0.83	0.33
dx	3.15384*	Max WS	5.98	67.46		67.51	65.92	0.001569	1.04	5.75	0.88	0.28
dx	3.07692*	Max WS	5.98	67.46		67.50	65.80	0.001150	0.92	6.50	0.92	0.23
dx	3	Max WS	5.97	67.46		67.49	65.65	0.000807	0.80	7.47	0.98	0.19
dx	2.9	Culvert										
dx	2	Max WS	5.82	67.06		67.08	65.00	0.000331	0.56	10.31	1.13	0.13
dx	1	Max WS	5.78	67.04	66.11	67.07	65.25	0.000724	0.75	7.69	0.97	0.23

Corso d'acqua :**Borro delle Forche** (pagine 86-94)

Eventi: Durata 1 ora (critica) → Tr200

Tr100

Tr30

Tr20

HEC-RAS Plan: Forche_200_d1 River: forche Reach: nuovo Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
nuovo	7.1	Max WS	8.85	73.10	73.26	73.73	72.00	0.039487	3.55	2.56	0.49	1.23
nuovo	7	Max WS	8.85	73.05	73.26	73.77	72.00	0.046816	3.76	2.40	0.47	1.33
nuovo	6.99		Lat Struct									
nuovo	6	Max WS	7.46	72.38	72.36	72.74	71.20	0.020480	2.68	2.89	0.54	0.89
nuovo	5.75*	Max WS	5.66	72.10		72.36	71.00	0.015758	2.25	2.59	0.50	0.78
nuovo	5.5*	Max WS	3.25	72.10		72.15	70.80	0.002604	1.02	3.35	0.60	0.32
nuovo	5.25*	Max WS	2.96	72.10		72.13	70.60	0.001191	0.75	4.16	0.69	0.22
nuovo	5	Max WS	2.68	72.10		72.11	70.40	0.000597	0.57	4.97	0.77	0.16
nuovo	4	Max WS	2.60	72.10		72.11	70.00	0.000252	0.42	6.66	0.92	0.10
nuovo	3.775*	Max WS	2.64	72.10		72.10	69.77	0.000154	0.37	7.65	0.99	0.09
nuovo	3.55*	Max WS	2.39	72.10		72.10	69.53	0.000081	0.30	8.69	1.06	0.07
nuovo	3.325*	Max WS	2.71	72.10		72.10	69.30	0.000065	0.31	9.72	1.12	0.07
nuovo	3.1	Max WS	1.90	72.10		72.10	69.07	0.000022	0.20	10.78	1.18	0.04
nuovo	3	Max WS	3.78	72.09		72.10	69.00	0.000047	0.37	11.37	1.13	0.07
nuovo	2.9		Culvert									
nuovo	2.8	Max WS	3.78	69.68	69.67	69.97	68.90	0.010100	2.40	1.58	0.46	0.98
nuovo	2.7	Max WS	3.78	69.63		69.88	68.80	0.011357	2.19	1.72	0.48	0.86
nuovo	2.63*	Max WS	3.77	69.43		69.67	68.58	0.011377	2.14	1.76	0.49	0.84
nuovo	2.56*	Max WS	3.77	69.23		69.46	68.36	0.011376	2.09	1.80	0.50	0.81
nuovo	2.49*	Max WS	3.77	69.03		69.25	68.14	0.011366	2.05	1.84	0.50	0.78
nuovo	2.42*	Max WS	3.77	68.83		69.04	67.92	0.011359	2.00	1.88	0.51	0.76
nuovo	2.35*	Max WS	3.77	68.63		68.83	67.70	0.011349	1.96	1.92	0.52	0.73
nuovo	2.28*	Max WS	3.76	68.43		68.62	67.48	0.011293	1.92	1.96	0.52	0.71
nuovo	2.21*	Max WS	3.76	68.23		68.41	67.26	0.011115	1.87	2.01	0.53	0.68
nuovo	2.14*	Max WS	3.76	68.05		68.21	67.04	0.010556	1.80	2.09	0.54	0.65
nuovo	2.07*	Max WS	3.76	67.89		68.03	66.82	0.009262	1.68	2.23	0.56	0.59
nuovo	2	Max WS	3.75	67.76		67.88	66.60	0.007358	1.52	2.48	0.59	0.51
nuovo	1.94117*	Max WS	3.75	67.62		67.74	66.47	0.007067	1.49	2.52	0.60	0.51
nuovo	1.88235*	Max WS	3.75	67.49		67.60	66.33	0.006693	1.46	2.57	0.60	0.51
nuovo	1.82352*	Max WS	3.74	67.37		67.48	66.19	0.006122	1.41	2.65	0.61	0.50
nuovo	1.76470*	Max WS	3.74	67.27		67.36	66.06	0.005286	1.33	2.80	0.63	0.47
nuovo	1.70588*	Max WS	3.74	67.19		67.27	65.92	0.004288	1.23	3.03	0.65	0.43
nuovo	1.64705*	Max WS	3.73	67.13		67.19	65.79	0.003261	1.11	3.36	0.69	0.38
nuovo	1.58823*	Max WS	3.73	67.09		67.14	65.65	0.002366	0.98	3.80	0.73	0.33
nuovo	1.52941*	Max WS	3.73	67.06		67.10	65.52	0.001676	0.86	4.33	0.77	0.28
nuovo	1.47058*	Max WS	3.73	67.04		67.07	65.38	0.001171	0.75	4.95	0.83	0.24
nuovo	1.41176*	Max WS	3.73	67.03		67.05	65.25	0.000820	0.66	5.66	0.88	0.20
nuovo	1.35294*	Max WS	3.73	67.02		67.04	65.11	0.000579	0.58	6.46	0.94	0.17
nuovo	1.29411*	Max WS	3.73	67.01		67.03	64.98	0.000420	0.51	7.34	0.99	0.15
nuovo	1.23529*	Max WS	3.73	67.01		67.02	64.84	0.000317	0.45	8.33	1.01	0.13
nuovo	1.17647*	Max WS	3.73	67.01		67.01	64.71	0.000240	0.39	9.46	1.02	0.11
nuovo	1.11764*	Max WS	3.73	67.00		67.01	64.57	0.000171	0.35	10.73	1.07	0.10
nuovo	1.05882*	Max WS	3.73	67.00		67.01	64.44	0.000124	0.31	12.13	1.11	0.08
nuovo	1	Max WS	0.90	67.00	64.70	67.00	64.30	0.000005	0.07	13.66	1.16	0.02

