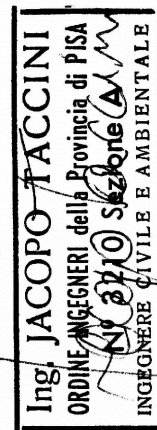


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Il Progettista

ALLEGATO:

ALL

STUDIO IDRAULICO

Il Direttore dei Lavori

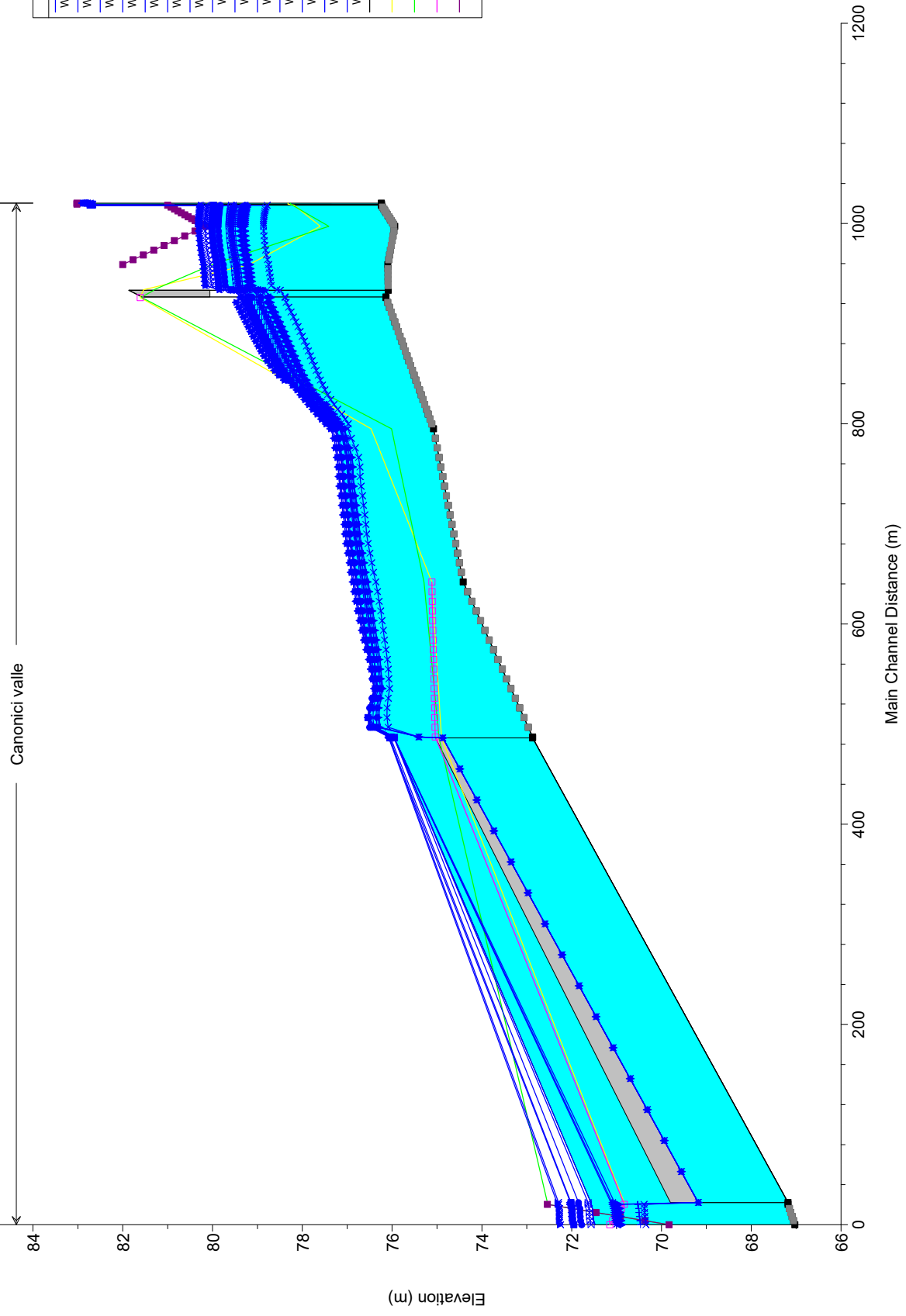
OGGETTO: Studio idrologico-idraulico a supporto della redazione del Piano Operativo di Volterra
UBICAZIONE: VOLTERRA PI
COMMITTENTE: Comune di VOLTERRA
ELABORATO: ALLEGATO IDRAULICO

DATA: Gennaio 2019

Pr. n°: 19-007

Rev.	Data	Motivo
00	25.03.2020	Prima emissione
01		
02		
03		
04		
05		

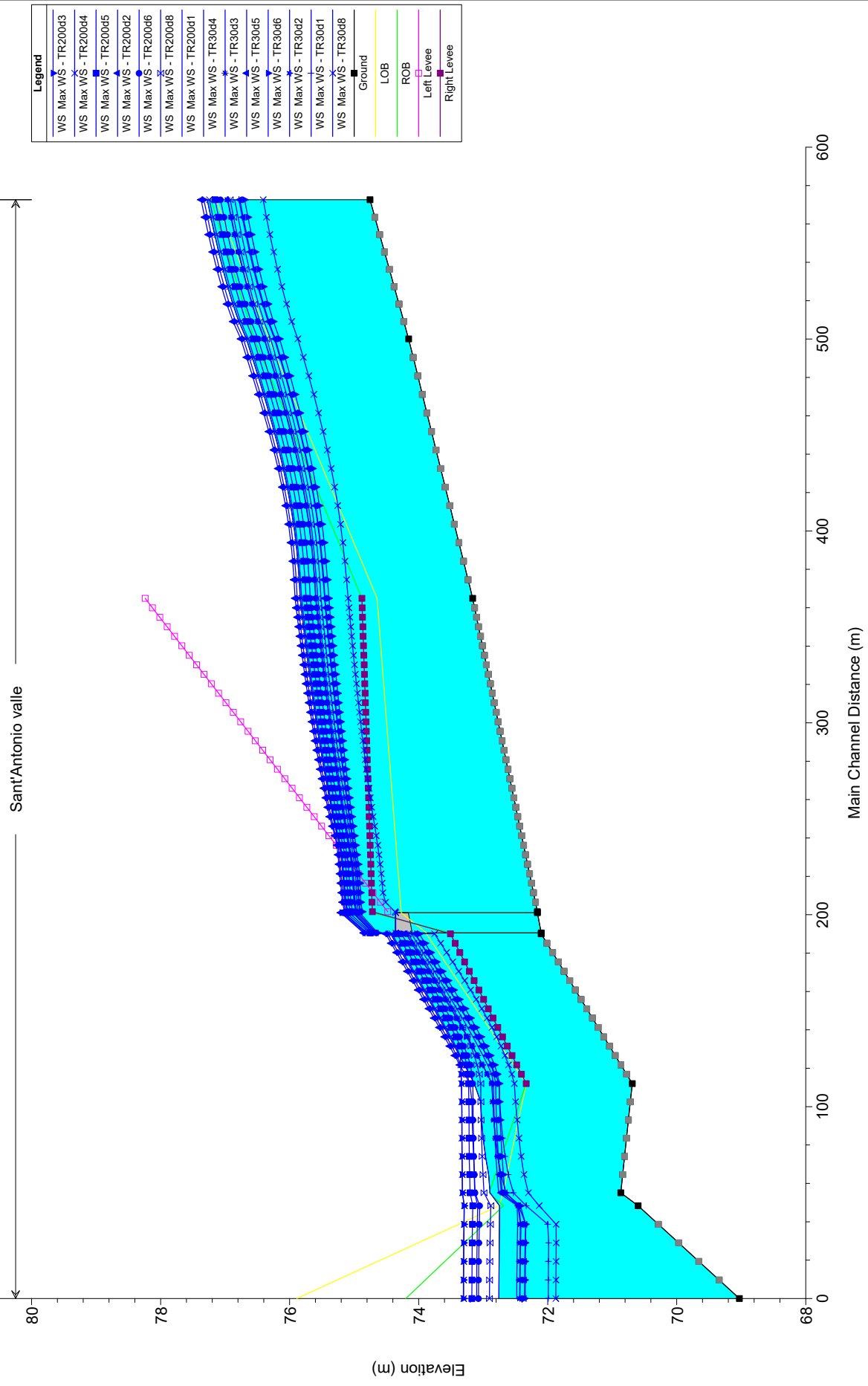
Salme di Valera - Parte 1) TR200d1 05/2019 2) TR200d2 05/2019 3) TR200d3 05/2019 4) TR200d4 05/2019 5) TR200d5 05/2019 6) TR200d6 05/2019 7) TR200d7 05/2019 8) TR200d8 05/2019 9) TR200d9 05/2019 10) TR200d10 05/2019 11) TR200d11 05/2019 12) TR200d12 05/2019 13) TR200d13 05/2019 14) TR200d14 05/2019



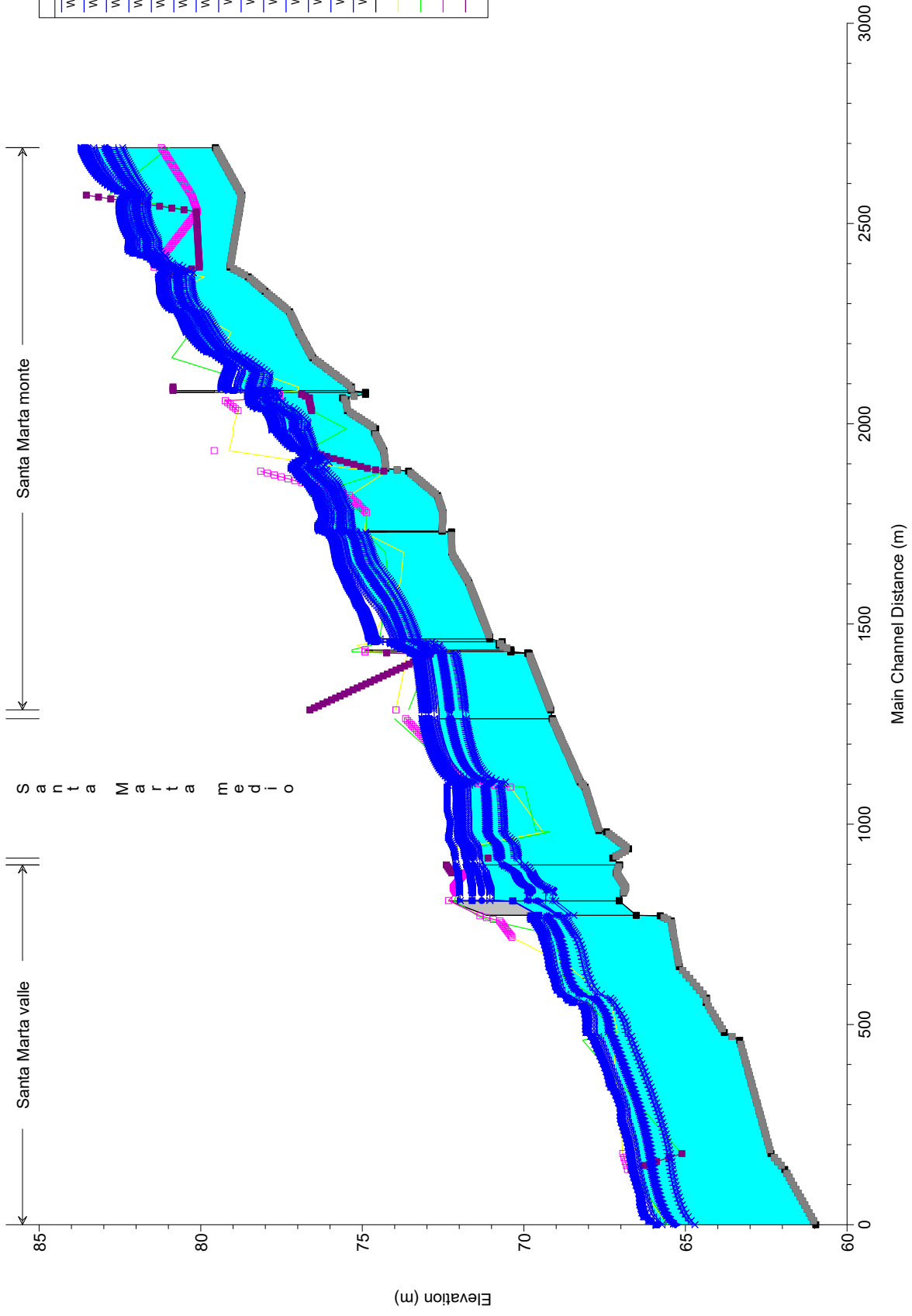
Legend	
WS Max WS - TR200d3	Blue line with upward-pointing triangle markers
WS Max WS - TR200d4	Blue line with 'x' markers
WS Max WS - TR200d5	Blue line with square markers
WS Max WS - TR200d2	Blue line with downward-pointing triangle markers
WS Max WS - TR200d6	Blue line with diamond markers
WS Max WS - TR200d8	Blue line with circle markers
WS Max WS - TR200d1	Blue line with left-pointing triangle markers
WS Max WS - TR30d4	Blue line with right-pointing triangle markers
WS Max WS - TR30d3	Blue line with star markers
WS Max WS - TR30d5	Blue line with cross markers
WS Max WS - TR30d2	Blue line with plus markers
WS Max WS - TR30d6	Blue line with asterisk markers
WS Max WS - TR30d1	Blue line with dot markers
WS Max WS - TR30d8	Blue line with hash markers
Ground	Thick grey line
LOB	Yellow line
ROB	Green line
Left Levee	Purple line
Right Levee	Pink line

Sant'Antonio valle

1) TR200d1 05/2019 2) TR200d2 05/2019 3) TR200d3 05/2019 4) TR200d4 05/2019 5) TR200d5 05/2019 6) TR200d6 05/2019 7) TR200d7 05/2019 8) TR200d8 05/2019 9) TR300d1 05/2019 10) TR300d2 05/2019 11) TR300d3 05/2019 12) TR300d4 05/2019 13) TR300d5 05/2019 14) TR300d6 05/2019



Sainta Marta valle Santa Marta monte



Legend	
WS Max WS - TR200d3	Blue line with 'x' markers
WS Max WS - TR200d4	Blue line with 'x' markers
WS Max WS - TR200d2	Blue line with 'x' markers
WS Max WS - TR200d5	Blue line with 'x' markers
WS Max WS - TR200d6	Blue line with 'x' markers
WS Max WS - TR200d8	Blue line with 'x' markers
WS Max WS - TR200d1	Blue line with 'x' markers
WS Max WS - TR30d4	Blue line with 'x' markers
WS Max WS - TR30d3	Blue line with 'x' markers
WS Max WS - TR30d5	Blue line with 'x' markers
WS Max WS - TR30d2	Blue line with 'x' markers
WS Max WS - TR30d6	Blue line with 'x' markers
WS Max WS - TR30d1	Blue line with 'x' markers
WS Max WS - TR30d8	Blue line with 'x' markers
Ground	Black line
LOB	Yellow line
ROB	Green line
Left Levee	Pink line
Right Levee	Purple line

