



REGIONE TOSCANA GIUNTA REGIONALE

DIREZIONE DIFESA DEL SUOLO E PROTEZIONE CIVILE
SETTORE GENIO CIVILE VALDARNO SUPERIORE

SISTEMAZIONE IDRAULICA DEL TORRENTE CASTRO DALLA LOC. COGNAIA FINO AL PONTE DELLA PARATA E DEL TORRENTE BICCHIERAIA DALLA LOC. LA PACE ALLA CONFLUENZA NEL COMUNE DI AREZZO

CUP: D13H20000190002

PROGETTO DI FATTIBILITÀ TECNICA ED ECONOMICA

CODICE PROGETTO: DODS2019AR0002

STUDIO IDROLOGICO IDRAULICO GENERALE IDR02.B - ALLEGATO 1 - RISULTATI MODELLO IDRAULICO

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DATA EMISSIONE

REDATTO

VERIFICATO

APPROVATO

A

DICEMBRE 2020

G.GAZZINI

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**RISULTATI MODELLO IDRAULICO
STATO ATTUALE**

SCENARIO TORRENTE CASTRO - STATO ATTUALE					
TORRENTE CASTRO					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]	Livello [m s.l.m]	Portate [m³/s]
43	00869__19	279.41	21.91	280.37	56.01
42	00857__19	278.38	22.57	279.49	56.63
41	00852__19	277.92	22.85	278.96	56.9
40	00845__19	277.45	23.21	278.4	57.25
39	00844__19	277.28	23.28	278.21	56.98
38	00840BB19	277.04	23.47	277.97	55.91
37	00840BC19	276.29	23.47	277.63	55.87
36	00836__19	276.1	23.67	277.52	55.96
35	00830BB19	275.68	24.03	277.03	56.26
34	00830BC19	275.2	24.03	276.39	56.25
33	00825__19	274.7	24.29	275.82	56.6
32	00819__19	274.15	24.6	275.28	57.01
31	00814__19	273.82	24.88	274.85	57.41
30	00812PB19	273.76	25.01	274.89	57.53
29	00812PC19	273.35	25.01	274.2	57.53
28	00810__19	273.22	25.07	274.07	57.58
27	00798__19	271.89	25.69	272.82	58.16
26	00796__19	271.65	25.83	272.57	58.29
25	00789__19	270.98	26.21	271.88	58.63
24	00778__19	269.95	26.77	270.77	55.86
23	00768__19	269	27.33	269.76	55.83
22	00760__19	268.21	27.79	269	55.31
21	00755PB19	267.72	24.92	268.9	44.41
20	00755PC19	267.58	28.04	268.05	44.41
19	00750__19	267.37	28.17	267.83	44.53
18	00742__19	266.63	28.61	267.13	44.96
17	00733__19	266.15	29.1	266.63	45.44
16	00725__19	265.96	29.49	266.42	45
15	00722PB19	265.85	29.66	266.44	35.64
14	00722PC19	264.59	29.66	264.78	35.61
13	00716__19	264.46	29.77	264.63	35.23
12	00708__19	263.69	31.06	263.83	35.47
11	00704__19	263.31	28.86	263.45	32.73
10	00698__19	263.11	28.47	263.24	31.97
9	00697PB19	263.06	27.62	263.2	30.27
8	00697PC19	262.9	27.62	262.95	30.26
7	00696__19	262.73	27.68	262.79	30.29
6	00686__19	261.91	27.56	262.12	27.26
5	00677__19	260.86	29.57	261.05	33.78
4	00673__19	260.23	31.53	260.43	37.84
3	00669__19	259.98	34.49	260.2	41.25
2	00663__19	259.58	34.49	259.8	41.25
1	00656__19	259.11	34.49	259.3	41.25