HEC-RAS Plan: Forche_200_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev	SA Min El	SA Volume
		(m)	(m)	(1000 m3)
cassa_forche	Max WS	72.09	70.00	14.18

HEC-RAS Plan: Forche_100_d1 River: forche Reach: nuovo Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
nuovo	7.1	Max WS	7.91	73.05	73.20	73.63	72.00	0.038154	3.38	2.38	0.47	1.20
nuovo	7	Max WS	7.91	73.01	73.20	73.66	72.00	0.045205	3.58	2.21	0.44	1.30
nuovo	6.99		Lat Struct									
nuovo	6	Max WS	7.01	72.36	72.33	72.70	71.20	0.019603	2.59	2.81	0.53	0.87
nuovo	5.75*	Max WS	5.27	72.10		72.32	71.00	0.014078	2.12	2.56	0.49	0.73
nuovo	5.5*	Max WS	3.41	71.96		72.04	70.80	0.004680	1.26	2.79	0.53	0.43
nuovo	5.25*	Max WS	2.80	71.95		71.99	70.60	0.001616	0.82	3.58	0.63	0.25
nuovo	5	Max WS	2.63	71.95		71.97	70.40	0.000825	0.64	4.36	0.71	0.18
nuovo	4	Max WS	2.69	71.95		71.96	70.00	0.000354	0.48	6.03	0.87	0.12
nuovo	3.775*	Max WS	2.70	71.95		71.96	69.77	0.000204	0.42	7.02	0.95	0.10
nuovo	3.55*	Max WS	2.56	71.95		71.96	69.53	0.000115	0.35	8.03	1.02	0.08
nuovo	3.325*	Max WS	2.61	71.95		71.95	69.30	0.000074	0.32	9.06	1.08	0.07
nuovo	3.1	Max WS	2.41	71.95		71.95	69.07	0.000041	0.26	10.11	1.14	0.06
nuovo	3	Max WS	3.10	71.95		71.95	69.00	0.000039	0.32	10.42	1.16	0.07
nuovo	2.9		Culvert									
nuovo	2.8	Max WS	3.10	69.59	69.58	69.85	68.90	0.010311	2.29	1.35	0.42	0.98
nuovo	2.7	Max WS	3.10	69.54		69.76	68.80	0.011437	2.08	1.49	0.45	0.86
nuovo	2.63*	Max WS	3.10	69.34		69.55	68.58	0.011461	2.04	1.52	0.45	0.83
nuovo	2.56*	Max WS	3.09	69.14		69.34	68.36	0.011461	1.99	1.55	0.46	0.81
nuovo	2.49*	Max WS	3.09	68.93		69.13	68.14	0.011436	1.95	1.59	0.47	0.78
nuovo	2.42*	Max WS	3.09	68.73		68.92	67.92	0.011447	1.91	1.62	0.47	0.76
nuovo	2.35*	Max WS	3.09	68.53		68.71	67.70	0.011439	1.87	1.65	0.48	0.73
nuovo	2.28*	Max WS	3.09	68.32		68.50	67.48	0.011408	1.83	1.69	0.48	0.71
nuovo	2.21*	Max WS	3.08	68.12		68.29	67.26	0.011264	1.78	1.73	0.49	0.68
nuovo	2.14*	Max WS	3.08	67.93		68.08	67.04	0.010736	1.72	1.79	0.50	0.65
nuovo	2.07*	Max WS	3.07	67.77		67.90	66.82	0.009236	1.60	1.93	0.52	0.59
nuovo	2	Max WS	3.07	67.65		67.75	66.60	0.007034	1.42	2.17	0.56	0.50
nuovo	1.94117*	Max WS	3.07	67.52		67.62	66.47	0.006711	1.39	2.21	0.56	0.50
nuovo	1.88235*	Max WS	3.07	67.40		67.49	66.33	0.006205	1.35	2.28	0.57	0.49
nuovo	1.82352*	Max WS	3.07	67.29		67.37	66.19	0.005466	1.29	2.39	0.58	0.47
nuovo	1.76470*	Max WS	3.07	67.20		67.28	66.06	0.004504	1.20	2.57	0.60	0.43
nuovo	1.70588*	Max WS	3.07	67.14		67.20	65.92	0.003450	1.08	2.85	0.63	0.38
nuovo	1.64705*	Max WS	3.06	67.09		67.14	65.79	0.002467	0.95	3.22	0.67	0.33
nuovo	1.58823*	Max WS	3.06	67.06		67.10	65.65	0.001718	0.83	3.69	0.72	0.28
nuovo	1.52941*	Max WS	3.06	67.04		67.07	65.52	0.001184	0.72	4.24	0.77	0.23
nuovo	1.47058*	Max WS	3.06	67.03		67.05	65.38	0.000812	0.62	4.89	0.82	0.20
nuovo	1.41176*	Max WS	3.05	67.02		67.03	65.25	0.000562	0.54	5.62	0.88	0.16
nuovo	1.35294*	Max WS	3.05	67.01		67.02	65.11	0.000394	0.48	6.42	0.94	0.14
nuovo	1.29411*	Max WS	3.05	67.01		67.02	64.98	0.000283	0.42	7.31	0.99	0.12
nuovo	1.23529*	Max WS	3.05	67.01		67.01	64.84	0.000214	0.37	8.31	1.01	0.11
nuovo	1.17647*	Max WS	3.05	67.00		67.01	64.71	0.000162	0.32	9.45	1.02	0.09
nuovo	1.11764*	Max WS	3.05	67.00		67.01	64.57	0.000115	0.29	10.73	1.07	0.08
nuovo	1.05882*	Max WS	3.05	67.00		67.00	64.44	0.000083	0.25	12.13	1.11	0.07
nuovo	1	Max WS	0.84	67.00	64.69	67.00	64.30	0.000005	0.06	13.66	1.16	0.02