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Santa Marta	monte	56	Max WS	TR200d1	67.14	79.54	83.32		83.48	0.002264	1.91	42.44	25.13	0.37
Santa Marta	monte	56	Max WS	TR200d2	81.12	79.54	83.66		83.82	0.002062	1.95	51.97	28.93	0.36
Santa Marta	monte	56	Max WS	TR200d3	84.26	79.54	83.74		83.89	0.002000	1.94	54.10	28.93	0.35
Santa Marta	monte	56	Max WS	TR200d4	82.32	79.54	83.69		83.85	0.002037	1.94	52.79	28.93	0.35
Santa Marta	monte	56	Max WS	TR200d5	78.58	79.54	83.60		83.76	0.002116	1.95	50.21	28.93	0.36
Santa Marta	monte	56	Max WS	TR200d6	74.55	79.54	83.50		83.67	0.002183	1.95	47.39	27.93	0.37
Santa Marta	monte	56	Max WS	TR200d8	67.02	79.54	83.31		83.47	0.002264	1.91	42.37	25.08	0.37
Santa Marta	monte	56	Max WS	TR30d1	42.55	79.54	82.62		82.76	0.002552	1.73	27.91	18.35	0.39
Santa Marta	monte	56	Max WS	TR30d2	52.69	79.54	82.93		83.07	0.002377	1.80	33.75	20.17	0.38
Santa Marta	monte	56	Max WS	TR30d3	54.91	79.54	82.99		83.14	0.002344	1.82	35.03	20.54	0.38
Santa Marta	monte	56	Max WS	TR30d4	54.89	79.54	82.99		83.14	0.002343	1.82	35.02	20.54	0.38
Santa Marta	monte	56	Max WS	TR30d5	52.76	79.54	82.93		83.08	0.002374	1.80	33.80	20.18	0.38
Santa Marta	monte	56	Max WS	TR30d6	50.32	79.54	82.86		83.00	0.002413	1.79	32.39	19.76	0.38
Santa Marta	monte	56	Max WS	TR30d8	36.27	79.54	82.42		82.55	0.002686	1.67	24.29	17.13	0.40
Santa Marta	monte	55	Max WS	TR200d1	67.08	78.73	82.08		82.67	0.009583	3.39	19.81	8.42	0.70
Santa Marta	monte	55	Max WS	TR200d2	80.99	78.73	82.22		82.98	0.012011	3.87	20.84	8.53	0.79
Santa Marta	monte	55	Max WS	TR200d3	84.14	78.73	82.24		83.05	0.012655	3.98	21.13	8.54	0.81
Santa Marta	monte	55	Max WS	TR200d4	82.23	78.73	82.22		83.01	0.012265	3.91	21.01	8.53	0.80
Santa Marta	monte	55	Max WS	TR200d5	78.53	78.73	82.20		82.93	0.011553	3.78	20.77	8.51	0.77
Santa Marta	monte	55	Max WS	TR200d6	74.53	78.73	82.16		82.84	0.010835	3.64	20.46	8.48	0.75
Santa Marta	monte	55	Max WS	TR200d8	67.01	78.73	82.08		82.67	0.009573	3.38	19.81	8.42	0.70
Santa Marta	monte	55	Max WS	TR30d1	42.53	78.73	81.72		82.04	0.006105	2.54	16.77	8.12	0.56
Santa Marta	monte	55	Max WS	TR30d2	52.66	78.73	81.89		82.32	0.007488	2.90	18.18	8.26	0.62
Santa Marta	monte	55	Max WS	TR30d3	54.89	78.73	81.92		82.37	0.007800	2.97	18.46	8.29	0.64
Santa Marta	monte	55	Max WS	TR30d4	54.87	78.73	81.92		82.37	0.007797	2.97	18.46	8.29	0.64
Santa Marta	monte	55	Max WS	TR30d5	52.75	78.73	81.89		82.32	0.007503	2.90	18.19	8.26	0.62
Santa Marta	monte	55	Max WS	TR30d6	50.31	78.73	81.85		82.25	0.007163	2.82	17.87	8.23	0.61
Santa Marta	monte	55	Max WS	TR30d8	36.27	78.73	81.59		81.86	0.005297	2.30	15.74	8.01	0.53
Santa Marta	monte	54.998			Lat Struct									
Santa Marta	monte	54	Max WS	TR200d1	68.41	78.81	82.29		82.37	0.001343	1.47	57.31	26.86	0.27
Santa Marta	monte	54	Max WS	TR200d2	83.69	78.81	82.51		82.60	0.001492	1.59	63.24	26.86	0.28
Santa Marta	monte	54	Max WS	TR200d3	87.13	78.81	82.55		82.65	0.001528	1.62	64.43	26.86	0.29
Santa Marta	monte	54	Max WS	TR200d4	85.01	78.81	82.53		82.62	0.001506	1.60	63.70	26.86	0.28
Santa Marta	monte	54	Max WS	TR200d5	80.91	78.81	82.47		82.56	0.001464	1.57	62.23	26.86	0.28
Santa Marta	monte	54	Max WS	TR200d6	76.50	78.81	82.41		82.50	0.001421	1.53	60.57	26.86	0.28
Santa Marta	monte	54	Max WS	TR200d8	68.29	78.81	82.29		82.37	0.001342	1.47	57.27	26.86	0.27
Santa Marta	monte	54	Max WS	TR30d1	42.42	78.81	81.80		81.85	0.001137	1.24	44.08	26.86	0.25
Santa Marta	monte	54	Max WS	TR30d2	52.62	78.81	82.02		82.08	0.001197	1.33	50.03	26.86	0.26
Santa Marta	monte	54	Max WS	TR30d3	55.17	78.81	82.06		82.13	0.001227	1.35	51.21	26.86	0.26
Santa Marta	monte	54	Max WS	TR30d4	55.15	78.81	82.06		82.13	0.001227	1.35	51.20	26.86	0.26
Santa Marta	monte	54	Max WS	TR30d5	52.72	78.81	82.02		82.08	0.001198	1.33	50.08	26.86	0.26
Santa Marta	monte	54	Max WS	TR30d6	50.12	78.81	81.97		82.03	0.001176	1.30	48.72	26.86	0.25
Santa Marta	monte	54	Max WS	TR30d8	36.26	78.81	81.64		81.69	0.001119	1.20	39.86	26.86	0.25
Santa Marta	monte	53	Max WS	TR200d1	61.84	79.09	81.08	81.13	81.84	0.017307	4.04	16.73	12.19	1.06
Santa Marta	monte	53	Max WS	TR200d2	72.97	79.09	81.26	81.30	82.08	0.016466	4.19	19.06	12.44	1.05
Santa Marta	monte	53	Max WS	TR200d3	75.40	79.09	81.30	81.34	82.13	0.016377	4.22	19.53	12.49	1.05
Santa Marta	monte	53	Max WS	TR200d4	73.88	79.09	81.28	81.32	82.10	0.016419	4.20	19.25	12.46	1.05
Santa Marta	monte	53	Max WS	TR200d5	71.03	79.09	81.23	81.28	82.04	0.016570	4.16	18.67	12.40	1.05
Santa Marta	monte	53	Max WS	TR200d6	67.77	79.09	81.18	81.23	81.97	0.016762	4.12	18.01	12.33	1.05
Santa Marta	monte	53	Max WS	TR200d8	61.76	79.09	81.07	81.13	81.84	0.017297	4.04	16.72	12.19	1.06
Santa Marta	monte	53	Max WS	TR30d1	41.49	79.09	80.68	80.79	81.35	0.020313	3.75	12.05	11.67	1.11
Santa Marta	monte	53	Max WS	TR30d2	49.49	79.09	80.87	80.93	81.55	0.017512	3.78	14.30	11.92	1.05
Santa Marta	monte	53	Max WS	TR30d3	51.39	79.09	80.91	80.96	81.59	0.017167	3.80	14.78	11.97	1.04
Santa Marta	monte	53	Max WS	TR30d4	51.52	79.09	80.91	80.96	81.60	0.017273	3.81	14.77	11.97	1.05
Santa Marta	monte	53	Max WS	TR30d5	49.83	79.09	80.87	80.93	81.56	0.017796	3.81	14.29	11.92	1.06
Santa Marta	monte	53	Max WS	TR30d6	47.81	79.09	80.84	80.90	81.51	0.017956	3.77	13.85	11.87	1.06
Santa Marta	monte	53	Max WS	TR30d8	35.84	79.09	80.55	80.68	81.21	0.022323	3.70	10.54	11.49	1.15
Santa Marta	monte	52	Max WS	TR200d1	67.09	78.53	81.05		81.23	0.002980	1.96	37.33	24.15	0.46
Santa Marta	monte	52	Max WS	TR200d2	81.27	78.53	81.29		81.49	0.002858	2.06	43.28	25.04	0.45
Santa Marta	monte	52	Max WS	TR200d3	84.36	78.53	81.34		81.54	0.002854	2.08	44.43	25.17	0.45
Santa Marta	monte	52	Max WS	TR200d4	82.25	78.53	81.31		81.51	0.002841	2.06	43.73	25.09	0.45
Santa Marta	monte	52	Max WS	TR200d5	78.64	78.53	81.26		81.45	0.002844	2.03	42.38	24.93	0.45
Santa Marta	monte	52	Max WS	TR200d6	74.54	78.53	81.19		81.38	0.002846	2.00	40.82	24.70	0.45
Santa Marta	monte	52	Max WS	TR200d8	66.99	78.53	81.05		81.23	0.002970	1.96	37.34	24.15	0.46
Santa Marta	monte	52	Max WS	TR30d1	43.04	78.53	80.50		80.67	0.004105	1.88	24.49	22.00	0.51
Santa Marta	monte	52	Max WS	TR30d2	53.22	78.53	80.75		80.92	0.003437	1.91	30.23	22.99	0.48
Santa Marta	monte	52	Max WS	TR30d3	55.56	78.53	80.80		80.98	0.003357	1.92	31.41	23.18	0.48
Santa Marta	monte	52	Max WS	TR30d4	55.58	78.53	80.80		80.98	0.003359	1.92	31.41	23.18	0.48
Santa Marta	monte	52	Max WS	TR30d5	53.22	78.53	80.75		80.92	0.003425	1.90	30.27	22.99	0.48
Santa Marta	monte	52	Max WS	TR30d6	50.54	78.53	80.69		80.86	0.003517	1.89	28.93	22.77	0.48
Santa Marta	monte	52	Max WS	TR30d8	36.25	78.53	80.31		80.48	0.004573	1.87	20.52	20.61	0.53
Santa Marta	monte	51	Max WS	TR200d1	67.09	78.01	81.01		81.13	0.001748	1.53	44.21	25.75	0.36
Santa Marta	monte	51	Max WS	TR200d2	81.01	78.01	81.26		81.39	0.001687	1.62	50.80	27.30	0.36
Santa Marta	monte	51	Max WS	TR200d3	83.90	78.01	81.30		81.44	0.001678	1.63	52.11	27.57	0.36
Santa Marta	monte	51	Max WS	TR200d4	81.92	78.01	81.27		81.41	0.001674	1.62	51.32	27.41	0.36
Santa Marta	monte	51	Max WS	TR200d5	78.52	78.01	81.22		81.35	0.001683	1.60	49.78	27.09	0.36
Santa Marta	monte	51	Max WS	TR200d6	74.52	78.01	81.15		81.28	0.001686	1.57	48.05	26.74	0.36
Santa Marta	monte	51	Max WS	TR200d8	66.99	78.01	81.01		81.13	0.001742	1.52	44.22	25.76	0.36
Santa Marta	monte	51	Max WS	TR30d1	42.79	78.01	80.43		80.53	0.001943	1.39	30.82	21.00	0.37
Santa Marta	monte	51	Max WS	TR30d2	52.90	78.01	80.70		80.80	0.001892	1.45	36.60	23.02	0.37
Santa Marta	monte	51	Max WS	TR30d3	55.20	78.01	80.75		80.86	0.001870	1.46	37.80	23.47	0.37
Santa Marta	monte	51	Max WS	TR30d4	55.21	78.01	80.75		80.86	0.001868	1.46	37.82	23.48	0.37
Santa Marta	monte	51	Max WS	TR30d5	52.92	78.01	80.70		80.80	0.001886	1.44	36.65	23.04	0.37
Santa Marta	monte	51	Max WS	TR30d6	50.36	78.01	80.64		80.74	0.001887	1.43	35.28	22.58	0.36
Santa Marta	monte	51	Max WS	TR30d8	36.25	78.01	80.25		80.34	0.001968	1.34	27.01	19.55	0.36
Santa Marta	monte	50	Max WS	TR200d1	66.92	77.25	80.48		80.93	0.008139	2.99	22.47	13.54	0.72
Santa Marta	monte	50	Max WS	TR200d2	79.84	77.25	80.70		81.20	0.008012	3.16	25.51		

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Santa Marta	monte	50	Max WS	TR30d5	52.84	77.25	80.21		80.61	0.008239	2.77	19.06	12.35	0.71
Santa Marta	monte	50	Max WS	TR30d6	50.33	77.25	80.16		80.54	0.008192	2.73	18.44	12.11	0.71
Santa Marta	monte	50	Max WS	TR30d8	36.25	77.25	79.84		80.15	0.007397	2.45	14.78	10.45	0.66
Santa Marta	monte	49	Max WS	TR200d1	66.92	76.96	80.14		80.53	0.006673	2.82	24.91	16.24	0.67
Santa Marta	monte	49	Max WS	TR200d2	79.97	76.96	80.39		80.80	0.006220	2.91	29.23	19.81	0.65
Santa Marta	monte	49	Max WS	TR200d3	83.13	76.96	80.48		80.88	0.005695	2.87	31.22	22.19	0.63
Santa Marta	monte	49	Max WS	TR200d4	81.45	76.96	80.43		80.84	0.005959	2.89	30.16	21.31	0.64
Santa Marta	monte	49	Max WS	TR200d5	77.80	76.96	80.35		80.76	0.006336	2.89	28.45	18.45	0.66
Santa Marta	monte	49	Max WS	TR200d6	74.24	76.96	80.28		80.69	0.006481	2.87	27.27	17.05	0.66
Santa Marta	monte	49	Max WS	TR200d8	66.91	76.96	80.14		80.53	0.006673	2.82	24.90	16.24	0.67
Santa Marta	monte	49	Max WS	TR30d1	42.52	76.96	79.61		79.94	0.007268	2.53	17.13	13.21	0.67
Santa Marta	monte	49	Max WS	TR30d2	52.73	76.96	79.84		80.20	0.007036	2.68	20.37	14.55	0.67
Santa Marta	monte	49	Max WS	TR30d3	54.95	76.96	79.89		80.26	0.006981	2.70	21.07	14.82	0.67
Santa Marta	monte	49	Max WS	TR30d4	54.94	76.96	79.89		80.26	0.006983	2.70	21.07	14.82	0.67
Santa Marta	monte	49	Max WS	TR30d5	52.82	76.96	79.85		80.21	0.007031	2.68	20.40	14.56	0.67
Santa Marta	monte	49	Max WS	TR30d6	50.32	76.96	79.79		80.14	0.007083	2.64	19.61	14.25	0.67
Santa Marta	monte	49	Max WS	TR30d8	36.25	76.96	79.46		79.75	0.007370	2.42	15.16	12.32	0.66
Santa Marta	monte	48	Max WS	TR200d1	66.92	76.53	79.18	79.22	79.99	0.017583	3.97	16.84	11.22	1.04
Santa Marta	monte	48	Max WS	TR200d2	79.97	76.53	79.41	79.44	80.27	0.016821	4.10	19.51	11.96	1.03
Santa Marta	monte	48	Max WS	TR200d3	83.68	76.53	79.48	79.49	80.35	0.016454	4.12	20.29	12.16	1.02
Santa Marta	monte	48	Max WS	TR200d4	81.74	76.53	79.45	79.46	80.31	0.016703	4.11	19.88	12.06	1.02
Santa Marta	monte	48	Max WS	TR200d5	77.80	76.53	79.38	79.40	80.23	0.016912	4.08	19.08	11.84	1.03
Santa Marta	monte	48	Max WS	TR200d6	73.78	76.53	79.31	79.34	80.14	0.016972	4.03	18.32	11.64	1.02
Santa Marta	monte	48	Max WS	TR200d8	66.91	76.53	79.18	79.22	79.99	0.017584	3.97	16.83	11.22	1.04
Santa Marta	monte	48	Max WS	TR30d1	42.48	76.53	78.70	78.73	79.36	0.018682	3.60	11.82	9.66	1.04
Santa Marta	monte	48	Max WS	TR30d2	52.70	76.53	78.82	78.85	79.64	0.018226	3.78	13.95	10.35	1.04
Santa Marta	monte	48	Max WS	TR30d3	54.93	76.53	78.96	78.99	79.70	0.018113	3.81	14.41	10.50	1.04
Santa Marta	monte	48	Max WS	TR30d4	54.90	76.53	78.96	78.99	79.70	0.018108	3.81	14.41	10.49	1.04
Santa Marta	monte	48	Max WS	TR30d5	52.79	76.53	78.92	78.95	79.65	0.018233	3.78	13.97	10.36	1.04
Santa Marta	monte	48	Max WS	TR30d6	50.31	76.53	78.87	78.90	79.58	0.018351	3.74	13.45	10.20	1.04
Santa Marta	monte	48	Max WS	TR30d8	36.25	76.53	78.56	78.58	79.17	0.018864	3.45	10.49	9.21	1.03
Santa Marta	monte	47	Max WS	TR200d1	66.91	75.34	78.88		78.98	0.008823	1.53	54.10	29.00	0.30
Santa Marta	monte	47	Max WS	TR200d2	79.96	75.34	79.29		79.38	0.008657	1.51	66.36	30.47	0.28
Santa Marta	monte	47	Max WS	TR200d3	83.69	75.34	79.41		79.50	0.008620	1.51	69.93	30.89	0.27
Santa Marta	monte	47	Max WS	TR200d4	81.73	75.34	79.35		79.44	0.008639	1.51	68.06	30.67	0.28
Santa Marta	monte	47	Max WS	TR200d5	77.80	75.34	79.22		79.32	0.008681	1.51	64.30	30.23	0.28
Santa Marta	monte	47	Max WS	TR200d6	73.48	75.34	79.15		79.24	0.008671	1.48	62.09	29.97	0.28
Santa Marta	monte	47	Max WS	TR200d8	66.90	75.34	78.88		78.98	0.008823	1.53	54.09	29.00	0.30
Santa Marta	monte	47	Max WS	TR30d1	42.44	75.34	78.14		78.24	0.01247	1.51	33.67	25.51	0.35
Santa Marta	monte	47	Max WS	TR30d2	52.69	75.34	78.47		78.57	0.010113	1.51	42.47	27.54	0.33
Santa Marta	monte	47	Max WS	TR30d3	54.89	75.34	78.54		78.64	0.009966	1.51	44.46	27.79	0.32
Santa Marta	monte	47	Max WS	TR30d4	54.87	75.34	78.54		78.64	0.009967	1.51	44.45	27.79	0.32
Santa Marta	monte	47	Max WS	TR30d5	52.77	75.34	78.47		78.57	0.010111	1.51	42.56	27.55	0.33
Santa Marta	monte	47	Max WS	TR30d6	50.31	75.34	78.39		78.49	0.010710	1.52	40.32	27.26	0.33
Santa Marta	monte	47	Max WS	TR30d8	36.24	75.34	77.94		78.04	0.010402	1.48	28.70	24.05	0.37
Santa Marta	monte	46.9	Max WS	TR200d1	65.56	75.34	78.67	77.67	78.92	0.001913	2.22	29.72	28.26	0.46
Santa Marta	monte	46.9	Max WS	TR200d2	79.96	75.34	79.06	77.88	79.34	0.001704	2.32	35.00	29.67	0.44
Santa Marta	monte	46.9	Max WS	TR200d3	83.69	75.34	79.18	77.94	79.45	0.001633	2.33	36.55	30.07	0.44
Santa Marta	monte	46.9	Max WS	TR200d4	81.72	75.34	79.12	77.91	79.39	0.001669	2.33	35.74	29.86	0.44
Santa Marta	monte	46.9	Max WS	TR200d5	77.80	75.34	79.00	77.85	79.27	0.001750	2.32	34.10	29.43	0.45
Santa Marta	monte	46.9	Max WS	TR200d6	73.67	75.34	78.94	77.79	79.19	0.001691	2.24	33.29	29.22	0.44
Santa Marta	monte	46.9	Max WS	TR200d8	65.56	75.34	78.67	77.67	78.92	0.001914	2.22	29.72	28.25	0.46
Santa Marta	monte	46.9	Max WS	TR30d1	42.43	75.34	77.99	77.29	78.19	0.002429	2.01	21.11	24.40	0.49
Santa Marta	monte	46.9	Max WS	TR30d2	52.68	75.34	78.29	77.46	78.52	0.002193	2.12	24.86	26.62	0.48
Santa Marta	monte	46.9	Max WS	TR30d3	54.89	75.34	78.36	77.50	78.59	0.002136	2.14	25.70	27.11	0.47
Santa Marta	monte	46.9	Max WS	TR30d4	54.87	75.34	78.36	77.50	78.59	0.002135	2.14	25.70	27.11	0.47
Santa Marta	monte	46.9	Max WS	TR30d5	52.77	75.34	78.29	77.47	78.52	0.002189	2.12	24.89	26.64	0.48
Santa Marta	monte	46.9	Max WS	TR30d6	50.31	75.34	78.22	77.42	78.44	0.002260	2.10	23.94	26.08	0.48
Santa Marta	monte	46.9	Max WS	TR30d8	36.23	75.34	77.81	77.17	77.99	0.002478	1.91	18.94	23.15	0.49
Santa Marta	monte	46.6		Bridge										
Santa Marta	monte	46.4	Max WS	TR200d1	66.91	74.90	78.29		78.60	0.002981	2.65	29.53	28.53	0.51
Santa Marta	monte	46.4	Max WS	TR200d2	79.95	74.90	78.48		78.85	0.003188	2.87	32.70	32.67	0.54
Santa Marta	monte	46.4	Max WS	TR200d3	83.69	74.90	78.54		78.92	0.003239	2.82	33.56	33.84	0.54
Santa Marta	monte	46.4	Max WS	TR200d4	81.72	74.90	78.51		78.88	0.003215	2.89	33.10	33.32	0.54
Santa Marta	monte	46.4	Max WS	TR200d5	77.80	74.90	78.45		78.81	0.003154	2.83	32.20	31.86	0.53
Santa Marta	monte	46.4	Max WS	TR200d6	74.52	74.90	78.41		78.75	0.003097	2.77	31.45	30.63	0.53
Santa Marta	monte	46.4	Max WS	TR200d8	66.90	74.90	78.29		78.60	0.002980	2.64	29.53	28.53	0.51
Santa Marta	monte	46.4	Max WS	TR30d1	42.43	74.90	77.81		78.04	0.002653	2.19	21.86	20.98	0.47
Santa Marta	monte	46.4	Max WS	TR30d2	52.68	74.90	78.04		78.30	0.002765	2.39	25.48	24.54	0.49
Santa Marta	monte	46.4	Max WS	TR30d3	54.89	74.90	78.08		78.35	0.002803	2.43	26.14	25.19	0.49
Santa Marta	monte	46.4	Max WS	TR30d4	54.87	74.90	78.08		78.35	0.002802	2.43	26.13	25.19	0.49
Santa Marta	monte	46.4	Max WS	TR30d5	52.77	74.90	78.04		78.30	0.002767	2.39	25.50	24.56	0.49
Santa Marta	monte	46.4	Max WS	TR30d6	50.31	74.90	77.99		78.25	0.002727	2.34	24.73	23.80	0.48
Santa Marta	monte	46.4	Max WS	TR30d8	36.23	74.90	77.68		77.88	0.002476	2.03	19.78	18.84	0.45
Santa Marta	monte	46	Max WS	TR200d1	66.91	74.90	78.29		78.57	0.002790	2.56	34.34	27.89	0.50
Santa Marta	monte	46	Max WS	TR200d2	79.95	74.90	78.50		78.81	0.002853	2.72	40.55	32.54	0.51
Santa Marta	monte	46	Max WS	TR200d3	83.69	74.90	78.56		78.87	0.002828	2.75	42.54	33.66	0.51
Santa Marta	monte	46	Max WS	TR200d4	81.72	74.90	78.53		78.84	0.002851	2.74	41.46	33.19	0.51
Santa Marta	monte	46	Max WS	TR200d5	77.79	74.90	78.47		78.77	0.002839	2.69	39.51	31.66	0.51
Santa Marta	monte	46	Max WS	TR200d6	74.56	74.90	78.42		78.71	0.002810	2.65	38.01	30.35	0.50
Santa Marta	monte	46	Max WS	TR200d8	66.90	74.90	78.29		78.57	0.002789	2.56	34.34	27.89	0.50
Santa Marta	monte	46	Max WS	TR30d1	42.43	74.90	77.80		78.03	0.002708	2.21	22.66	19.68	0.47
Santa Marta	monte	46	Max WS	TR30d2	52.68	74.90	78.03		78.28	0.002748	2.37	27.57	23.48	0.49
Santa Marta	monte	46	Max WS	TR30d3	54.89	74.90	78.07		78.33	0.002765	2.41	28.58	24.19	0.49
Santa Marta	monte	46	Max WS	TR30d4	54.87	74.90	78.07		78.33	0.002764	2.41	28.57	24.19	0.49
Santa Marta	monte	46	Max WS	TR30d5	52.77	74.90	78.03		78.29	0.002748	2.37			