SCENARIO TORRENTE BICCHIERAIA - STATO ATTUALE					
TORRENTE BICCHIERAIA					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]	Livello [m s.l.m]	Portate [m³/s]
39	00229__19	279.69	38.61	280.43	60.58
38	00221__19	279.01	41.6	279.73	65.4
37	00217PB19	278.6	41.6	279.3	66.02
36	00217PC19	278.49	41.59	279.22	66.03
35	00212__19	277.87	41.59	278.51	64.92
34	00206__19	277.06	41.58	277.67	66
33	00199__19	276.18	41.58	276.93	65.22
32	00195__19	275.63	43.53	276.62	69.73
31	00194PB19	275.54	43.53	276.53	69.72
30	00194PC19	275.53	43.52	276.2	69.72
29	00191__19	275.53	43.52	276.19	69.74
28	00183__19	274.86	43.65	275.51	69.79
27	00177__19	274.29	43.56	274.99	68.33
26	00168__19	273.81	43.67	274.82	63.71
25	00165PB19	273.68	43.73	274.66	67.11
24	00165PC19	273.06	43.73	273.58	67.1
23	00163__19	272.92	43.76	273.44	65.57
22	00157__19	272.58	43.87	273.05	65.31
21	00150__19	272.22	44.01	272.59	66.62
20	00144__19	271.68	44.15	272.1	58.98
19	00135__19	270.87	44.32	271.34	64.56
18	00133__19	270.58	44.37	271.04	65.44
17	00126__19	269.86	44.5	270.23	66.06
16	00118__19	269.2	44.49	269.6	60.93
15.9	00118__19	269.2	49.38	269.6	72.4
15	00108__19	268.49	49.38	268.73	67.23
14	00096__19	267.65	48.22	267.85	61.27
13	00088__19	266.99	46.73	267.1	53.04
12	00081__19	266.37	46.18	266.51	50.62
11	00066__19	265.24	46.78	265.6	52.35
10	00057__19	264.73	46.88	265.4	52.35
9	00055PB19	264.56	46.9	265.27	52.37
8	00055PC19	264.3	46.86	264.48	52.25
7	00049__19	264.25	46.84	264.44	52.28
6	00043__19	263.91	46.61	264.13	52.33
5	00034__19	263.22	50.94	263.4	59.06
4	00029__19	262.75	51.01	262.92	59.25
3	00016__19	261.67	51.14	262.02	55.6
2	00007__19	261.03	51.14	261.43	65.3
1	00003__19	260.64	51.34	261.04	69.81

SCENARIO CASTRO BICCHIERAIA - STATO ATTUALE					
TORRENTE CASTRO					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]	Livello [m s.l.m]	Portate [m³/s]
43	00869__19	279.41	21.91	280.3	53.07
42	00857__19	278.38	22.57	279.41	53.65
41	00852__19	277.92	22.85	278.88	53.9
40	00845__19	277.45	23.21	278.33	54.22
39	00844__19	277.28	23.28	278.14	54.05
38	00840BB19	277.04	23.47	277.9	53.38
37	00840BC19	276.29	23.47	277.53	53.33
36	00836__19	276.1	23.67	277.43	53.51
35	00830BB19	275.68	24.03	276.95	53.84
34	00830BC19	275.2	24.03	276.32	53.83
33	00825__19	274.7	24.29	275.75	54.12
32	00819__19	274.15	24.6	275.2	54.45
31	00814__19	273.82	24.88	274.77	54.7
30	00812PB19	273.76	25.01	274.81	54.81
29	00812PC19	273.35	25.01	274.15	54.8
28	00810__19	273.22	25.07	274.02	54.86
27	00798__19	271.89	25.69	272.75	55.38
26	00796__19	271.65	25.83	272.51	55.49
25	00789__19	270.98	26.21	271.84	55.82
24	00778__19	269.95	26.77	270.75	54.5
23	00768__19	269	27.33	269.74	54.66
22	00760__19	268.21	27.79	268.98	54.27
21	00755PB19	267.72	24.92	268.88	44.2
20	00755PC19	267.58	28.04	268.04	44.2
19	00750__19	267.37	28.17	267.82	44.31
18	00742__19	266.63	28.62	267.12	44.7
17	00733__19	266.15	29.1	266.62	45.12
16	00725__19	265.96	29.49	266.61	11.03
15	00722PB19	265.85	29.66	266.43	35.56
14	00722PC19	264.59	29.66	265.06	35.56
13	00716__19	264.46	29.76	264.96	35.83
12	00708__19	263.69	31.06	264	41.53
11	00704__19	263.31	28.86	263.63	38.45
10	00698__19	263.11	28.42	263.44	37.42
9	00697PB19	263.06	27.54	263.42	34.38
8	00697PC19	262.9	27.54	263.05	34.37
7	00696__19	262.74	27.6	262.89	34.25
6	00686__19	262.01	26.55	262.45	28.43
5	00677__19	261.44	28.31	262.13	33.65
4	00673__19	261.33	31.62	261.91	45.83
3	00669__19	261.28	85.72	261.87	112.25
2	00663__19	260.92	85.72	261.55	111.28
1	00656__19	260.43	85.72	261.39	113.93

