REACH: superior RS: 554.557

INPUT
Description:
Station Elevation Data num= 85

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	31.61	1.54	31.35	2.73	31.13	2.98	31.09	3.5	31
6.76	30.45	6.93	30.42	7.11	30.38	7.33	30.34	8.36	30.36
8.66	30.11	9.29	30	10.78	29.75	11.95	29.55	12.06	29.53
12.3	29.49	12.6	29.43	13.27	29.32	13.31	29.31	13.4	29.29
13.5	29.28	13.61	29.26	13.72	29.24	14.21	29.15	14.52	29.09
15.08	29	15.1	29	15.93	28.89	16.12	28.87	16.85	28.77
17.04	28.75	17.24	28.72	18.09	28.62	18.32	28.58	18.42	28.57
18.95	28.5	19.01	28.49	19.59	28.42	20	28.37	20.32	28.33
20.55	28.3	20.8	28.27	21	28.24	21.28	28.21	22.78	28.03
22.82	28.03	22.86	28.02	23.09	28	23.12	28	23.78	27.94
24.77	27.86	24.93	27.84	24.99	27.84	25.74	27.77	26.75	27.67
27.54	27.6	28.24	27.53	29	27.46	29.9	27.38	34.08	27
34.16	26.99	35.27	26.91	36.39	26.81	38.39	26.63	40.39	26.21
44.79	26.86	45.47	26.89	46.24	26.92	46.65	26.93	48.65	27
50.59	27.09	51.61	27.14	53.16	27.25	54.26	27.34	56.85	27.5
62	28	64.26	28.4	68.04	29	72.31	29.73	74.05	30
75.85	30.38	78.68	31	80.05	31.22	84.19	32	85.24	32.22

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	36.39	.035	40.39	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
36.39 40.39 19.68 18.75 17.72 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 535.806

INPUT
Description:
Station Elevation Data num= 119

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	30.09	.63	30	3.75	29.59	4.13	29.55	5.27	29.41
5.38	29.39	5.6	29.36	5.84	29.33	6.11	29.29	6.41	29.25
6.74	29.2	6.87	29.18	7.16	29.14	7.47	29.1	7.82	29.05
8.17	29	8.2	28.93	8.56	28.93	8.88	28.88	9.03	28.85
9.29	28.81	9.53	28.77	9.75	28.73	9.95	28.7	10.13	28.67
10.3	28.64	10.42	28.62	10.61	28.59	10.79	28.56	10.95	28.53
13.87	28	15.79	27.8	16.13	27.77	17.17	27.67	17.67	27.63
17.69	27.62	18.54	27.55	18.95	27.51	19.62	27.46	20.09	27.42
20.62	27.37	21.45	27.3	21.54	27.3	22.14	27.25	22.43	27.22
22.52	27.22	22.58	27.21	22.8	27.19	22.89	27.19	24.72	27.05
24.8	27.05	24.81	27.05	25.57	27	25.79	26.99	25.84	26.99
28.79	26.81	29.95	26.71	30.73	26.65	31.33	26.61	31.85	26.57
32.31	26.53	32.92	26.48	33.19	26.46	33.2	26.45	33.77	26.41
34.1	26.38	34.76	26.33	34.81	26.32	35.58	26.26	37.49	26.07
38.14	26	38.38	26	38.41	26	38.43	26	38.45	26
38.46	26	38.51	26	38.55	26	38.98	25.91	39.42	25.87
40.31	25.99	40.39	26	40.44	26	40.49	26	40.6	26
41.39	26.04	43.19	26.14	47.9	26.35	47.92	26.35	47.93	26.35
47.94	26.35	47.95	26.35	47.96	26.35	50.94	26.51	53.7	26.64
54.46	26.67	54.63	26.67	54.79	26.68	54.95	26.69	55.1	26.69
59.62	26.95	59.65	26.95	59.67	26.95	59.71	26.95	59.74	26.95
59.88	26.96	59.94	26.96	60.63	27	61.43	27.13	64.99	28
65.43	28.07	70.66	29	73.23	29.48	75.72	30	79.67	30.87
80.23	31	81.09	31.17	82.56	31.47	83.05	31.57		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	37.49	.035	41.39	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
37.49 41.39 22.16 21.49 20.54 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 514.322

INPUT
Description:
Station Elevation Data num= 186

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	27	.39	27	.86	27	5.09	27	5.45	27
5.49	27	5.69	27	6.85	27	7.05	27	8.45	27
8.73	27	8.86	27	9.16	27	10.51	27	11.16	27
11.32	27	11.36	27	11.39	27	11.55	27	11.58	27
11.62	27	11.66	27	11.8	27	11.83	27	11.86	27
11.99	27	12.12	27	12.25	27	12.37	27	13.24	27
16.84	27	16.97	27	17.12	27	17.28	27	17.46	27
18.89	27	18.9	27	18.91	27	18.94	27	18.95	27
18.99	27	19	27	19.04	27	19.05	27	20.4	27.7
20.42	27.7	20.46	27.7	20.5	27.7	20.54	27.7	20.57	27.7
20.6	27.7	20.63	27.7	20.66	27.7	20.7	27.71	20.72	27.71
20.76	27.71	21.15	27.73	21.19	27.73	21.24	27.74	21.28	27.74
21.33	27.74	21.77	27.75	21.81	27.75	21.82	27.76	21.86	27.76
21.89	27.76	21.92	27.76	22.37	27.77	22.4	27.78	22.43	27.78
22.46	27.78	22.49	27.78	22.51	27.78	22.83	27.75	22.86	27.75
22.89	27.74	22.94	27.73	22.99	27.72	23.04	27.71	23.09	27.7
23.14	27.69	23.2	27.67	23.22	27.67	23.28	27.66	23.3	27.65
23.31	27.65	23.33	27.65	23.4	27.63	23.41	27.63	23.43	27.62
23.44	27.62	23.49	27.61	23.51	27.61	23.52	27.6	23.54	27.6
23.55	27.59	23.82	27.54	23.84	27.54	23.87	27.53	23.89	27.53
23.92	27.53	23.94	27.52	23.97	27.52	24.13	27.5	24.63	27.38
24.75	27.36	24.87	27.35	24.9	27.34	25.07	27.31	25.33	27.28
25.49	27.24	25.66	27.2	25.67	27.2	25.69	27.2	25.75	27.18
25.78	27.18	25.84	27.17	25.91	27.16	25.94	27.15	26	27.14
26.06	27.13	26.09	27.12	26.14	27.11	26.22	27.1	26.3	27.08
26.32	27.08	26.4	27.06	26.42	27.06	26.54	27.04	26.67	27.02
26.77	27	26.8	27	26.85	26.99	27.35	26.94	27.39	26.94
27.49	26.93	27.6	26.93	27.8	26.88	27.92	26.87	28.03	26.85
28.14	26.84	28.25	26.83	28.36	26.81	28.41	26.81	28.47	26.8
28.54	26.79	28.61	26.78	28.67	26.77	28.69	26.76	28.75	26.75
28.81	26.74	28.83	26.74	28.84	26.74	28.91	26.72	28.92	26.72
28.98	26.72	29.06	26.69	29.45	26.6	29.46	26.6	29.53	26.57
30.7	26	34.68	25.39	34.74	25.39	37.78	25	39.29	24.94
39.62	24.92	41.4	24.85	41.98	24.89	43.09	25	43.32	25.02
46.59	25.34	47.06	25.39	53.93	25.99	54.06	26	55.31	26.13
63.58	27	63.76	27.06	66.89	28	68.59	28.51	70.26	29
72.81	29.75	73.71	30	74.68	30.26	77.29	31	79.95	31.62
80.26	31.69								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	39.29	.035	43.32	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
39.29 43.32 16.62 17.27 17.85 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 497.047

INPUT
Description:
Station Elevation Data num= 101

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.58	.04	26.58	.09	26.58	.13	26.58	.24	26.57

.42	26.59	.53	26.58	.55	26.58	.56	26.58	.59	26.58
.61	26.58	.63	26.58	.65	26.59	.67	26.59	.79	26.6
1	26.62	1.64	26.54	1.89	26.56	2.01	26.57	2.72	26.48
8.17	26	8.36	26	8.4	26	12.22	26	13.06	26
13.08	26	13.1	26	13.58	26	13.83	26	13.84	26
14.5	26	14.97	26	15.52	26	19.73	25.46	20.05	25.41
20.09	25.41	20.47	25.36	20.53	25.35	20.57	25.34	20.63	25.33
22.54	25.1	23.19	25	23.55	25	23.61	25	23.86	25
24.26	25	24.29	25	24.35	25	24.73	25	24.8	25
24.82	25	24.83	25	25.83	25	25.85	25	25.87	25
25.88	25	25.9	25	25.92	25	25.94	25	25.95	25
32.73	24.46	32.76	24.46	32.78	24.46	32.81	24.46	32.94	24.46
34.04	24.37	34.09	24.37	34.15	24.37	36.46	24.26	36.74	24.25
36.78	24.25	36.81	24.24	36.82	24.24	38.43	24.15	40.67	24.34
41.81	24.44	42.05	24.46	44.75	24.66	44.99	24.68	45.84	24.75
46.05	24.77	46.28	24.79	46.4	24.8	46.66	24.83	46.93	24.86
47.23	24.89	47.54	24.92	47.66	24.93	48.24	25	50.99	25.29
57.93	26	59.69	26.39	62.72	27	66.55	27.83	67.37	28
68.03	28.24	70.32	29	73.58	29.79	74.56	30	75.7	30.26
76.86	30.53								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	36.46	.035	40.67	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
36.46 40.67 20.87 21.11 21.29 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 475.941

INPUT
Description:
Station Elevation Data num= 162

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.06	.36	26	.41	26	.5	26	.52	26
.54	26	.57	26	.59	26	.62	26	.65	26
.68	26	.71	26	.73	26	.76	26	.99	26
1.26	25.92	1.27	25.92	1.29	25.92	1.31	25.91	1.33	25.91
1.35	25.9	1.38	25.89	1.39	25.89	1.41	25.88	1.46	25.87
1.47	25.86	1.54	25.85	1.56	25.84	1.59	25.82	1.65	25.8
1.7	25.77	1.75	25.75	1.88	25.72	1.93	25.7	1.98	25.67
2.03	25.65	2.06	25.64	2.11	25.62	2.32	25.58	2.37	25.56
2.42	25.54	2.46	25.52	2.5	25.5	2.78	25.45	2.82	25.44
3.14	25.33	3.18	25.32	3.47	25.27	3.52	25.25	3.84	25.21
3.85	25.21	3.91	25.19	4.25	25.15	4.29	25.13	4.66	25.08
4.69	25.08	5.09	25.03	5.22	25	5.3	25	5.35	25
5.56	25	5.78	25	5.79	25	5.81	25	5.99	25
6.16	25	6.32	25	6.48	25	6.5	25	6.52	25
6.54	25	6.56	25	6.58	25	6.6	25	6.63	25
6.65	25	6.79	25	6.81	25	6.87	25	6.91	25
6.98	25	7.09	25	7.12	25	7.74	25	7.77	25
7.81	25	8.44	25	8.59	25	8.78	25	9.28	25
10.66	25.05	13.87	25.03	15.12	25	16.61	24.85	16.63	24.84
16.65	24.83	16.67	24.83	16.68	24.82	16.7	24.82	16.72	24.81
16.75	24.81	18.69	24.58	18.72	24.57	18.73	24.56	18.77	24.55
18.82	24.54	18.87	24.53	18.94	24.52	18.99	24.5	19.04	24.49
19.1	24.48	19.15	24.47	19.25	24.45	19.34	24.42	19.44	24.4
19.54	24.38	19.66	24.35	19.86	24.3	19.98	24.28	20.1	24.25
20.23	24.22	20.28	24.21	20.91	24.07	20.98	24.06	21.1	24.03
21.2	24	21.3	24	21.42	24	21.44	24	21.46	24
21.48	24	21.5	24	21.51	24	21.53	24	24.44	23.89
31.26	23.66	35.48	23.52	37.84	23.44	39.88	23.52	40.81	23.63
40.93	23.64	40.97	23.65	42.38	23.75	43.19	23.81	45.85	24
47.5	24.23	47.87	24.29	52.1	25	53.43	25.17	54.42	25.29
60.22	26	60.36	26	63.07	26.51	65.43	27	66.74	27.32
69.78	28	73.53	28.77	73.56	28.78	74.24	28.93	74.52	29
76.15	29.39	76.62	29.5						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	35.48	.035	39.88	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
35.48 39.88 19.08 19.91 20.58 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 456.031

INPUT
Description:
Station Elevation Data num= 105

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	27.09	.57	27	2.95	26.61	6.69	26	10.2	25.43
11.01	25.29	12.47	25.06	17.88	25	14.62	24.76	14.99	24.7
16.35	24.51	16.99	24.42	17.23	24.39	17.63	24.33	17.65	24.33
17.67	24.33	17.69	24.33	17.7	24.32	17.72	24.32	19.08	24.12
19.09	24.12	20.2	24	20.22	24	20.27	24	20.32	24
20.37	24	20.4	24	20.45	24	20.47	24	20.5	24
20.62	24	23.1	23.85	23.16	23.84	23.23	23.84	24.03	23.8
24.12	23.79	24.84	23.75	24.94	23.75	24.97	23.75	26.8	23.64
27.97	23.59	29.83	23.49	30.19	23.47	30.39	23.46	30.59	23.45
31.78	23.39	31.91	23.38	32.94	23.32	33.06	23.32	33.23	23.31
33.69	23.28	35.05	23.21	35.58	23.18	35.63	23.18	36.07	23.16
36.12	23.15	36.16	23.15	36.2	23.15	36.25	23.15	36.29	23.15
36.34	23.14	36.35	23.14	36.62	23.13	38.97	23	41.84	22.91
42.33	22.9	42.61	22.89	42.86	22.88	42.9	22.88	44.12	22.88
44.86	22.86	44.89	22.87	44.92	22.87	44.96	22.87	44.99	22.87
45.18	22.87	45.21	22.87	45.34	22.88	45.41	22.88	45.55	22.88
45.82	22.89	45.93	22.89	46.94	22.92	50.03	23	53.06	23.45
56.79	24	59.14	24.38	60.97	24.68	62.98	25	63.4	25.09
67.68	26	68.34	26.19	70.05	26.68	71.07	27	75.26	27.8
76.31	28	77.08	28.49	77.1	28.5	77.16	28.54	77.23	28.58
77.89	29	78.32	29.14	79	29.36	80.98	30	82.16	30.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	41.84	.035	45.93	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
41.84 45.93 20.23 20.89 21.24 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 435.143