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Santa Marta	monte	38	Max WS	TR200d2	65.93	73.57	77.05		77.27	0.001892	2.69	39.57	22.42	0.47
Santa Marta	monte	38	Max WS	TR200d3	68.18	73.57	77.11		77.34	0.001851	2.69	41.01	22.83	0.47
Santa Marta	monte	38	Max WS	TR200d4	67.02	73.57	77.08		77.31	0.001869	2.69	40.29	22.63	0.47
Santa Marta	monte	38	Max WS	TR200d5	64.37	73.57	77.01		77.24	0.001901	2.67	38.74	22.18	0.47
Santa Marta	monte	38	Max WS	TR200d6	62.18	73.57	76.95		77.17	0.001949	2.67	37.30	21.76	0.47
Santa Marta	monte	38	Max WS	TR200d8	57.75	73.57	76.81		77.04	0.002065	2.67	34.33	20.87	0.48
Santa Marta	monte	38	Max WS	TR30d1	40.38	73.57	76.26		76.49	0.002462	2.56	23.92	17.36	0.51
Santa Marta	monte	38	Max WS	TR30d2	47.83	73.57	76.51		76.74	0.002256	2.61	28.45	18.97	0.50
Santa Marta	monte	38	Max WS	TR30d3	49.56	73.57	76.56		76.79	0.002226	2.62	29.43	19.30	0.50
Santa Marta	monte	38	Max WS	TR30d4	49.55	73.57	76.56		76.79	0.002224	2.62	29.44	19.30	0.50
Santa Marta	monte	38	Max WS	TR30d5	47.86	73.57	76.51		76.74	0.002250	2.61	28.49	18.98	0.50
Santa Marta	monte	38	Max WS	TR30d6	46.10	73.57	76.46		76.69	0.002293	2.60	27.43	18.62	0.50
Santa Marta	monte	38	Max WS	TR30d8	35.15	73.57	76.09		76.31	0.002564	2.50	21.01	16.25	0.52
Santa Marta	monte	37	Max WS	TR200d1	56.96	72.67	76.17		76.62	0.006051	2.99	19.05	7.80	0.61
Santa Marta	monte	37	Max WS	TR200d2	65.12	72.67	76.41		76.90	0.006203	3.10	20.99	8.34	0.62
Santa Marta	monte	37	Max WS	TR200d3	67.41	72.67	76.48		76.98	0.006187	3.12	21.60	8.51	0.63
Santa Marta	monte	37	Max WS	TR200d4	66.27	72.67	76.45		76.94	0.006181	3.11	21.32	8.43	0.62
Santa Marta	monte	37	Max WS	TR200d5	63.87	72.67	76.37		76.86	0.006180	3.09	20.70	8.26	0.62
Santa Marta	monte	37	Max WS	TR200d6	61.60	72.67	76.31		76.78	0.006161	3.06	20.14	8.11	0.62
Santa Marta	monte	37	Max WS	TR200d8	56.85	72.67	76.17		76.62	0.006038	2.99	19.03	7.79	0.61
Santa Marta	monte	37	Max WS	TR30d1	39.55	72.67	75.71		76.03	0.004667	2.51	15.72	6.76	0.53
Santa Marta	monte	37	Max WS	TR30d2	47.15	72.67	75.89		76.28	0.005517	2.78	16.96	7.17	0.58
Santa Marta	monte	37	Max WS	TR30d3	48.72	72.67	75.93		76.34	0.005644	2.82	17.26	7.26	0.58
Santa Marta	monte	37	Max WS	TR30d4	48.73	72.67	75.93		76.34	0.005641	2.82	17.27	7.26	0.58
Santa Marta	monte	37	Max WS	TR30d5	47.23	72.67	75.89		76.29	0.005516	2.78	16.99	7.17	0.58
Santa Marta	monte	37	Max WS	TR30d6	45.50	72.67	75.85		76.23	0.005351	2.73	16.68	7.08	0.57
Santa Marta	monte	37	Max WS	TR30d8	34.91	72.67	75.59		75.87	0.004140	2.34	14.90	6.48	0.49
Santa Marta	monte	36.998				Lat Struct								
Santa Marta	monte	36	Max WS	TR200d1	49.24	72.50	75.96		76.31	0.004211	2.65	19.22	8.35	0.51
Santa Marta	monte	36	Max WS	TR200d2	56.95	72.50	76.22		76.60	0.004201	2.77	21.48	8.76	0.51
Santa Marta	monte	36	Max WS	TR200d3	59.11	72.50	76.30		76.69	0.004178	2.79	22.14	8.88	0.51
Santa Marta	monte	36	Max WS	TR200d4	57.98	72.50	76.26		76.65	0.004167	2.78	21.84	8.83	0.51
Santa Marta	monte	36	Max WS	TR200d5	55.78	72.50	76.19		76.56	0.004181	2.75	21.18	8.71	0.51
Santa Marta	monte	36	Max WS	TR200d6	53.68	72.50	76.11		76.48	0.004194	2.72	20.55	8.60	0.51
Santa Marta	monte	36	Max WS	TR200d8	49.29	72.50	75.97		76.32	0.004187	2.64	19.28	8.36	0.51
Santa Marta	monte	36	Max WS	TR30d1	34.68	72.50	75.50		75.76	0.003728	2.26	15.55	7.63	0.48
Santa Marta	monte	36	Max WS	TR30d2	40.86	72.50	75.68		75.99	0.004073	2.46	16.95	7.91	0.50
Santa Marta	monte	36	Max WS	TR30d3	42.15	72.50	75.72		76.04	0.004097	2.49	17.30	7.98	0.50
Santa Marta	monte	36	Max WS	TR30d4	42.18	72.50	75.72		76.04	0.004096	2.49	17.31	7.99	0.50
Santa Marta	monte	36	Max WS	TR30d5	40.92	72.50	75.68		75.99	0.004061	2.46	16.99	7.92	0.50
Santa Marta	monte	36	Max WS	TR30d6	39.48	72.50	75.64		75.94	0.004003	2.42	16.64	7.85	0.50
Santa Marta	monte	36	Max WS	TR30d8	31.37	72.50	75.35		75.59	0.003768	2.19	14.43	7.40	0.48
Santa Marta	monte	35	Max WS	TR200d1	41.85	72.53	75.97	74.29	76.12	0.001459	1.76	25.96	10.51	0.31
Santa Marta	monte	35	Max WS	TR200d2	47.00	72.53	76.28	74.41	76.43	0.001358	1.77	29.14	10.51	0.30
Santa Marta	monte	35	Max WS	TR200d3	48.10	72.53	76.37	74.45	76.51	0.001308	1.76	30.08	10.51	0.30
Santa Marta	monte	35	Max WS	TR200d4	47.56	72.53	76.33	74.43	76.47	0.001328	1.76	29.66	10.51	0.30
Santa Marta	monte	35	Max WS	TR200d5	46.35	72.53	76.24	74.40	76.38	0.001374	1.77	28.71	10.51	0.30
Santa Marta	monte	35	Max WS	TR200d6	45.30	72.53	76.15	74.37	76.30	0.001429	1.78	27.80	10.51	0.31
Santa Marta	monte	35	Max WS	TR200d8	41.91	72.53	75.98	74.29	76.13	0.001447	1.75	26.07	10.51	0.31
Santa Marta	monte	35	Max WS	TR30d1	29.77	72.53	75.47	73.97	75.59	0.001315	1.53	20.71	10.51	0.30
Santa Marta	monte	35	Max WS	TR30d2	35.27	72.53	75.66	74.12	75.80	0.001466	1.67	22.89	10.51	0.31
Santa Marta	monte	35	Max WS	TR30d3	36.26	72.53	75.71	74.14	75.85	0.001461	1.69	23.22	10.51	0.31
Santa Marta	monte	35	Max WS	TR30d4	36.28	72.53	75.71	74.14	75.85	0.001460	1.69	23.24	10.51	0.31
Santa Marta	monte	35	Max WS	TR30d5	35.32	72.53	75.67	74.12	75.80	0.001461	1.67	22.74	10.51	0.31
Santa Marta	monte	35	Max WS	TR30d6	34.06	72.53	75.62	74.09	75.75	0.001439	1.65	22.24	10.51	0.31
Santa Marta	monte	35	Max WS	TR30d8	28.03	72.53	75.29	73.92	75.41	0.001488	1.57	18.73	10.51	0.32
Santa Marta	monte	34.7				Bridge								
Santa Marta	monte	34.4	Max WS	TR200d1	41.72	72.24	75.73		75.97	0.002740	2.15	19.40	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR200d2	46.87	72.24	76.06		76.30	0.002687	2.19	21.36	6.02	0.37
Santa Marta	monte	34.4	Max WS	TR200d3	48.00	72.24	76.14		76.39	0.002647	2.19	21.88	6.02	0.37
Santa Marta	monte	34.4	Max WS	TR200d4	47.47	72.24	76.10		76.35	0.002662	2.19	21.65	6.02	0.37
Santa Marta	monte	34.4	Max WS	TR200d5	46.31	72.24	76.02		76.26	0.002699	2.19	21.13	6.02	0.37
Santa Marta	monte	34.4	Max WS	TR200d6	45.28	72.24	75.93		76.18	0.002747	2.20	20.63	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR200d8	41.89	72.24	75.74		75.98	0.002733	2.15	19.48	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d1	29.73	72.24	75.11		75.29	0.002472	1.90	15.64	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d2	35.20	72.24	75.38		75.60	0.002636	2.03	17.32	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d3	36.23	72.24	75.44		75.66	0.002651	2.05	17.66	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d4	36.26	72.24	75.44		75.66	0.002650	2.05	17.67	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d5	35.31	72.24	75.39		75.60	0.002635	2.03	17.36	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d6	34.03	72.24	75.33		75.53	0.002595	2.00	16.98	6.02	0.38
Santa Marta	monte	34.4	Max WS	TR30d8	28.02	72.24	74.90		75.10	0.002741	1.94	14.42	6.02	0.40
Santa Marta	monte	34	Max WS	TR200d1	42.75	72.24	75.69		75.94	0.002974	2.23	19.15	6.02	0.40
Santa Marta	monte	34	Max WS	TR200d2	48.24	72.24	76.01		76.28	0.002947	2.29	21.08	6.02	0.39
Santa Marta	monte	34	Max WS	TR200d3	49.46	72.24	76.09		76.36	0.002912	2.29	21.59	6.02	0.39
Santa Marta	monte	34	Max WS	TR200d4	48.91	72.24	76.06		76.32	0.002927	2.29	21.36	6.02	0.39
Santa Marta	monte	34	Max WS	TR200d5	47.63	72.24	75.97		76.24	0.002955	2.28	20.85	6.02	0.39
Santa Marta	monte	34	Max WS	TR200d6	46.49	72.24	75.89		76.16	0.002996	2.28	20.36	6.02	0.40
Santa Marta	monte	34	Max WS	TR200d8	42.90	72.24	75.70		75.96	0.002962	2.23	19.24	6.02	0.40
Santa Marta	monte	34	Max WS	TR30d1	30.17	72.24	75.08		75.28	0.002608	1.95	15.50	6.02	0.39
Santa Marta	monte	34	Max WS	TR30d2	35.89	72.24	75.35		75.58	0.002819	2.09	17.13	6.02	0.40
Santa Marta	monte	34	Max WS	TR30d3	36.96	72.24	75.41		75.64	0.002842	2.12	17.46	6.02	0.40
Santa Marta	monte	34	Max WS	TR30d4	37.00	72.24	75.41		75.64	0.002843	2.12	17.47	6.02	0.40
Santa Marta	monte	34	Max WS	TR30d5	36.00	72.24	75.36		75.58	0.002819	2.10	17.17	6.02	0.40
Santa Marta	monte	34	Max WS	TR30d6	34.67	72.24	75.30		75.52	0.002771	2.06	16.81	6.02	0.39
Santa Marta	monte	34	Max WS	TR30d8	28.05	72.24	74.89		75.09	0.002782	1.95	14.35	6.02	0.40
Santa Marta	monte	33	Max WS	TR200d1	50.20	72.23	75.49		75.66	0.001627	1.90	28.81	12.60	0.36
Santa Marta	monte	33	Max WS	TR200d2	57.56	72.23	75.81		75.99	0.001491	1.92	32.92	12.60	0.34
Santa Marta	monte	33	Max WS	TR200d3	59.63									