HEC-RAS Plan: Forche_100_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev	SA Min El	SA Volume
		(m)	(m)	(1000 m3)
cassa_forche	Max WS	71.94	70.00	12.28

HEC-RAS Plan: Forche_30_d1 River: forche Reach: nuovo Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
nuovo	7.1	Max WS	6.48	72.96	73.08	73.46	72.00	0.036527	3.14	2.06	0.53	1.17
nuovo	7	Max WS	6.48	72.92	73.08	73.48	72.00	0.042336	3.32	1.96	0.52	1.26
nuovo	6.99		Lat Struct									
nuovo	6	Max WS	6.17	72.31		72.61	71.20	0.017963	2.42	2.63	0.50	0.83
nuovo	5.75*	Max WS	5.19	72.07		72.31	71.00	0.014873	2.15	2.47	0.48	0.75
nuovo	5.5*	Max WS	4.42	71.86		72.04	70.80	0.011282	1.86	2.43	0.48	0.66
nuovo	5.25*	Max WS	2.11	71.71		71.75	70.60	0.002128	0.83	2.62	0.50	0.29
nuovo	5	Max WS	1.90	71.71		71.72	70.40	0.000864	0.59	3.39	0.60	0.18
nuovo	4	Max WS	1.92	71.71		71.72	70.00	0.000299	0.41	5.02	0.78	0.11
nuovo	3.775*	Max WS	2.38	71.71		71.72	69.77	0.000245	0.43	5.99	0.86	0.11
nuovo	3.55*	Max WS	1.83	71.71		71.71	69.53	0.000086	0.28	6.98	0.94	0.07
nuovo	3.325*	Max WS	2.37	71.71		71.71	69.30	0.000085	0.33	7.99	1.01	0.07
nuovo	3.1	Max WS	1.85	71.71		71.71	69.07	0.000033	0.23	9.02	1.08	0.05
nuovo	3	Max WS	2.41	71.71		71.71	69.00	0.000033	0.28	9.33	1.09	0.06
nuovo	2.9		Culvert									
nuovo	2.8	Max WS	2.41	69.49	69.48	69.72	68.90	0.010591	2.15	1.12	0.38	0.99
nuovo	2.7	Max WS	2.41	69.44		69.63	68.80	0.011525	1.95	1.24	0.40	0.86
nuovo	2.63*	Max WS	2.41	69.23		69.42	68.58	0.011550	1.90	1.26	0.41	0.83
nuovo	2.56*	Max WS	2.41	69.03		69.20	68.36	0.011550	1.86	1.29	0.41	0.81
nuovo	2.49*	Max WS	2.41	68.82		68.99	68.14	0.011524	1.82	1.32	0.42	0.78
nuovo	2.42*	Max WS	2.40	68.62		68.78	67.92	0.011526	1.79	1.35	0.43	0.75
nuovo	2.35*	Max WS	2.40	68.41		68.57	67.70	0.011523	1.75	1.37	0.43	0.73
nuovo	2.28*	Max WS	2.40	68.21		68.36	67.48	0.011501	1.71	1.40	0.44	0.71
nuovo	2.21*	Max WS	2.40	68.00		68.15	67.26	0.011428	1.68	1.43	0.44	0.69
nuovo	2.14*	Max WS	2.40	67.81		67.94	67.04	0.011051	1.63	1.48	0.45	0.66
nuovo	2.07*	Max WS	2.40	67.63		67.75	66.82	0.009586	1.52	1.59	0.47	0.60
nuovo	2	Max WS	2.40	67.51		67.60	66.60	0.007047	1.33	1.81	0.50	0.50
nuovo	1.94117*	Max WS	2.40	67.37		67.46	66.47	0.006966	1.32	1.82	0.51	0.50
nuovo	1.88235*	Max WS	2.40	67.23		67.32	66.33	0.006898	1.32	1.82	0.51	0.51
nuovo	1.82352*	Max WS	2.40	67.10		67.19	66.19	0.006881	1.31	1.83	0.50	0.52
nuovo	1.76470*	Max WS	2.40	66.96		67.05	66.06	0.006902	1.31	1.84	0.50	0.52
nuovo	1.70588*	Max WS	2.40	66.83		66.92	65.92	0.006940	1.30	1.84	0.50	0.53
nuovo	1.64705*	Max WS	2.40	66.69		66.78	65.79	0.006933	1.30	1.85	0.49	0.53
nuovo	1.58823*	Max WS	2.40	66.56		66.64	65.65	0.006887	1.29	1.86	0.49	0.54
nuovo	1.52941*	Max WS	2.40	66.43		66.51	65.52	0.006727	1.27	1.89	0.49	0.53
nuovo	1.47058*	Max WS	2.40	66.30		66.38	65.38	0.006217	1.23	1.95	0.49	0.52
nuovo	1.41176*	Max WS	2.40	66.20		66.27	65.25	0.005230	1.15	2.09	0.51	0.48
nuovo	1.35294*	Max WS	2.40	66.12		66.18	65.11	0.003913	1.03	2.33	0.54	0.42
nuovo	1.29411*	Max WS	2.40	66.07		66.11	64.98	0.002642	0.89	2.70	0.58	0.35
nuovo	1.23529*	Max WS	2.40	66.04		66.07	64.84	0.001700	0.76	3.18	0.63	0.28
nuovo	1.17647*	Max WS	2.40	66.02		66.04	64.71	0.001080	0.64	3.77	0.68	0.23
nuovo	1.11764*	Max WS	2.40	66.01		66.03	64.57	0.000691	0.54	4.46	0.74	0.18
nuovo	1.05882*	Max WS	2.40	66.00		66.02	64.44	0.000450	0.46	5.23	0.81	0.15
nuovo	1	Max WS	0.86	66.00	64.70	66.00	64.30	0.000038	0.14	6.09	0.87	0.04