INPUT
Description:
Station Elevation Data num= 69

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.93	1.95	26.63	2.61	26.53	3.52	26.4	4.51	26.25
6.13	26	7.85	25.74	8.44	25.65	12.63	25	13.12	24.93
13.61	24.87	13.8	24.84	15.48	24.61	16.93	24.42	17.73	24.32
18.88	24.17	19.34	24.11	20.17	24	20.33	23.99	20.42	23.98
21.36	23.9	21.76	23.87	22.76	23.78	23.4	23.73	24.3	23.65
24.61	23.62	24.89	23.6	25.16	23.58	25.4	23.56	25.63	23.54
25.84	23.52	26.04	23.5	26.23	23.49	26.4	23.47	26.51	23.47
27.48	23.39	28.21	23.33	28.84	23.27	28.97	23.26	29.06	23.25
32.21	23	35.44	22.71	38.01	22.48	39.55	22.35	41.7	22.17
42.84	22.17	43.43	22.21	48.35	22.58	49.14	22.65	50.91	22.83
51.01	22.84	51.11	22.85	51.22	22.86	51.33	22.87	51.37	22.87
52.68	23	58.31	23.86	59.22	24	59.56	24.05	65.52	25

69.26	25.9	69.71	26	71.62	26.57	71.99	26.68	73.22	27
76.58	27.47	77.72	27.63	80.21	28	80.53	28.18		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	39.55	.035	43.43	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
39.55	43.43	16.92	17.43	17.97	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 417.714

INPUT
Description:
Station Elevation Data num= 58

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.97	.67	26.84	5.02	26	5.69	25.87	6.92	25.63
7.62	25.5	7.72	25.48	8.2	25.38	8.52	25.32	10.06	25
10.72	24.87	11.87	24.66	11.95	24.65	12.11	24.61	15.25	24
18.08	23.63	18.39	23.6	20.2	23.42	20.44	23.39	20.58	23.38
20.72	23.36	20.87	23.35	21.02	23.33	21.19	23.32	21.33	23.3
21.62	23.27	21.71	23.26	22.57	23.16	22.91	23.12	23.01	23.11
24.27	23	28.81	22.56	28.89	22.56	32.7	22.19	33.7	22.09
34.69	22	37.89	21.72	39.66	21.56	39.8	21.55	39.88	21.54
40.01	21.54	40.81	21.58	41.72	21.63	48.4	22	53.34	22.7
55.42	23	56.1	23.1	56.42	23.14	58.71	23.47	62.44	24
67.18	24.8	68.41	25	68.61	25.06	68.72	25.09	72.01	26
72.14	26.03	72.99	26.19	74.26	26.43				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	37.89	.035	41.72	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
37.89	41.72	22.31	22.68	22.96	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 395.035

INPUT
Description:
Station Elevation Data num= 60

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	25.92	2.53	25.41	2.57	25.4	2.84	25.34	4.41	25
6.8	24.47	9.12	24	12.28	23.44	13.27	23.3	13.64	23.23
15.2	23	16.49	22.87	16.52	22.86	16.55	22.86	16.58	22.85
16.62	22.85	16.64	22.85	17.1	22.8	18.74	22.61	19.41	22.53
19.83	22.49	20.36	22.43	21.42	22.33	22.27	22.23	22.93	22.16
23.73	22.07	23.82	22.06	24.34	22	24.45	21.99	24.78	21.95
25.08	21.92	25.37	21.88	25.63	21.85	25.67	21.85	25.72	21.84
25.86	21.83	27	21.7	30.36	21.33	33.4	21	33.57	20.99
35.51	20.87	36.44	20.81	38.46	20.67	39.96	20.74	40.55	20.76
40.68	20.77	44.73	21	45.04	21.04	45.24	21.06	45.69	21.12
52.16	22	54.13	22.29	55.61	22.51	58.93	23	60.67	23.26
65.67	24	67.36	24.4	69.76	25	69.92	25.04	74.11	25.98

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	36.44	.035	40.55	.045

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
36.44	40.55	20.09	20.38	20.67	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 374.659

INPUT
Description:
Station Elevation Data num= 88

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.96	3.87	24.18	4.72	24	7.91	23.34	9.55	23
9.84	22.94	9.85	22.94	9.86	22.93	9.88	22.93	9.93	22.92
9.96	22.92	9.97	22.91	9.99	22.91	10	22.91	11.92	22.52
11.94	22.52	12.37	22.44	12.86	22.37	13.14	22.32	13.31	22.3
14.25	22.16	14.48	22.12	14.61	22.1	14.79	22.07	14.82	22.06
15	22.03	15.18	22.01	15.2	22	15.22	22	15.35	21.99
15.5	21.98	15.63	21.96	15.67	21.96	15.81	21.95	15.84	21.95
15.9	21.94	16.29	21.91	17.59	21.78	17.83	21.76	18.9	21.67
19.03	21.66	19.4	21.63	19.43	21.63	19.8	21.59	21.43	21.46
21.87	21.42	21.99	21.41	23.72	21.25	24.33	21.2	25.82	21.04
25.88	21.03	26.16	21	29.77	20.66	31.39	20.51	32.74	20.4
33.14	20.36	33.72	20.31	34.01	20.28	34.5	20.25	34.74	20.23
37.58	20	38.7	19.96	39.63	19.93	40.75	19.89	42.89	19.95
42.91	19.95	44.49	20	46.35	20.22	46.45	20.23	47.09	20.33
47.62	20.42	51.04	21	53.92	21.46	54.53	21.55	56.72	21.9
56.97	21.94	57.37	22	61.01	22.58	63.6	23	67.39	23.93
67.69	24	67.8	24.04	71.08	25	71.41	25.06	76.42	26
76.57	26.09	76.76	26.19	77.68	26.67				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	38.7	.4	42.89	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
38.7	42.89	20.2	20.28	20.33	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 354.377

INPUT
Description:
Station Elevation Data num= 104

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.21	.09	24.19	.13	24.18	.36	24.13	.61	24.08
.73	24.05	.75	24.05	.77	24.04	.78	24.04	.8	24.03
.81	24.03	.95	24	3.35	23.53	6.02	23	8.57	22.55
8.84	22.51	11.74	22	12.69	21.84	12.87	21.81	13.15	21.76
13.6	21.68	15.41	21.36	17.05	21.08	17.5	21	18.55	20.9
18.58	20.89	18.6	20.89	18.63	20.89	19.98	20.75	20.03	20.75
20.09	20.74	21.11	20.64	21.18	20.64	21.25	20.63	21.68	20.59
21.91	20.57	22.13	20.55	22.33	20.53	22.52	20.51	22.7	20.49
22.86	20.48	23.02	20.46	23.17	20.45	23.18	20.45	23.31	20.43
23.43	20.42	23.55	20.41	23.66	20.4	23.77	20.39	23.87	20.39
23.97	20.38	24.06	20.37	24.15	20.36	24.49	20.33	24.77	20.31
28.39	20	30.72	19.8	31.06	19.77	31.27	19.76	32.35	19.68
36.02	19.38	38.1	19.24	38.47	19.22	38.73	19.2	40.53	19.1
40.55	19.1	40.77	19.09	40.85	19.08	40.87	19.08	40.88	19.08
41.01	19.07	41.04	19.07	41.06	19.07	42	19.06	42.48	19.03
43.3	19.03	44.13	19.1	44.32	19.12	45.11	19.21	45.79	19.25
46.49	19.33	47.5	19.46	48.96	19.6	51.73	20	55.56	20.81
56.51	21	56.88	21.08	61.3	22	63.97	22.57	64.02	22.58
64.32	22.64	66.02	23	67.74	23.46	68.27	23.6	69.25	23.85
69.84	24	71.41	24.54	72.02	24.75	72.76	25	75.27	25.48
78	26	78.22	26.1	79	26.39	79.8	26.74		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val

0	.05	40.53	.4	44.32	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
40.53	44.32	19.41	19.64	19.79	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 334.743

INPUT
Description:
Station Elevation Data num= 45

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.01	.05	24	3.63	23.47	6.68	23	7.91	22.8
9.54	22.54	12.66	22	14.51	21.52	16.5	21	18.7	20.64
21.27	20.21	21.78	20.12	22.52	20	24.07	19.84	32.23	19
32.26	19	32.29	19	34.38	18.87	39.71	18.5	41.96	18.34
44.25	18.64	44.37	18.65	47.24	19	50.05	19.58	51.93	20
55.32	20.76	56.35	20.98	56.46	21	56.6	21.03	57.82	21.29
61.29	22	62.74	22.32	65.85	23	68.97	23.89	69.35	24
69.66	24.1	72.58	25	74.14	25.32	74.61	25.42	74.8	25.46
75.04	25.52	75.35	25.58	75.74	25.67	76.27	25.79	76.85	25.91

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	39.71	.4	44.25	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
39.71	44.25	19.59	19.5	18.97	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 315.248

INPUT
Description:
Station Elevation Data num= 90

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	25.25	.55	25.08	.81	25	1	24.94	1.21	24.85
3.34	24	5.21	23.47	6.88	23	9.17	22.35	10.42	22
13.69	21.08	13.96	21	14.58	20.83	16.23	20.36	17.03	20.14
17.53	20	17.55	20	18	19.91	18.06	19.9	18.14	19.89
18.6	19.8	18.89	19.75	23.35	19	24.03	18.91	24.14	18.9
24.87	18.8	25.13	18.76	25.63	18.69	26.7	18.54	27.31	18.45
27.8	18.38	30.78	18	32.54	17.79	32.66	17.77	32.81	17.76
32.94	17.74	33.72	17.65	35.84	17.38	37.82	17.71	38.6	17.84
39.96	18	45.2	18.72	45.34	18.74	46.01	18.85	46.02	18.85
46.06	18.85	46.08	18.86	46.11	18.86	46.14	18.86	46.16	18.87
46.19	18.87	46.24	18.88	46.28	18.89	47.02	19	50.51	19.67
52.08	20	53.89	20.37	55.99	20.79	56.25	20.84	56.81	20.96
56.87	20.97	56.98	20.99	57.04	21	58.29	21.24	58.65	21.31
59.54	21.48	59.95	21.56	60.21	21.61	62.24	22	62.84	22.12
62.86	22.12	63.04	22.15	64.21	22.38	64.59	22.44	65.29	22.56
66.25	22.73	67.72	23	67.76	23.01	67.78	23.02	67.82	23.03
69.23	23.5	69.91	23.73	70.08	23.78	70.33	23.86	70.66	24
73.24	24.89	73.35	24.92	73.57	25	73.63	25.02	74.68	25.4

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	33.72	.4	37.82	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
33.72	37.82	19.95	19.67	19.29	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 295.581

INPUT
Description:
Station Elevation Data num= 114

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.46	1.58	24	2.49	23.7	4.72	23	6.87	22.44
7.03	22.4	7.14	22.36	7.51	22.26	8.02	22.11	8.41	22
8.87	21.87	9.56	21.67	10.69	21.37	11.1	21.26	11.32	21.2
12.09	21	12.92	20.76	13.89	20.47	15.69	20	16.52	19.79
16.83	19.71	19.95	19	24.78	18.07	25.12	18	26.05	17.82
27.01	17.63	30.29	17	32.13	16.76	33.85	16.53	33.96	16.52
33.97	16.52	34.06	16.51	34.19	16.52	34.21	16.52	34.22	16.52
36.13	16.72	38.89	17	44.28	17.62	46.51	17.87	47.59	18
47.64	18.01	47.68	18.02	49.95	18.45	50.08	18.48	50.34	18.52
50.55	18.56	51.84	18.8	52	18.83	52.16	18.85	52.58	18.93
52.61	18.94	52.97	19	53.45	19.09	54.16	19.21	54.45	19.26
55.06	19.37	55.07	19.37	55.29	19.42	55.79	19.5	56.08	19.56
56.44	19.62	56.76	19.68	57.01	19.72	57.37	19.78	57.62	19.83
57.72	19.85	58.21	19.93	58.28	19.95	58.58	20	58.78	20.03
58.8	20.04	59.33	20.13	59.37	20.14	59.41	20.15	60.08	20.26
60.15	20.27	60.22	20.29	60.75	20.38	60.8	20.39	60.91	20.41
61.11	20.44	61.22	20.46	61.35	20.48	62.28	20.64	62.47	20.67
62.68	20.71	62.79	20.73	63	20.76	63.79	20.89	63.96	20.92
64.29	20.97	64.49	21	65.21	21.11	65.25	21.12	65.3	21.13
65.35	21.14	65.42	21.15	65.84	21.23	65.94	21.25	66.06	21.27
66.24	21.31	66.29	21.32	66.46	21.35	66.52	21.36	67.08	21.47
69.6	21.98	69.62	21.98	69.63	21.98	69.71	22	71.62	22.68
72.61	23	73.81	23.4	74.47	23.6	75.1	23.86		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	32.13	.4	36.13	.05