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Santa Marta	monte	33	Max WS	TR30d4	42.97	72.23	75.21		75.37	0.001683	1.84	25.31	12.60	0.36
Santa Marta	monte	33	Max WS	TR30d5	41.69	72.23	75.16		75.32	0.001692	1.82	24.69	12.60	0.36
Santa Marta	monte	33	Max WS	TR30d6	40.15	72.23	75.10		75.26	0.001708	1.81	23.90	12.60	0.36
Santa Marta	monte	33	Max WS	TR30d8	31.59	72.23	74.68		74.84	0.001976	1.76	18.63	12.60	0.39
Santa Marta	monte	32	Max WS	TR200d1	55.94	71.70	75.04		75.33	0.003005	2.41	24.57	10.83	0.46
Santa Marta	monte	32	Max WS	TR200d2	62.41	71.70	75.46		75.72	0.002359	2.30	29.09	10.83	0.41
Santa Marta	monte	32	Max WS	TR200d3	64.45	71.70	75.55		75.80	0.002303	2.30	30.04	10.83	0.41
Santa Marta	monte	32	Max WS	TR200d4	63.53	71.70	75.51		75.76	0.002325	2.30	29.62	10.83	0.41
Santa Marta	monte	32	Max WS	TR200d5	61.52	71.70	75.42		75.68	0.002385	2.30	28.67	10.83	0.41
Santa Marta	monte	32	Max WS	TR200d6	59.70	71.70	75.33		75.59	0.002468	2.30	27.70	10.83	0.42
Santa Marta	monte	32	Max WS	TR200d8	56.15	71.70	75.07		75.35	0.002925	2.39	24.88	10.83	0.46
Santa Marta	monte	32	Max WS	TR30d1	39.73	71.70	74.30		74.60	0.004266	2.43	16.52	10.83	0.55
Santa Marta	monte	32	Max WS	TR30d2	47.13	71.70	74.65		74.94	0.003545	2.42	20.32	10.83	0.50
Santa Marta	monte	32	Max WS	TR30d3	48.69	71.70	74.71		75.00	0.003493	2.43	20.95	10.83	0.50
Santa Marta	monte	32	Max WS	TR30d4	48.73	71.70	74.71		75.00	0.003496	2.43	20.98	10.83	0.50
Santa Marta	monte	32	Max WS	TR30d5	47.30	71.70	74.66		74.95	0.003536	2.42	20.40	10.83	0.50
Santa Marta	monte	32	Max WS	TR30d6	45.63	71.70	74.58		74.88	0.003655	2.42	19.60	10.83	0.51
Santa Marta	monte	32	Max WS	TR30d8	34.91	71.70	74.09		74.38	0.004532	2.38	14.67	7.95	0.56
Santa Marta	monte	31	Max WS	TR200d1	63.10	71.06	73.96		74.30	0.003385	2.59	24.37	9.76	0.52
Santa Marta	monte	31	Max WS	TR200d2	73.31	71.06	74.74		75.00	0.002064	2.27	32.69	13.44	0.41
Santa Marta	monte	31	Max WS	TR200d3	75.83	71.06	74.85		75.11	0.001991	2.27	34.11	13.67	0.40
Santa Marta	monte	31	Max WS	TR200d4	74.70	71.06	74.80		75.06	0.002018	2.27	33.52	13.67	0.40
Santa Marta	monte	31	Max WS	TR200d5	72.16	71.06	74.70		74.96	0.002096	2.27	32.08	12.93	0.41
Santa Marta	monte	31	Max WS	TR200d6	69.60	71.06	74.58		74.85	0.002192	2.27	30.68	11.68	0.42
Santa Marta	monte	31	Max WS	TR200d8	63.66	71.06	74.05		74.37	0.003123	2.52	25.23	9.81	0.50
Santa Marta	monte	31	Max WS	TR30d1	40.19	71.06	73.47		73.69	0.002520	2.04	19.70	9.52	0.45
Santa Marta	monte	31	Max WS	TR30d2	48.64	71.06	73.78		74.02	0.002474	2.15	22.65	9.67	0.45
Santa Marta	monte	31	Max WS	TR30d3	48.67	71.06	73.78		74.02	0.002477	2.15	22.65	9.67	0.45
Santa Marta	monte	31	Max WS	TR30d4	48.64	71.06	73.78		74.02	0.002474	2.15	22.65	9.67	0.45
Santa Marta	monte	31	Max WS	TR30d5	48.62	71.06	73.78		74.02	0.002473	2.15	22.65	9.67	0.45
Santa Marta	monte	31	Max WS	TR30d6	47.46	71.06	73.74		73.97	0.002480	2.13	22.24	9.65	0.45
Santa Marta	monte	31	Max WS	TR30d8	34.96	71.06	73.28		73.47	0.002531	1.96	17.86	9.43	0.45
Santa Marta	monte	30.9	Max WS	TR200d1	63.10	71.06	73.93	73.02	74.28	0.003560	2.63	23.95	9.69	0.53
Santa Marta	monte	30.9	Max WS	TR200d2	73.19	71.06	74.72	73.21	74.99	0.002168	2.30	31.79	9.95	0.41
Santa Marta	monte	30.9	Max WS	TR200d3	75.63	71.06	74.82	73.25	75.09	0.002133	2.30	33.03	13.60	0.41
Santa Marta	monte	30.9	Max WS	TR200d4	74.54	71.06	74.78	73.23	75.05	0.002161	2.30	32.44	13.60	0.41
Santa Marta	monte	30.9	Max WS	TR200d5	72.07	71.06	74.68	73.20	74.95	0.002187	2.30	31.34	9.95	0.41
Santa Marta	monte	30.9	Max WS	TR200d6	69.53	71.06	74.56	73.15	74.83	0.002251	2.30	30.22	9.94	0.42
Santa Marta	monte	30.9	Max WS	TR200d8	63.66	71.06	74.02	73.03	74.35	0.003269	2.56	24.84	9.73	0.51
Santa Marta	monte	30.9	Max WS	TR30d1	40.19	71.06	73.45	72.55	73.67	0.002621	2.07	19.44	9.45	0.46
Santa Marta	monte	30.9	Max WS	TR30d2	48.61	71.06	73.76	72.73	74.00	0.002566	2.17	22.36	9.60	0.45
Santa Marta	monte	30.9	Max WS	TR30d3	48.65	71.06	73.76	72.73	74.00	0.002571	2.18	22.36	9.60	0.46
Santa Marta	monte	30.9	Max WS	TR30d4	48.63	71.06	73.76	72.73	74.00	0.002569	2.17	22.36	9.60	0.45
Santa Marta	monte	30.9	Max WS	TR30d5	48.61	71.06	73.76	72.73	74.00	0.002567	2.17	22.36	9.60	0.45
Santa Marta	monte	30.9	Max WS	TR30d6	47.46	71.06	73.72	72.70	73.96	0.002575	2.16	21.96	9.57	0.46
Santa Marta	monte	30.9	Max WS	TR30d8	34.96	71.06	73.26	72.42	73.46	0.002637	1.98	17.62	9.36	0.46
Santa Marta	monte	30.7			Bridge									
Santa Marta	monte	30.4	Max WS	TR200d1	63.10	70.67	73.79		74.08	0.002741	2.40	26.27	9.59	0.46
Santa Marta	monte	30.4	Max WS	TR200d2	73.19	70.67	74.10		74.42	0.002734	2.50	29.24	9.68	0.46
Santa Marta	monte	30.4	Max WS	TR200d3	75.63	70.67	74.18		74.50	0.002719	2.52	30.00	9.70	0.46
Santa Marta	monte	30.4	Max WS	TR200d4	74.53	70.67	74.14		74.47	0.002720	2.51	29.68	9.69	0.46
Santa Marta	monte	30.4	Max WS	TR200d5	72.07	70.67	74.07		74.38	0.002732	2.49	28.93	9.67	0.46
Santa Marta	monte	30.4	Max WS	TR200d6	69.53	70.67	73.99		74.30	0.002737	2.47	28.17	9.65	0.46
Santa Marta	monte	30.4	Max WS	TR200d8	63.66	70.67	73.81		74.10	0.002740	2.41	26.44	9.59	0.46
Santa Marta	monte	30.4	Max WS	TR30d1	40.19	70.67	73.02		73.25	0.002810	2.12	18.98	9.36	0.47
Santa Marta	monte	30.4	Max WS	TR30d2	49.49	70.67	73.34		73.60	0.002778	2.25	22.02	9.46	0.47
Santa Marta	monte	30.4	Max WS	TR30d3	51.62	70.67	73.42		73.68	0.002775	2.28	22.69	9.48	0.47
Santa Marta	monte	30.4	Max WS	TR30d4	51.70	70.67	73.42		73.68	0.002775	2.28	22.72	9.48	0.47
Santa Marta	monte	30.4	Max WS	TR30d5	49.74	70.67	73.35		73.61	0.002778	2.25	22.10	9.46	0.47
Santa Marta	monte	30.4	Max WS	TR30d6	47.46	70.67	73.27		73.53	0.002786	2.22	21.36	9.44	0.47
Santa Marta	monte	30.4	Max WS	TR30d8	34.96	70.67	72.84		73.04	0.002806	2.03	17.24	9.29	0.48
Santa Marta	monte	30	Max WS	TR200d1	63.10	70.77	73.62		74.04	0.004749	2.89	21.80	9.60	0.61
Santa Marta	monte	30	Max WS	TR200d2	73.19	70.77	73.95		74.38	0.004592	2.91	25.17	10.81	0.61
Santa Marta	monte	30	Max WS	TR200d3	75.63	70.77	74.04		74.47	0.004503	2.89	26.15	11.19	0.60
Santa Marta	monte	30	Max WS	TR200d4	74.53	70.77	74.00		74.43	0.004529	2.89	25.74	11.03	0.61
Santa Marta	monte	30	Max WS	TR200d5	72.07	70.77	73.92		74.35	0.004606	2.91	24.79	10.66	0.61
Santa Marta	monte	30	Max WS	TR200d6	69.53	70.77	73.83		74.26	0.004651	2.91	23.89	10.29	0.61
Santa Marta	monte	30	Max WS	TR200d8	63.66	70.77	73.64		74.06	0.004727	2.90	21.98	9.63	0.61
Santa Marta	monte	30	Max WS	TR30d1	40.19	70.77	72.81		73.20	0.006020	2.78	14.45	8.54	0.68
Santa Marta	monte	30	Max WS	TR30d2	49.49	70.77	73.14		73.56	0.005434	2.84	17.41	8.99	0.65
Santa Marta	monte	30	Max WS	TR30d3	51.62	70.77	73.22		73.63	0.005325	2.86	18.08	9.08	0.65
Santa Marta	monte	30	Max WS	TR30d4	51.70	70.77	73.22		73.64	0.005319	2.86	18.10	9.09	0.65
Santa Marta	monte	30	Max WS	TR30d5	49.74	70.77	73.15		73.57	0.005419	2.84	17.49	9.00	0.65
Santa Marta	monte	30	Max WS	TR30d6	47.46	70.77	73.07		73.48	0.005558	2.83	16.75	8.89	0.66
Santa Marta	monte	30	Max WS	TR30d8	34.96	70.77	72.62		73.00	0.006310	2.72	12.88	8.30	0.70
Santa Marta	monte	29	Max WS	TR200d1	63.10	70.40	73.37	72.59	73.92	0.006447	3.30	19.12	6.75	0.63
Santa Marta	monte	29	Max WS	TR200d2	73.19	70.40	73.61	72.81	74.25	0.006932	3.52	20.78	6.80	0.64
Santa Marta	monte	29	Max WS	TR200d3	75.64	70.40	73.68	72.86	74.33	0.006990	3.56	21.23	6.81	0.64
Santa Marta	monte	29	Max WS	TR200d4	74.52	70.40	73.66	72.84	74.29	0.006936	3.54	21.06	6.81	0.64
Santa Marta	monte	29	Max WS	TR200d5	72.07	70.40	73.59	72.79	74.21	0.006866	3.50	20.62	6.79	0.64
Santa Marta	monte	29	Max WS	TR200d6	69.53	70.40	73.53	72.73	74.13	0.006760	3.44	20.19	6.78	0.64
Santa Marta	monte	29	Max WS	TR200d8	63.66	70.40	73.38	72.60	73.94	0.006472	3.31	19.22	6.75	0.63
Santa Marta	monte	29	Max WS	TR30d1	40.19	70.40	72.72	72.03	73.10	0.005303	2.72	14.78	6.63	0.58
Santa Marta	monte	29	Max WS	TR30d2	49.49	70.40	73.00	72.27	73.45	0.005794	2.97	16.64	6.68	0.60
Santa Marta	monte	29	Max WS	TR30d3	51.62	70.40	73.06	72.32	73.53	0.005907	3.03	17.04	6.69	0.61
Santa Marta	monte	29	Max WS	TR30d4	51.70	70.40	73.06	72.32	73.53	0.005912	3.03	17.05	6.69	0.61
Santa Marta	monte	29	Max WS	TR30d5</										

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
Santa Marta	monte	28.4	Max WS	TR200d5	72.07	70.40	73.46		74.14	0.007742	3.65	19.72	6.77	0.68
Santa Marta	monte	28.4	Max WS	TR200d6	69.53	70.40	73.40		74.06	0.007600	3.60	19.33	6.76	0.68
Santa Marta	monte	28.4	Max WS	TR200d8	63.66	70.40	73.27		73.88	0.007227	3.45	18.45	6.73	0.67
Santa Marta	monte	28.4	Max WS	TR30d1	40.19	70.40	72.65		73.05	0.005824	2.81	14.29	6.61	0.61
Santa Marta	monte	28.4	Max WS	TR30d2	49.49	70.40	72.91		73.40	0.006399	3.08	16.05	6.66	0.63
Santa Marta	monte	28.4	Max WS	TR30d3	51.62	70.40	72.97		73.47	0.006523	3.14	16.43	6.68	0.64
Santa Marta	monte	28.4	Max WS	TR30d4	51.70	70.40	72.97		73.48	0.006526	3.14	16.45	6.68	0.64
Santa Marta	monte	28.4	Max WS	TR30d5	49.74	70.40	72.92		73.41	0.006414	3.09	16.10	6.67	0.64
Santa Marta	monte	28.4	Max WS	TR30d6	47.46	70.40	72.86		73.32	0.006280	3.03	15.68	6.65	0.63
Santa Marta	monte	28.4	Max WS	TR30d8	34.96	70.40	72.49		72.84	0.005445	2.64	13.25	6.58	0.59
Santa Marta	monte	28	Max WS	TR200d1	63.10	69.88	73.25	72.60	73.84	0.007863	3.39	18.59	6.98	0.66
Santa Marta	monte	28	Max WS	TR200d2	73.19	69.88	73.47	72.82	74.14	0.008459	3.63	20.16	7.06	0.69
Santa Marta	monte	28	Max WS	TR200d3	75.64	69.88	73.54	72.87	74.22	0.008482	3.67	20.63	7.09	0.69
Santa Marta	monte	28	Max WS	TR200d4	74.51	69.88	73.52	72.84	74.19	0.008407	3.64	20.47	7.08	0.68
Santa Marta	monte	28	Max WS	TR200d5	72.07	69.88	73.45	72.79	74.11	0.008368	3.60	20.01	7.05	0.68
Santa Marta	monte	28	Max WS	TR200d6	69.53	69.88	73.39	72.74	74.03	0.008243	3.55	19.61	7.02	0.68
Santa Marta	monte	28	Max WS	TR200d8	63.66	69.88	73.26	72.62	73.85	0.007894	3.41	18.68	6.98	0.66
Santa Marta	monte	28	Max WS	TR30d1	40.19	69.88	72.63	72.07	73.03	0.006701	2.81	14.30	6.92	0.62
Santa Marta	monte	28	Max WS	TR30d2	49.49	69.88	72.90	72.30	73.38	0.007179	3.06	16.16	6.95	0.64
Santa Marta	monte	28	Max WS	TR30d3	51.62	69.88	72.96	72.35	73.45	0.007280	3.12	16.56	6.95	0.64
Santa Marta	monte	28	Max WS	TR30d4	51.70	69.88	72.96	72.35	73.46	0.007285	3.12	16.58	6.95	0.64
Santa Marta	monte	28	Max WS	TR30d5	49.74	69.88	72.91	72.30	73.39	0.007190	3.07	16.21	6.95	0.64
Santa Marta	monte	28	Max WS	TR30d6	47.46	69.88	72.84	72.25	73.30	0.007078	3.01	15.77	6.94	0.64
Santa Marta	monte	28	Max WS	TR30d8	34.96	69.88	72.47	71.93	72.83	0.006402	2.65	13.19	6.91	0.61
Santa Marta	monte	27.5												
Santa Marta	monte	27	Max WS	TR200d1	61.64	69.84	72.89		73.49	0.007245	3.44	17.90	6.83	0.68
Santa Marta	monte	27	Max WS	TR200d2	73.05	69.84	73.21		73.88	0.007410	3.63	20.13	6.90	0.68
Santa Marta	monte	27	Max WS	TR200d3	75.60	69.84	73.42		74.05	0.006592	3.51	21.57	6.94	0.63
Santa Marta	monte	27	Max WS	TR200d4	74.50	69.84	73.40		74.02	0.006502	3.47	21.44	6.94	0.63
Santa Marta	monte	27	Max WS	TR200d5	72.05	69.84	73.26		73.89	0.006874	3.52	20.49	6.91	0.65
Santa Marta	monte	27	Max WS	TR200d6	69.04	69.84	73.15		73.78	0.006981	3.50	19.73	6.89	0.66
Santa Marta	monte	27	Max WS	TR200d8	63.28	69.84	73.00		73.59	0.006781	3.38	18.70	6.86	0.65
Santa Marta	monte	27	Max WS	TR30d1	39.96	69.84	72.20		72.66	0.006695	2.98	13.39	6.41	0.66
Santa Marta	monte	27	Max WS	TR30d2	49.36	69.84	72.52		73.04	0.006882	3.19	15.45	6.51	0.66
Santa Marta	monte	27	Max WS	TR30d3	51.29	69.84	72.59		73.12	0.006848	3.22	15.93	6.57	0.66
Santa Marta	monte	27	Max WS	TR30d4	51.40	69.84	72.63		73.14	0.006632	3.18	16.15	6.60	0.65
Santa Marta	monte	27	Max WS	TR30d5	49.49	69.84	72.58		73.08	0.006487	3.13	15.83	6.56	0.64
Santa Marta	monte	27	Max WS	TR30d6	47.26	69.84	72.51		72.99	0.006370	3.07	15.40	6.51	0.64
Santa Marta	monte	27	Max WS	TR30d8	34.86	69.84	72.07		72.47	0.006076	2.77	12.57	6.37	0.63
Santa Marta	monte	26	Max WS	TR200d1	61.41	69.17	72.63		72.78	0.001215	1.73	35.46	12.35	0.33
Santa Marta	monte	26	Max WS	TR200d2	71.49	69.17	72.96		73.13	0.001213	1.80	39.61	12.74	0.33
Santa Marta	monte	26	Max WS	TR200d3	76.68	69.17	73.17		73.34	0.001170	1.82	42.25	12.99	0.32
Santa Marta	monte	26	Max WS	TR200d4	75.81	69.17	73.17		73.33	0.001144	1.79	42.24	12.99	0.32
Santa Marta	monte	26	Max WS	TR200d5	72.67	69.17	73.04		73.20	0.001172	1.79	40.60	12.84	0.32
Santa Marta	monte	26	Max WS	TR200d6	68.81	69.17	72.94		73.10	0.001143	1.75	39.37	12.72	0.32
Santa Marta	monte	26	Max WS	TR200d8	62.88	69.17	72.78		72.93	0.001103	1.68	37.35	12.53	0.31
Santa Marta	monte	26	Max WS	TR30d1	38.96	69.17	71.90		72.01	0.001070	1.45	26.79	11.49	0.30
Santa Marta	monte	26	Max WS	TR30d2	49.24	69.17	72.24		72.37	0.001159	1.60	30.76	11.88	0.32
Santa Marta	monte	26	Max WS	TR30d3	50.59	69.17	72.33		72.46	0.001119	1.59	31.76	11.98	0.31
Santa Marta	monte	26	Max WS	TR30d4	50.75	69.17	72.38		72.50	0.001070	1.57	32.36	12.04	0.31
Santa Marta	monte	26	Max WS	TR30d5	49.17	69.17	72.33		72.45	0.001054	1.55	31.80	11.99	0.30
Santa Marta	monte	26	Max WS	TR30d6	47.03	69.17	72.27		72.38	0.001033	1.52	31.02	11.91	0.30
Santa Marta	monte	26	Max WS	TR30d8	34.83	69.17	71.80		71.90	0.000970	1.36	25.62	11.38	0.29
Santa Marta	medio	25	Max WS	TR200d1	71.10	69.12	72.62		72.75	0.001005	1.59	44.71	17.03	0.31
Santa Marta	medio	25	Max WS	TR200d2	84.00	69.12	72.96		73.10	0.000995	1.66	50.46	17.60	0.31
Santa Marta	medio	25	Max WS	TR200d3	88.88	69.12	73.17		73.30	0.000911	1.64	54.20	17.96	0.30
Santa Marta	medio	25	Max WS	TR200d4	88.72	69.12	73.16		73.30	0.000910	1.64	54.15	17.95	0.30
Santa Marta	medio	25	Max WS	TR200d5	85.76	69.12	73.03		73.17	0.000962	1.65	51.82	17.73	0.31
Santa Marta	medio	25	Max WS	TR200d6	83.76	69.12	72.93		73.07	0.001016	1.68	49.98	17.55	0.32
Santa Marta	medio	25	Max WS	TR200d8	76.93	69.12	72.77		72.90	0.001011	1.63	47.15	17.27	0.32
Santa Marta	medio	25	Max WS	TR30d1	45.85	69.12	71.89		71.99	0.001026	1.41	32.61	15.66	0.31
Santa Marta	medio	25	Max WS	TR30d2	56.89	69.12	72.23		72.35	0.001011	1.49	38.16	16.36	0.31
Santa Marta	medio	25	Max WS	TR30d3	59.75	69.12	72.31		72.43	0.001010	1.51	39.51	16.50	0.31
Santa Marta	medio	25	Max WS	TR30d4	61.40	69.12	72.36		72.48	0.001010	1.53	40.26	16.58	0.31
Santa Marta	medio	25	Max WS	TR30d5	59.73	69.12	72.31		72.43	0.001012	1.51	39.47	16.50	0.31
Santa Marta	medio	25	Max WS	TR30d6	57.40	69.12	72.25		72.36	0.001013	1.50	38.38	16.38	0.31
Santa Marta	medio	25	Max WS	TR30d8	42.59	69.12	71.78		71.87	0.001027	1.38	30.91	15.36	0.31
Santa Marta	medio	24.999												
Santa Marta	medio	24.998												
Santa Marta	medio	24	Max WS	TR200d1	70.62	68.26	71.45		72.07	0.008425	3.50	20.20	10.51	0.80
Santa Marta	medio	24	Max WS	TR200d2	82.45	68.26	71.89		72.44	0.006411	3.28	25.11	11.78	0.71
Santa Marta	medio	24	Max WS	TR200d3	87.83	68.26	72.24		72.70	0.004506	3.00	29.47	12.86	0.60
Santa Marta	medio	24	Max WS	TR200d4	88.57	68.26	72.21		72.69	0.004796	3.07	29.01	12.75	0.62
Santa Marta	medio	24	Max WS	TR200d5	86.09	68.26	71.88		72.48	0.007074	3.44	25.02	11.75	0.75
Santa Marta	medio	24	Max WS	TR200d6	82.01	68.26	71.70		72.35	0.008142	3.57	22.94	11.23	0.80
Santa Marta	medio	24	Max WS	TR200d8	76.64	68.26	71.50		72.20	0.009178	3.68	20.81	10.67	0.84
Santa Marta	medio	24	Max WS	TR30d1	45.83	68.26	70.63		71.31	0.012250	3.65	12.56	8.17	0.94
Santa Marta	medio	24	Max WS	TR30d2	56.75	68.26	70.97		71.65	0.010794	3.65	15.54	9.15	0.89
Santa Marta	medio	24	Max WS	TR30d3	59.33	68.26	71.03		71.73	0.010839	3.70	16.06	9.31	0.90
Santa Marta	medio	24	Max WS	TR30d4	61.09	68.26	71.06		71.77	0.010939	3.73	16.36	9.40	0.90
Santa Marta	medio	24	Max WS	TR30d5	59.37	68.26	71.00		71.72	0.011387	3.77	15.76	9.22	0.92
Santa Marta	medio	24	Max WS	TR30d6	57.16	68.26	70.94		71.66	0.011585	3.76	15.21	9.05	0.93
Santa Marta	medio	24	Max WS	TR30d8	42.45	68.26	70.56		71.20	0.011744	3.53	12.03	7.98	0.92
Santa Marta	medio	23	Max WS	TR200d1	70.66	68.10	71.67		71.84	0.001332	1.96	44.69	24.58	0.39
Santa Marta	medio	23	Max WS	TR200d2	82.60	68.10	72.09		72.24	0.001005	1.88	55.11	24.58	0.35
Santa Marta	medio	23	Max WS	TR200d3	88.79	68.10	72.41		72.54	0.000793	1.79	62.87	24.58	0.31
Santa Marta	medio	23	Max WS	TR200d4	89.73	68.10	72.38		72.52	0.000836	1.83	62.19	24.58	0.32
Santa Marta	medio	23	Max WS	TR200d5	86.39	68.10	72.10		72.27	0.001084	1.96	55.37	24.58	0.36
Santa Marta	medio	23	Max WS	TR200d6	83.52	68.10	71.95		72.13					