HEC-RAS Plan: Forche_30_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev	SA Min El	SA Volume
		(m)	(m)	(1000 m3)
cassa_forche	Max WS	71.71	70.00	9.73

HEC-RAS Plan: Forche_20_d1 River: forche Reach: nuovo Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
nuovo	7.1	Max WS	6.06	72.93	73.04	73.40	72.00	0.035800	3.06	1.98	0.52	1.16
nuovo	7	Max WS	6.06	72.89	73.04	73.42	72.00	0.041579	3.24	1.87	0.51	1.24
nuovo	6.99		Lat Struct									
nuovo	6	Max WS	5.86	72.30		72.58	71.20	0.017121	2.34	2.57	0.50	0.81
nuovo	5.75*	Max WS	5.03	72.07		72.29	71.00	0.014286	2.10	2.45	0.48	0.74
nuovo	5.5*	Max WS	4.61	71.84		72.04	70.80	0.013447	2.00	2.34	0.46	0.71
nuovo	5.25*	Max WS	4.25	71.66		71.82	70.60	0.010707	1.80	2.41	0.47	0.64
nuovo	5	Max WS	2.53	71.56		71.60	70.40	0.002532	0.93	2.81	0.53	0.31
nuovo	4	Max WS	2.50	71.56		71.58	70.00	0.000724	0.60	4.41	0.72	0.17
nuovo	3.775*	Max WS	2.37	71.56		71.57	69.77	0.000327	0.47	5.37	0.81	0.13
nuovo	3.55*	Max WS	2.30	71.56		71.57	69.53	0.000176	0.39	6.35	0.89	0.10
nuovo	3.325*	Max WS	2.29	71.56		71.57	69.30	0.000100	0.34	7.35	0.97	0.08
nuovo	3.1	Max WS	2.32	71.56		71.56	69.07	0.000064	0.31	8.36	1.04	0.07
nuovo	3	Max WS	2.32	71.56		71.56	69.00	0.000038	0.29	8.68	1.06	0.06
nuovo	2.9		Culvert									
nuovo	2.8	Max WS	2.32	69.47	69.47	69.71	68.90	0.010643	2.13	1.09	0.37	0.99
nuovo	2.7	Max WS	2.32	69.42		69.61	68.80	0.011553	1.93	1.20	0.39	0.86
nuovo	2.63*	Max WS	2.32	69.22		69.40	68.58	0.011558	1.89	1.23	0.40	0.83
nuovo	2.56*	Max WS	2.32	69.01		69.19	68.36	0.011556	1.85	1.26	0.41	0.80
nuovo	2.49*	Max WS	2.32	68.81		68.97	68.14	0.011546	1.81	1.28	0.41	0.78
nuovo	2.42*	Max WS	2.32	68.60		68.76	67.92	0.011546	1.77	1.31	0.42	0.75
nuovo	2.35*	Max WS	2.32	68.40		68.55	67.70	0.011542	1.73	1.34	0.42	0.73
nuovo	2.28*	Max WS	2.32	68.19		68.34	67.48	0.011531	1.70	1.36	0.43	0.71
nuovo	2.21*	Max WS	2.32	67.99		68.13	67.26	0.011450	1.66	1.39	0.44	0.69
nuovo	2.14*	Max WS	2.32	67.79		67.92	67.04	0.011078	1.61	1.44	0.44	0.66
nuovo	2.07*	Max WS	2.32	67.62		67.73	66.82	0.009606	1.50	1.54	0.46	0.60
nuovo	2	Max WS	2.32	67.49		67.58	66.60	0.007002	1.31	1.76	0.50	0.50
nuovo	1.94117*	Max WS	2.32	67.35		67.44	66.47	0.006905	1.31	1.77	0.50	0.50
nuovo	1.88235*	Max WS	2.32	67.22		67.31	66.33	0.006803	1.30	1.79	0.50	0.51
nuovo	1.82352*	Max WS	2.32	67.09		67.17	66.19	0.006697	1.29	1.80	0.50	0.51
nuovo	1.76470*	Max WS	2.32	66.96		67.04	66.06	0.006518	1.27	1.83	0.50	0.51
nuovo	1.70588*	Max WS	2.32	66.84		66.92	65.92	0.006102	1.23	1.88	0.50	0.50
nuovo	1.64705*	Max WS	2.32	66.74		66.81	65.79	0.005295	1.16	1.99	0.51	0.47
nuovo	1.58823*	Max WS	2.32	66.66		66.71	65.65	0.004157	1.06	2.18	0.53	0.42
nuovo	1.52941*	Max WS	2.32	66.60		66.64	65.52	0.002979	0.94	2.48	0.57	0.36
nuovo	1.47058*	Max WS	2.32	66.56		66.59	65.38	0.001986	0.80	2.88	0.61	0.30
nuovo	1.41176*	Max WS	2.32	66.54		66.56	65.25	0.001289	0.68	3.39	0.67	0.24
nuovo	1.35294*	Max WS	2.32	66.52		66.54	65.11	0.000836	0.58	3.98	0.72	0.20
nuovo	1.29411*	Max WS	2.31	66.51		66.53	64.98	0.000546	0.50	4.67	0.78	0.16
nuovo	1.23529*	Max WS	2.31	66.51		66.52	64.84	0.000364	0.43	5.43	0.84	0.13
nuovo	1.17647*	Max WS	2.31	66.51		66.51	64.71	0.000248	0.37	6.27	0.91	0.11
nuovo	1.11764*	Max WS	2.31	66.50		66.51	64.57	0.000172	0.32	7.19	0.97	0.09
nuovo	1.05882*	Max WS	2.31	66.50		66.51	64.44	0.000126	0.28	8.19	1.01	0.08
nuovo	1	Max WS	0.84	66.50	64.69	66.50	64.30	0.000013	0.09	9.36	1.01	0.03