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
32.13	36.13	22.27	20.94	19.08	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 274.643

INPUT
Description:
Station Elevation Data num= 73

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	22.84	1.79	22.37	3.14	22	4.69	21.64	7.51	21
11.72	20.03	11.87	20	12.04	19.96	12.47	19.87	12.86	19.78
16.29	19	18.26	18.61	19.38	18.39	19.4	18.38	19.68	18.33
21.35	18	27.25	17.04	27.47	17	30.57	16.46	33.12	16
33.55	15.94	33.8	15.91	34.51	15.82	35.79	15.64	37.67	15.88
38.62	16	38.66	16	40.53	16.17	40.58	16.18	40.64	16.18
40.69	16.19	40.75	16.2	40.82	16.2	42.99	16.4	43.09	16.41
43.19	16.42	43.27	16.43	43.39	16.44	43.72	16.47	43.85	16.48
43.98	16.5	44.54	16.55	44.68	16.56	47.38	16.83	47.63	16.85
48.48	16.94	48.53	16.94	48.62	16.95	49.1	17	50.64	17.21
50.8	17.23	51.44	17.32	51.67	17.35	51.95	17.39	52.76	17.5
52.8	17.51	52.95	17.53	53.89	17.67	54.08	17.7	54.24	17.72
55.96	18	55.99	18	56.86	18.21	57.9	18.46	60.18	19
60.84	19.15	64.41	20	66.1	20.4	68.62	21	70.74	21.5
72.83	22	77.44	23	77.81	23.14				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	33.55	.4	37.67	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

	33.55	37.67		21.17	20.16	19.06		.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 254.479

INPUT
Description:
Station Elevation Data num= 124

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	21.25	.73	21.1	1.22	21	5.25	20.22	6.42	20
6.85	19.92	9.8	19.36	10.81	19.18	11.7	19	16.22	18.14
16.95	18	17.12	17.97	17.15	17.97	17.16	17.97	17.17	17.96
17.22	17.96	17.57	17.9	18.04	17.81	22.82	17	25.3	16.64
25.68	16.59	26.25	16.52	26.28	16.52	26.52	16.49	26.74	16.46
26.93	16.44	27.1	16.42	27.25	16.4	30.23	16	30.96	15.9
30.99	15.9	31.02	15.89	31.05	15.89	31.08	15.88	31.11	15.88
31.15	15.87	31.17	15.87	31.21	15.86	31.25	15.86	31.3	15.85
31.35	15.84	31.41	15.84	31.65	15.8	31.73	15.79	32.2	15.72
32.29	15.71	32.69	15.65	32.83	15.63	32.98	15.61	33.33	15.56
33.51	15.53	33.54	15.53	33.68	15.51	33.8	15.49	33.92	15.47
34.12	15.45	34.23	15.43	34.33	15.41	34.64	15.37	34.84	15.35
35.06	15.32	35.63	15.24	35.83	15.22	36.05	15.19	36.27	15.16
36.39	15.14	36.59	15.12	36.71	15.1	37.21	15.04	37.51	15
38.42	14.87	38.72	14.83	38.82	14.82	38.86	14.81	38.89	14.81
38.93	14.8	39.18	14.81	41.07	14.96	41.66	15	44.51	15.34
44.66	15.36	44.83	15.38	45.05	15.41	45.79	15.5	46.94	15.65
47.27	15.68	48.54	15.83	48.57	15.84	48.86	15.87	49.17	15.91
49.51	15.95	49.71	15.98	49.87	16	50.55	16.1	51.31	16.22
52.44	16.39	52.46	16.4	53.16	16.5	53.64	16.58	54	16.63
54.28	16.67	56.3	17	57.78	17.42	58.88	17.75	58.92	17.76
59.44	17.92	59.72	18	61.79	18.57	63.38	19	65.63	19.59
66.38	19.79	66.59	19.84	67.18	20	67.55	20.1	70.91	21
71.26	21.09	74.64	22	74.79	22.04	74.92	22.08	77.73	22.83
78.37	23	79.38	23.27	79.82	23.39	80.31	23.52		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	37.51	.4	41.66	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
37.51	41.66	18.9	19.26	19.61	.1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 235.222

INPUT
Description:
Station Elevation Data num= 67

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	20.76	2.21	20.33	3.93	20	5.36	19.74	5.37	19.74
6.37	19.59	9.82	19	10	18.97	10.39	18.89	14.02	18.18
14.95	18	18.91	17.15	19.73	17	24.79	16.35	27.06	16
33.38	15.07	33.84	15	36.2	14.67	37.69	14.47	38.16	14.41
38.52	14.36	38.81	14.32	39.04	14.29	39.08	14.28	39.57	14.23
40.78	14.1	41.27	14.03	41.6	14.03	41.8	14.01	41.97	14.02
42.06	14.03	42.13	14.04	42.2	14.05	43.15	14.12	43.29	14.14
43.85	14.18	44.09	14.2	45.53	14.37	47.03	14.54	50.75	15
52.72	15.28	57.52	16	60.53	16.68	61.84	17	63.4	17.39
63.77	17.49	64.01	17.55	65.81	18	67.79	18.5	69.76	19
71.83	19.56	72.37	19.7	72.51	19.74	73.5	20	74.4	20.29
76.64	21	79	21.81	79.07	21.83	79.18	21.86	79.3	21.91
79.43	21.95	79.57	22	80.18	22.2	80.23	22.22	80.65	22.36
81.16	22.53	82.07	22.83						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	39.57	.4	43.85	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
39.57	43.85	19.18	19.51	19.78	.1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 215.711

INPUT
Description:
Station Elevation Data num= 122

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.66	.12	19.64	.48	19.56	.54	19.55	.68	19.52
.8	19.49	.91	19.47	1.01	19.45	1.1	19.43	1.18	19.41
1.69	19.3	1.75	19.29	1.81	19.28	1.83	19.27	1.86	19.27
1.88	19.26	2.52	19.13	2.57	19.12	3.14	19	3.27	18.98
3.92	18.84	5.4	18.54	5.85	18.45	6.16	18.38	6.4	18.33
6.59	18.3	6.73	18.27	6.85	18.24	6.95	18.22	7.04	18.2
7.11	18.19	7.17	18.17	7.22	18.16	7.27	18.15	8.02	18
12.21	17.27	12.36	17.24	12.53	17.21	12.61	17.19	12.71	17.17
12.82	17.15	12.93	17.13	13.05	17.11	13.17	17.09	13.3	17.07
13.44	17.04	13.58	17.01	13.67	17	14.85	16.84	14.99	16.82
15.17	16.79	15.34	16.77	15.5	16.75	15.66	16.73	15.8	16.71
16.18	16.65	16.99	16.53	20.72	16	23.82	15.65	24.48	15.56
25.55	15.43	25.77	15.41	26.3	15.35	26.68	15.3	28.16	15.11
28.3	15.1	28.4	15.09	29.07	15	29.18	15	31.74	14.61
33.74	14.32	34.46	14.22	34.83	14.17	35.06	14.13	35.21	14.11
35.22	14.11	35.28	14.1	35.95	14	37.38	13.9	39.6	13.77
40.49	13.72	40.55	13.72	40.59	13.72	40.64	13.72	40.7	13.72
40.75	13.71	40.8	13.71	40.85	13.71	40.89	13.71	40.93	13.71
40.96	13.7	41	13.7	41.03	13.7	41.07	13.7	41.1	13.7
41.12	13.7	41.7	13.62	42.59	13.7	43.92	13.84	43.93	13.84
45.56	14	48.09	14.34	49.49	14.53	50.56	14.68	51.03	14.74
52.91	15	56.2	15.58	58.57	16	60.36	16.49	62.21	17
63.16	17.26	65.83	18	67.56	18.48	69.45	19	72.59	19.93
72.8	20	73.28	20.14	76.34	21	78.26	21.54	79.81	22
79.99	22.05	80.41	22.18						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	39.6	.4	43.93	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
39.6	43.93	19.5	20.07	20.4	.1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 195.639

INPUT
Description:
Station Elevation Data num= 65

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.43	.31	19.37	.34	19.37	.97	19.25	2.29	19
6.11	18.28	7.55	18	9.38	17.64	10.78	17.36	12.62	17
16.45	16.36	16.67	16.33	17.08	16.28	18.18	16.14	18.79	16.05
19.14	16	21.21	15.73	25.32	15.12	25.39	15.11	25.8	15.06
26.04	15.02	26.18	15	26.7	14.95	29.82	14.72	29.84	14.72
32.07	14.55	32.09	14.55	32.68	14.5	33.19	14.47	35.37	14.28
35.46	14.28	38.2	14.04	38.21	14.04	38.25	14.04	38.69	14
39.29	13.93	40.01	13.85	42.17	13.52	44.16	13.21	46.23	13.43
50.61	13.9	50.74	13.92	50.9	13.93	51.06	13.95	51.25	13.97
51.44	13.99	51.52	14	52.35	14.1	53.79	14.27	59.81	15

62.78	15.76	63.71	16	64.57	16.22	66.98	16.84	67.6	17
67.68	17.02	68.6	17.27	71.32	18	72.48	18.31	75.21	19
78.76	19.83	79.41	20	80.44	20.29	82.97	21	83.74	21.22

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	42.17	.4	46.23	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
42.17	46.23	19.93	20.12	20.05	.1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 175.516

INPUT
Description:
Station Elevation Data num= 182

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18.91	3.43	18.23	4.48	18	6.85	17.54	9.7	17
13.41	16.24	13.45	16.24	13.48	16.23	13.9	16.15	13.92	16.15
14.46	16.08	14.47	16.08	14.48	16.08	14.49	16.08	14.53	16.08
14.57	16.08	14.6	16.07	14.62	16.07	14.65	16.07	14.67	16.07
14.7	16.07	14.72	16.07	14.74	16.07	14.77	16.07	14.81	16.07
14.85	16.07	16.06	16.01	16.19	16	16.21	16	16.26	16
16.32	16	16.38	16	16.44	16	16.5	16	16.55	16
16.6	16	16.65	16	16.7	16	18.16	15.76	18.33	15.73
21.11	15.55	21.28	15.58	21.37	15.59	21.47	15.59	21.57	15.59
21.59	15.6	21.69	15.6	21.79	15.6	21.82	15.6	21.91	15.61
22.02	15.62	22.09	15.62	22.23	15.63	22.38	15.64	22.44	15.65
22.85	15.66	23.23	15.67	23.48	15.65	23.95	15.64	24.17	15.65
24.59	15.67	24.65	15.68	24.71	15.68	24.77	15.69	24.83	15.69
24.89	15.7	24.95	15.7	25.01	15.71	25.26	15.73	25.3	15.73
25.62	15.75	25.69	15.75	25.72	15.75	27.05	15.76	27.08	15.76
27.2	15.77	27.31	15.78	27.35	15.78	27.42	15.79	28.83	15.8
29.05	15.82	29.33	15.83	29.44	15.84	29.67	15.87	29.9	15.89
29.95	15.9	30.19	15.92	30.44	15.94	30.71	15.97	30.74	15.97
30.76	15.97	31.1	16	31.15	16	31.17	16	31.36	16
31.45	16	31.47	16	31.89	16	31.95	16	32.16	16
32.26	16	32.36	16	32.46	16	32.55	16	32.65	16
34.4	16	34.48	16	34.57	16	34.65	16	34.73	16
34.82	16	34.83	16	34.93	15.98	35.05	15.96	35.09	15.95
35.18	15.93	35.25	15.92	35.34	15.9	35.42	15.89	35.43	15.89
35.5	15.88	35.58	15.87	35.65	15.85	35.66	15.85	35.73	15.85
35.8	15.84	35.82	15.84	35.87	15.83	36	15.81	36.02	15.81
36.15	15.8	36.16	15.8	36.28	15.78	36.3	15.78	36.71	15.76
36.73	15.76	36.75	15.76	37.42	15.64	38.25	15.2	38.62	15
41	14.07	41.17	14	41.2	13.99	41.38	13.96	45.03	13.01
45.08	13	46.21	12.93	46.9	12.89	48.96	12.95	50.01	12.98
50.55	13	56.71	13.93	57.17	14	61.89	14.77	62.46	14.87
63.26	15	63.38	15.02	65.93	15.56	66.22	15.62	66.54	15.69
66.86	15.76	67.26	15.85	67.76	15.96	67.94	16	69.74	16.38
72.67	17	73.65	17.21	74.48	17.38	74.7	17.43	75.22	17.54
75.84	17.66	76.15	17.73	77.48	18	77.49	18	77.66	18.04
77.92	18.11	79.89	18.58	80.02	18.61	81.76	19	85.61	19.84
86.29	20	88.62	20.57						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	45.03	.4	48.96	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
45.03	48.96	20.08	20.71	21.68	.1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 154.810