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Santa Marta	medio	23	Max WS	TR30d5	59.54	68.10	71.23		71.44	0.002000	2.12	33.88	24.58	0.46
Santa Marta	medio	23	Max WS	TR30d6	57.36	68.10	71.16		71.37	0.002118	2.14	32.19	24.58	0.47
Santa Marta	medio	23	Max WS	TR30d8	42.63	68.10	70.71		70.95	0.003090	2.20	21.24	21.77	0.55
Santa Marta	medio	22	Max WS	TR200d1	70.76	67.68	71.62		71.71	0.000552	1.46	64.53	29.19	0.26
Santa Marta	medio	22	Max WS	TR200d2	86.75	67.68	72.04		72.13	0.000510	1.52	76.70	29.19	0.25
Santa Marta	medio	22	Max WS	TR200d3	100.94	67.68	72.32		72.42	0.000515	1.61	84.95	29.19	0.26
Santa Marta	medio	22	Max WS	TR200d4	101.09	67.68	72.30		72.40	0.000531	1.62	84.17	29.19	0.26
Santa Marta	medio	22	Max WS	TR200d5	91.22	67.68	72.05		72.14	0.000562	1.60	76.82	29.19	0.27
Santa Marta	medio	22	Max WS	TR200d6	85.43	67.68	71.90		72.00	0.000579	1.58	72.57	29.19	0.27
Santa Marta	medio	22	Max WS	TR200d8	77.63	67.68	71.71		71.80	0.000600	1.55	66.95	29.19	0.27
Santa Marta	medio	22	Max WS	TR30d1	45.92	67.68	70.69		70.78	0.000902	1.49	39.56	25.15	0.31
Santa Marta	medio	22	Max WS	TR30d2	56.87	67.68	71.12		71.20	0.000696	1.47	50.51	26.15	0.28
Santa Marta	medio	22	Max WS	TR30d3	59.91	67.68	71.19		71.28	0.000696	1.49	52.42	26.32	0.28
Santa Marta	medio	22	Max WS	TR30d4	61.46	67.68	71.23		71.32	0.000696	1.50	53.37	26.40	0.28
Santa Marta	medio	22	Max WS	TR30d5	59.99	67.68	71.16		71.25	0.000733	1.52	51.51	26.24	0.29
Santa Marta	medio	22	Max WS	TR30d6	57.85	67.68	71.08		71.18	0.000758	1.52	49.61	26.07	0.29
Santa Marta	medio	22	Max WS	TR30d8	43.05	67.68	70.59		70.68	0.000957	1.49	36.97	24.91	0.32
Santa Marta	medio	21	Max WS	TR200d1	70.75	67.44	71.63		71.70	0.000489	1.44	68.45	29.58	0.24
Santa Marta	medio	21	Max WS	TR200d2	86.09	67.44	72.05		72.13	0.000455	1.50	81.15	31.05	0.24
Santa Marta	medio	21	Max WS	TR200d3	98.72	67.44	72.33		72.42	0.000448	1.56	90.20	32.06	0.24
Santa Marta	medio	21	Max WS	TR200d4	99.07	67.44	72.30		72.39	0.000463	1.58	89.33	31.97	0.25
Santa Marta	medio	21	Max WS	TR200d5	90.56	67.44	72.05		72.14	0.000501	1.57	81.28	31.07	0.25
Santa Marta	medio	21	Max WS	TR200d6	85.27	67.44	71.90		71.99	0.000519	1.56	76.74	30.55	0.26
Santa Marta	medio	21	Max WS	TR200d8	77.64	67.44	71.71		71.80	0.000534	1.53	70.90	29.87	0.26
Santa Marta	medio	21	Max WS	TR30d1	45.92	67.44	70.69		70.78	0.000759	1.46	42.31	26.37	0.29
Santa Marta	medio	21	Max WS	TR30d2	56.90	67.44	71.12		71.20	0.000606	1.45	53.90	27.84	0.27
Santa Marta	medio	21	Max WS	TR30d3	59.91	67.44	71.19		71.28	0.000608	1.47	55.94	28.09	0.27
Santa Marta	medio	21	Max WS	TR30d4	61.47	67.44	71.23		71.31	0.000609	1.49	56.95	28.21	0.27
Santa Marta	medio	21	Max WS	TR30d5	60.00	67.44	71.16		71.24	0.000639	1.50	54.97	27.97	0.27
Santa Marta	medio	21	Max WS	TR30d6	57.86	67.44	71.08		71.17	0.000659	1.50	52.93	27.72	0.28
Santa Marta	medio	21	Max WS	TR30d8	43.06	67.44	70.59		70.68	0.000796	1.46	39.61	26.02	0.29
Santa Marta	medio	20	Max WS	TR200d1	71.62	66.76	71.36		71.62	0.002835	2.25	31.79	14.98	0.49
Santa Marta	medio	20	Max WS	TR200d2	82.72	66.76	71.85		72.07	0.002131	2.08	39.88	17.86	0.44
Santa Marta	medio	20	Max WS	TR200d3	87.71	66.76	72.19		72.38	0.001517	1.91	46.38	22.48	0.38
Santa Marta	medio	20	Max WS	TR200d4	88.90	66.76	72.15		72.35	0.001641	1.96	45.53	20.98	0.39
Santa Marta	medio	20	Max WS	TR200d5	87.35	66.76	71.82		72.07	0.002448	2.21	39.50	17.84	0.47
Santa Marta	medio	20	Max WS	TR200d6	85.07	66.76	71.63		71.91	0.003011	2.36	36.00	16.86	0.52
Santa Marta	medio	20	Max WS	TR200d8	78.14	66.76	71.41		71.71	0.003201	2.40	32.56	15.36	0.53
Santa Marta	medio	20	Max WS	TR30d1	43.58	66.76	70.34		70.60	0.003784	2.28	19.14	10.38	0.54
Santa Marta	medio	20	Max WS	TR30d2	56.92	66.76	70.81		71.09	0.003377	2.32	24.49	12.11	0.52
Santa Marta	medio	20	Max WS	TR30d3	59.84	66.76	70.88		71.16	0.003419	2.36	25.31	12.36	0.53
Santa Marta	medio	20	Max WS	TR30d4	61.69	66.76	70.90		71.20	0.003526	2.41	25.60	12.44	0.54
Santa Marta	medio	20	Max WS	TR30d5	60.03	66.76	70.81		71.12	0.003754	2.45	24.49	12.11	0.55
Santa Marta	medio	20	Max WS	TR30d6	57.81	66.76	70.73		71.04	0.003880	2.46	23.51	11.81	0.56
Santa Marta	medio	20	Max WS	TR30d8	43.04	66.76	70.20		70.50	0.004462	2.42	17.79	9.90	0.58
Santa Marta	medio	19	Max WS	TR200d1	71.62	67.25	71.33		71.54	0.001516	2.00	36.33	18.45	0.39
Santa Marta	medio	19	Max WS	TR200d2	83.33	67.25	71.81		72.00	0.001189	1.93	45.55	19.53	0.36
Santa Marta	medio	19	Max WS	TR200d3	91.15	67.25	72.15		72.32	0.001235	1.84	52.67	23.58	0.36
Santa Marta	medio	19	Max WS	TR200d4	91.97	67.25	72.11		72.28	0.001280	1.89	51.73	23.00	0.37
Santa Marta	medio	19	Max WS	TR200d5	88.18	67.25	71.79		72.00	0.001371	2.06	45.02	19.50	0.38
Santa Marta	medio	19	Max WS	TR200d6	85.43	67.25	71.59		71.82	0.001606	2.15	41.17	19.29	0.41
Santa Marta	medio	19	Max WS	TR200d8	78.15	67.25	71.38		71.61	0.001712	2.14	37.19	19.07	0.42
Santa Marta	medio	19	Max WS	TR30d1	43.56	67.25	70.30		70.49	0.001970	1.91	22.76	11.46	0.43
Santa Marta	medio	19	Max WS	TR30d2	56.90	67.25	70.79		70.99	0.001819	1.99	28.56	12.62	0.42
Santa Marta	medio	19	Max WS	TR30d3	59.72	67.25	70.85		71.06	0.001853	2.03	29.40	12.78	0.43
Santa Marta	medio	19	Max WS	TR30d4	61.64	67.25	70.87		71.09	0.001923	2.08	29.69	12.83	0.44
Santa Marta	medio	19	Max WS	TR30d5	59.92	67.25	70.78		71.01	0.002026	2.10	28.51	12.61	0.45
Santa Marta	medio	19	Max WS	TR30d6	57.75	67.25	70.70		70.92	0.002079	2.10	27.48	12.41	0.45
Santa Marta	medio	19	Max WS	TR30d8	42.95	67.25	70.16		70.37	0.002337	2.03	21.16	11.12	0.47
Santa Marta	valle	18	Max WS	TR200d1	111.38	67.04	71.26		71.50	0.002216	2.17	51.32	24.93	0.48
Santa Marta	valle	18	Max WS	TR200d2	128.81	67.04	71.77		71.98	0.001519	2.00	64.44	26.54	0.41
Santa Marta	valle	18	Max WS	TR200d3	132.98	67.04	72.13		72.30	0.001085	1.79	74.16	27.85	0.35
Santa Marta	valle	18	Max WS	TR200d4	132.02	67.04	72.10		72.26	0.001103	1.80	73.19	27.56	0.35
Santa Marta	valle	18	Max WS	TR200d5	128.93	67.04	71.77		71.97	0.001533	2.01	64.29	26.52	0.41
Santa Marta	valle	18	Max WS	TR200d6	124.82	67.04	71.56		71.79	0.001854	2.12	58.91	25.87	0.45
Santa Marta	valle	18	Max WS	TR200d8	113.99	67.04	71.35		71.58	0.002059	2.13	53.45	25.20	0.47
Santa Marta	valle	18	Max WS	TR30d1	66.39	67.04	70.09		70.43	0.004823	2.58	25.71	17.11	0.67
Santa Marta	valle	18	Max WS	TR30d2	89.11	67.04	70.63		70.93	0.003749	2.46	36.24	21.69	0.61
Santa Marta	valle	18	Max WS	TR30d3	92.96	67.04	70.70		71.01	0.003635	2.45	37.90	22.27	0.60
Santa Marta	valle	18	Max WS	TR30d4	94.75	67.04	70.74		71.04	0.003582	2.45	38.68	22.54	0.60
Santa Marta	valle	18	Max WS	TR30d5	90.04	67.04	70.65		70.95	0.003697	2.45	36.73	21.86	0.60
Santa Marta	valle	18	Max WS	TR30d6	85.87	67.04	70.56		70.87	0.003856	2.47	34.82	21.18	0.61
Santa Marta	valle	18	Max WS	TR30d8	61.28	67.04	69.96		70.30	0.004840	2.60	23.61	15.53	0.67
Santa Marta	valle	17.999												
Santa Marta	valle	17.998												
Santa Marta	valle	17	Max WS	TR200d1	111.66	67.14	71.06		71.42	0.003852	2.63	42.40	23.38	0.62
Santa Marta	valle	17	Max WS	TR200d2	129.20	67.14	71.66		71.92	0.002176	2.26	57.09	25.63	0.48
Santa Marta	valle	17	Max WS	TR200d3	133.32	67.14	72.06		72.26	0.001396	1.97	68.88	35.33	0.40
Santa Marta	valle	17	Max WS	TR200d4	132.28	67.14	72.03		72.23	0.001439	1.98	67.58	35.23	0.40
Santa Marta	valle	17	Max WS	TR200d5	129.14	67.14	71.66		71.92	0.002186	2.27	56.98	25.61	0.49
Santa Marta	valle	17	Max WS	TR200d6	125.11	67.14	71.41		71.72	0.002845	2.46	50.88	24.70	0.55
Santa Marta	valle	17	Max WS	TR200d8	114.08	67.14	71.18		71.50	0.003355	2.53	45.11	23.81	0.59
Santa Marta	valle	17	Max WS	TR30d1	66.30	67.14	69.83		70.29	0.005228	3.00	22.09	12.16	0.71
Santa Marta	valle	17	Max WS	TR30d2	89.11	67.14	70.26		70.79	0.005475	3.22	27.64	14.19	0.74
Santa Marta	valle	17	Max WS	TR30d3	92.96	67.14	70.32		70.86	0.005525	3.25	28.58	14.59	0.74
Santa Marta	valle	17	Max WS	TR30d4	94.74	67.14	70.35		70.90	0.005535	3.26	29.04	14.78	0.74
Santa Marta	valle	17	Max WS	TR30d5	90.02	67.14	70.28		70.81	0.005434	3.22	27.99	14.34	0.74
Santa Marta	valle	17	Max WS	TR30d6	85.86	67.14	70.20		70.72	0.005409	3.19	26.89	13.85	0.73
Santa Marta	valle	17	Max WS	TR30d8	61.27	67.14	69.73		70.					

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Santa Marta	valle	16	Max WS	TR200d6	125.19	66.85	71.31		71.58	0.002378	2.28	54.85	26.24	0.50
Santa Marta	valle	16	Max WS	TR200d8	114.16	66.85	71.05		71.34	0.002703	2.36	48.27	24.01	0.53
Santa Marta	valle	16	Max WS	TR30d1	66.22	66.85	69.38		69.98	0.007844	3.43	19.32	11.83	0.86
Santa Marta	valle	16	Max WS	TR30d2	89.11	66.85	69.79		70.46	0.008046	3.63	24.56	14.17	0.88
Santa Marta	valle	16	Max WS	TR30d3	92.95	66.85	69.87		70.54	0.007839	3.61	25.78	14.76	0.87
Santa Marta	valle	16	Max WS	TR30d4	94.71	66.85	69.92		70.57	0.007704	3.59	26.40	15.05	0.86
Santa Marta	valle	16	Max WS	TR30d5	89.86	66.85	69.86		70.49	0.007482	3.52	25.54	14.65	0.85
Santa Marta	valle	16	Max WS	TR30d6	81.99	66.85	69.78		70.35	0.006887	3.36	24.43	14.10	0.81
Santa Marta	valle	16	Max WS	TR30d8	61.32	66.85	69.29		69.86	0.007812	3.35	18.30	11.57	0.85
Santa Marta	valle	15	Max WS	TR200d1	111.69	66.92	70.92		71.15	0.001845	2.13	52.45	23.35	0.45
Santa Marta	valle	15	Max WS	TR200d2	127.85	66.92	71.60		71.77	0.001236	1.80	71.10	30.50	0.38
Santa Marta	valle	15	Max WS	TR200d3	133.36	66.92	72.03		72.15	0.000855	1.58	84.59	33.58	0.32
Santa Marta	valle	15	Max WS	TR200d4	132.35	66.92	71.99		72.12	0.000874	1.59	83.28	33.22	0.32
Santa Marta	valle	15	Max WS	TR200d5	127.74	66.92	71.60		71.76	0.001240	1.80	70.95	30.47	0.38
Santa Marta	valle	15	Max WS	TR200d6	125.22	66.92	71.31		71.51	0.001662	2.01	62.41	28.33	0.43
Santa Marta	valle	15	Max WS	TR200d8	114.19	66.92	71.05		71.27	0.001709	2.06	55.54	24.66	0.44
Santa Marta	valle	15	Max WS	TR30d1	65.25	66.92	69.32		69.76	0.005675	2.91	22.43	14.44	0.75
Santa Marta	valle	15	Max WS	TR30d2	89.11	66.92	69.77		70.24	0.005263	3.04	29.36	16.77	0.73
Santa Marta	valle	15	Max WS	TR30d3	89.33	66.92	69.87		70.29	0.004586	2.88	31.04	17.34	0.69
Santa Marta	valle	15	Max WS	TR30d4	94.78	66.92	69.91		70.36	0.004883	2.99	31.72	17.56	0.71
Santa Marta	valle	15	Max WS	TR30d5	89.05	66.92	69.87		70.29	0.004540	2.86	31.09	17.35	0.68
Santa Marta	valle	15	Max WS	TR30d6	82.00	66.92	69.77		70.16	0.004483	2.80	29.29	16.75	0.68
Santa Marta	valle	15	Max WS	TR30d8	58.80	66.92	69.10		69.57	0.007042	3.06	19.23	13.56	0.82
Santa Marta	valle	14	Max WS	TR200d1	111.69	67.05	70.93	69.03	71.09	0.000997	1.80	61.98	18.26	0.31
Santa Marta	valle	14	Max WS	TR200d2	127.03	67.05	71.61	69.17	71.76	0.000753	1.70	74.52	18.56	0.27
Santa Marta	valle	14	Max WS	TR200d3	133.37	67.05	72.00	69.23	72.14	0.000634	1.63	81.86	18.74	0.25
Santa Marta	valle	14	Max WS	TR200d4	132.38	67.05	71.96	69.22	72.10	0.000640	1.63	81.17	18.72	0.25
Santa Marta	valle	14	Max WS	TR200d5	126.91	67.05	71.60	69.17	71.75	0.000755	1.71	74.43	18.56	0.27
Santa Marta	valle	14	Max WS	TR200d6	125.26	67.05	71.30	69.16	71.47	0.000920	1.82	68.89	18.43	0.30
Santa Marta	valle	14	Max WS	TR200d8	114.24	67.05	71.05	69.05	71.21	0.000937	1.78	64.29	18.32	0.30
Santa Marta	valle	14	Max WS	TR30d1	66.20	67.05	69.33	68.55	69.53	0.002265	1.99	33.34	17.56	0.46
Santa Marta	valle	14	Max WS	TR30d2	89.12	67.05	69.81	68.80	70.04	0.002039	2.13	41.93	17.77	0.44
Santa Marta	valle	14	Max WS	TR30d3	88.71	67.05	69.91	68.79	70.12	0.001788	2.03	43.65	17.82	0.41
Santa Marta	valle	14	Max WS	TR30d4	94.80	67.05	69.95	68.86	70.18	0.001949	2.14	44.33	17.83	0.43
Santa Marta	valle	14	Max WS	TR30d5	88.68	67.05	69.91	68.79	70.12	0.001790	2.03	43.63	17.81	0.41
Santa Marta	valle	14	Max WS	TR30d6	82.02	67.05	69.80	68.72	70.00	0.001752	1.97	41.73	17.77	0.41
Santa Marta	valle	14	Max WS	TR30d8	61.36	67.05	69.12	68.49	69.33	0.002801	2.07	29.63	17.46	0.51
Santa Marta	valle	12.5			Bridge									
Santa Marta	valle	11	Max WS	TR200d1	111.69	65.78	69.54		70.07	0.001259	3.20	34.90	9.74	0.54
Santa Marta	valle	11	Max WS	TR200d2	131.81	65.78	69.76		70.41	0.001491	3.56	37.01	9.75	0.58
Santa Marta	valle	11	Max WS	TR200d3	136.58	65.78	69.79		70.48	0.001566	3.66	37.31	9.75	0.60
Santa Marta	valle	11	Max WS	TR200d4	135.22	65.78	69.81		70.47	0.001519	3.61	37.45	9.75	0.59
Santa Marta	valle	11	Max WS	TR200d5	131.66	65.78	69.76		70.40	0.001491	3.56	36.98	9.74	0.58
Santa Marta	valle	11	Max WS	TR200d6	125.26	65.78	69.69		70.30	0.001419	3.45	36.31	9.74	0.57
Santa Marta	valle	11	Max WS	TR200d8	114.24	65.78	69.58		70.11	0.001284	3.24	35.22	9.74	0.54
Santa Marta	valle	11	Max WS	TR30d1	67.88	65.78	68.85		69.15	0.000848	2.41	28.16	9.74	0.45
Santa Marta	valle	11	Max WS	TR30d2	89.08	65.78	69.24		69.64	0.001023	2.79	31.96	9.74	0.49
Santa Marta	valle	11	Max WS	TR30d3	92.97	65.78	69.30		69.72	0.001059	2.86	32.55	9.74	0.50
Santa Marta	valle	11	Max WS	TR30d4	94.80	65.78	69.33		69.76	0.001075	2.89	32.83	9.74	0.50
Santa Marta	valle	11	Max WS	TR30d5	91.23	65.78	69.28		69.69	0.001041	2.82	32.30	9.74	0.50
Santa Marta	valle	11	Max WS	TR30d6	85.96	65.78	69.20		69.58	0.000990	2.73	31.52	9.74	0.48
Santa Marta	valle	11	Max WS	TR30d8	61.36	65.78	68.73		69.00	0.000781	2.27	27.00	9.74	0.44
Santa Marta	valle	10	Max WS	TR200d1	111.69	65.44	69.48		69.98	0.003734	3.13	35.65	13.17	0.61
Santa Marta	valle	10	Max WS	TR200d2	129.48	65.44	69.67		70.26	0.004143	3.38	38.26	13.55	0.64
Santa Marta	valle	10	Max WS	TR200d3	133.37	65.44	69.70		70.31	0.004260	3.45	38.71	13.62	0.65
Santa Marta	valle	10	Max WS	TR200d4	132.83	65.44	69.70		70.30	0.004259	3.44	38.60	13.60	0.65
Santa Marta	valle	10	Max WS	TR200d5	129.56	65.44	69.67		70.26	0.004152	3.39	38.25	13.55	0.64
Santa Marta	valle	10	Max WS	TR200d6	125.29	65.44	69.63		70.19	0.004043	3.33	37.68	13.47	0.63
Santa Marta	valle	10	Max WS	TR200d8	114.27	65.44	69.51		70.02	0.003776	3.17	36.10	13.24	0.61
Santa Marta	valle	10	Max WS	TR30d1	67.98	65.44	68.76		69.09	0.003040	2.55	26.70	11.78	0.54
Santa Marta	valle	10	Max WS	TR30d2	89.08	65.44	69.16		69.57	0.003292	2.82	31.61	12.57	0.57
Santa Marta	valle	10	Max WS	TR30d3	92.98	65.44	69.23		69.64	0.003352	2.87	32.41	12.69	0.57
Santa Marta	valle	10	Max WS	TR30d4	94.81	65.44	69.26		69.68	0.003375	2.89	32.79	12.75	0.58
Santa Marta	valle	10	Max WS	TR30d5	91.18	65.44	69.19		69.61	0.003333	2.85	32.01	12.63	0.57
Santa Marta	valle	10	Max WS	TR30d6	85.98	65.44	69.12		69.51	0.003228	2.77	31.02	12.47	0.56
Santa Marta	valle	10	Max WS	TR30d8	61.37	65.44	68.64		68.94	0.002860	2.42	25.33	11.56	0.52
Santa Marta	valle	9	Max WS	TR200d1	111.69	65.36	69.23		69.69	0.005749	3.00	38.81	23.02	0.64
Santa Marta	valle	9	Max WS	TR200d2	129.58	65.36	69.43		69.93	0.005819	3.16	43.54	24.82	0.65
Santa Marta	valle	9	Max WS	TR200d3	133.40	65.36	69.46		69.97	0.005881	3.20	44.36	24.95	0.65
Santa Marta	valle	9	Max WS	TR200d4	132.46	65.36	69.46		69.96	0.005878	3.20	44.13	24.94	0.65
Santa Marta	valle	9	Max WS	TR200d5	129.62	65.36	69.43		69.93	0.005833	3.17	43.51	24.81	0.65
Santa Marta	valle	9	Max WS	TR200d6	125.38	65.36	69.39		69.88	0.005793	3.12	42.49	24.45	0.65
Santa Marta	valle	9	Max WS	TR200d8	114.36	65.36	69.27		69.73	0.005725	3.02	39.63	23.36	0.64
Santa Marta	valle	9	Max WS	TR30d1	67.77	65.36	68.44		68.84	0.007062	2.78	24.39	14.17	0.68
Santa Marta	valle	9	Max WS	TR30d2	89.09	65.36	68.90		69.31	0.006042	2.84	31.71	19.87	0.64
Santa Marta	valle	9	Max WS	TR30d3	92.98	65.36	68.97		69.39	0.005914	2.86	33.09	20.52	0.64
Santa Marta	valle	9	Max WS	TR30d4	94.85	65.36	69.00		69.42	0.005849	2.87	33.77	20.83	0.64
Santa Marta	valle	9	Max WS	TR30d5	91.15	65.36	68.94		69.35	0.006014	2.86	32.35	20.17	0.64
Santa Marta	valle	9	Max WS	TR30d6	86.04	65.36	68.85		69.26	0.006101	2.82	30.73	19.39	0.64
Santa Marta	valle	9	Max WS	TR30d8	61.42	65.36	68.32		68.69	0.007141	2.71	22.63	13.78	0.68
Santa Marta	valle	8	Max WS	TR200d1	111.70	65.19	69.03		69.31	0.003046	2.36	49.16	27.51	0.48
Santa Marta	valle	8	Max WS	TR200d2	129.78	65.19	69.21		69.53	0.003258	2.52	54.46	30.07	0.50
Santa Marta	valle	8	Max WS	TR200d3	133.44	65.19	69.24		69.57	0.003307	2.56	55.39	30.76	0.51
Santa Marta	valle	8	Max WS	TR200d4	132.55	65.19	69.24		69.56	0.003308	2.55	55.09	30.47	0.51
Santa Marta	valle	8	Max WS	TR200d5	129.80	65.19	69.21		69.53	0.003263	2.53	54.43	30.06	0.50
Santa Marta	valle	8	Max WS	TR200d6	125.54	65.19	69.18		69.49	0.003199	2.49	53.32	29.54	0.50
Santa Marta	valle	8	Max WS	TR200d8	114.52	65.19	69.06		69.35	0.00307				