SCENARIO CASTRO BICCHIERAIA - STATO ATTUALE					
TORRENTE BICCHIERAIA					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m ³ /s]	Livello [m s.l.m]	Portate [m ³ /s]
39	00229__19	279.69	38.61	280.43	60.58
38	00221__19	279.01	41.61	279.74	65.29
37	00217PB19	278.6	41.6	279.31	66.01
36	00217PC19	278.49	41.6	279.23	66.01
35	00212__19	277.87	41.6	278.52	66.01
34	00206__19	277.06	41.59	277.67	65.98
33	00199__19	276.18	41.59	276.94	65.93
32	00195__19	275.63	43.54	276.63	69.72
31	00194PB19	275.54	43.54	276.54	69.72
30	00194PC19	275.53	43.53	276.21	69.72
29	00191__19	275.53	43.53	276.2	69.73
28	00183__19	274.86	43.66	275.51	70
27	00177__19	274.29	43.56	275.01	68.17
26	00168__19	273.81	43.68	274.82	64.4
25	00165PB19	273.68	43.73	274.66	67.2
24	00165PC19	273.06	43.73	273.6	67.2
23	00163__19	272.92	43.77	273.46	66.9
22	00157__19	272.58	43.88	273.05	66.6
21	00150__19	272.22	44.02	272.59	66.89
20	00144__19	271.68	44.15	272.1	59.31
19	00135__19	270.87	44.32	271.34	64.75
18	00133__19	270.58	44.38	271.04	65.49
17	00126__19	269.86	44.5	270.23	65.98
16	00118__19	269.2	44.5	269.6	60.88
15.9	00118__19	269.2	49.39	269.6	72.33
15	00108__19	268.49	49.39	268.73	67.19
14	00096__19	267.65	48.22	267.85	61.24
13	00088__19	266.99	46.73	267.1	53.02
12	00081__19	266.37	46.18	266.51	50.6
11	00066__19	265.24	46.78	265.62	52.14
10	00057__19	264.73	46.88	265.44	51.79
9	00055PB19	264.56	46.9	265.32	51.75
8	00055PC19	264.3	46.87	264.47	51.61
7	00049__19	264.25	46.83	264.43	51.57
6	00043__19	263.91	46.61	264.12	51.66
5	00034__19	263.23	50.93	263.4	57.26
4	00029__19	262.77	51	262.94	57.8
3	00016__19	261.85	50.6	262.36	54.21
2	00007__19	261.49	52.58	262.14	61.37
1	00003__19	261.28	52.1	261.87	65.54

RISULTATI MODELLO IDRAULICO
STATO DI PROGETTO - STRALCIO FUNZIONALE 1

SCENARIO TORRENTE CASTRO - STATO DI PROGETTO - STRALCIO FUNZIONALE 1 (SP1)					
TORRENTE CASTRO					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]	Livello [m s.l.m]	Portate [m³/s]
43	00869__19	279.09	21.9	280.16	52.96
42	00857__19	278.29	22.56	279.53	53.5
41	00852__19	277.95	22.84	279.13	53.75
40	00845__19	277.41	23.2	278.43	54.07
39	00844__19	277.3	23.27	278.29	54.14
38	00840BB19	277.1	23.46	278.15	54.31
37	00840BC19	276.15	23.46	277.09	54.31
36	00836__19	275.76	23.66	276.74	54.48
35	00830BB19	275.32	24.02	276.35	54.8
34	00830BC19	274.35	24.02	275.22	54.8
33	00825__19	273.78	24.28	274.6	55.02
32	00819__19	273.12	24.59	273.94	55.29
31	00814__19	272.54	24.87	273.41	55.51
30	00812PB19	272.39	25	273.26	55.62
29	00812PC19	272.35	25	273.24	55.62
28	00810__19	272.3	25.06	273.19	55.68
27	00798__19	271.44	25.68	272.22	56.19
26	00796__19	271.19	25.82	271.97	56.3
25	00789__19	270.46	26.2	271.27	56.6
24	00778__19	269.38	26.75	270.26	57.04
23	00768__19	268.5	27.32	269.31	57.46
22	00760__19	267.7	27.78	268.51	57.77
21	00755PB19	267.26	28.02	268.08	57.96
20	00755PC19	267.17	28.02	267.92	57.96
19	00750__19	266.95	28.15	267.71	58.07
18	00742__19	266.16	28.6	266.93	58.43
17	00733__19	265.17	29.09	266.06	57.84
16	00725__19	264.26	29.48	265.64	56.63
15	00722PB19	263.96	29.66	265.55	56.01
14	00722PC19	263.78	29.66	264.64	59.28
13	00716__19	263.61	29.78	264.42	59.37
12	00708__19	262.9	30.24	263.68	59.71
11	00704__19	262.55	30.45	263.31	59.87
10	00698__19	262	30.77	262.75	60.1
9	00697PB19	261.93	30.81	262.68	60.13
8	00697PC19	261.88	30.84	262.62	60.15
7	00696__19	261.77	30.9	262.51	60.19
6	00686__19	260.89	31.42	261.62	60.54
5	00677__19	259.92	31.95	260.65	60.86
4	00673__19	259.42	31.95	260.19	60.79
3	00669__19	259.4	35.95	260.17	64.79
2	00663__19	259.26	35.94	260.03	64.78
1	00656__19	259.18	35.94	259.93	64.78