HEC-RAS Plan: Forche_20_d1 Profile: Max WS

Storage Area	Profile	W.S. Elev	SA Min El	SA Volume
		(m)	(m)	(1000 m3)
cassa_forche	Max WS	71.56	70.00	8.13

Corso d'acqua :**Borro delle Forche (dopo cassa)** (pagine 95-99)

Eventi: Durata 1 ora (critica) → Tr200

Tr100

Tr30

Tr20

HEC-RAS Plan: forcdopcasT200d1 River: forche Reach: sx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
sx	10	Max WS	3.71	67.73		67.90	66.97	0.008078	1.81	2.05	0.47	0.80
sx	9.83333*	Max WS	3.71	67.65		67.82	66.89	0.008091	1.81	2.05	0.47	0.80
sx	9.66666*	Max WS	3.71	67.57		67.74	66.81	0.008142	1.82	2.04	0.47	0.81
sx	9.5*	Max WS	3.71	67.49		67.66	66.73	0.008088	1.81	2.05	0.47	0.80
sx	9.33333*	Max WS	3.71	67.41		67.58	66.65	0.008081	1.81	2.05	0.47	0.80
sx	9.16666*	Max WS	3.71	67.33		67.50	66.57	0.008080	1.81	2.05	0.47	0.80
sx	9.*	Max WS	3.71	67.25		67.42	66.49	0.008104	1.81	2.04	0.47	0.80
sx	8.83333*	Max WS	3.70	67.17		67.34	66.42	0.008104	1.81	2.04	0.47	0.80
sx	8.66666*	Max WS	3.70	67.09		67.26	66.34	0.008126	1.81	2.04	0.47	0.80
sx	8.5*	Max WS	3.70	67.01		67.18	66.26	0.008114	1.81	2.04	0.47	0.80
sx	8.33333*	Max WS	3.70	66.94		67.10	66.18	0.008079	1.81	2.05	0.47	0.80
sx	8.16666*	Max WS	3.70	66.86		67.02	66.10	0.008015	1.80	2.05	0.47	0.80
sx	8	Max WS	3.70	66.78	66.69	66.95	66.02	0.007855	1.79	2.07	0.47	0.79
sx	7.9		Bridge									
sx	7.5	Max WS	3.70	66.80		66.93	65.97	0.005567	1.58	2.34	0.51	0.67
sx	7.46875*	Max WS	3.70	66.74		66.87	65.92	0.005895	1.61	2.30	0.50	0.69
sx	7.4375*	Max WS	3.70	66.68		66.81	65.86	0.006238	1.64	2.26	0.49	0.71
sx	7.40625*	Max WS	3.70	66.61		66.75	65.81	0.006692	1.68	2.21	0.48	0.73
sx	7.375*	Max WS	3.70	66.53		66.69	65.75	0.007220	1.73	2.14	0.48	0.76
sx	7.34375*	Max WS	3.70	66.46		66.62	65.70	0.007673	1.77	2.09	0.47	0.78
sx	7.3125*	Max WS	3.70	66.37		66.54	65.64	0.007958	1.81	2.05	0.47	0.79
sx	7.28125*	Max WS	3.70	66.30		66.46	65.59	0.008117	1.82	2.04	0.47	0.80
sx	7.25*	Max WS	3.70	66.22		66.39	65.54	0.008249	1.82	2.03	0.47	0.80
sx	7.21875*	Max WS	3.70	66.14		66.31	65.48	0.008415	1.83	2.03	0.46	0.81
sx	7.1875*	Max WS	3.70	66.06		66.22	65.43	0.008375	1.81	2.04	0.46	0.81
sx	7.15625*	Max WS	3.70	65.98		66.14	65.37	0.008362	1.80	2.05	0.45	0.80
sx	7.125*	Max WS	3.70	65.90		66.06	65.32	0.008138	1.77	2.09	0.45	0.79
sx	7.09375*	Max WS	3.58	65.84		65.98	65.26	0.006888	1.64	2.19	0.46	0.73
sx	7.0625*	Max WS	3.58	65.80		65.92	65.21	0.005610	1.51	2.37	0.47	0.66
sx	7.03125*	Max WS	3.58	65.78		65.87	65.15	0.004220	1.36	2.63	0.50	0.58
sx	7	Max WS	3.58	65.76	65.52	65.84	65.10	0.003087	1.21	2.96	0.53	0.50
sx	6.9		Bridge									
sx	6.5	Max WS	3.79	65.60		65.76	65.10	0.008584	1.73	2.19	0.42	0.81
sx	6.4*	Max WS	3.70	65.53		65.68	64.95	0.007451	1.70	2.17	0.46	0.76
sx	6.3*	Max WS	3.70	65.45		65.61	64.79	0.007885	1.79	2.07	0.47	0.79
sx	6.2*	Max WS	3.70	65.35		65.54	64.64	0.009433	1.92	1.93	0.46	0.86
sx	6.1*	Max WS	3.70	65.29		65.46	64.48	0.007851	1.79	2.07	0.47	0.79
sx	6	Max WS	3.70	65.29		65.40	64.33	0.004303	1.45	2.55	0.54	0.59
sx	5.5*	Max WS	3.70	65.25		65.37	64.29	0.005066	1.53	2.41	0.57	0.58
sx	5	Max WS	3.70	65.29		65.35	64.24	0.002021	1.12	3.30	0.65	0.36
sx	4.5		Culvert									
sx	4	Max WS	3.67	65.07		65.13	63.94	0.001601	1.03	3.57	0.68	0.32
sx	3.66666*	Max WS	3.67	65.05		65.11	63.87	0.001955	1.05	3.50	0.69	0.34
sx	3.33333*	Max WS	3.70	65.06		65.10	63.80	0.001187	0.88	4.19	0.74	0.29
sx	3	Max WS	3.70	65.07		65.09	63.73	0.000439	0.63	5.85	0.86	0.20
sx	2.5		Culvert									
sx	2	Max WS	3.66	65.00		65.02	63.53	0.000303	0.55	6.63	0.83	0.17
sx	1	Max WS	0.83	65.00	63.72	65.00	63.53	0.000016	0.13	6.61	0.84	0.04