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Santa Marta	valle	7	Max WS	TR200d2	115.43	64.35	68.68		69.32	0.007252	3.64	34.06	13.78	0.62
Santa Marta	valle	7	Max WS	TR200d3	118.11	64.35	68.70		69.37	0.007407	3.69	34.40	13.83	0.63
Santa Marta	valle	7	Max WS	TR200d4	117.53	64.35	68.69		69.35	0.007438	3.69	34.21	13.80	0.63
Santa Marta	valle	7	Max WS	TR200d5	115.01	64.35	68.67		69.31	0.007249	3.64	33.97	13.76	0.62
Santa Marta	valle	7	Max WS	TR200d6	112.80	64.35	68.63		69.27	0.007264	3.62	33.42	13.68	0.62
Santa Marta	valle	7	Max WS	TR200d8	105.15	64.35	68.45		69.09	0.007590	3.61	31.03	13.30	0.64
Santa Marta	valle	7	Max WS	TR30d1	67.05	64.35	67.41		68.04	0.010682	3.51	19.11	8.46	0.75
Santa Marta	valle	7	Max WS	TR30d2	88.77	64.35	67.81		68.59	0.011359	3.94	22.93	11.09	0.78
Santa Marta	valle	7	Max WS	TR30d3	92.03	64.35	67.92		68.69	0.010704	3.91	24.18	11.81	0.75
Santa Marta	valle	7	Max WS	TR30d4	93.39	64.35	67.99		68.74	0.010052	3.84	25.13	12.33	0.73
Santa Marta	valle	7	Max WS	TR30d5	90.28	64.35	67.84		68.63	0.011272	3.95	23.31	11.31	0.77
Santa Marta	valle	7	Max WS	TR30d6	86.13	64.35	67.76		68.53	0.011331	3.90	22.41	10.77	0.77
Santa Marta	valle	7	Max WS	TR30d8	61.60	64.35	67.31		67.89	0.010323	3.38	18.22	8.42	0.73
Santa Marta	valle	6	Max WS	TR200d1	109.64	64.36	68.02	67.71	68.89	0.012194	4.16	27.59	15.08	0.83
Santa Marta	valle	6	Max WS	TR200d2	121.52	64.36	68.49		69.17	0.008253	3.74	35.69	18.96	0.68
Santa Marta	valle	6	Max WS	TR200d3	124.10	64.36	68.53		69.21	0.008252	3.76	36.35	19.23	0.68
Santa Marta	valle	6	Max WS	TR200d4	122.99	64.36	68.52		69.20	0.008230	3.75	36.11	19.14	0.68
Santa Marta	valle	6	Max WS	TR200d5	121.50	64.36	68.49		69.17	0.008259	3.74	35.67	18.95	0.69
Santa Marta	valle	6	Max WS	TR200d6	118.75	64.36	68.43		69.12	0.008489	3.75	34.54	18.47	0.69
Santa Marta	valle	6	Max WS	TR200d8	111.47	64.36	68.15		68.94	0.010742	4.00	29.56	16.16	0.78
Santa Marta	valle	6	Max WS	TR30d1	67.04	64.36	67.30		67.92	0.010710	3.47	19.29	8.80	0.75
Santa Marta	valle	6	Max WS	TR30d2	89.09	64.36	67.68		68.46	0.011478	3.92	23.12	11.46	0.78
Santa Marta	valle	6	Max WS	TR30d3	92.90	64.36	67.74		68.54	0.011687	3.99	23.80	11.97	0.79
Santa Marta	valle	6	Max WS	TR30d4	94.78	64.36	67.77		68.59	0.011819	4.02	24.15	12.27	0.80
Santa Marta	valle	6	Max WS	TR30d5	90.72	64.36	67.71		68.50	0.011487	3.94	23.45	11.66	0.79
Santa Marta	valle	6	Max WS	TR30d6	86.28	64.36	67.64		68.40	0.011291	3.86	22.69	11.19	0.78
Santa Marta	valle	6	Max WS	TR30d8	61.62	64.36	67.20		67.77	0.010360	3.35	18.40	8.73	0.74
Santa Marta	valle	5	Max WS	TR200d1	110.97	63.80	67.76		68.09	0.003536	2.60	46.56	28.10	0.51
Santa Marta	valle	5	Max WS	TR200d2	129.20	63.80	68.06		68.39	0.003166	2.64	55.48	32.34	0.49
Santa Marta	valle	5	Max WS	TR200d3	132.48	63.80	68.10		68.44	0.003159	2.66	56.78	33.20	0.49
Santa Marta	valle	5	Max WS	TR200d4	131.69	63.80	68.09		68.43	0.003153	2.65	56.53	33.03	0.49
Santa Marta	valle	5	Max WS	TR200d5	129.03	63.80	68.05		68.39	0.003181	2.64	55.30	32.23	0.49
Santa Marta	valle	5	Max WS	TR200d6	124.51	63.80	67.99		68.32	0.003233	2.62	53.24	30.81	0.49
Santa Marta	valle	5	Max WS	TR200d8	113.93	63.80	67.82		68.15	0.003414	2.59	48.30	28.68	0.50
Santa Marta	valle	5	Max WS	TR30d1	66.97	63.80	66.87		67.17	0.004968	2.42	27.64	14.89	0.57
Santa Marta	valle	5	Max WS	TR30d2	89.08	63.80	67.33		67.67	0.004322	2.56	35.51	23.25	0.54
Santa Marta	valle	5	Max WS	TR30d3	92.88	63.80	67.41		67.74	0.004177	2.57	37.35	24.77	0.54
Santa Marta	valle	5	Max WS	TR30d4	94.68	63.80	67.45		67.78	0.004100	2.57	38.27	25.12	0.53
Santa Marta	valle	5	Max WS	TR30d5	90.75	63.80	67.37		67.70	0.004242	2.56	36.37	24.39	0.54
Santa Marta	valle	5	Max WS	TR30d6	86.39	63.80	67.29		67.62	0.004361	2.54	34.50	21.49	0.54
Santa Marta	valle	5	Max WS	TR30d8	61.71	63.80	66.76		67.05	0.005032	2.37	26.02	14.68	0.57
Santa Marta	valle	4	Max WS	TR200d1	111.70	63.32	67.57		67.99	0.004652	2.86	39.70	20.30	0.58
Santa Marta	valle	4	Max WS	TR200d2	131.00	63.32	67.84		68.29	0.004708	3.00	45.62	24.74	0.59
Santa Marta	valle	4	Max WS	TR200d3	134.43	63.32	67.87		68.33	0.004783	3.03	46.44	25.33	0.59
Santa Marta	valle	4	Max WS	TR200d4	133.66	63.32	67.86		68.32	0.004764	3.02	46.27	25.21	0.59
Santa Marta	valle	4	Max WS	TR200d5	130.76	63.32	67.83		68.28	0.004718	3.00	45.49	24.65	0.59
Santa Marta	valle	4	Max WS	TR200d6	125.94	63.32	67.77		68.22	0.004655	2.96	44.12	23.62	0.58
Santa Marta	valle	4	Max WS	TR200d8	114.92	63.32	67.63		68.04	0.004605	2.88	40.81	21.13	0.58
Santa Marta	valle	4	Max WS	TR30d1	66.94	63.32	66.74		67.06	0.004889	2.52	26.61	13.52	0.57
Santa Marta	valle	4	Max WS	TR30d2	89.08	63.32	67.20		67.57	0.004791	2.68	33.22	15.07	0.58
Santa Marta	valle	4	Max WS	TR30d3	92.87	63.32	67.27		67.65	0.004757	2.71	34.32	15.63	0.58
Santa Marta	valle	4	Max WS	TR30d4	94.66	63.32	67.31		67.68	0.004718	2.72	34.86	16.16	0.57
Santa Marta	valle	4	Max WS	TR30d5	90.75	63.32	67.24		67.60	0.004766	2.69	33.75	15.19	0.58
Santa Marta	valle	4	Max WS	TR30d6	86.42	63.32	67.16		67.52	0.004754	2.65	32.57	14.92	0.57
Santa Marta	valle	4	Max WS	TR30d8	61.73	63.32	66.63		66.94	0.004804	2.45	25.21	13.17	0.57
Santa Marta	valle	3	Max WS	TR200d1	110.25	62.36	66.47		66.74	0.002768	2.32	47.46	16.90	0.44
Santa Marta	valle	3	Max WS	TR200d2	126.61	62.36	66.72		67.03	0.002850	2.44	51.84	17.29	0.45
Santa Marta	valle	3	Max WS	TR200d3	128.75	62.36	66.76		67.06	0.002861	2.46	52.40	17.34	0.45
Santa Marta	valle	3	Max WS	TR200d4	128.30	62.36	66.75		67.06	0.002858	2.45	52.29	17.33	0.45
Santa Marta	valle	3	Max WS	TR200d5	126.34	62.36	66.72		67.02	0.002857	2.44	51.72	17.28	0.45
Santa Marta	valle	3	Max WS	TR200d6	122.80	62.36	66.66		66.96	0.002842	2.42	50.78	17.20	0.45
Santa Marta	valle	3	Max WS	TR200d8	113.58	62.36	66.52		66.80	0.002792	2.35	48.33	16.98	0.44
Santa Marta	valle	3	Max WS	TR30d1	66.46	62.36	65.57		65.78	0.002852	2.02	32.90	15.52	0.44
Santa Marta	valle	3	Max WS	TR30d2	89.01	62.36	66.08		66.32	0.002715	2.17	41.06	16.31	0.44
Santa Marta	valle	3	Max WS	TR30d3	92.79	62.36	66.16		66.41	0.002699	2.19	42.38	16.43	0.44
Santa Marta	valle	3	Max WS	TR30d4	94.66	62.36	66.20		66.45	0.002693	2.20	43.01	16.49	0.44
Santa Marta	valle	3	Max WS	TR30d5	90.88	62.36	66.12		66.36	0.002705	2.18	41.72	16.37	0.44
Santa Marta	valle	3	Max WS	TR30d6	86.80	62.36	66.04		66.27	0.002715	2.15	40.34	16.24	0.44
Santa Marta	valle	3	Max WS	TR30d8	62.07	62.36	65.47		65.67	0.002875	1.98	31.29	15.36	0.44
Santa Marta	valle	2	Max WS	TR200d1	111.38	61.93	66.39		66.63	0.002256	2.16	51.67	18.10	0.41
Santa Marta	valle	2	Max WS	TR200d2	128.62	61.93	66.64		66.91	0.002402	2.28	56.36	20.75	0.42
Santa Marta	valle	2	Max WS	TR200d3	130.51	61.93	66.68		66.95	0.002391	2.29	57.11	22.26	0.42
Santa Marta	valle	2	Max WS	TR200d4	130.13	61.93	66.67		66.94	0.002394	2.29	56.95	22.01	0.42
Santa Marta	valle	2	Max WS	TR200d5	128.31	61.93	66.64		66.90	0.002405	2.28	56.22	20.39	0.42
Santa Marta	valle	2	Max WS	TR200d6	124.83	61.93	66.58		66.84	0.002393	2.26	55.13	18.76	0.42
Santa Marta	valle	2	Max WS	TR200d8	115.09	61.93	66.44		66.68	0.002306	2.19	52.54	18.27	0.41
Santa Marta	valle	2	Max WS	TR30d1	66.46	61.93	65.50		65.67	0.002035	1.81	36.71	15.65	0.38
Santa Marta	valle	2	Max WS	TR30d2	89.01	61.93	66.02		66.21	0.002053	1.97	45.09	16.79	0.38
Santa Marta	valle	2	Max WS	TR30d3	92.93	61.93	66.10		66.30	0.002072	2.00	46.44	17.07	0.39
Santa Marta	valle	2	Max WS	TR30d4	94.91	61.93	66.13		66.34	0.002084	2.01	47.10	17.20	0.39
Santa Marta	valle	2	Max WS	TR30d5	90.99	61.93	66.06		66.26	0.002065	1.99	45.76	16.93	0.39
Santa Marta	valle	2	Max WS	TR30d6	86.88	61.93	65.97		66.17	0.002048	1.96	44.33	16.67	0.38
Santa Marta	valle	2	Max WS	TR30d8	62.12	61.93	65.39		65.55	0.002020	1.77	35.09	15.43	0.37
Santa Marta	valle	1	Max WS	TR200d1	111.68	60.97	65.68	64.86	66.13	0.007005	2.98	37.56	18.28	0.66
Santa Marta	valle	1	Max WS	TR200d2	131.33	60.97	65.91	65.20	66.41	0.007003	3.16	41.71	18.98	0.66
Santa Marta	valle	1	Max WS	TR200d3	133.84	60.97	65.93	65.24	66.45	0.007003	3.18	42.24	19.06	0.66
Santa Marta	valle	1	Max WS	TR200d4	133.33	60.97	65.93	65.23	66.44	0.007003	3.18	42.13	19.05	0.66
Santa Marta	valle	1	Max WS	TR200d5	130.85	60.97	65.							