SCENARIO TORRENTE BICCHIERAIA - STATO DI PROGETTO - STRALCIO FUNZIONALE 1 (SP1)					
TORRENTE BICCHIERAIA					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]	Livello [m s.l.m]	Portate [m³/s]
39	00229__19	279.36	38.68	279.98	60.55
38	00221__19	278.42	41.69	279.16	66.04
37	00217PB19	278.12	41.68	278.82	66.03
36	00217PC19	278.06	41.67	278.75	66.03
35	00212__19	277.6	41.66	278.23	66.03
34	00206__19	276.95	41.66	277.56	66.02
33	00199__19	276.02	41.65	276.69	65.79
32	00195__19	275.41	43.59	276.19	69.98
31	00194PB19	275.31	43.59	276.08	69.98
30	00194PC19	275.37	43.6	276	69.98
29	00191__19	275.34	43.6	275.96	69.98
28	00183__19	274.75	43.75	275.31	70.29
27	00177__19	274.05	43.88	274.59	69.4
26	00168__19	272.81	44.06	273.37	70.43
25	00165PB19	272.42	44.11	273.04	70.64
24	00165PC19	272.4	44.11	273.02	70.64
23	00163__19	272.26	44.15	272.88	70.71
22	00157__19	271.83	44.26	272.48	70.92
21	00150__19	271.32	44.39	271.99	71.18
20	00144__19	270.85	44.52	271.51	71.43
19	00135__19	270.29	44.67	270.93	71.75
18	00133__19	270.1	44.73	270.73	71.85
17	00126__19	269.63	44.85	270.18	70.86
16	00118__19	269.12	44.83	269.61	65.18
15.9	00118__19	269.12	49.7	269.61	76.11
15	00108__19	268.34	49.69	268.76	69.41
14	00096__19	267.47	49.83	267.83	67.94
13	00088__19	266.88	49.92	267.19	65.05
12	00081__19	266.36	50	266.66	62.31
11	00066__19	264.97	50.18	265.35	61.98
10	00057__19	264.24	50.29	264.76	62.4
9	00055PB19	264.18	50.3	264.7	62.44
8	00055PC19	264.08	50.31	264.44	62.42
7	00049__19	264.04	50.32	264.41	62.47
6	00043__19	263.66	50.09	264.03	62.55
5	00034__19	262.93	54.33	263.27	69.35
4	00029__19	262.47	54.4	262.81	69.49
3	00016__19	261.39	54.55	261.72	69.5
2	00007__19	260.36	54.66	260.71	69.98
1	00003__19	259.99	54.71	260.36	70.08