INPUT
Description:
Station Elevation Data num= 120

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	21.3	2.79	21	3.85	21	7	21	7.01	21
7.03	20.05	7.05	20	7.05	19.66	7.08	18	7.12	17.05
7.13	16.64	7.16	16	8.72	16	9.03	16	10.22	16
10.76	16	11.82	16	12.59	16	14.3	16	22.66	16
23.69	16	25.56	16	27.25	16	29.91	16	31.28	16
32.58	16	34.19	16	36.5	16	43.63	16	46.36	16
47.66	16	48.67	15.31	49.1	15	49.85	14.45	50.48	14
51.42	13.32	51.87	13	52.65	12.93	55.32	12.69	57.34	12.52
59.27	12.68	62.59	12.94	63.23	13	63.82	13.05	63.88	13.06
64.07	13.07	64.09	13.07	64.16	13.08	64.81	13.14	64.96	13.15
65.57	13.2	65.59	13.2	65.79	13.22	66.43	13.28	66.91	13.32
67.33	13.36	67.71	13.39	68.1	13.43	70.51	13.65	70.7	13.67
73.21	13.91	73.44	13.93	73.58	13.94	73.61	13.94	74.2	14
79.92	14.87	80.11	14.9	80.79	15	81.94	15.16	82.15	15.19
82.79	15.28	83.34	15.37	84.59	15.55	85.29	15.64	85.74	15.71
87.71	16	88.44	16.12	88.64	16.15	88.95	16.2	89.22	16.24
89.47	16.28	89.53	16.29	89.86	16.33	89.93	16.34	90.21	16.39
91.29	16.55	91.55	16.59	91.61	16.6	91.73	16.61	91.84	16.63
91.93	16.64	92.03	16.65	92.11	16.67	92.19	16.68	92.26	16.69
92.76	16.76	92.81	16.77	92.98	16.79	93.06	16.81	93.15	16.82
93.35	16.85	93.43	16.85	93.52	16.87	94.09	16.95	94.13	16.96
94.17	16.96	94.34	16.93	94.44	17	94.51	17.01	94.55	17.02
96.02	17.28	96.94	17.44	98.05	17.65	98.86	17.79	100.01	18
100.51	18.09	100.7	18.13	101.88	18.35	102.15	18.4	102.66	18.48

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	55.32	.4	59.27	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
55.32	59.27	19.6	19.71	19.58	.1 .3

Left Levee	Station= 55.72	Elevation= 15	
Blocked Obstructions	num= 1		
Sta L	Sta R	Elev	
7	21	25	

CROSS SECTION

RIVER: innominado
REACH: superior RS: 135.098

INPUT
Description:
Station Elevation Data num= 171

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18.96	1.49	18.85	6.06	19	7.87	19	7.92	19
8.07	18.24	8.12	17.54	8.24	16	10.42	16	13.53	16
20.92	16	24.74	15.89	25.02	15.88	30.67	15.72	31.59	15.68
34.43	15.6	41.59	15.18	44.46	15	45.04	14.55	45.69	14
46.45	13.3	46.84	13	49.1	12.65	50.22	12.48	51	12.34
51.99	12.15	52.04	12.15	52.12	12.15	52.15	12.15	52.17	12.15
52.19	12.15	52.21	12.15	54.05	12.23	61.29	12.54	65.65	12.75
65.84	12.76	66.05	12.77	66.16	12.77	66.36	12.78	66.57	12.79
66.59	12.8	66.63	12.8	66.67	12.8	66.71	12.8	66.75	12.8
66.79	12.81	66.83	12.81	66.87	12.81	66.97	12.81	67.06	12.82
67.14	12.82	67.17	12.82	67.2	12.82	67.24	12.82	68.05	12.86
68.12	12.86	69.19	12.92	69.23	12.92	69.25	12.92	69.26	12.92
71.3	13	77.99	13.75	78.88	13.84	79.29	13.87	80.27	13.96
80.68	14	80.93	14.03	80.96	14.03	81.38	14.08	81.77	14.13
81.91	14.15	82.29	14.19	82.45	14.21	82.6	14.23	82.74	14.25
82.87	14.26	83	14.28	83.28	14.31	83.41	14.33	83.45	14.33
83.48	14.34	85.55	14.56	88.11	14.85	88.94	14.92	89.85	15
91.03	15.12	91.32	15.16	92.37	15.29	92.79	15.34	93.15	15.39

96.76	15.8	96.98	15.82	97.06	15.83	97.13	15.84	97.19	15.85
97.25	15.85	97.3	15.86	97.35	15.87	97.36	15.87	97.73	15.91
98.59	16	102.03	16.41	102.05	16.41	102.08	16.41	105.02	16.73
105.05	16.73	105.08	16.73	105.1	16.73	105.12	16.74	105.15	16.74
105.17	16.74	105.21	16.75	105.27	16.75	105.31	16.76	105.36	16.76
105.41	16.77	105.64	16.8	105.68	16.8	105.72	16.8	105.76	16.81
105.79	16.81	105.83	16.81	106.1	16.84	106.19	16.85	106.21	16.86
106.3	16.87	106.39	16.88	106.42	16.88	106.51	16.89	106.53	16.89
106.66	16.91	106.69	16.91	106.7	16.91	106.71	16.91	107.29	17
107.44	17	107.5	17	107.53	17	107.56	17	107.6	17
107.63	17	107.66	17	107.69	17	107.7	17	107.79	17.01
107.88	17.02	107.97	17.03	108.03	17.04	108.04	17.05	108.11	17.06
108.12	17.06	108.2	17.07	108.27	17.08	108.29	17.08	108.36	17.09
108.38	17.09	108.46	17.1	108.48	17.11	108.51	17.11	108.54	17.11
108.57	17.12	108.78	17.15	108.81	17.16	108.85	17.16	108.86	17.16
108.9	17.17	108.95	17.17	109	17.18	109.2	17.22	109.26	17.23
109.91	17.34								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	51	.4	54.05	.05

Bank Sta: Left 51, Right 54.05 — Lengths: Left 20.4, Channel 20.32, Right 20.28 — Coeff Contr. .1, Expan. .3

Left Levee Station= 51 Elevation= 14.75

CROSS SECTION

RIVER: innominado
REACH: superior RS: 114.780

INPUT
Description:
Station Elevation Data num= 110

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	17.56	9.71	17.35	9.91	17.31	10.15	17.4	10.23	17.28
10.88	17.38	11.29	17.38	19.95	16.8	46.03	15	46.42	14.62
46.83	14.44	47.7	14	48.76	13.22	49.02	13	49.24	12.65
49.73	12	50.21	11.97	51.48	11.88	53.42	11.75	55.11	11.91
55.28	11.93	56.2	12	56.24	12	58.62	12	59.01	12
59.36	12	59.66	12	72.09	12.42	73.32	12.46	77.44	12.63
80.13	12.65	80.19	12.65	80.54	12.66	86.11	13	87.23	13.14
88.59	13.31	92.69	14	92.72	14	92.75	14	92.77	14
92.81	14	92.85	14	92.89	14	92.93	14	92.96	14
94.85	14.3	95.14	14.34	95.17	14.34	95.26	14.35	95.34	14.37
95.43	14.38	95.51	14.39	95.59	14.4	95.66	14.41	95.96	14.46
99.02	15	99.12	15	99.14	15	99.16	15	99.18	15
99.2	15	99.22	15	99.23	15	99.25	15	99.27	15
100.48	15.2	100.54	15.21	100.61	15.22	100.68	15.23	100.76	15.24
100.86	15.25	101.33	15.31	101.38	15.32	101.53	15.34	101.7	15.36
101.89	15.39	102.17	15.42	102.53	15.47	102.99	15.53	103.25	15.57
103.82	15.65	105.62	15.89	105.91	15.93	106.23	15.97	106.46	16
106.6	16.03	106.63	16.04	107.08	16.14	107.45	16.22	107.65	16.27
107.98	16.35	108.25	16.41	108.62	16.5	108.98	16.58	109.5	16.7
110.32	16.9	110.45	16.93	110.74	17	111.33	17.13	111.46	17.16
112.22	17.32	112.52	17.4	113.05	17.51	113.52	17.62	113.85	17.69
114.46	17.84	114.56	17.86	115.16	18	115.61	18.1	117.44	18.49

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	51.48	.4	55.28	.05

Bank Sta: Left 51.48, Right 55.28 — Lengths: Left 20.37, Channel 20, Right 19.67 — Coeff Contr. .1, Expan. .3

Left Levee Station= 51.25 Elevation= 14.5

CROSS SECTION

RIVER: innominado
REACH: superior RS: 94.778

INPUT
Description:
Station Elevation Data num= 88

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	15.75	.57	15.7	2.84	15.48	3.28	15.53	3.63	15.45
9.82	15.53	13.28	15.47	26.29	15.42	42.04	15	43.81	15
47.31	15	47.6	14.76	48.39	14	48.7	13.81	50.05	13
50.32	12.82	51.34	12	52.77	11.75	52.99	11.73	54.88	11.49
56.9	11.6	57.42	11.62	58.19	11.63	58.28	11.63	59.91	11.64
61.91	11.71	69.56	12	69.75	12	69.96	12	70.83	12
71.51	12	71.99	12	72.24	12	76.84	12	77.05	12
77.16	12	77.82	12	78.5	12	79.19	12	85.85	12
85.88	12	85.99	12.01	86	12.01	86.02	12.01	89.18	12.28
89.58	12.32	90.45	12.4	90.56	12.4	90.67	12.41	90.78	12.42
90.88	12.43	90.99	12.44	91.08	12.45	91.12	12.45	91.34	12.47
91.55	12.49	92.15	12.54	92.34	12.56	92.52	12.57	92.54	12.58
93.17	12.63	97.04	13	97.13	13.01	97.22	13.03	100.67	13.54
103.74	14	104.08	14.05	104.1	14.06	104.16	14.07	104.25	14.09
104.8	14.19	106.66	14.53	108.28	14.87	108.29	14.87	108.5	14.91
108.92	15	111.62	15.61	113.36	16	114.88	16.34	117.06	16.82
117.87	17	118.21	17.07	120.37	17.55	121.9	17.89	122.11	17.94
122.38	18	122.98	18.13	123.86	18.32				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	52.99	.045	56.9	.06

Bank Sta: Left 52.99, Right 56.9 — Lengths: Left 20.77, Channel 20.26, Right 19.78 — Coeff Contr. .1, Expan. .3

Left Levee Station= 52.5 Elevation= 14

CROSS SECTION

RIVER: innominado
REACH: superior RS: 74.522

INPUT
Description:
Station Elevation Data num= 170

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.7	2.81	13.8	8.76	13.88	12.44	13.84	12.83	13.82
14.7	13.74	22.22	14	30.67	14	30.82	13.72	31.27	13
31.28	12.5	32	12	35	11.25	36.61	11.25	36.77	11.25
37	11.24	37.22	11.24	37.42	11.23	37.52	11.22	37.71	11.21
38.09	11.2	40	11.13	42.13	11.1	42.23	11.1	44.63	11.1
44.67	11.1	44.7	11.1	44.74	11.1	44.77	11.1	44.81	11.1
44.84	11.1	44.88	11.1	44.91	11.1	46.67	11	47.01	10.98
49.14	10.96	49.78	10.94	50.54	10.92	51.04	10.9	51.58	10.89
52.02	10.88	52.33	10.87	52.68	10.87	53.26	10.9	53.67	10.94
54.17	11	54.78	11.11	55.63	11.27	57.61	11.55	58.32	11.64
58.83	11.73	61.72	12	62.39	12.03	63	12.05	63.16	12.07
66.09	12.18	66.1	12.19	66.11	12.19	66.12	12.19	66.14	12.19
67.99	12.26	68.01	12.26	68.02	12.26	68.49	12.27	68.6	12.26
68.72	12.26	69.24	12.27	69.36	12.27	69.47	12.26	71.15	12.27
71.27	12.26	71.4	12.26	72.1	12.25	72.22	12.24	72.36	12.24
72.51	12.23	72.64	12.22	73.15	12.25	73.29	12.24	73.89	12.26
74.49	12.26	75.11	12.25	75.54	12.24	75.69	12.24	76.13	12.23
76.28	12.22	76.38	12.22	76.52	12.21	76.54	12.21	76.65	12.21
76.71	12.21	76.81	12.21	76.91	12.21	77.37	12.19	79.6	12.19
79.66	12.19	79.72	12.19	79.79	12.19	79.85	12.19	79.91	12.19
79.97	12.19	80	12.19	80.04	12.19	80.07	12.19	80.11	12.19
80.14	12.19	82.37	12.19	82.41	12.19	82.45	12.19	82.48	12.19
82.5	12.19	82.53	12.19	82.56	12.19	82.59	12.18	82.62	12.18
82.95	12.19	82.98	12.19	83.01	12.18	83.04	12.18	83.2	12.18
83.56	12.17	84.09	12.18	85.45	12.21	85.88	12.2	87.35	12.22
87.37	12.22	87.4	12.22	87.42	12.22	87.45	12.22	87.47	12.22

87.5	12.22	87.52	12.22	87.63	12.22	87.81	12.22	89.26	12.23
89.45	12.23	89.54	12.23	89.57	12.23	90.07	12.24	90.1	12.24
91.21	12.26	91.32	12.26	91.44	12.27	91.55	12.27	91.67	12.27
91.73	12.27	91.85	12.27	91.97	12.27	92.06	12.28	92.18	12.28
92.3	12.28	92.38	12.28	92.41	12.28	96.8	12.52	97.87	12.6
99.74	12.76	100.81	12.86	100.86	12.86	102.42	13	105.34	13.56
107.68	14	108.24	14.12	112.73	15	113.1	15.07	113.5	15.14
116.93	15.78	117.95	15.97	118.1	16	122.82	16.93	123.14	16.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	49.78	.045	53.67	.06

Bank Sta: Left 49.78, Right 53.67 — Lengths: Left 18.75, Channel 20.34, Right 21.33 — Coeff Contr. .1, Expan. .3