HEC-RAS Plan: forcdopcasT100d1 River: forche Reach: sx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
sx	10	Max WS	3.71	67.73		67.90	66.97	0.008078	1.81	2.05	0.47	0.80
sx	9.83333*	Max WS	3.71	67.65		67.82	66.89	0.008091	1.81	2.05	0.47	0.80
sx	9.66666*	Max WS	3.71	67.57		67.74	66.81	0.008142	1.82	2.04	0.47	0.81
sx	9.5*	Max WS	3.71	67.49		67.66	66.73	0.008088	1.81	2.05	0.47	0.80
sx	9.33333*	Max WS	3.71	67.41		67.58	66.65	0.008081	1.81	2.05	0.47	0.80
sx	9.16666*	Max WS	3.71	67.33		67.50	66.57	0.008080	1.81	2.05	0.47	0.80
sx	9.*	Max WS	3.71	67.25		67.42	66.49	0.008104	1.81	2.04	0.47	0.80
sx	8.83333*	Max WS	3.70	67.17		67.34	66.42	0.008104	1.81	2.04	0.47	0.80
sx	8.66666*	Max WS	3.70	67.09		67.26	66.34	0.008126	1.81	2.04	0.47	0.80
sx	8.5*	Max WS	3.70	67.01		67.18	66.26	0.008114	1.81	2.04	0.47	0.80
sx	8.33333*	Max WS	3.70	66.94		67.10	66.18	0.008079	1.81	2.05	0.47	0.80
sx	8.16666*	Max WS	3.70	66.86		67.02	66.10	0.008015	1.80	2.05	0.47	0.80
sx	8	Max WS	3.70	66.78	66.69	66.95	66.02	0.007855	1.79	2.07	0.47	0.79
sx	7.9		Bridge									
sx	7.5	Max WS	3.70	66.80		66.93	65.97	0.005567	1.58	2.34	0.51	0.67
sx	7.46875*	Max WS	3.70	66.74		66.87	65.92	0.005895	1.61	2.30	0.50	0.69
sx	7.4375*	Max WS	3.70	66.68		66.81	65.86	0.006238	1.64	2.26	0.49	0.71
sx	7.40625*	Max WS	3.70	66.61		66.75	65.81	0.006692	1.68	2.21	0.48	0.73
sx	7.375*	Max WS	3.70	66.53		66.69	65.75	0.007220	1.73	2.14	0.48	0.76
sx	7.34375*	Max WS	3.70	66.46		66.62	65.70	0.007673	1.77	2.09	0.47	0.78
sx	7.3125*	Max WS	3.70	66.37		66.54	65.64	0.007958	1.81	2.05	0.47	0.79
sx	7.28125*	Max WS	3.70	66.30		66.46	65.59	0.008117	1.82	2.04	0.47	0.80
sx	7.25*	Max WS	3.70	66.22		66.39	65.54	0.008249	1.82	2.03	0.47	0.80
sx	7.21875*	Max WS	3.70	66.14		66.31	65.48	0.008415	1.83	2.03	0.46	0.81
sx	7.1875*	Max WS	3.70	66.06		66.22	65.43	0.008375	1.81	2.04	0.46	0.81
sx	7.15625*	Max WS	3.70	65.98		66.14	65.37	0.008362	1.80	2.05	0.45	0.80
sx	7.125*	Max WS	3.70	65.90		66.06	65.32	0.008138	1.77	2.09	0.45	0.79
sx	7.09375*	Max WS	3.58	65.84		65.98	65.26	0.006888	1.64	2.19	0.46	0.73
sx	7.0625*	Max WS	3.58	65.80		65.92	65.21	0.005610	1.51	2.37	0.47	0.66
sx	7.03125*	Max WS	3.58	65.78		65.87	65.15	0.004220	1.36	2.63	0.50	0.58
sx	7	Max WS	3.58	65.76	65.52	65.84	65.10	0.003087	1.21	2.96	0.53	0.50
sx	6.9		Bridge									
sx	6.5	Max WS	3.79	65.60		65.76	65.10	0.008584	1.73	2.19	0.42	0.81
sx	6.4*	Max WS	3.70	65.53		65.68	64.95	0.007451	1.70	2.17	0.46	0.76
sx	6.3*	Max WS	3.70	65.45		65.61	64.79	0.007885	1.79	2.07	0.47	0.79
sx	6.2*	Max WS	3.70	65.35		65.54	64.64	0.009433	1.92	1.93	0.46	0.86
sx	6.1*	Max WS	3.70	65.29		65.46	64.48	0.007851	1.79	2.07	0.47	0.79
sx	6	Max WS	3.70	65.29		65.40	64.33	0.004303	1.45	2.55	0.54	0.59
sx	5.5*	Max WS	3.70	65.25		65.37	64.29	0.005066	1.53	2.41	0.57	0.58
sx	5	Max WS	3.70	65.29		65.35	64.24	0.002021	1.12	3.30	0.65	0.36
sx	4.5		Culvert									
sx	4	Max WS	3.67	65.07		65.13	63.94	0.001601	1.03	3.57	0.68	0.32
sx	3.66666*	Max WS	3.67	65.05		65.11	63.87	0.001955	1.05	3.50	0.69	0.34
sx	3.33333*	Max WS	3.70	65.06		65.10	63.80	0.001187	0.88	4.19	0.74	0.29
sx	3	Max WS	3.70	65.07		65.09	63.73	0.000439	0.63	5.85	0.86	0.20
sx	2.5		Culvert									
sx	2	Max WS	3.66	65.00		65.02	63.53	0.000303	0.55	6.63	0.83	0.17
sx	1	Max WS	0.83	65.00	63.72	65.00	63.53	0.000016	0.13	6.61	0.84	0.04