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO FUNZIONALE 1 (SP1)					
TORRENTE CASTRO					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m ³ /s]	Livello [m s.l.m]	Portate [m ³ /s]
43	00869__19	279.09	21.9	280.16	52.96
42	00857__19	278.29	22.56	279.53	53.51
41	00852__19	277.95	22.84	279.13	53.75
40	00845__19	277.41	23.2	278.43	54.08
39	00844__19	277.3	23.27	278.29	54.15
38	00840BB19	277.1	23.46	278.15	54.32
37	00840BC19	276.15	23.46	277.09	54.31
36	00836__19	275.76	23.66	276.74	54.49
35	00830BB19	275.32	24.02	276.35	54.81
34	00830BC19	274.35	24.02	275.22	54.81
33	00825__19	273.78	24.28	274.6	55.03
32	00819__19	273.12	24.59	273.94	55.3
31	00814__19	272.54	24.87	273.41	55.53
30	00812PB19	272.39	25	273.26	55.63
29	00812PC19	272.35	25	273.24	55.63
28	00810__19	272.3	25.06	273.19	55.68
27	00798__19	271.44	25.68	272.22	56.19
26	00796__19	271.19	25.82	271.97	56.31
25	00789__19	270.46	26.2	271.27	56.61
24	00778__19	269.38	26.75	270.26	57.06
23	00768__19	268.5	27.32	269.31	57.47
22	00760__19	267.7	27.78	268.51	57.78
21	00755PB19	267.26	28.02	268.08	57.97
20	00755PC19	267.17	28.02	267.92	57.98
19	00750__19	266.95	28.15	267.71	58.08
18	00742__19	266.16	28.6	266.93	58.44
17	00733__19	265.17	29.09	266.06	58.83
16	00725__19	264.26	29.48	265.62	56.54
15	00722PB19	263.96	29.66	265.54	56.01
14	00722PC19	263.78	29.66	264.68	59.28
13	00716__19	263.61	29.77	264.48	59.38
12	00708__19	262.91	30.24	263.73	61.4
11	00704__19	262.55	30.45	263.37	61.56
10	00698__19	262.02	30.76	262.84	61.74
9	00697PB19	261.95	30.8	262.77	61.75
8	00697PC19	261.9	30.83	262.72	61.76
7	00696__19	261.79	30.89	262.62	61.75
6	00686__19	261.08	31.39	262.13	57.42
5	00677__19	260.78	31.9	262	57.95
4	00673__19	260.75	31.9	261.96	60.23
3	00669__19	260.72	88.6	261.94	122.9
2	00663__19	260.57	88.6	261.86	122.91
1	00656__19	260.47	88.6	261.82	122.92

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO FUNZIONALE 1 (SP1)					
TORRENTE BICCHIERAIA					
RS	Sezione	TR 30 ANNI		TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]	Livello [m s.l.m]	Portate [m³/s]
39	00229__19	279.36	38.68	279.98	60.55
38	00221__19	278.42	41.69	279.16	66.04
37	00217PB19	278.12	41.67	278.82	66.03
36	00217PC19	278.06	41.67	278.75	66.03
35	00212__19	277.6	41.66	278.23	66.03
34	00206__19	276.95	41.65	277.56	66.02
33	00199__19	276.02	41.65	276.69	65.79
32	00195__19	275.41	43.59	276.19	69.98
31	00194PB19	275.31	43.59	276.08	69.98
30	00194PC19	275.37	43.59	276	69.98
29	00191__19	275.34	43.59	275.96	69.98
28	00183__19	274.75	43.74	275.31	70.29
27	00177__19	274.05	43.87	274.59	69.4
26	00168__19	272.81	44.06	273.37	70.43
25	00165PB19	272.42	44.11	273.04	70.64
24	00165PC19	272.4	44.11	273.02	70.64
23	00163__19	272.26	44.14	272.88	70.71
22	00157__19	271.83	44.25	272.48	70.92
21	00150__19	271.32	44.38	271.99	71.18
20	00144__19	270.85	44.51	271.51	71.43
19	00135__19	270.29	44.67	270.93	71.75
18	00133__19	270.1	44.72	270.73	71.85
17	00126__19	269.63	44.84	270.18	70.86
16	00118__19	269.12	44.82	269.61	65.18
15.9	00118__19	269.12	49.7	269.61	76.11
15	00108__19	268.34	49.68	268.76	69.41
14	00096__19	267.47	49.82	267.83	67.94
13	00088__19	266.88	49.91	267.19	65.04
12	00081__19	266.36	49.99	266.66	62.3
11	00066__19	264.97	50.17	265.35	61.97
10	00057__19	264.24	50.28	264.77	62.4
9	00055PB19	264.18	50.3	264.71	62.43
8	00055PC19	264.08	50.3	264.44	62.43
7	00049__19	264.05	50.31	264.41	62.46
6	00043__19	263.66	50.12	264.03	62.55
5	00034__19	262.93	54.32	263.28	69.34
4	00029__19	262.48	54.39	262.83	69.47
3	00016__19	261.49	54.53	262.12	55.52
2	00007__19	260.76	54.65	261.98	54.51
1	00003__19	260.72	54.7	261.94	60.68