Blocked Obstructions num= 1

Sta L	Sta R	Elev
8.75	31	17

CROSS SECTION

RIVER: innominado
REACH: superior RS: 54.184

INPUT
Description:
Station Elevation Data num= 175

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.1	6.23	13.04	6.39	13.03	8.38	13.06	15.05	13.06
17.28	13.13	21.96	13	26.56	13	31.09	13	39.52	12.91
39.66	12.52	39.82	12	40.28	11.04	40.3	11	40.31	11
40.32	11	40.33	11	42	10.23	44.37	10.23	45.03	10.22
45.21	10.22	45.36	10.21	45.81	10.21	45.95	10.18	46.07	10.18
46.19	10.17	46.29	10.17	46.74	10.16	46.79	10.16	46.89	10.16
48.15	10.15	49.72	10.13	49.79	10.12	49.85	10.12	50.36	10.08
50.87	10.06	51.11	10.05	51.21	10.04	51.91	10	51.93	10
52.54	9.95	53.66	9.84	56.12	9.58	56.73	9.68	56.84	9.7
57.02	9.73	57.36	9.79	57.59	9.82	57.79	9.85	58.71	10
60.53	10.54	60.83	10.63	61.25	10.75	61.31	10.77	62.22	11
62.41	11.07	63.91	11.84	64.19	11.98	64.22	12	64.42	12.06
64.48	12.08	64.54	12.1	64.72	12.17	65.54	12.44	67.19	13
67.21	13	67.27	13	67.34	13	67.38	13	67.44	13
67.46	13	67.51	13	67.52	13	67.58	13	67.62	13
67.64	13	67.69	13	67.73	13	67.75	13	84.34	13.72
84.58	13.73	84.64	13.73	84.79	13.74	84.91	13.74	85.03	13.75
85.15	13.75	87.84	13.85	87.92	13.85	87.99	13.86	88.06	13.86
89.61	13.94	90.81	13.98	90.84	13.98	92.06	14	92.13	14
93.56	14	93.58	14	93.59	14	94.45	14	95.82	14
96.92	14	97.26	14	97.45	14	97.5	14	97.83	14
98.05	14	98.38	14	98.68	14	98.93	14	99.02	14
99.28	14	100.9	14	101.17	14	101.46	14	101.59	14
101.9	14	102.01	14	102.5	14	103.64	14	104.14	14
104.71	14	104.84	14	105.47	14	105.67	14	105.87	14
106.53	14	106.6	14	106.77	14	107.15	14	107.26	14
107.66	14	108.09	14	108.2	14	108.64	14	109.1	14
109.12	14	109.16	14	109.64	14	109.68	14	110.18	14
110.2	14	110.49	14	110.78	14	111.05	14	111.16	14
111.29	14	111.63	14.01	112.33	14.05	112.57	14.05	112.83	14.06
113.1	14.07	113.37	14.09	113.55	14.1	118.61	14.38	130.96	15
131.36	15	131.66	15	132.05	15.05	132.06	15.06	132.14	15.06
133.35	15.22	133.83	15.29	134.35	15.33	135.62	15.45	138.25	15.75
141.32	16	142.27	16.16	142.31	16.17	142.34	16.17	142.39	16.18
142.77	16.24	142.84	16.26	142.99	16.28	143.17	16.32	143.39	16.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	53.66	.045	57.79	.06

Bank Sta: Left 53.66, Right 57.79 — Lengths: Left 11.23, Channel 11.33, Right 10.52 — Coeff Contr. .1, Expan. .3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	40	12.6	T
65	143.39	12.6	T

Blocked Obstructions num= 1

Sta L	Sta R	Elev
17.25	33.5	17

CROSS SECTION

RIVER: innominado
REACH: superior RS: 42.856

INPUT
Description:
Station Elevation Data num= 195

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13	3.24	13	7.99	12.97	13.63	12.6	16.27	12.6
24.82	12.6	26.13	12.6	26.96	12.61	26.99	12.6	27.06	12.6
30.61	12.51	49.24	12.02	49.25	12	49.44	12	49.67	11.98
51.34	11.92	51.4	11.9	51.6	11.88	54.17	11.74	54.37	11.7
54.99	11.58	56.17	11.43	57.2	11.16	57.33	11.16	57.84	11
58.24	10.83	58.28	10	58.65	9.7	59.1	9.23	60.77	9.23
61.27	9.23	61.6	9.58	62.32	9.93	62.39	10	62.42	10
62.47	10	62.48	10.22	62.61	10.29	62.88	10.83	62.92	10.86
63.84	11	64.21	11.07	64.38	11.08	64.42	11.08	66.68	11.38
67.07	11.45	67.75	11.66	68.88	12	69.21	12.05	69.24	12.06
69.26	12.06	70.23	12.25	70.31	12.26	70.41	12.27	70.85	12.37
70.98	12.39	71.12	12.4	71.26	12.41	71.77	12.51	71.82	12.51
72.01	12.52	72.22	12.53	72.43	12.54	72.96	12.66	73.21	12.67
73.46	12.67	73.72	12.68	73.81	12.68	74.06	12.73	74.45	12.74
74.58	12.77	74.99	12.77	75.41	12.78	76.48	13	76.56	13
76.93	13	77	13	77.09	13	77.44	13	77.48	13
77.56	13	77.77	13	77.86	13	78.05	13	78.12	13
78.31	13	78.36	13	78.42	13	78.6	13	78.66	13
78.73	13	78.89	13	78.96	13	79.1	13	79.18	13
79.29	13	79.37	13	79.39	13	79.44	13	79.47	13
79.51	13	79.55	13.01	79.57	13.01	79.64	13.02	83.96	13.23
89.45	13.5	98.5	13.86	98.51	13.86	98.99	13.87	99.56	13.88
99.82	13.88	99.9	13.88	99.97	13.88	100.05	13.88	100.12	13.88
100.2	13.88	100.28	13.88	100.32	13.88	100.36	13.88	100.41	13.88
100.45	13.88	100.5	13.88	100.54	13.89	100.59	13.89	100.64	13.89
100.68	13.89	100.73	13.89	100.74	13.89	100.97	13.89	105.23	14.02
105.41	14.01	105.6	14.01	105.79	14.01	105.84	14.01	107.12	14.01
110.42	14	111	14	111.05	14	112.96	14	113.16	14.01
115.41	14.12	120	14.27	130.19	14.83	133.71	14.9	134.98	14.96
135.87	15	136.54	15	136.57	15	136.62	15	136.66	15
136.7	15	138.01	15	138.07	15	138.14	15	138.21	15
139.02	15	139.1	15	139.17	15	139.22	15	139.27	15
139.32	15	139.37	15	139.42	15	139.47	15	139.52	15
140.4	15	141.09	15	141.12	15	145.49	15.52	145.54	15.53
145.56	15.53	145.58	15.53	145.63	15.54	150.54	15.93	150.55	15.93
151.29	16	151.36	16.01	151.79	16.08	152.04	16.1	152.57	16.17
152.9	16.21	153.19	16.25	153.46	16.29	153.71	16.32	153.94	16.35
154.15	16.37	155.42	16.48	155.64	16.51	155.85	16.53	156.03	16.55
159.89	16.98	159.9	16.98	159.91	16.98	159.92	16.98	159.99	16.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	58.28	.045	62.39	.06

Bank Sta: Left 58.28, Right 62.39 — Lengths: Left 17.7, Channel 17.07, Right 17.17 — Coeff Contr. .3, Expan. .5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	58.25	12.6	T
62.5	159.99	12.6	T

Left Levee Station= 49.25 Elevation= 12.5

CULVERT

RIVER: innominado
REACH: superior RS: 35

INPUT
Description: PASO SOBRE CALLE BATALLA DEL SALADO
Distance from Upstream XS = 3.01
Deck/Roadway Width = 12.99
Weir Coefficient = 1.44
Upstream Deck/Roadway Coordinates
num= 3
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
30.61 12.51 9 64 12.7 9 76.48 13 9

Upstream Bridge Cross Section Data
Station Elevation Data num= 195

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13	3.24	13	7.99	12.97	13.63	12.6	16.27	12.6
24.82	12.6	26.13	12.6	26.96	12.61	26.99	12.6	27.06	12.6
30.61	12.51	49.24	12.02	49.25	12	49.44	12	49.67	11.98
51.34	11.92	51.4	11.9	51.6	11.88	54.17	11.74	54.37	11.7
54.99	11.58	56.17	11.43	57.2	11.16	57.33	11.16	57.84	11
58.24	10.83	58.28	10	58.65	9.7	59.1	9.23	60.77	9.23
61.27	9.23	61.6	9.58	62.32	9.93	62.39	10	62.42	10
62.47	10	62.48	10.22	62.61	10.29	62.88	10.83	62.92	10.86
63.84	11	64.21	11.07	64.38	11.08	64.42	11.08	66.68	11.38
67.07	11.45	67.75	11.66	68.88	12	69.21	12.05	69.24	12.09
69.26	12.06	70.23	12.25	70.31	12.26	70.41	12.27	70.85	12.37
70.98	12.39	71.12	12.4	71.26	12.41	71.77	12.51	71.82	12.51
72.01	12.52	72.22	12.53	72.43	12.54	72.96	12.66	73.21	12.69
73.46	12.67	73.72	12.68	73.81	12.68	74.06	12.73	74.45	12.74
74.58	12.77	74.99	12.77	75.41	12.78	76.48	13	76.56	13
76.93	13	77	13	77.09	13	77.44	13	77.48	13
77.56	13	77.77	13	77.86	13	78.05	13	78.12	13
78.31	13	78.36	13	78.42	13	78.6	13	78.66	13
78.73	13	78.89	13	78.96	13	79.1	13	79.18	13
79.29	13	79.37	13	79.39	13	79.44	13	79.47	13
79.51	13	79.55	13.01	79.57	13.01	79.64	13.02	83.96	13.23
89.45	13.5	98.5	13.86	98.51	13.86	98.99	13.87	99.56	13.88
99.82	13.88	99.9	13.88	99.97	13.88	100.05	13.88	100.12	13.88
100.2	13.88	100.28	13.88	100.32	13.88	100.36	13.88	100.41	13.88
100.45	13.88	100.5	13.88	100.54	13.89	100.59	13.89	100.64	13.89
100.68	13.89	100.73	13.89	100.74	13.89	100.97	13.89	105.23	14.02
105.41	14.01	105.6	14.01	105.79	14.01	105.84	14.01	107.12	14.01
110.42	14	111	14	111.05	14	112.96	14	113.16	14.01
115.41	14.12	120	14.27	130.19	14.83	133.71	14.9	134.98	14.96
135.87	15	136.54	15	136.57	15	136.62	15	136.66	15
136.7	15	138.01	15	138.07	15	138.14	15	138.21	15
139.02	15	139.1	15	139.17	15	139.22	15	139.27	15
139.32	15	139.37	15	139.42	15	139.47	15	139.52	15
140.4	15	141.09	15	141.12	15	145.49	15.52	145.54	15.53
145.56	15.53	145.58	15.53	145.63	15.54	150.54	15.93	150.55	15.93
151.29	16	151.36	16.01	151.79	16.08	152.04	16.1	152.57	16.17
152.9	16.21	153.19	16.25	153.46	16.29	153.71	16.32	153.94	16.35
154.15	16.37	155.42	16.48	155.64	16.51	155.85	16.53	156.03	16.55
159.89	16.98	159.9	16.98	159.91	16.98	159.92	16.98	159.99	16.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	58.28	.045	62.39	.06

Bank Sta: Left Right Coeff Contr. Expan.
58.28 62.39 .3 .5
Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	58.25	12.6	T
62.5	159.99	12.6	T

Left Levee Station= 49.25 Elevation= 12.5

Downstream Deck/Roadway Coordinates
num= 2
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
40.92 12.28 8 48.08 12.44 8

Downstream Bridge Cross Section Data
Station Elevation Data num= 80

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	12.21	3.73	12.17	5.33	12.13	5.39	12.12	6.05	12.08
7.42	12	8.34	12.03	9.95	12.05	13.54	12	19.96	12
24.98	11.92	25.47	11.92	28.8	12	29.63	12.04	31.48	12.13
37.86	12.21	40.92	12.28	42.2	8.92	42.63	8.9	46.59	8.9
47.3	8.92	48.08	12.44	50.8	12.58	53.55	12.69	54.93	12.74
58.2	12.85	61.48	12.95	62.52	12.99	62.7	12.99	62.8	12.99
62.9	12.99	63.78	13	65.79	13	67.94	13	68.68	13.03
71.19	13.06	76.03	13.13	78.65	13.23	79.26	13.24	82.23	13.35
82.58	13.37	82.82	13.42	88.63	13.54	94.13	13.89	94.55	13.9
94.81	13.9	97.89	13.96	99.95	14	100.18	14	101.24	14.01
102.78	14.01	104.72	14.07	107.33	14.09	107.68	14.09	113.09	14.25
113.37	14.27	116.24	14.54	116.45	14.56	116.65	14.56	116.72	14.57
117.05	14.58	117.41	14.59	117.79	14.59	124.12	14.78	124.62	14.78
126.42	14.78	128.48	14.83	130.76	14.83	138.54	15	138.67	15
139.57	15	139.8	15.01	142.54	15.01	144.28	15.05	147.01	15.07
148.54	15.07	150.9	15.14	153.1	15.15	154.92	15.17	157.4	15.23

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	40.92	.045	48.08	.06

Bank Sta: Left Right Coeff Contr. Expan.
40.92 48.08 .1 .3

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Culverts = 1

Culvert Name	Shape	Rise	Span
PASO 1	Conspan Arch	1.7	2

FHWA chart # 60- Span/Rise ratio approximate 2:1
FHWA Scale # 1 - 0 degree wing wall angle
Solution Criteria = Highest U.S. EG

Culvert Upstrn Dist	Length	Top n	Botton n	Depth Blocked	Entrance Loss Coef	Exit Loss Coef
3.01	12.99	.015	.015	0	.5	1