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
SantAntonio	valle	9	Max WS	TR200d1	23.79	74.75	77.28		77.50	0.004892	2.08	11.49	7.53	0.51
SantAntonio	valle	9	Max WS	TR200d2	26.06	74.75	77.37		77.61	0.004873	2.15	12.26	8.39	0.51
SantAntonio	valle	9	Max WS	TR200d3	25.02	74.75	77.33		77.56	0.004878	2.12	11.91	8.01	0.51
SantAntonio	valle	9	Max WS	TR200d4	23.04	74.75	77.24		77.46	0.004889	2.05	11.26	7.25	0.50
SantAntonio	valle	9	Max WS	TR200d5	21.13	74.75	77.16		77.36	0.004871	1.99	10.64	6.72	0.50
SantAntonio	valle	9	Max WS	TR200d6	19.46	74.75	77.07		77.26	0.004803	1.93	10.08	6.55	0.50
SantAntonio	valle	9	Max WS	TR200d8	16.80	74.75	76.92		77.09	0.004711	1.84	9.11	6.33	0.49
SantAntonio	valle	9	Max WS	TR30d1	14.68	74.75	76.79		76.95	0.004677	1.77	8.27	6.13	0.49
SantAntonio	valle	9	Max WS	TR30d2	17.52	74.75	76.96		77.14	0.004732	1.87	9.38	6.39	0.49
SantAntonio	valle	9	Max WS	TR30d3	17.42	74.75	76.96		77.13	0.004728	1.86	9.34	6.38	0.49
SantAntonio	valle	9	Max WS	TR30d4	15.68	74.75	76.85		77.02	0.004687	1.81	8.68	6.22	0.49
SantAntonio	valle	9	Max WS	TR30d5	14.43	74.75	76.77		76.93	0.004664	1.76	8.18	6.10	0.49
SantAntonio	valle	9	Max WS	TR30d6	13.34	74.75	76.70		76.85	0.004642	1.72	7.74	5.99	0.48
SantAntonio	valle	9	Max WS	TR30d8	9.44	74.75	76.41		76.53	0.004540	1.55	6.08	5.57	0.48
SantAntonio	valle	8	Max WS	TR200d1	23.78	74.16	76.67		77.03	0.009232	2.66	9.06	6.63	0.66
SantAntonio	valle	8	Max WS	TR200d2	26.06	74.16	76.76		77.14	0.009286	2.77	9.66	7.15	0.67
SantAntonio	valle	8	Max WS	TR200d3	25.02	74.16	76.72		77.09	0.009246	2.72	9.39	6.92	0.66
SantAntonio	valle	8	Max WS	TR200d4	23.04	74.16	76.64		76.99	0.009176	2.63	8.88	6.47	0.66
SantAntonio	valle	8	Max WS	TR200d5	21.13	74.16	76.56		76.89	0.009123	2.54	8.39	5.99	0.65
SantAntonio	valle	8	Max WS	TR200d6	19.46	74.16	76.49		76.80	0.009023	2.45	7.96	5.73	0.64
SantAntonio	valle	8	Max WS	TR200d8	16.80	74.16	76.36		76.63	0.008928	2.33	7.23	5.34	0.63
SantAntonio	valle	8	Max WS	TR30d1	14.66	74.16	76.24		76.49	0.008837	2.22	6.59	5.15	0.63
SantAntonio	valle	8	Max WS	TR30d2	17.52	74.16	76.39		76.68	0.008944	2.36	7.43	5.45	0.64
SantAntonio	valle	8	Max WS	TR30d3	17.41	74.16	76.39		76.67	0.008937	2.35	7.40	5.43	0.64
SantAntonio	valle	8	Max WS	TR30d4	15.68	74.16	76.30		76.56	0.008880	2.27	6.91	5.22	0.63
SantAntonio	valle	8	Max WS	TR30d5	14.43	74.16	76.22		76.47	0.008796	2.21	6.53	5.14	0.63
SantAntonio	valle	8	Max WS	TR30d6	13.33	74.16	76.15		76.39	0.008769	2.16	6.18	5.07	0.62
SantAntonio	valle	8	Max WS	TR30d8	9.44	74.16	75.87		76.07	0.009002	1.97	4.80	4.77	0.63
SantAntonio	valle	7	Max WS	TR200d1	23.68	73.16	75.84		76.01	0.003211	1.99	14.93	13.70	0.43
SantAntonio	valle	7	Max WS	TR200d2	26.05	73.16	75.92		76.10	0.003307	2.07	16.05	14.39	0.44
SantAntonio	valle	7	Max WS	TR200d3	25.01	73.16	75.88		76.06	0.003261	2.04	15.58	14.10	0.43
SantAntonio	valle	7	Max WS	TR200d4	23.03	73.16	75.81		75.99	0.003175	1.97	14.64	13.51	0.43
SantAntonio	valle	7	Max WS	TR200d5	21.12	73.16	75.74		75.91	0.003085	1.90	13.72	12.91	0.42
SantAntonio	valle	7	Max WS	TR200d6	19.46	73.16	75.68		75.83	0.003002	1.83	12.90	12.34	0.41
SantAntonio	valle	7	Max WS	TR200d8	16.80	73.16	75.57		75.70	0.002859	1.72	11.55	11.36	0.40
SantAntonio	valle	7	Max WS	TR30d1	14.60	73.16	75.46		75.59	0.002722	1.62	10.41	10.45	0.38
SantAntonio	valle	7	Max WS	TR30d2	17.51	73.16	75.60		75.74	0.002900	1.75	11.91	11.63	0.40
SantAntonio	valle	7	Max WS	TR30d3	17.41	73.16	75.59		75.74	0.002894	1.75	11.86	11.59	0.40
SantAntonio	valle	7	Max WS	TR30d4	15.68	73.16	75.51		75.65	0.002792	1.67	10.97	10.91	0.39
SantAntonio	valle	7	Max WS	TR30d5	14.43	73.16	75.45		75.58	0.002711	1.61	10.31	10.38	0.38
SantAntonio	valle	7	Max WS	TR30d6	13.31	73.16	75.39		75.51	0.002631	1.55	9.73	9.88	0.37
SantAntonio	valle	7	Max WS	TR30d8	9.44	73.16	75.10		75.19	0.002700	1.39	7.16	7.29	0.37
SantAntonio	valle	6.999			Lat Struct									
SantAntonio	valle	6	Max WS	TR200d1	23.65	72.16	75.11	74.86	75.23	0.005378	1.88	17.43	23.58	0.45
SantAntonio	valle	6	Max WS	TR200d2	26.05	72.16	75.15	74.90	75.28	0.005177	1.96	18.36	24.12	0.47
SantAntonio	valle	6	Max WS	TR200d3	25.01	72.16	75.13	74.88	75.26	0.005563	1.93	17.98	23.90	0.46
SantAntonio	valle	6	Max WS	TR200d4	23.03	72.16	75.10	74.85	75.22	0.005315	1.86	17.15	23.41	0.45
SantAntonio	valle	6	Max WS	TR200d5	21.12	72.16	75.06	74.81	75.18	0.005093	1.79	16.28	22.90	0.44
SantAntonio	valle	6	Max WS	TR200d6	19.46	72.16	75.02	74.78	75.13	0.004925	1.74	15.45	22.39	0.43
SantAntonio	valle	6	Max WS	TR200d8	16.80	72.16	74.96	74.72	75.06	0.004661	1.65	14.03	21.50	0.41
SantAntonio	valle	6	Max WS	TR30d1	14.60	72.16	74.91	74.65	75.00	0.004330	1.55	12.89	20.76	0.40
SantAntonio	valle	6	Max WS	TR30d2	17.51	72.16	74.98	74.73	75.08	0.004749	1.67	14.40	21.74	0.42
SantAntonio	valle	6	Max WS	TR30d3	17.41	72.16	74.97	74.73	75.08	0.004736	1.67	14.35	21.70	0.42
SantAntonio	valle	6	Max WS	TR30d4	15.68	72.16	74.93	74.72	75.03	0.004505	1.60	13.45	21.12	0.41
SantAntonio	valle	6	Max WS	TR30d5	14.43	72.16	74.90	74.65	74.99	0.004300	1.54	12.80	20.70	0.39
SantAntonio	valle	6	Max WS	TR30d6	13.31	72.16	74.87	74.61	74.96	0.004079	1.49	12.24	20.32	0.38
SantAntonio	valle	6	Max WS	TR30d8	8.65	72.16	74.37	73.61	74.61	0.013096	2.17	4.03	8.91	0.65
SantAntonio	valle	5.5			Bridge									
SantAntonio	valle	5	Max WS	TR200d1	23.64	72.10	74.44	74.60	74.98	0.016804	3.51	8.95	17.05	0.85
SantAntonio	valle	5	Max WS	TR200d2	26.05	72.10	74.51	74.66	75.04	0.016198	3.54	10.22	17.68	0.84
SantAntonio	valle	5	Max WS	TR200d3	25.01	72.10	74.48	74.64	75.01	0.016410	3.53	9.70	17.42	0.85
SantAntonio	valle	5	Max WS	TR200d4	23.03	72.10	74.41	74.59	74.96	0.017016	3.50	8.59	16.67	0.86
SantAntonio	valle	5	Max WS	TR200d5	21.12	72.10	74.34	74.53	74.89	0.017571	3.45	7.48	12.77	0.86
SantAntonio	valle	5	Max WS	TR200d6	19.46	72.10	74.27	74.20	74.80	0.017754	3.37	6.69	9.08	0.86
SantAntonio	valle	5	Max WS	TR200d8	16.79	72.10	74.16	74.08	74.62	0.016651	3.12	6.00	5.94	0.82
SantAntonio	valle	5	Max WS	TR30d1	14.60	72.10	74.06		74.48	0.016783	2.98	5.39	5.55	0.82
SantAntonio	valle	5	Max WS	TR30d2	17.51	72.10	74.19	74.12	74.66	0.016819	3.18	6.17	6.04	0.83
SantAntonio	valle	5	Max WS	TR30d3	17.41	72.10	74.19	74.11	74.66	0.016781	3.17	6.15	6.03	0.83
SantAntonio	valle	5	Max WS	TR30d4	15.68	72.10	74.11	74.03	74.55	0.016725	3.05	5.69	5.74	0.82
SantAntonio	valle	5	Max WS	TR30d5	14.43	72.10	74.05		74.47	0.016785	2.97	5.35	5.52	0.82
SantAntonio	valle	5	Max WS	TR30d6	13.31	72.10	73.99		74.39	0.016890	2.89	5.03	5.30	0.81
SantAntonio	valle	5	Max WS	TR30d8	9.44	72.10	73.75		74.09	0.017515	2.62	3.85	4.74	0.81
SantAntonio	valle	4	Max WS	TR200d1	23.64	70.69	73.14	73.15	73.71	0.015515	3.51	8.07	8.82	0.80
SantAntonio	valle	4	Max WS	TR200d2	25.99	70.69	73.21	73.27	73.81	0.015973	3.64	8.70	9.28	0.81
SantAntonio	valle	4	Max WS	TR200d3	12.56	70.69	73.33		73.45	0.002848	1.60	9.93	10.65	0.35
SantAntonio	valle	4	Max WS	TR200d4	12.69	70.69	73.34		73.45	0.002883	1.61	9.97	10.72	0.35
SantAntonio	valle	4	Max WS	TR200d5	13.12	70.69	73.23		73.37	0.003897	1.81	8.87	9.36	0.40
SantAntonio	valle	4	Max WS	TR200d6	15.22	70.69	73.16		73.39	0.006112	2.22	8.27	9.07	0.50
SantAntonio	valle	4	Max WS	TR200d8	14.96	70.69	73.04		73.31	0.007767	2.40	7.24	7.67	0.56
SantAntonio	valle	4	Max WS	TR30d1	14.60	70.69	72.75		73.17	0.014302	2.91	5.39	5.57	0.74
SantAntonio	valle	4	Max WS	TR30d2	17.51	70.69	72.87	72.77	73.36	0.015698	3.20	6.06	6.26	0.78
SantAntonio	valle	4	Max WS	TR30d3	17.40	70.69	72.86	72.76	73.36	0.015583	3.18	6.05	6.25	0.78
SantAntonio	valle	4	Max WS	TR30d4	12.69	70.69	72.84		73.11	0.008764	2.36	5.90	6.10	0.58
SantAntonio	valle	4	Max WS	TR30d5	12.44	70.69	72.81		73.08	0.009132	2.38	5.70	5.89	0.59
SantAntonio	valle	4	Max WS	TR30d6	11.24	70.69	72.75		73.00	0.008484	2.24	5.39	5.57	0.57
SantAntonio	valle	4	Max WS	TR30d8	9.43	70.69	72.52		72.78	0.010683	2.27	4.25	4.15	0.62
SantAntonio	valle	3	Max WS	TR200d1	15.30	70.87	72.89		72.99	0.002779	1.39	11.04	9.65	0.41
SantAntonio	valle	3	Max WS	TR200d2	12.65	70.87	73.13		73.18	0.001030	0.95	13.47	10.80	0.26
SantAntonio	valle	3	Max WS	TR200d3	12.32	70.87	73.32							

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	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
SantAntonio	valle	3	Max WS	TR30d2	17.40	70.87	72.64		72.85	0.007031	1.99	8.76	8.66	0.63
SantAntonio	valle	3	Max WS	TR30d3	12.33	70.87	72.70		72.79	0.003007	1.33	9.27	8.88	0.41
SantAntonio	valle	3	Max WS	TR30d4	12.66	70.87	72.76		72.85	0.002704	1.29	9.79	9.11	0.40
SantAntonio	valle	3	Max WS	TR30d5	12.40	70.87	72.72		72.81	0.002916	1.32	9.41	8.94	0.41
SantAntonio	valle	3	Max WS	TR30d6	11.06	70.87	72.66		72.74	0.002698	1.24	8.92	8.73	0.39
SantAntonio	valle	3	Max WS	TR30d8	9.43	70.87	72.30		72.43	0.005928	1.58	5.98	7.42	0.56
SantAntonio	valle	2	Max WS	TR200d1	9.62	70.60	72.75		72.84	0.004339	1.33	7.22	8.28	0.45
SantAntonio	valle	2	Max WS	TR200d2	12.41	70.60	73.08		73.16	0.002414	1.23	10.36	10.26	0.36
SantAntonio	valle	2	Max WS	TR200d3	11.49	70.60	73.29		73.34	0.001186	0.96	12.64	11.50	0.26
SantAntonio	valle	2	Max WS	TR200d4	12.69	70.60	73.29		73.35	0.001457	1.06	12.61	11.48	0.28
SantAntonio	valle	2	Max WS	TR200d5	13.08	70.60	73.16		73.24	0.002173	1.22	11.16	10.71	0.34
SantAntonio	valle	2	Max WS	TR200d6	13.07	70.60	73.05		73.14	0.002933	1.34	10.03	10.08	0.39
SantAntonio	valle	2	Max WS	TR200d8	13.65	70.60	72.88		73.02	0.005407	1.64	8.41	9.07	0.52
SantAntonio	valle	2	Max WS	TR30d1	14.32	70.60	72.33	72.48	72.91	0.038897	3.37	4.25	5.94	1.27
SantAntonio	valle	2	Max WS	TR30d2	17.27	70.60	72.45	72.61	73.06	0.037374	3.45	5.01	6.65	1.27
SantAntonio	valle	2	Max WS	TR30d3	16.04	70.60	72.46	72.56	72.97	0.031274	3.17	5.07	6.71	1.16
SantAntonio	valle	2	Max WS	TR30d4	14.09	70.60	72.47	72.47	72.86	0.023170	2.74	5.15	6.78	1.00
SantAntonio	valle	2	Max WS	TR30d5	13.44	70.60	72.45	72.44	72.82	0.022743	2.69	5.00	6.65	0.99
SantAntonio	valle	2	Max WS	TR30d6	13.01	70.60	72.42	72.42	72.80	0.023569	2.71	4.81	6.47	1.00
SantAntonio	valle	2	Max WS	TR30d8	9.37	70.60	72.13	72.22	72.57	0.034221	2.95	3.18	4.75	1.15
SantAntonio	valle	1	Max WS	TR200d1	9.69	69.03	72.76		72.76	0.000098	0.35	27.31	13.55	0.08
SantAntonio	valle	1	Max WS	TR200d2	12.34	69.03	73.10		73.11	0.000102	0.38	32.14	14.57	0.08
SantAntonio	valle	1	Max WS	TR200d3	12.19	69.03	73.31		73.31	0.000078	0.35	35.21	15.17	0.07
SantAntonio	valle	1	Max WS	TR200d4	12.88	69.03	73.30		73.31	0.000087	0.37	35.15	15.16	0.08
SantAntonio	valle	1	Max WS	TR200d5	13.09	69.03	73.18		73.18	0.000105	0.39	33.24	14.79	0.08
SantAntonio	valle	1	Max WS	TR200d6	14.79	69.03	73.07		73.08	0.000152	0.47	31.73	14.48	0.10
SantAntonio	valle	1	Max WS	TR200d8	13.81	69.03	72.90		72.91	0.000164	0.47	29.31	13.98	0.10
SantAntonio	valle	1	Max WS	TR30d1	6.29	69.03	71.99		72.00	0.000134	0.35	17.79	11.29	0.09
SantAntonio	valle	1	Max WS	TR30d2	7.59	69.03	72.35		72.36	0.000108	0.34	22.03	12.35	0.08
SantAntonio	valle	1	Max WS	TR30d3	8.62	69.03	72.43		72.44	0.000123	0.37	23.08	12.60	0.09
SantAntonio	valle	1	Max WS	TR30d4	10.10	69.03	72.48		72.49	0.000158	0.43	23.66	12.74	0.10
SantAntonio	valle	1	Max WS	TR30d5	10.35	69.03	72.43		72.44	0.000178	0.45	23.02	12.59	0.11
SantAntonio	valle	1	Max WS	TR30d6	10.25	69.03	72.36		72.37	0.000194	0.46	22.16	12.38	0.11
SantAntonio	valle	1	Max WS	TR30d8	7.72	69.03	71.87		71.88	0.000249	0.47	16.49	10.95	0.12
Canonici	valle	13	Max WS	TR200d1	44.40	76.24	82.84		82.84	0.000018	0.24	261.82	95.72	0.03
Canonici	valle	13	Max WS	TR200d2	51.68	76.24	82.90		82.90	0.000023	0.28	267.07	95.91	0.04
Canonici	valle	13	Max WS	TR200d3	51.73	76.24	82.90		82.90	0.000023	0.28	267.10	95.91	0.04
Canonici	valle	13	Max WS	TR200d4	48.41	76.24	82.87		82.87	0.000021	0.26	264.62	95.82	0.04
Canonici	valle	13	Max WS	TR200d5	44.71	76.24	82.84		82.85	0.000019	0.24	262.02	95.73	0.03
Canonici	valle	13	Max WS	TR200d6	41.34	76.24	82.82		82.82	0.000016	0.23	259.83	95.65	0.03
Canonici	valle	13	Max WS	TR200d8	35.80	76.24	82.79		82.79	0.000013	0.20	256.63	95.53	0.03
Canonici	valle	13	Max WS	TR30d1	28.31	76.24	82.75		82.75	0.000008	0.16	253.02	95.40	0.02
Canonici	valle	13	Max WS	TR30d2	34.28	76.24	82.78		82.78	0.000012	0.19	255.84	95.50	0.03
Canonici	valle	13	Max WS	TR30d3	35.12	76.24	82.78		82.78	0.000012	0.20	256.28	95.52	0.03
Canonici	valle	13	Max WS	TR30d4	32.86	76.24	82.77		82.77	0.000011	0.19	255.12	95.48	0.03
Canonici	valle	13	Max WS	TR30d5	30.43	76.24	82.76		82.76	0.000009	0.17	253.95	95.44	0.02
Canonici	valle	13	Max WS	TR30d6	28.29	76.24	82.75		82.75	0.000008	0.16	253.02	95.40	0.02
Canonici	valle	13	Max WS	TR30d8	20.02	76.24	82.72		82.72	0.000004	0.12	250.58	95.31	0.02
Canonici	valle	12.9	Max WS	TR200d1	27.75	76.24	82.69	78.70	82.85	0.003285	1.82	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR200d2	27.51	76.24	82.69	78.69	82.85	0.003226	1.81	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR200d3	27.79	76.24	82.69	78.70	82.85	0.003293	1.83	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR200d4	27.98	76.24	82.69	78.71	82.86	0.003342	1.84	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR200d5	27.98	76.24	82.69	78.71	82.86	0.003339	1.84	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR200d6	27.63	76.24	82.69	78.69	82.85	0.003257	1.82	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR200d8	27.41	76.24	82.69	78.68	82.85	0.003205	1.80	18.25	95.18	0.38
Canonici	valle	12.9	Max WS	TR30d1	27.66	76.24	82.69	78.69	82.85	0.003263	1.82	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR30d2	27.96	76.24	82.69	78.71	82.86	0.003335	1.84	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR30d3	27.87	76.24	82.69	78.71	82.86	0.003311	1.83	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR30d4	25.55	76.24	82.69	78.57	82.83	0.002774	1.68	18.37	95.19	0.36
Canonici	valle	12.9	Max WS	TR30d5	27.52	76.24	82.69	78.69	82.85	0.003230	1.81	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR30d6	27.49	76.24	82.69	78.68	82.85	0.003224	1.81	18.25	95.18	0.39
Canonici	valle	12.9	Max WS	TR30d8	20.02	76.24	82.67	78.22	82.76	0.001801	1.34	16.31	95.11	0.29
Canonici	valle	12.8			Bridge									
Canonici	valle	12.7	Max WS	TR200d1	44.38	76.24	79.95		80.10	0.003375	1.97	28.05	20.01	0.40
Canonici	valle	12.7	Max WS	TR200d2	51.67	76.24	80.27		80.41	0.002621	1.88	34.88	22.47	0.36
Canonici	valle	12.7	Max WS	TR200d3	51.72	76.24	80.28		80.41	0.002591	1.87	35.07	22.53	0.36
Canonici	valle	12.7	Max WS	TR200d4	48.41	76.24	80.13		80.28	0.002877	1.91	31.96	21.45	0.38
Canonici	valle	12.7	Max WS	TR200d5	44.71	76.24	79.97		80.13	0.003249	1.95	28.63	20.23	0.39
Canonici	valle	12.7	Max WS	TR200d6	41.34	76.24	79.82		79.99	0.003667	1.98	25.68	19.09	0.41
Canonici	valle	12.7	Max WS	TR200d8	35.80	76.24	79.58		79.76	0.004491	2.04	21.18	17.20	0.45
Canonici	valle	12.7	Max WS	TR30d1	28.29	76.24	79.21		79.42	0.006363	2.13	15.37	14.39	0.52
Canonici	valle	12.7	Max WS	TR30d2	34.27	76.24	79.50		79.68	0.004876	2.07	19.82	16.58	0.47
Canonici	valle	12.7	Max WS	TR30d3	35.11	76.24	79.54		79.72	0.004678	2.05	20.53	16.91	0.46
Canonici	valle	12.7	Max WS	TR30d4	32.85	76.24	79.44		79.62	0.005102	2.07	18.84	16.12	0.47
Canonici	valle	12.7	Max WS	TR30d5	30.43	76.24	79.32		79.52	0.005624	2.09	17.08	15.27	0.49
Canonici	valle	12.7	Max WS	TR30d6	28.29	76.24	79.22		79.42	0.006207	2.11	15.52	14.47	0.51
Canonici	valle	12.7	Max WS	TR30d8	20.01	76.24	78.79		79.02	0.009788	2.18	9.96	11.16	0.61
Canonici	valle	12.5	Max WS	TR200d1	44.39	75.94	79.99		80.03	0.000375	1.00	54.42	23.47	0.17
Canonici	valle	12.5	Max WS	TR200d2	51.70	75.94	80.30		80.35	0.000368	1.05	62.25	26.88	0.17
Canonici	valle	12.5	Max WS	TR200d3	51.78	75.94	80.31		80.36	0.000366	1.04	62.46	26.89	0.17
Canonici	valle	12.5	Max WS	TR200d4	48.48	75.94	80.17		80.22	0.000377	1.03	58.76	26.76	0.18
Canonici	valle	12.5	Max WS	TR200d5	44.78	75.94	80.02		80.06	0.000370	0.99	55.06	23.56	0.17
Canonici	valle	12.5	Max WS	TR200d6	41.41	75.94	79.87		79.91	0.000376	0.97	51.67	23.06	0.17
Canonici	valle	12.5	Max WS	TR200d8	35.86	75.94	79.63		79.67	0.000381	0.93	46.24	22.24	0.17
Canonici	valle	12.5	Max WS	TR30d1	28.30	75.94	79.28		79.31	0.000386	0.86	38.63	20.82	0.17
Canonici	valle	12.5	Max WS	TR30d2	34.29	75.94	79.56		79.59	0.000386	0.92	44.55	21.98	0.17
Canonici	valle	12.5	Max WS	TR30d3	35.14	75.94	79.60		79.64	0.000384	0.93	45.44	22	