**RISULTATI MODELLO IDRAULICO
STATO DI PROGETTO - STRALCI FUNZIONALI 2 - 5**

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 2 (SP2)			
TORRENTE CASTRO			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]
43	00869__19	280.14	52.93
42	00857__19	279.53	53.46
41	00852__19	279.14	53.71
40	00845__19	278.44	54.04
39	00844__19	278.33	54.11
38	00840BB19	278.15	54.28
37	00840BC19	277.02	54.27
36	00836__19	276.73	54.44
35	00830BB19	276.35	54.76
34	00830BC19	275.13	54.76
33	00825__19	274.62	54.98
32	00819__19	273.99	55.25
31	00814__19	273.36	55.49
30	00812PB19	273.22	55.59
29	00812PC19	273.18	55.58
28	00810__19	273.12	55.64
27	00798__19	272.23	56.15
26	00796__19	271.99	56.26
25	00789__19	271.33	56.56
24	00778__19	270.36	57.01
23	00768__19	269.36	57.4
22	00760__19	268.51	57.65
21	00755PB19	268.09	57.83
20	00755PC19	267.93	57.82
19	00750__19	267.72	57.91
18	00742__19	266.99	58.09
17	00733__19	266.38	58.26
16	00725__19	266.11	58.56
15	00722PB19	265.98	58.7
14	00722PC19	264.47	58.69
13	00716__19	264.25	58.78
12	00708__19	263.5	59.07
11	00704__19	263.18	59.17
10	00698__19	262.76	59.23
9	00697PB19	262.72	59.21
8	00697PC19	262.68	59.22
7	00696__19	262.62	59.17
6	00686__19	262.17	57.42
5	00677__19	262.01	56.39
4	00673__19	261.92	61.43
3	00669__19	261.9	118.99
2	00663__19	261.73	119
1	00656__19	261.6	119

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 2 (SP2)			
TORRENTE BICCHIERAIA			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]
39	00229__19	280.1	60.56
38	00221__19	279.34	66.05
37	00217PB19	278.89	66.05
36	00217PC19	278.73	66.05
35	00212__19	278.25	66.05
34	00206__19	277.7	65.95
33	00199__19	277.1	65.73
32	00195__19	276.61	69.99
31	00194PB19	276.67	69.99
30	00194PC19	276.36	69.99
29	00191__19	276.19	69.99
28	00183__19	275.4	70.29
27	00177__19	274.7	66.54
26	00168__19	273.64	70.16
25	00165PB19	273.33	70.86
24	00165PC19	273.37	70.86
23	00163__19	273.14	70.94
22	00157__19	272.65	71.16
21	00150__19	272.14	71.44
20	00144__19	271.65	71.7
19	00135__19	271.03	72.04
18	00133__19	270.85	72.14
17	00126__19	270.26	72.4
16	00118__19	269.58	72.4
15	00108__19	268.74	68.48
14	00096__19	267.81	66.75
13	00088__19	267.18	64.29
12	00081__19	266.66	61.72
11	00066__19	265.64	59.47
10	00057__19	264.94	60.04
9	00055PB19	265.02	60.08
8	00055PC19	264.63	60.07
7	00049__19	264.41	60.11
6	00043__19	264.03	60.21
5	00034__19	263.3	66.98
4	00029__19	262.87	67.12
3	00016__19	262.12	52.86
2	00007__19	262.01	50.29
1	00003__19	261.9	55.55

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 3 (SP3)			
TORRENTE CASTRO			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]
43	00869__19	280.14	52.9
42	00857__19	279.53	53.44
41	00852__19	279.14	53.69
40	00845__19	278.44	54.01
39	00844__19	278.33	54.08
38	00840BB19	278.15	54.25
37	00840BC19	277.02	54.24
36	00836__19	276.73	54.42
35	00830BB19	276.35	54.74
34	00830BC19	275.13	54.73
33	00825__19	274.62	54.96
32	00819__19	273.99	55.23
31	00814__19	273.36	55.47
30	00812PB19	273.22	55.56
29	00812PC19	273.18	55.56
28	00810__19	273.12	55.62
27	00798__19	272.23	56.12
26	00796__19	271.99	56.24
25	00789__19	271.33	56.54
24	00778__19	270.36	56.98
23	00768__19	269.36	57.38
22	00760__19	268.51	57.63
21	00755PB19	268.09	57.81
20	00755PC19	267.93	57.8
19	00750__19	267.71	57.89
18	00742__19	266.98	58.08
17	00733__19	266.38	58.23
16	00725__19	266.11	58.53
15	00722PB19	265.98	58.67
14	00722PC19	264.47	58.67
13	00716__19	264.25	58.75
12	00708__19	263.49	59.07
11	00704__19	263.16	59.21
10	00698__19	262.71	59.4
9	00697PB19	262.66	59.42
8	00697PC19	262.62	59.43
7	00696__19	262.55	59.47
6	00686__19	262.07	48.36
5	00677__19	261.92	49.87
4	00673__19	261.83	55.47
3	00669__19	261.8	116.84
2	00663__19	261.63	116.84
1	00656__19	261.5	116.84