Upstream Elevation = 9.2
Centerline Station = 60.27
Downstream Elevation = 8.94
Centerline Station = 44.63

CROSS SECTION

RIVER: innominado
REACH: superior RS: 25.786

INPUT
Description:
Station Elevation Data num= 80

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	12.21	3.73	12.17	5.33	12.13	5.39	12.12	6.05	12.08
7.42	12	8.34	12.03	9.95	12.05	13.54	12	19.96	12
24.98	11.92	25.47	11.92	28.8	12	29.63	12.04	31.48	12.13
37.86	12.21	40.92	12.28	42.2	8.92	42.63	8.9	46.59	8.9

47.3	8.92	48.08	12.44	50.8	12.58	53.55	12.69	54.93	12.74
58.2	12.85	61.48	12.95	62.52	12.99	62.7	12.99	62.8	12.99
62.9	12.99	63.78	13	65.79	13	67.94	13	68.68	13.03
71.19	13.06	76.03	13.13	78.65	13.23	79.26	13.24	82.23	13.35
82.58	13.37	82.82	13.42	88.63	13.54	94.13	13.89	94.55	13.9
94.81	13.9	97.89	13.96	99.95	14	100.18	14	101.24	14.01
102.78	14.01	104.72	14.07	107.33	14.09	107.68	14.09	113.09	14.25
113.37	14.27	116.24	14.54	116.45	14.56	116.65	14.56	116.72	14.57
117.05	14.58	117.41	14.59	117.79	14.59	124.12	14.78	124.62	14.78
126.42	14.78	128.48	14.83	130.76	14.83	138.54	15	138.67	15
139.57	15	139.8	15.01	142.54	15.01	144.28	15.05	147.01	15.07
148.54	15.07	150.9	15.14	153.1	15.15	154.92	15.17	157.4	15.23

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	40.92	.045	48.08	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
40.92 48.08 21.34 25.79 25.83 .1 .3

SUMMARY OF MANNING'S N VALUES

River:innominado

Reach	River Sta.	n1	n2	n3
superior	732.439	.045	.035	.045
superior	697.415	.045	.035	.045
superior	656.082	.045	.035	.045
superior	616.672	.045	.035	.045
superior	576.256	.045	.035	.045
superior	554.557	.045	.035	.045
superior	535.806	.045	.035	.045
superior	514.322	.045	.035	.045
superior	497.047	.045	.035	.045
superior	475.941	.045	.035	.045
superior	456.031	.045	.035	.045
superior	435.143	.045	.035	.045
superior	417.714	.045	.035	.045
superior	395.035	.045	.035	.045
superior	374.659	.05	.4	.05
superior	354.377	.05	.4	.05
superior	334.743	.05	.4	.05
superior	315.248	.05	.4	.05
superior	295.581	.05	.4	.05
superior	274.643	.05	.4	.05
superior	254.479	.05	.4	.05
superior	235.222	.05	.4	.05
superior	215.711	.05	.4	.05
superior	195.639	.05	.4	.05
superior	175.516	.05	.4	.05
superior	154.810	.05	.4	.05
superior	135.098	.05	.4	.05
superior	114.780	.05	.4	.05
superior	94.778	.06	.045	.06
superior	74.522	.06	.045	.06
superior	54.184	.06	.045	.06
superior	42.856	.06	.045	.06
superior	35	Culvert		
superior	25.786	.06	.045	.06

SUMMARY OF REACH LENGTHS

River: innominado

Reach	River Sta.	Left	Channel	Right
superior	732.439	33.55	35.02	35.8
superior	697.415	43.5	41.33	39.58
superior	656.082	38.68	39.41	39.77
superior	616.672	39.17	40.42	41.41
superior	576.256	21.69	21.7	21.6
superior	554.557	19.68	18.75	17.72
superior	535.806	22.16	21.49	20.54
superior	514.322	16.62	17.27	17.85
superior	497.047	20.87	21.11	21.29
superior	475.941	19.08	19.91	20.58
superior	456.031	20.23	20.89	21.24
superior	435.143	16.92	17.43	17.97
superior	417.714	22.31	22.68	22.96
superior	395.035	20.09	20.38	20.67
superior	374.659	20.2	20.28	20.33
superior	354.377	19.41	19.64	19.79
superior	334.743	19.59	19.5	18.97
superior	315.248	19.95	19.67	19.29
superior	295.581	22.27	20.94	19.08
superior	274.643	21.17	20.16	19.06
superior	254.479	18.9	19.26	19.61
superior	235.222	19.18	19.51	19.78
superior	215.711	19.5	20.07	20.4
superior	195.639	19.99	20.12	20.05
superior	175.516	20.08	20.71	21.68
superior	154.810	19.6	19.71	19.58
superior	135.098	20.4	20.32	20.28
superior	114.780	20.37	20	19.67
superior	94.778	20.77	20.26	19.78
superior	74.522	18.75	20.34	21.33
superior	54.184	11.23	11.33	10.52
superior	42.856	17.7	17.07	17.17
superior	35	Culvert		
superior	25.786	21.34	25.79	25.83

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: innominado

Reach	River Sta.	Contr.	Expan.
superior	732.439	.1	.3
superior	697.415	.1	.3
superior	656.082	.1	.3
superior	616.672	.1	.3
superior	576.256	.1	.3
superior	554.557	.1	.3
superior	535.806	.1	.3
superior	514.322	.1	.3
superior	497.047	.1	.3
superior	475.941	.1	.3
superior	456.031	.1	.3
superior	435.143	.1	.3
superior	417.714	.1	.3
superior	395.035	.1	.3
superior	374.659	.1	.3
superior	354.377	.1	.3
superior	334.743	.1	.3
superior	315.248	.1	.3
superior	295.581	.1	.3
superior	274.643	.1	.3
superior	254.479	.1	.3
superior	235.222	.1	.3
superior	215.711	.1	.3
superior	195.639	.1	.3

			tarifa
superior	175.516	.1	.3
superior	154.810	.1	.3
superior	135.098	.1	.3
superior	114.780	.1	.3
superior	94.778	.1	.3
superior	74.522	.1	.3
superior	54.184	.1	.3
superior	42.856	.3	.5
superior	35	Culvert	
superior	25.786	.1	.3

DILIGENCIA - aprobado inicialmente por el Excmo. Ayuntamiento de Tarifa en sesión celebrada el día 27 SET. 2016 (Artículo 128,5 del Reglamento de Planeamiento Urbanístico).

EL SECRETARIO DEL AYUNTAMIENTO

EXCMO. AYUNTAMIENTO DE TARIFA

SALIDA DE INFORME DE CÁLCULO DEL PROGRAMA HEC-RAS 3.1.3

ESCENARIO ESTADO FUTURO CON TRASVASE

```
                HEC-RAS Version 3.1.3 May 2005
              U.S. Army Corp of Engineers
              Hydrologic Engineering Center
                   609 Second Street
                   Davis, California

    X   X XXXXXX  XXXX      XXXX     XX    XXXX
    X   X X      X    X     X  X    X  X   X
    X   X X      X          X  X   X    X  X
    XXXXXX XXXX  X      XXX XXXX   XXXXXX  XXXX
    X   X X      X          X  X   X    X      X
    X   X X      X    X     X  X   X    X      X
    X   X XXXXXX  XXXX      X  X   X    X  XXXX
```



```
PROJECT DATA
Project Title: tarifa
Project File : tarifa.prj
Run Date and Time: 25/02/2016 17:57:18

Project in SI units


PLAN DATA

Plan Title: Plan 10
Plan File : C:\TARIFA2\tarifa.p10

          Geometry Title: tarifa
          Geometry File : C:\TARIFA2\tarifa.g03

          Flow Title    : tarifa
          Flow File     : C:\TARIFA2\tarifa.f03

Plan Summary Information:
Number of:  Cross Sections =   35    Multiple Openings  =    0
            Culverts       =    1    Inline Structures  =    0
            Bridges        =    0    Lateral Structures =    0

Computational Information
    Water surface calculation tolerance  =  0.003
    Critical depth calculation tolerance =  0.003
    Maximum number of iterations         =  20
    Maximum difference tolerance         =  0.1
    Flow tolerance factor                =  0.001

Computation Options
    Critical depth computed only where necessary
    Conveyance Calculation Method: At breaks in n values only
    Friction Slope Method:         Average Conveyance
    Computational Flow Regime:     Mixed Flow


FLOW DATA

Flow Title: tarifa
Flow File : C:\TARIFA2\tarifa.f03

Flow Data (m3/s)

  River          Reach          RS              10 AÑOS        50 AÑOS        100 AÑOS       500 AÑOS
  innominado     superior       732.439           7.48          10.05          11.13          14.68
  innominado     superior       235.222          12.75          18.57          20.56          27.1

Boundary Conditions

  River          Reach          Profile                  Upstream          Downstream

  innominado     superior       10 AÑOS                  Critical          Normal S = 0.02
  innominado     superior       50 AÑOS                  Critical          Normal S = 0.02
  innominado     superior       100 AÑOS                 Critical          Normal S = 0.02
  innominado     superior       500 AÑOS                 Critical          Normal S = 0.02


GEOMETRY DATA

Geometry Title: tarifa
Geometry File : C:\TARIFA2\tarifa.g03

CROSS SECTION


RIVER: innominado
REACH: superior          RS: 732.439

INPUT
Description:
Station Elevation Data    num=    109
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0   38.76     .36   38.69    2.26   38.37    4.38      38    5.76    37.8
    6.48   37.74    7.34   37.64    8.01   37.57    8.02   37.57    8.58   37.51
    9.09   37.48   10.52   37.37   10.97   37.33   12.02   37.24   12.68   37.19
   13.46   37.12    13.8   37.09   14.52   37.03   14.78   37.01   14.88      37
   15.15   36.98   15.48   36.96   15.79   36.94    16.1   36.91   16.25    36.9
   16.53   36.89   16.74   36.87   16.88   36.86   17.32   36.84   17.48   36.83
   17.55   36.82   18.09   36.78   19.57   36.67   20.61   36.62   20.78    36.6
   20.82    36.6   20.98   36.59   21.58   36.55    21.7   36.54   21.86   36.53
   21.99   36.52   22.15   36.51   22.28    36.5   22.43   36.49   22.57   36.48
   22.71   36.47   22.72   36.47   22.87   36.46   23.11   36.44   23.26   36.44
   23.49   36.42   23.64   36.41   23.85    36.4    23.9   36.39   24.09   36.38
   24.24   36.37   24.43   36.36   25.12   36.32    25.3   36.31   25.49   36.29
   25.82   36.28   25.95   36.27   26.17   36.26   26.41   36.24   26.64   36.23
   26.89   36.21   26.98    36.2   28.63   36.08   28.79   36.08   29.66      36
   29.72   35.99   31.73   35.81   32.56   35.72   33.55   35.63   33.89    35.6
    34.2   35.57   34.48   35.55   34.69   35.53   34.83   35.52   34.95   35.51
   35.08    35.5   35.19   35.49   35.31   35.48   35.33   35.47   35.44   35.47
    36.5   35.35    37.8   35.12   38.72   35.12   38.95   35.12    39.7   35.12
   40.86   35.34   41.43   35.41    42.2   35.49   46.16   35.94   46.41   35.97
   46.65      36   51.56   36.63   53.74      37    53.8   37.02   57.25      38
   59.76   38.49   62.11      39    65.8   39.71   67.34      40   69.19   40.59
   70.58      41   71.67   41.24   74.96      42    76.5   42.39

Manning's n Values        num=    3
     Sta   n Val     Sta   n Val     Sta   n Val
       0    .045    36.5    .035   40.86    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          36.5   40.86                33.55   35.02    35.8          .1      .3

CROSS SECTION


RIVER: innominado
REACH: superior          RS: 697.415

INPUT
Description:
Station Elevation Data    num=     66
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0   36.72     .14    36.7    3.43      36     6.1   35.75    6.18   35.75
```



```
   14.56      35   15.18   34.94   15.48   34.92   15.55   34.91   15.88   34.88
   16.76   34.81   16.98   34.79   17.78   34.72   18.11    34.7   18.82   34.64
   19.25   34.61   20.36   34.52   20.59    34.5   20.85   34.48   21.49   34.43
   25.25   34.12   25.69   34.08   25.71   34.08   25.74   34.08   25.75   34.08
   25.79   34.07   25.83   34.07   25.86   34.07    25.9   34.06   25.93   34.06
   26.09   34.05    26.6      34   27.74   33.79    27.9   33.76   28.04   33.73
   28.17   33.71    28.3   33.69   28.48   33.66   28.72   33.62   28.93   33.58
   29.11   33.55   30.09    33.4   30.77   33.37   30.78   33.37   32.75   33.11
   33.12   33.12   34.78   33.25   36.24   33.36   37.59   33.45   38.66   33.55
   43.69      34   43.71      34   47.99   34.52   50.13   34.77   51.99      35
   55.54   35.47   58.26   35.85   58.96   35.94   59.31      36    61.7   36.34
   66.08      37   66.84   37.12   69.17   37.49   72.31      38   74.99   38.49
   76.33   38.73

Manning's n Values        num=    3
     Sta   n Val     Sta   n Val     Sta   n Val
       0    .045   30.77    .035   34.78    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          30.77  34.78                43.5    41.33   39.58          .1      .3

CROSS SECTION


RIVER: innominado
REACH: superior          RS: 656.082

INPUT
Description:
Station Elevation Data    num=    127
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0   34.42     .21   34.39     .33   34.37     .43   34.36     .75   34.31
     .84    34.3    1.19   34.25    1.26   34.24    1.33   34.23    1.71   34.18
    1.76   34.17    2.04   34.13    2.08   34.13     2.1   34.12    2.12   34.12
    2.14   34.12    2.95      34    4.15   33.83    4.31    33.8    4.47   33.78
    4.62   33.75    4.84   33.72       5    33.7    5.02    33.7     5.1   33.69
    5.18   33.67    5.25   33.65    5.33   33.65     5.4   33.64    5.62   33.61
    6.15   33.54    7.17   33.41    7.33   33.39    7.97   33.29    8.27   33.25
    8.52   33.22    8.81   33.17    9.14   33.12    9.51   33.06    9.52   33.06
    9.91      33    9.93      33    9.98   32.99   10.14   32.97   10.29   32.95
   10.43   32.93   10.57   32.92   10.71    32.9   10.84   32.88   10.96   32.87
   10.98   32.87    11.1   32.85   11.23   32.84   11.34   32.82   11.39   32.82
   11.48   32.81   11.58    32.8   11.66   32.79   11.95   32.78   12.04   32.76
   12.13   32.76   12.27   32.74   12.47   32.73      13   32.67   13.05   32.67
   13.19   32.66   13.35   32.64   13.66   32.62   13.92   32.59   14.73   32.51
    15.1   32.47   15.68   32.42   15.88   32.41   17.15   32.29    17.3   32.28
   17.44   32.27   17.57   32.26   19.24   32.11   19.46   32.09   19.99   32.04
   20.42      32   20.57   31.99   21.15   31.94   21.63    31.9   25.86    31.5
   27.27   31.33   28.79   31.22   28.87   31.21   28.98    31.2   29.08   31.19
   29.12   31.19   29.24   31.18   29.35   31.17   29.37   31.17   29.43   31.16
   29.49   31.16   29.54   31.15   29.59   31.15   29.64   31.15   29.76   31.14
    29.9   31.12   30.02   31.12   30.15   31.11   31.05      31   31.69   30.95
   33.42   30.82   33.72   30.82    34.7   30.86   35.83    30.9   36.44   30.93
   37.87      31   40.63   31.28    44.8   31.76    46.5   31.95   46.91      32
   47.15   32.04   53.62      33   59.64   33.88   60.49      34   61.72   34.17
   67.75      35   70.39   35.47   73.28      36   78.06    36.9   78.51      37
   78.99   37.14   80.93    37.7

Manning's n Values        num=    3
     Sta   n Val     Sta   n Val     Sta   n Val
       0    .045   31.69    .035   35.83    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          31.69  35.83                38.68   39.41   39.77          .1      .3

CROSS SECTION


RIVER: innominado
REACH: superior          RS: 616.672

INPUT
Description:
Station Elevation Data    num=    126
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0   31.87     .25   31.85     .27   31.85     .51   31.83     .74   31.81
     .76   31.81     .98   31.79    1.19   31.77    1.23   31.77    1.25   31.77
    1.29   31.77    1.51   31.75    1.55   31.74    1.59   31.74    1.81   31.72
    1.85   31.72    2.06    31.7    2.11    31.7    2.16   31.69    2.36   31.67
    2.37   31.67    2.46   31.67    2.65   31.65    2.74   31.64    2.81   31.64
    2.89   31.63    2.98   31.62    3.05   31.61    3.15   31.61    3.22    31.6
     3.3   31.59     3.4   31.59    3.47   31.58    3.54   31.57    3.64   31.57
    3.71   31.56    3.78   31.55    3.85   31.55    3.92   31.55    3.99   31.54
    4.18   31.52    4.26   31.51    4.34   31.51    4.42    31.5     4.5    31.5
    4.57   31.49    4.64   31.49     4.7   31.48    4.77   31.47    4.85   31.47
    4.96   31.46    5.09   31.45    5.23   31.43    5.62   31.39    5.76   31.37
    6.28   31.32    7.03   31.24    7.16   31.22    7.18   31.22    8.56   31.04
    8.61   31.04     8.9      31   10.35   30.79   10.43   30.78    11.6   30.62
    11.7    30.6   11.82   30.58   12.13   30.54    12.9   30.43   13.49   30.35
   13.87    30.3   14.29   30.24   14.92   30.16   15.69   30.06   15.73   30.05
   16.16      30   16.44   29.99   16.93   29.96   17.51   29.93    17.6   29.93
   18.13    29.9   18.37   29.89   18.93   29.87   19.02   29.86   19.09   29.86
   19.19   29.85   21.88   29.74   22.04   29.73   22.08   29.73   22.23   29.73
   22.39   29.72   22.55   29.71   24.38   29.62    27.7   29.42   31.27   29.26
   35.24      29   36.67   28.95   40.57   28.94    41.3   28.93   42.22   28.92
   42.81   28.92   43.22   28.93   43.33   28.93   43.83   28.94   44.51   28.95
   45.36   28.96   45.96   28.98   47.03      29   48.38   29.15   49.96   29.39
   51.79   29.64   52.71   29.78   53.94      30    56.2   30.42   59.43      31
   63.15    31.7   64.69      32   65.36   32.15   69.41      33   71.52    33.5
   73.59      34    76.1   34.56   77.64      35   79.61   35.49   81.67      36
   82.22   36.15

Manning's n Values        num=    3
     Sta   n Val     Sta   n Val     Sta   n Val
       0    .045   40.57    .035   43.83    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          40.57  43.83                39.17   40.42   41.41          .1      .3

CROSS SECTION


RIVER: innominado
REACH: superior          RS: 576.256

INPUT
Description:
Station Elevation Data    num=     45
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0   31.81    1.49   31.54    4.47      31    9.49   30.03    9.97      30
   12.08   29.62   15.06   29.08   15.47      29   28.88   28.05   29.58      28
   29.61      28   30.39   27.94   30.85    27.9   31.26   27.87   31.64   27.84
   31.73   27.83   31.97   27.82    32.2    27.8   32.42   27.78    32.6   27.77
   32.75   27.76    32.9   27.75   33.04   27.74   33.18   27.73   33.31   27.72
   33.44   27.71   33.85   27.69   34.22   27.66   34.55   27.64   37.19   27.53
   39.05   27.46   40.97   27.53    46.2   27.71   53.37      28   56.08   28.24
   62.57      29   66.52   29.89   67.05      30   67.56   30.12    71.5      31
   76.38   31.79   77.67      32   78.71   32.18   79.87   32.38   81.57   32.68

Manning's n Values        num=    3
     Sta   n Val     Sta   n Val     Sta   n Val
       0    .045   37.19    .035   40.97    .045

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          37.19  40.97                21.69   21.7    21.6          .1      .3

CROSS SECTION


RIVER: innominado
```