HEC-RAS Plan: forc_dopcasT30d1 River: forche Reach: sx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
sx	10	Max WS	2.40	67.58		67.71	66.97	0.008078	1.60	1.50	0.39	0.78
sx	9.83333*	Max WS	2.40	67.50		67.63	66.89	0.008099	1.60	1.50	0.39	0.78
sx	9.66666*	Max WS	2.40	67.42		67.55	66.81	0.008150	1.61	1.49	0.39	0.79
sx	9.5*	Max WS	2.40	67.34		67.47	66.73	0.008088	1.60	1.50	0.39	0.78
sx	9.33333*	Max WS	2.40	67.26		67.39	66.65	0.008084	1.60	1.50	0.39	0.78
sx	9.16666*	Max WS	2.40	67.18		67.32	66.57	0.008084	1.60	1.50	0.39	0.78
sx	9.*	Max WS	2.40	67.11		67.24	66.49	0.008099	1.60	1.50	0.39	0.78
sx	8.83333*	Max WS	2.40	67.03		67.16	66.42	0.008105	1.60	1.50	0.39	0.78
sx	8.66666*	Max WS	2.40	66.95		67.08	66.34	0.008131	1.61	1.49	0.39	0.79
sx	8.5*	Max WS	2.40	66.87		67.00	66.26	0.008117	1.61	1.49	0.39	0.78
sx	8.33333*	Max WS	2.40	66.79		66.92	66.18	0.008089	1.60	1.50	0.39	0.78
sx	8.16666*	Max WS	2.40	66.71		66.84	66.10	0.008061	1.60	1.50	0.39	0.78
sx	8	Max WS	2.40	66.63	66.56	66.76	66.02	0.007972	1.59	1.50	0.39	0.78
sx	7.9		Bridge									
sx	7.5	Max WS	2.40	66.64		66.74	65.97	0.005397	1.39	1.73	0.43	0.65
sx	7.46875*	Max WS	2.40	66.59		66.69	65.92	0.005808	1.42	1.69	0.42	0.67
sx	7.4375*	Max WS	2.40	66.52		66.63	65.86	0.006222	1.45	1.65	0.41	0.69
sx	7.40625*	Max WS	2.40	66.46		66.57	65.81	0.006766	1.49	1.61	0.40	0.72
sx	7.375*	Max WS	2.40	66.38		66.50	65.75	0.007256	1.54	1.56	0.40	0.74
sx	7.34375*	Max WS	2.40	66.31		66.43	65.70	0.007558	1.56	1.53	0.40	0.76
sx	7.3125*	Max WS	2.40	66.23		66.36	65.64	0.007821	1.58	1.52	0.39	0.77
sx	7.28125*	Max WS	2.40	66.15		66.28	65.59	0.007936	1.58	1.52	0.39	0.77
sx	7.25*	Max WS	2.40	66.08		66.21	65.54	0.008129	1.59	1.51	0.38	0.78
sx	7.21875*	Max WS	2.40	66.00		66.13	65.48	0.008221	1.59	1.51	0.38	0.78
sx	7.1875*	Max WS	2.40	65.92		66.05	65.43	0.008092	1.57	1.53	0.38	0.77
sx	7.15625*	Max WS	2.40	65.85		65.97	65.37	0.008023	1.55	1.55	0.37	0.77
sx	7.125*	Max WS	2.40	65.78		65.89	65.32	0.007842	1.52	1.58	0.37	0.76
sx	7.09375*	Max WS	2.33	65.71		65.82	65.26	0.006888	1.42	1.64	0.37	0.71
sx	7.0625*	Max WS	2.33	65.67		65.75	65.21	0.005736	1.32	1.77	0.38	0.65
sx	7.03125*	Max WS	2.33	65.64		65.71	65.15	0.004222	1.18	1.98	0.40	0.56
sx	7	Max WS	2.33	65.62	65.42	65.67	65.10	0.002947	1.03	2.26	0.43	0.47
sx	6.9		Bridge									
sx	6.5	Max WS	2.51	65.47		65.60	65.10	0.010564	1.60	1.57	0.32	0.87
sx	6.4*	Max WS	2.46	65.38		65.51	64.95	0.008653	1.57	1.57	0.36	0.80
sx	6.3*	Max WS	2.44	65.30		65.43	64.79	0.008251	1.60	1.53	0.39	0.78
sx	6.2*	Max WS	2.43	65.20		65.36	64.64	0.009962	1.74	1.40	0.38	0.86
sx	6.1*	Max WS	2.42	65.11		65.26	64.48	0.010876	1.76	1.37	0.36	0.90
sx	6	Max WS	2.42	65.08		65.18	64.33	0.005443	1.40	1.73	0.43	0.64
sx	5.5*	Max WS	2.41	65.05		65.15	64.29	0.005149	1.36	1.77	0.47	0.57
sx	5	Max WS	2.41	65.09		65.13	64.24	0.001613	0.91	2.65	0.56	0.32
sx	4.5		Culvert									
sx	4	Max WS	2.41	65.03		65.06	63.94	0.000769	0.70	3.44	0.66	0.22
sx	3.66666*	Max WS	2.41	65.02		65.05	63.87	0.000924	0.71	3.39	0.68	0.24
sx	3.33333*	Max WS	2.41	65.02		65.04	63.80	0.000557	0.59	4.05	0.72	0.20
sx	3	Max WS	2.42	65.03		65.04	63.73	0.000211	0.43	5.62	0.84	0.14
sx	2.5		Culvert									
sx	2	Max WS	2.40	65.00		65.01	63.53	0.000131	0.36	6.62	0.84	0.11
sx	1	Max WS	0.69	65.00	63.70	65.00	63.53	0.000011	0.10	6.61	0.84	0.03