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 3 (SP3)			
TORRENTE BICCHIERAIA			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]
39	00229__19	279.81	48.82
38	00221__19	279.03	54.54
37	00217PB19	278.6	54.54
36	00217PC19	278.44	54.54
35	00212__19	277.96	54.54
34	00206__19	277.37	54.53
33	00199__19	276.65	54.37
32	00195__19	276.12	58.6
31	00194PB19	276.1	58.6
30	00194PC19	276.1	58.6
29	00191__19	275.93	58.6
28	00183__19	275.19	58.92
27	00177__19	274.52	58.99
26	00168__19	273.41	59.26
25	00165PB19	273.11	59.37
24	00165PC19	273.11	59.37
23	00163__19	272.88	59.45
22	00157__19	272.37	59.68
21	00150__19	271.87	59.98
20	00144__19	271.38	60.26
19	00135__19	270.78	60.61
18	00133__19	270.6	60.72
17	00126__19	270.04	60.97
16	00118__19	269.46	60.92
15	00108__19	268.66	62.79
14	00096__19	267.76	61.89
13	00088__19	267.14	61.14
12	00081__19	266.63	59.64
11	00066__19	265.58	58.36
10	00057__19	264.87	58.81
9	00055PB19	264.94	58.85
8	00055PC19	264.6	58.85
7	00049__19	264.38	58.89
6	00043__19	264.01	59.04
5	00034__19	263.27	65.87
4	00029__19	262.84	66.02
3	00016__19	262.07	60.41
2	00007__19	261.92	55.59
1	00003__19	261.81	59.37

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 4 (SP4)			
TORRENTE CASTRO			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m ³ /s]
43	00869__19	280.14	52.92
42	00857__19	279.53	53.47
41	00852__19	279.14	53.72
40	00845__19	278.44	54.05
39	00844__19	278.33	54.11
38	00840BB19	278.15	54.29
37	00840BC19	277.03	54.28
36	00836__19	276.73	54.45
35	00830BB19	276.35	54.77
34	00830BC19	275.13	54.77
33	00825__19	274.62	54.99
32	00819__19	273.99	55.26
31	00814__19	273.36	55.5
30	00812PB19	273.22	55.6
29	00812PC19	273.18	55.6
28	00810__19	273.12	55.65
27	00798__19	272.23	56.15
26	00796__19	271.99	56.27
25	00789__19	271.33	56.58
24	00778__19	270.36	57.02
23	00768__19	269.36	57.41
22	00760__19	268.51	57.67
21	00755PB19	268.09	57.84
20	00755PC19	267.93	57.83
19	00750__19	267.72	57.92
18	00742__19	266.99	58.1
17	00733__19	266.38	58.26
16	00725__19	266.11	58.57
15	00722PB19	265.98	58.71
14	00722PC19	264.47	58.7
13	00716__19	264.25	58.79
12	00708__19	263.5	59.1
11	00704__19	263.17	59.22
10	00698__19	262.73	59.41
9	00697PB19	262.68	59.44
8	00697PC19	262.64	59.45
7	00696__19	262.58	59.49
6	00686__19	262.01	59.8
5	00677__19	261.74	49.67
4	00673__19	261.7	47.72
3	00669__19	261.68	113.89
2	00663__19	261.5	113.88
1	00656__19	261.35	113.88