REACH: superior RS: 554.557

INPUT
Description:
Station Elevation Data num= 85

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	31.61	1.54	31.35	2.73	31.13	2.98	31.09	3.5	31
6.76	30.45	6.93	30.42	7.11	30.38	7.33	30.34	8.36	30.16
8.66	30.11	9.29	30	10.78	29.75	11.95	29.55	12.06	29.53
12.3	29.49	12.6	29.43	13.27	29.32	13.31	29.31	13.4	29.29
13.5	29.28	13.61	29.26	13.72	29.24	14.21	29.15	14.52	29.09
15.08	29	15.1	29	15.93	28.89	16.12	28.87	16.85	28.77
17.04	28.75	17.24	28.72	18.09	28.62	18.32	28.58	18.42	28.57
18.95	28.5	19.01	28.49	19.59	28.42	20	28.37	20.32	28.33
20.55	28.3	20.8	28.27	21	28.24	21.28	28.21	22.78	28.03
22.82	28.03	22.86	28.02	23.09	28	23.12	28	23.78	27.94
24.77	27.86	24.93	27.84	24.99	27.84	25.74	27.77	26.75	27.67
27.54	27.6	28.24	27.53	29	27.46	29.9	27.38	34.08	27
34.16	26.99	35.27	26.91	36.39	26.81	38.39	26.63	40.39	26.71
44.79	26.86	45.47	26.89	46.24	26.92	46.65	26.93	48.65	27
50.59	27.09	51.61	27.14	53.16	27.25	54.26	27.34	56.85	27.5
62	28	64.26	28.4	68.04	29	72.31	29.73	74.05	30
75.85	30.38	78.68	31	80.05	31.22	84.19	32	85.24	32.22

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	36.39	.035	40.39	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
36.39 40.39 19.68 18.75 17.72 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 535.806

INPUT
Description:
Station Elevation Data num= 119

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	30.09	.63	30	3.75	29.59	4.13	29.55	5.27	29.41
5.38	29.39	5.6	29.36	5.84	29.33	6.11	29.29	6.41	29.25
6.74	29.2	6.87	29.18	7.16	29.14	7.47	29.1	7.82	29.05
8.17	29	8.2	28.99	8.56	28.93	8.88	28.88	9.03	28.85
9.29	28.81	9.53	28.77	9.75	28.73	9.95	28.7	10.13	28.67
10.3	28.64	10.42	28.62	10.61	28.59	10.79	28.56	10.95	28.53
13.87	28	15.79	27.8	16.13	27.77	17.17	27.67	17.67	27.63
17.69	27.62	18.54	27.55	18.95	27.51	19.62	27.46	20.09	27.42
20.62	27.37	21.45	27.3	21.54	27.3	22.14	27.25	22.43	27.22
22.52	27.22	22.58	27.21	22.8	27.19	22.89	27.19	24.72	27.05
24.8	27.05	24.81	27.05	25.57	27	25.79	26.99	25.84	26.99
28.79	26.81	29.95	26.71	30.73	26.65	31.33	26.61	31.85	26.57
32.31	26.53	32.92	26.48	33.19	26.46	33.2	26.45	33.77	26.41
34.1	26.38	34.76	26.33	34.81	26.32	35.58	26.26	37.49	26.07
38.14	26	38.38	26	38.41	26	38.43	26	38.45	26
38.46	26	38.51	26	38.55	26	38.98	25.94	39.42	25.87
40.31	25.99	40.39	26	40.44	26	40.49	26	40.6	26
41.39	26.04	43.19	26.14	47.9	26.35	47.92	26.35	47.93	26.35
47.94	26.35	47.95	26.35	47.96	26.35	50.94	26.51	53.7	26.64
54.46	26.67	54.63	26.67	54.79	26.68	54.95	26.69	55.1	26.69
59.62	26.95	59.65	26.95	59.67	26.95	59.71	26.95	59.74	26.95
59.88	26.96	59.94	26.96	60.63	27	61.43	27.13	64.99	28
65.43	28.07	70.66	29	73.23	29.48	75.72	30	79.67	30.87
80.23	31	81.09	31.17	82.56	31.47	83.05	31.57		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	37.49	.035	41.39	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
37.49 41.39 22.16 21.49 20.54 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 514.322

INPUT
Description:
Station Elevation Data num= 186

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	27	.39	27	.86	27	5.09	27	5.45	27
5.49	27	5.69	27	6.85	27	7.05	27	8.45	27
8.73	27	8.86	27	9.16	27	10.51	27	11.16	27
11.32	27	11.36	27	11.39	27	11.55	27	11.58	27
11.62	27	11.66	27	11.8	27	11.83	27	11.86	27
11.99	27	12.12	27	12.25	27	12.37	27	13.24	27
16.84	27	16.97	27	17.12	27	17.28	27	17.46	27
18.89	27	18.9	27	18.91	27	18.94	27	18.95	27
18.99	27	19	27	19.04	27	19.05	27	20.4	27.7
20.42	27.7	20.46	27.7	20.5	27.7	20.54	27.7	20.57	27.7
20.6	27.7	20.63	27.7	20.66	27.7	20.7	27.71	20.72	27.71
20.76	27.71	21.15	27.73	21.19	27.73	21.24	27.74	21.28	27.74
21.33	27.74	21.77	27.75	21.81	27.75	21.82	27.76	21.86	27.76
21.89	27.76	21.92	27.76	22.37	27.77	22.4	27.78	22.43	27.78
22.46	27.78	22.49	27.78	22.51	27.78	22.83	27.75	22.86	27.75
22.89	27.74	22.94	27.73	22.99	27.72	23.04	27.71	23.09	27.7
23.14	27.69	23.2	27.67	23.22	27.67	23.28	27.66	23.3	27.65
23.31	27.65	23.33	27.65	23.4	27.63	23.41	27.63	23.43	27.62
23.44	27.62	23.49	27.61	23.51	27.61	23.52	27.6	23.54	27.6
23.55	27.59	23.82	27.54	23.84	27.54	23.87	27.53	23.89	27.53
23.92	27.53	23.94	27.52	23.97	27.52	24.13	27.5	24.63	27.38
24.75	27.36	24.87	27.35	24.9	27.34	25.07	27.31	25.33	27.28
25.49	27.24	25.66	27.2	25.67	27.2	25.69	27.2	25.75	27.18
25.78	27.18	25.84	27.17	25.91	27.16	25.94	27.15	26	27.14
26.06	27.13	26.09	27.12	26.14	27.11	26.22	27.1	26.3	27.08
26.32	27.08	26.4	27.06	26.42	27.06	26.54	27.04	26.67	27.02
26.77	27	26.8	27	26.85	26.99	27.35	26.94	27.39	26.94
27.49	26.93	27.6	26.93	27.8	26.88	27.92	26.87	28.03	26.85
28.14	26.84	28.25	26.83	28.36	26.81	28.41	26.81	28.47	26.8
28.54	26.79	28.61	26.78	28.67	26.77	28.69	26.76	28.75	26.75
28.81	26.74	28.83	26.74	28.84	26.74	28.91	26.72	28.92	26.72
28.98	26.72	29.06	26.69	29.45	26.6	29.46	26.6	29.53	26.57
30.7	26	34.68	25.39	34.74	25.39	37.78	25	39.29	24.94
39.62	24.92	41.4	24.85	41.98	24.89	43.09	25	43.32	25.02
46.59	25.34	47.06	25.39	53.93	25.93	54.06	26	55.31	26.13
63.58	27	63.76	27.06	66.89	28	68.59	28.51	70.26	29
72.81	29.75	73.71	30	74.68	30.26	77.29	31	79.95	31.62
80.26	31.69								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	39.29	.035	43.32	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
39.29 43.32 16.62 17.27 17.85 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 497.047