HEC-RAS Plan: forc_dopcasT20d1 River: forche Reach: sx Profile: Max WS

Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	Min Ch El (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Area (m2)	Hydr Radius (m)	Froude # Chl
sx	10	Max WS	2.32	67.57		67.70	66.97	0.008050	1.58	1.46	0.39	0.78
sx	9.83333*	Max WS	2.32	67.49		67.62	66.89	0.008072	1.59	1.46	0.39	0.78
sx	9.66666*	Max WS	2.32	67.41		67.54	66.81	0.008123	1.59	1.46	0.39	0.78
sx	9.5*	Max WS	2.32	67.33		67.46	66.73	0.008077	1.59	1.46	0.39	0.78
sx	9.33333*	Max WS	2.32	67.25		67.38	66.65	0.008057	1.59	1.46	0.39	0.78
sx	9.16666*	Max WS	2.32	67.17		67.30	66.57	0.008073	1.59	1.46	0.39	0.78
sx	9.*	Max WS	2.32	67.10		67.22	66.49	0.008088	1.59	1.46	0.39	0.78
sx	8.83333*	Max WS	2.32	67.02		67.14	66.42	0.008078	1.59	1.46	0.39	0.78
sx	8.66666*	Max WS	2.32	66.94		67.07	66.34	0.008121	1.59	1.46	0.39	0.78
sx	8.5*	Max WS	2.32	66.86		66.99	66.26	0.008106	1.59	1.46	0.39	0.78
sx	8.33333*	Max WS	2.32	66.78		66.91	66.18	0.008078	1.59	1.46	0.39	0.78
sx	8.16666*	Max WS	2.32	66.70		66.83	66.10	0.008066	1.59	1.46	0.39	0.78
sx	8	Max WS	2.32	66.62	66.55	66.75	66.02	0.008024	1.58	1.47	0.39	0.78
sx	7.9		Bridge									
sx	7.5	Max WS	2.32	66.63		66.73	65.97	0.005376	1.37	1.69	0.42	0.64
sx	7.46875*	Max WS	2.32	66.58		66.68	65.92	0.005797	1.40	1.65	0.41	0.67
sx	7.4375*	Max WS	2.32	66.51		66.62	65.86	0.006230	1.44	1.61	0.40	0.69
sx	7.40625*	Max WS	2.32	66.44		66.56	65.81	0.006754	1.48	1.57	0.40	0.72
sx	7.375*	Max WS	2.32	66.37		66.49	65.75	0.007242	1.52	1.52	0.39	0.74
sx	7.34375*	Max WS	2.32	66.30		66.42	65.70	0.007540	1.55	1.50	0.39	0.75
sx	7.3125*	Max WS	2.32	66.22		66.35	65.64	0.007799	1.56	1.48	0.39	0.76
sx	7.28125*	Max WS	2.32	66.14		66.27	65.59	0.007939	1.57	1.48	0.38	0.77
sx	7.25*	Max WS	2.32	66.07		66.19	65.54	0.008122	1.57	1.48	0.38	0.78
sx	7.21875*	Max WS	2.32	65.99		66.11	65.48	0.008213	1.57	1.48	0.38	0.78
sx	7.1875*	Max WS	2.32	65.91		66.04	65.43	0.008043	1.55	1.50	0.37	0.77
sx	7.15625*	Max WS	2.32	65.84		65.96	65.37	0.007935	1.53	1.52	0.37	0.76
sx	7.125*	Max WS	2.32	65.77		65.88	65.32	0.007611	1.49	1.56	0.37	0.75
sx	7.09375*	Max WS	2.32	65.71		65.81	65.26	0.006931	1.42	1.63	0.37	0.71
sx	7.0625*	Max WS	2.32	65.66		65.75	65.21	0.005724	1.32	1.76	0.38	0.65
sx	7.03125*	Max WS	2.32	65.64		65.71	65.15	0.004204	1.17	1.98	0.40	0.56
sx	7	Max WS	2.32	65.62	65.42	65.67	65.10	0.002934	1.03	2.26	0.43	0.47
sx	6.9		Bridge									
sx	6.5	Max WS	2.32	65.45		65.57	65.10	0.010543	1.56	1.49	0.31	0.86
sx	6.4*	Max WS	2.32	65.37		65.49	64.95	0.008579	1.53	1.51	0.35	0.79
sx	6.3*	Max WS	2.32	65.29		65.41	64.79	0.008119	1.57	1.48	0.38	0.78
sx	6.2*	Max WS	2.32	65.19		65.34	64.64	0.009783	1.71	1.36	0.37	0.85
sx	6.1*	Max WS	2.32	65.09		65.25	64.48	0.010961	1.74	1.33	0.35	0.90
sx	6	Max WS	2.32	65.06		65.16	64.33	0.005405	1.38	1.68	0.42	0.64
sx	5.5*	Max WS	2.32	65.04		65.13	64.29	0.005058	1.34	1.73	0.47	0.57
sx	5	Max WS	2.32	65.08		65.12	64.24	0.001566	0.89	2.60	0.56	0.32
sx	4.5		Culvert									
sx	4	Max WS	2.32	65.03		65.05	63.94	0.000719	0.68	3.42	0.66	0.21
sx	3.66666*	Max WS	2.32	65.02		65.04	63.87	0.000865	0.69	3.38	0.68	0.23
sx	3.33333*	Max WS	2.32	65.02		65.04	63.80	0.000521	0.57	4.03	0.72	0.19
sx	3	Max WS	2.32	65.03		65.03	63.73	0.000194	0.41	5.60	0.84	0.13
sx	2.5		Culvert									
sx	2	Max WS	1.82	65.00		65.01	63.53	0.000076	0.28	6.62	0.84	0.08
sx	1	Max WS	0.69	65.00	63.70	65.00	63.53	0.000011	0.10	6.61	0.84	0.03