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 4 (SP4)			
TORRENTE BICCHIERAIA			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m³/s]
39	00229__19	279.81	48.82
38	00221__19	279.03	54.54
37	00217PB19	278.6	54.54
36	00217PC19	278.44	54.54
35	00212__19	277.96	54.54
34	00206__19	277.37	54.53
33	00199__19	276.65	54.37
32	00195__19	276.12	58.6
31	00194PB19	276.1	58.6
30	00194PC19	276.1	58.6
29	00191__19	275.93	58.6
28	00183__19	275.19	58.92
27	00177__19	274.52	58.99
26	00168__19	273.41	59.26
25	00165PB19	273.11	59.37
24	00165PC19	273.11	59.37
23	00163__19	272.88	59.45
22	00157__19	272.37	59.68
21	00150__19	271.87	59.97
20	00144__19	271.38	60.26
19	00135__19	270.78	60.6
18	00133__19	270.61	60.7
17	00126__19	270.05	60.94
16	00118__19	269.48	60.86
15	00108__19	268.71	63.41
14	00096__19	267.85	63.67
13	00088__19	267.27	63.84
12	00081__19	266.8	63.98
11	00066__19	265.82	64.27
10	00057__19	265.19	64.45
9	00055PB19	265.28	64.49
8	00055PC19	264.74	64.49
7	00049__19	264.51	64.52
6	00043__19	264.12	64.69
5	00034__19	263.36	71.47
4	00029__19	262.89	71.59
3	00016__19	262.13	64.17
2	00007__19	261.79	64.17
1	00003__19	261.69	64.18

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 5 (SP5)			
TORRENTE CASTRO			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m]	Portate [m ³ /s]
43	00869__19	280.14	52.96
42	00857__19	279.53	53.5
41	00852__19	279.14	53.74
40	00845__19	278.44	54.07
39	00844__19	278.33	54.14
38	00840BB19	278.15	54.31
37	00840BC19	277.03	54.3
36	00836__19	276.74	54.48
35	00830BB19	276.35	54.8
34	00830BC19	275.13	54.79
33	00825__19	274.62	55.02
32	00819__19	273.99	55.28
31	00814__19	273.36	55.52
30	00812PB19	273.22	55.62
29	00812PC19	273.18	55.62
28	00810__19	273.12	55.67
27	00798__19	272.23	56.18
26	00796__19	272	56.29
25	00789__19	271.33	56.6
24	00778__19	270.36	57.04
23	00768__19	269.36	57.42
22	00760__19	268.52	57.69
21	00755PB19	268.1	57.87
20	00755PC19	267.93	57.86
19	00750__19	267.72	57.94
18	00742__19	266.99	58.14
17	00733__19	266.38	58.28
16	00725__19	266.11	58.59
15	00722PB19	265.98	58.73
14	00722PC19	264.47	58.72
13	00716__19	264.25	58.81
12	00708__19	263.49	59.13
11	00704__19	263.15	59.27
10	00698__19	262.68	59.48
9	00697PB19	262.63	59.51
8	00697PC19	262.59	59.53
7	00696__19	262.51	59.57
6	00686__19	261.81	59.93
5	00677__19	261.32	60.3
4	00673__19	261.26	49.68
3	00669__19	261.23	116.08
2	00663__19	260.87	116.08
1	00656__19	260.52	116.08

SCENARIO CASTRO BICCHIERAIA - STATO DI PROGETTO - STRALCIO 5 (SP5)			
TORRENTE BICCHIERAIA			
RS	Sezione	TR 200 ANNI	
		Livello [m s.l.m.]	Portate [m³/s]
39	00229__19	279.81	48.82
38	00221__19	279.03	54.54
37	00217PB19	278.6	54.54
36	00217PC19	278.44	54.54
35	00212__19	277.96	54.54
34	00206__19	277.37	54.53
33	00199__19	276.65	54.37
32	00195__19	276.12	58.6
31	00194PB19	276.1	58.6
30	00194PC19	276.1	58.6
29	00191__19	275.93	58.6
28	00183__19	275.19	58.92
27	00177__19	274.52	58.99
26	00168__19	273.41	59.26
25	00165PB19	273.11	59.37
24	00165PC19	273.11	59.37
23	00163__19	272.88	59.45
22	00157__19	272.37	59.68
21	00150__19	271.87	59.97
20	00144__19	271.38	60.26
19	00135__19	270.78	60.6
18	00133__19	270.61	60.7
17	00126__19	270.05	60.94
16	00118__19	269.48	60.86
15	00108__19	268.71	63.41
14	00096__19	267.85	63.67
13	00088__19	267.27	63.84
12	00081__19	266.8	63.99
11	00066__19	265.82	64.27
10	00057__19	265.19	64.45
9	00055PB19	265.27	64.49
8	00055PC19	264.74	64.49
7	00049__19	264.51	64.52
6	00043__19	264.12	64.69
5	00034__19	263.35	71.47
4	00029__19	262.88	71.61
3	00016__19	261.94	64.21
2	00007__19	261.42	64.34
1	00003__19	261.24	64.4