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
					(m ³ /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m ²)	(m)	
Canonici	valle	12.2	Max WS	TR200d5	44.90	76.09	79.91		80.02	0.001596	1.48	30.38	14.40	0.32
Canonici	valle	12.2	Max WS	TR200d6	41.52	76.09	79.76		79.87	0.001665	1.47	28.28	14.08	0.33
Canonici	valle	12.2	Max WS	TR200d8	35.96	76.09	79.52		79.62	0.001772	1.44	24.95	13.55	0.34
Canonici	valle	12.2	Max WS	TR30d1	28.31	76.09	79.16		79.26	0.001964	1.40	20.28	12.75	0.35
Canonici	valle	12.2	Max WS	TR30d2	34.32	76.09	79.44		79.54	0.001819	1.44	23.90	13.38	0.34
Canonici	valle	12.2	Max WS	TR30d3	35.20	76.09	79.48		79.59	0.001795	1.44	24.46	13.47	0.34
Canonici	valle	12.2	Max WS	TR30d4	32.98	76.09	79.38		79.48	0.001844	1.43	23.12	13.25	0.34
Canonici	valle	12.2	Max WS	TR30d5	30.56	76.09	79.27		79.37	0.001893	1.41	21.70	13.02	0.35
Canonici	valle	12.2	Max WS	TR30d6	28.41	76.09	79.17		79.27	0.001949	1.39	20.39	12.78	0.35
Canonici	valle	12.2	Max WS	TR30d8	20.10	76.09	78.75		78.84	0.002077	1.30	15.40	11.18	0.35
Canonici	valle	12	Max WS	TR200d1	44.41	76.09	79.56	78.58	79.88	0.003216	2.50	17.80	15.12	0.49
Canonici	valle	12	Max WS	TR200d2	51.79	76.09	79.85	78.75	80.20	0.003094	2.62	19.74	16.10	0.49
Canonici	valle	12	Max WS	TR200d3	51.95	76.09	79.85	78.76	80.21	0.003087	2.62	19.79	16.13	0.49
Canonici	valle	12	Max WS	TR200d4	48.67	76.09	79.73	78.67	80.06	0.003142	2.57	18.93	15.69	0.49
Canonici	valle	12	Max WS	TR200d5	44.97	76.09	79.59	78.59	79.91	0.003191	2.50	17.97	15.21	0.49
Canonici	valle	12	Max WS	TR200d6	41.60	76.09	79.45	78.51	79.76	0.003241	2.44	17.07	14.75	0.49
Canonici	valle	12	Max WS	TR200d8	36.03	76.09	79.24	78.37	79.51	0.003266	2.31	15.62	14.02	0.49
Canonici	valle	12	Max WS	TR30d1	28.32	76.09	78.93	78.15	79.15	0.003282	2.10	13.50	12.94	0.48
Canonici	valle	12	Max WS	TR30d2	34.35	76.09	79.17	78.32	79.43	0.003284	2.27	15.16	13.78	0.48
Canonici	valle	12	Max WS	TR30d3	35.24	76.09	79.21	78.34	79.48	0.003275	2.29	15.40	13.91	0.49
Canonici	valle	12	Max WS	TR30d4	33.03	76.09	79.12	78.28	79.37	0.003284	2.23	14.81	13.60	0.48
Canonici	valle	12	Max WS	TR30d5	30.61	76.09	79.03	78.22	79.26	0.003269	2.16	14.16	13.28	0.48
Canonici	valle	12	Max WS	TR30d6	28.46	76.09	78.94	78.16	79.16	0.003272	2.10	13.56	12.97	0.47
Canonici	valle	12	Max WS	TR30d8	20.13	76.09	78.57	77.91	78.74	0.003234	1.82	11.05	11.69	0.46
Canonici	valle	11.5			Bridge									
Canonici	valle	11	Max WS	TR200d1	44.41	76.14	79.19		79.66	0.008844	3.06	14.53	9.64	0.66
Canonici	valle	11	Max WS	TR200d2	51.79	76.14	79.37		79.92	0.009409	3.29	15.76	9.95	0.68
Canonici	valle	11	Max WS	TR200d3	51.94	76.14	79.38		79.93	0.009372	3.29	15.81	9.96	0.68
Canonici	valle	11	Max WS	TR200d4	48.67	76.14	79.30		79.82	0.009088	3.18	15.30	9.83	0.67
Canonici	valle	11	Max WS	TR200d5	44.97	76.14	79.21		79.69	0.008775	3.06	14.69	9.68	0.66
Canonici	valle	11	Max WS	TR200d6	41.60	76.14	79.12		79.56	0.008531	2.95	14.08	9.53	0.65
Canonici	valle	11	Max WS	TR200d8	36.03	76.14	78.96		79.35	0.008137	2.77	13.02	9.25	0.63
Canonici	valle	11	Max WS	TR30d1	28.32	76.14	78.70		79.02	0.007749	2.50	11.30	8.67	0.61
Canonici	valle	11	Max WS	TR30d2	34.35	76.14	78.90		79.28	0.008096	2.72	12.64	9.12	0.63
Canonici	valle	11	Max WS	TR30d3	35.24	76.14	78.93		79.31	0.008127	2.75	12.83	9.19	0.63
Canonici	valle	11	Max WS	TR30d4	33.03	76.14	78.86		79.22	0.007957	2.67	12.39	9.04	0.62
Canonici	valle	11	Max WS	TR30d5	30.61	76.14	78.78		79.12	0.007799	2.58	11.87	8.86	0.61
Canonici	valle	11	Max WS	TR30d6	28.46	76.14	78.71		79.03	0.007676	2.50	11.38	8.70	0.61
Canonici	valle	11	Max WS	TR30d8	20.13	76.14	78.38		78.62	0.007326	2.18	9.24	7.98	0.59
Canonici	valle	10.699			Lat Struct									
Canonici	valle	10	Max WS	TR200d1	41.55	75.08	77.28	77.39	77.98	0.017520	4.21	12.97	12.04	1.03
Canonici	valle	10	Max WS	TR200d2	46.95	75.08	77.37	77.49	78.12	0.017725	4.39	14.08	12.04	1.04
Canonici	valle	10	Max WS	TR200d3	47.32	75.08	77.37	77.49	78.13	0.017839	4.41	14.13	12.04	1.05
Canonici	valle	10	Max WS	TR200d4	45.02	75.08	77.34	77.45	78.07	0.017723	4.33	13.67	12.04	1.04
Canonici	valle	10	Max WS	TR200d5	42.27	75.08	77.29	77.40	77.99	0.017559	4.23	13.12	12.04	1.03
Canonici	valle	10	Max WS	TR200d6	39.67	75.08	77.25	77.36	77.92	0.017337	4.14	12.59	12.04	1.02
Canonici	valle	10	Max WS	TR200d8	35.14	75.08	77.17	77.27	77.79	0.016861	3.95	11.64	12.04	1.00
Canonici	valle	10	Max WS	TR30d1	28.04	75.08	77.06	77.13	77.57	0.014933	3.54	10.30	12.04	0.93
Canonici	valle	10	Max WS	TR30d2	33.51	75.08	77.14	77.24	77.75	0.016630	3.88	11.30	12.04	0.99
Canonici	valle	10	Max WS	TR30d3	34.33	75.08	77.15	77.26	77.77	0.016759	3.92	11.47	12.04	0.99
Canonici	valle	10	Max WS	TR30d4	32.51	75.08	77.12	77.22	77.72	0.016429	3.83	11.10	12.04	0.98
Canonici	valle	10	Max WS	TR30d5	30.37	75.08	77.09	77.17	77.65	0.015930	3.71	10.68	12.04	0.96
Canonici	valle	10	Max WS	TR30d6	28.33	75.08	77.06	77.13	77.58	0.015015	3.56	10.36	12.04	0.93
Canonici	valle	10	Max WS	TR30d8	20.30	75.08	76.98	77.31	77.31	0.009926	2.79	9.41	12.04	0.75
Canonici	valle	9	Max WS	TR200d1	24.23	74.42	76.79		76.93	0.003509	1.83	16.02	11.01	0.41
Canonici	valle	9	Max WS	TR200d2	27.17	74.42	76.87		77.02	0.003821	1.94	16.86	11.01	0.42
Canonici	valle	9	Max WS	TR200d3	27.33	74.42	76.88		77.03	0.003814	1.94	16.94	11.01	0.42
Canonici	valle	9	Max WS	TR200d4	26.16	74.42	76.84		76.99	0.003735	1.90	16.54	11.01	0.42
Canonici	valle	9	Max WS	TR200d5	24.80	74.42	76.80		76.94	0.003650	1.86	16.06	11.01	0.41
Canonici	valle	9	Max WS	TR200d6	23.42	74.42	76.77		76.90	0.003429	1.80	15.76	11.01	0.40
Canonici	valle	9	Max WS	TR200d8	21.35	74.42	76.69		76.81	0.003369	1.75	14.85	11.01	0.40
Canonici	valle	9	Max WS	TR30d1	18.04	74.42	76.53		76.65	0.003374	1.68	13.13	11.01	0.40
Canonici	valle	9	Max WS	TR30d2	20.52	74.42	76.65		76.77	0.003371	1.73	14.42	11.01	0.40
Canonici	valle	9	Max WS	TR30d3	20.76	74.42	76.66		76.78	0.003379	1.74	14.53	11.01	0.40
Canonici	valle	9	Max WS	TR30d4	20.10	74.42	76.64		76.76	0.003301	1.71	14.32	11.01	0.39
Canonici	valle	9	Max WS	TR30d5	19.22	74.42	76.60		76.71	0.003297	1.69	13.87	11.01	0.39
Canonici	valle	9	Max WS	TR30d6	18.39	74.42	76.56		76.67	0.003290	1.68	13.44	11.01	0.39
Canonici	valle	9	Max WS	TR30d8	14.99	74.42	76.36		76.48	0.003500	1.64	11.30	11.01	0.41
Canonici	valle	8	Max WS	TR200d1	25.98	72.87	75.95		76.29	0.012867	2.79	11.96	17.84	0.80
Canonici	valle	8	Max WS	TR200d2	32.11	72.87	76.07		76.44	0.012921	2.97	14.02	17.84	0.82
Canonici	valle	8	Max WS	TR200d3	32.38	72.87	76.07		76.44	0.012946	2.98	14.10	17.84	0.82
Canonici	valle	8	Max WS	TR200d4	31.23	72.87	76.05		76.41	0.012867	2.94	13.76	17.84	0.81
Canonici	valle	8	Max WS	TR200d5	29.84	72.87	76.03		76.38	0.012743	2.89	13.34	17.84	0.81
Canonici	valle	8	Max WS	TR200d6	25.99	72.87	75.96		76.29	0.012687	2.78	12.03	17.84	0.80
Canonici	valle	8	Max WS	TR200d8	25.98	72.87	75.95		76.29	0.012825	2.79	11.97	17.84	0.80
Canonici	valle	8	Max WS	TR30d1	11.75	72.87	75.40		75.69	0.003223	2.38	4.93	15.59	0.48
Canonici	valle	8	Max WS	TR30d2	25.98	72.87	75.95		76.29	0.012825	2.79	11.97	17.84	0.80
Canonici	valle	8	Max WS	TR30d3	25.98	72.87	75.95		76.29	0.012825	2.79	11.97	17.84	0.80
Canonici	valle	8	Max WS	TR30d4	25.98	72.87	75.95		76.29	0.012825	2.79	11.97	17.84	0.80
Canonici	valle	8	Max WS	TR30d5	11.75	72.87	75.40		75.69	0.003225	2.38	4.93	15.59	0.48
Canonici	valle	8	Max WS	TR30d6	11.75	72.87	75.40		75.69	0.003225	2.38	4.93	15.59	0.48
Canonici	valle	8	Max WS	TR30d8	11.75	72.87	75.40		75.69	0.003223	2.38	4.93	15.59	0.48
Canonici	valle	6.5			Culvert									
Canonici	valle	2	Max WS	TR200d1	24.37	67.18	71.57		71.58	0.000072	0.41	59.50	27.07	0.09
Canonici	valle	2	Max WS	TR200d2	28.79	67.18	72.03		72.03	0.000057	0.40	72.10	28.43	0.08
Canonici	valle	2	Max WS	TR200d3	28.44	67.18	72.33		72.33	0.000040	0.35	80.78	29.34	0.07
Canonici	valle	2	Max WS	TR200d4	27.84	67.18	72.29		72.30	0.000040	0.35	79.79	29.23	0.07
Canonici	valle	2	Max WS											

HEC-RAS Profile: Max WS (Continued)

River	Reach	River Sta	Profile	Plan	Q Total (m ³ /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 (m ²)	Top Width (m)	Froude # Chl
Canonici	valle	2	Max WS	TR30d5	21.62	67.18	71.04		71.05	0.000124	0.47	45.55	25.47	0.11
Canonici	valle	2	Max WS	TR30d6	21.14	67.18	70.96		70.97	0.000137	0.49	43.39	25.21	0.12
Canonici	valle	2	Max WS	TR30d8	18.20	67.18	70.39		70.41	0.000263	0.60	30.17	20.73	0.16
Canonici	valle	1.999												
					Lat Struct									
Canonici	valle	1	Max WS	TR200d1	39.74	67.03	71.48		71.55	0.000658	1.19	33.47	13.58	0.24
Canonici	valle	1	Max WS	TR200d2	44.24	67.03	71.95		72.01	0.000489	1.11	39.83	13.58	0.21
Canonici	valle	1	Max WS	TR200d3	41.28	67.03	72.28		72.32	0.000313	0.93	44.27	13.58	0.16
Canonici	valle	1	Max WS	TR200d4	39.42	67.03	72.25		72.29	0.000293	0.90	43.87	13.58	0.16
Canonici	valle	1	Max WS	TR200d5	40.38	67.03	71.95		72.01	0.000405	1.01	39.90	13.58	0.19
Canonici	valle	1	Max WS	TR200d6	39.15	67.03	71.77		71.83	0.000458	1.04	37.47	13.58	0.20
Canonici	valle	1	Max WS	TR200d8	35.73	67.03	71.57		71.62	0.000479	1.03	34.68	13.58	0.21
Canonici	valle	1	Max WS	TR30d1	20.56	67.03	70.47		70.52	0.000807	1.03	19.99	12.74	0.26
Canonici	valle	1	Max WS	TR30d2	32.17	67.03	70.93		71.01	0.000901	1.23	26.07	13.31	0.28
Canonici	valle	1	Max WS	TR30d3	32.94	67.03	71.01		71.08	0.000848	1.22	27.06	13.40	0.27
Canonici	valle	1	Max WS	TR30d4	33.07	67.03	71.04		71.11	0.000814	1.20	27.52	13.45	0.27
Canonici	valle	1	Max WS	TR30d5	29.78	67.03	70.96		71.03	0.000738	1.12	26.48	13.35	0.26
Canonici	valle	1	Max WS	TR30d6	27.77	67.03	70.88		70.94	0.000723	1.09	25.42	13.25	0.25
Canonici	valle	1	Max WS	TR30d8	18.17	67.03	70.35		70.39	0.000800	0.98	18.46	12.59	0.26