INPUT
Description:
Station Elevation Data num= 101

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.58	.04	26.58	.09	26.58	.13	26.58	.24	26.57

.42	26.59	.53	26.58	.55	26.58	.56	26.58	.59	26.58
.61	26.58	.63	26.58	.65	26.59	.67	26.59	.79	26.6
1	26.62	1.64	26.54	1.89	26.56	2.01	26.57	2.72	26.48
8.17	26	8.36	26	8.4	26	12.22	26	13.06	26
13.08	26	13.1	26	13.58	26	13.83	26	13.84	26
14.5	26	14.97	26	15.32	26	19.73	25.46	20.05	25.41
20.09	25.41	20.47	25.36	20.53	25.35	20.57	25.34	20.63	25.33
22.54	25.1	23.19	25	23.55	25	23.61	25	23.86	25
24.26	25	24.29	25	24.35	25	24.73	25	24.8	25
24.82	25	24.83	25	25.83	25	25.85	25	25.87	25
25.88	25	25.9	25	25.92	25	25.94	25	25.95	25
32.73	24.46	32.76	24.46	32.78	24.46	32.81	24.46	32.94	24.46
34.04	24.37	34.09	24.37	34.15	24.37	36.46	24.26	36.74	24.25
36.78	24.25	36.81	24.24	36.82	24.24	38.43	24.15	40.67	24.34
41.81	24.44	42.05	24.46	44.75	24.66	44.99	24.68	45.84	24.75
46.05	24.77	46.28	24.79	46.4	24.8	46.66	24.83	46.93	24.86
47.23	24.89	47.54	24.92	47.66	24.93	48.24	25	50.99	25.29
57.93	26	59.69	26.39	62.72	27	66.55	27.83	67.37	28
68.03	28.24	70.32	29	73.58	29.79	74.56	30	75.7	30.26
76.86	30.53								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	36.46	.035	40.67	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
36.46 40.67 20.87 21.11 21.29 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 475.941

INPUT
Description:
Station Elevation Data num= 162

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.06	.36	26	.41	26	.5	26	.52	26
.54	26	.57	26	.59	26	.62	26	.65	26
.68	26	.71	26	.73	26	.76	26	.99	26
1.26	25.92	1.27	25.92	1.29	25.92	1.31	25.91	1.33	25.91
1.35	25.9	1.38	25.89	1.39	25.89	1.41	25.88	1.46	25.87
1.47	25.86	1.54	25.85	1.56	25.84	1.59	25.82	1.65	25.8
1.7	25.77	1.75	25.75	1.88	25.72	1.93	25.7	1.98	25.67
2.03	25.65	2.06	25.64	2.11	25.62	2.32	25.58	2.37	25.56
2.42	25.54	2.46	25.52	2.5	25.5	2.78	25.45	2.82	25.44
3.14	25.33	3.18	25.32	3.47	25.27	3.52	25.25	3.84	25.21
3.85	25.21	3.91	25.19	4.25	25.15	4.29	25.13	4.66	25.08
4.69	25.08	5.03	25.03	5.22	25	5.3	25	5.35	25
5.56	25	5.78	25	5.79	25	5.81	25	5.99	25
6.16	25	6.32	25	6.48	25	6.5	25	6.52	25
6.54	25	6.56	25	6.58	25	6.6	25	6.63	25
6.65	25	6.79	25	6.81	25	6.87	25	6.94	25
6.98	25	7.09	25	7.12	25	7.74	25	7.77	25
7.81	25	8.41	25	8.59	25	8.78	25	9.28	25
10.66	25.05	13.87	25.03	15.12	25	16.61	24.85	16.63	24.84
16.65	24.83	16.67	24.83	16.68	24.82	16.7	24.82	16.72	24.81
16.75	24.81	18.69	24.58	18.72	24.57	18.73	24.56	18.77	24.55
18.82	24.54	18.87	24.53	18.94	24.52	18.99	24.5	19.04	24.49
19.1	24.48	19.15	24.47	19.25	24.45	19.34	24.42	19.44	24.4
19.54	24.38	19.66	24.35	19.86	24.3	19.98	24.28	20.1	24.25
20.23	24.22	20.28	24.21	20.91	24.07	20.98	24.06	21.1	24.03
21.2	24	21.3	24	21.42	24	21.44	24	21.46	24
21.48	24	21.5	24	21.51	24	21.53	24	24.44	23.89
31.26	23.66	35.48	23.52	37.84	23.44	39.88	23.57	40.81	23.63
40.93	23.64	40.97	23.65	42.38	23.75	43.19	23.81	45.85	24
47.5	24.23	47.87	24.29	52.1	25	53.43	25.17	54.42	25.29
60.22	26	60.36	26	63.07	26.51	65.43	27	66.74	27.32
69.78	28	73.53	28.77	73.56	28.78	74.24	28.93	74.52	29
76.15	29.39	76.62	29.5						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	35.48	.035	39.88	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
35.48 39.88 19.08 19.91 20.58 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 456.031

INPUT
Description:
Station Elevation Data num= 105

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	27.09	.57	27	2.95	26.61	6.69	26	10.2	25.43
11.01	25.29	12.47	25.05	12.88	25	14.62	24.76	14.99	24.7
16.35	24.51	16.93	24.42	17.23	24.39	17.63	24.33	17.65	24.33
17.67	24.33	17.69	24.33	17.7	24.32	17.72	24.32	19.08	24.12
19.09	24.12	20.2	24	20.22	24	20.27	24	20.32	24
20.37	24	20.4	24	20.45	24	20.47	24	20.5	24
20.62	24	23.1	23.85	23.16	23.84	23.23	23.84	24.03	23.8
24.12	23.79	24.84	23.75	24.94	23.75	24.97	23.75	26.8	23.64
27.97	23.59	29.83	23.49	30.19	23.47	30.39	23.46	30.59	23.45
31.78	23.39	31.91	23.38	32.94	23.32	33.06	23.32	33.23	23.31
33.69	23.28	35.05	23.21	35.58	23.18	35.63	23.18	36.07	23.16
36.12	23.15	36.16	23.15	36.2	23.15	36.25	23.15	36.29	23.15
36.34	23.14	36.35	23.14	36.62	23.13	38.97	23	41.84	22.91
42.33	22.9	42.61	22.89	42.86	22.88	42.9	22.88	44.12	22.88
44.86	22.86	44.89	22.87	44.92	22.87	44.96	22.87	44.99	22.87
45.18	22.87	45.21	22.87	45.34	22.88	45.41	22.88	45.55	22.88
45.82	22.89	45.93	22.89	46.94	22.92	50.03	23	53.06	23.45
56.79	24	59.14	24.38	60.97	24.68	62.98	25	63.4	25.69
67.68	26	68.34	26.19	70.05	26.68	71.07	27	75.26	27.8
76.31	28	77.08	28.49	77.1	28.5	77.16	28.54	77.23	28.58
77.89	29	78.32	29.14	79	29.36	80.98	30	82.16	30.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	41.84	.035	45.93	.045

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
41.84 45.93 20.23 20.89 21.24 .1 .3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 435.143

INPUT
Description:
Station Elevation Data num= 69

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.93	1.96	26.63	2.61	26.53	3.52	26.4	4.51	26.25
6.13	26	7.85	25.74	8.44	25.65	12.63	25	13.12	24.93
13.61	24.87	13.8	24.84	15.48	24.61	16.93	24.42	17.73	24.32
18.88	24.17	19.34	24.11	20.17	24	20.33	23.99	20.42	23.98
21.36	23.9	21.76	23.87	22.76	23.78	23.4	23.73	24.3	23.65
24.61	23.62	24.89	23.6	25.16	23.58	25.4	23.56	25.63	23.54
25.84	23.52	26.04	23.5	26.23	23.49	26.4	23.47	26.51	23.47
27.48	23.39	28.21	23.33	28.84	23.27	28.97	23.26	29.06	23.25
32.21	23	35.44	22.71	38.01	22.48	39.55	22.35	41.7	22.17
42.84	22.17	43.43	22.21	48.35	22.58	49.14	22.65	50.91	22.83
51.01	22.84	51.11	22.85	51.22	22.86	51.33	22.87	51.37	22.87
52.68	23	58.31	23.86	59.22	24	59.56	24.05	65.52	25

69.26	25.9	69.71	26	71.62	26.57	71.99	26.68	73.22	27
76.58	27.47	77.72	27.63	80.21	28	80.53	28.18		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	39.55	.035	43.43	.045

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
39.55	43.43	16.92	17.43	17.97	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 417.714

INPUT
Description:
Station Elevation Data num= 58

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	26.97	.67	26.84	5.02	26	5.69	25.87	6.92	25.63
7.62	25.5	7.72	25.48	8.2	25.38	8.52	25.32	10.06	25
10.72	24.87	11.87	24.66	11.95	24.65	12.11	24.61	15.25	24
18.08	23.63	18.39	23.6	20.2	23.42	20.44	23.39	20.58	23.38
20.72	23.36	20.87	23.35	21.02	23.33	21.19	23.32	21.33	23.3
21.62	23.27	21.71	23.26	22.57	23.16	22.91	23.12	23.01	23.11
24.27	23	28.81	22.56	28.89	22.56	32.7	22.19	33.7	22.09
34.69	22	37.89	21.72	39.66	21.56	39.8	21.55	39.88	21.54
40.01	21.54	40.81	21.58	41.72	21.63	48.4	22	53.34	22.7
55.42	23	56.1	23.1	56.42	23.14	58.71	23.47	62.44	24
67.18	24.8	68.41	25	68.61	25.06	68.72	25.09	72.01	26
72.14	26.03	72.99	26.19	74.26	26.43				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	37.89	.035	41.72	.045

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
37.89	41.72	22.31	22.68	22.96	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 395.035

INPUT
Description:
Station Elevation Data num= 60

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	25.92	2.53	25.41	2.57	25.4	2.84	25.34	4.41	25
6.8	24.47	9.12	24	12.28	23.44	13.27	23.3	13.64	23.23
15.2	23	16.49	22.87	16.52	22.86	16.55	22.86	16.58	22.85
16.62	22.85	16.64	22.85	17.1	22.8	18.74	22.61	19.41	22.53
19.83	22.49	20.36	22.43	21.42	22.33	22.27	22.23	22.93	22.16
23.73	22.07	23.82	22.06	24.34	22	24.45	21.99	24.78	21.95
25.08	21.92	25.37	21.88	25.63	21.85	25.67	21.85	25.72	21.84
25.86	21.83	27	21.7	30.36	21.33	33.4	21	33.57	20.99
35.51	20.87	36.44	20.81	38.46	20.67	39.96	20.74	40.55	20.76
40.68	20.77	44.73	21	45.04	21.04	45.24	21.06	45.69	21.12
52.16	22	54.13	22.29	55.61	22.51	58.93	23	60.67	23.26
65.67	24	67.36	24.4	69.76	25	69.92	25.04	74.11	25.98

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.045	36.44	.035	40.55	.045

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
36.44	40.55	20.09	20.38	20.67	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 374.659

INPUT
Description:
Station Elevation Data num= 88

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.96	3.87	24.18	4.72	24	7.91	23.34	9.55	23
9.84	22.94	9.85	22.94	9.86	22.93	9.88	22.93	9.93	22.92
9.96	22.92	9.97	22.91	9.99	22.91	10	22.91	11.92	22.52
11.94	22.52	12.37	22.44	12.86	22.37	13.14	22.32	13.31	22.3
14.25	22.16	14.48	22.12	14.61	22.1	14.79	22.07	14.82	22.06
15	22.03	15.18	22.01	15.2	22	15.22	22	15.35	21.99
15.5	21.98	15.63	21.96	15.67	21.96	15.81	21.95	15.84	21.95
15.9	21.94	16.29	21.91	17.59	21.78	17.83	21.76	18.9	21.67
19.03	21.66	19.4	21.63	19.43	21.63	19.8	21.59	21.43	21.46
21.87	21.42	21.99	21.41	23.72	21.25	24.33	21.2	25.82	21.04
25.88	21.03	26.16	21	29.77	20.66	31.39	20.51	32.74	20.4
33.14	20.36	33.72	20.31	34.01	20.28	34.5	20.25	34.74	20.23
37.58	20	38.7	19.96	39.63	19.93	40.75	19.89	42.89	19.95
42.91	19.95	44.49	20	46.35	20.22	46.45	20.23	47.09	20.33
47.62	20.42	51.04	21	53.92	21.46	54.53	21.55	56.72	21.9
56.97	21.94	57.37	22	61.01	22.58	63.6	23	67.39	23.93
67.69	24	67.8	24.04	71.08	25	71.41	25.06	76.42	26
76.57	26.09	76.76	26.19	77.68	26.67				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	38.7	.4	42.89	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
38.7	42.89	20.2	20.28	20.33	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 354.377

INPUT
Description:
Station Elevation Data num= 104

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.21	.09	24.19	.13	24.18	.36	24.13	.61	24.08
.73	24.05	.75	24.05	.77	24.04	.78	24.04	.8	24.03
.81	24.03	.95	24	3.35	23.53	6.02	23	8.57	22.55
8.84	22.51	11.74	22	12.69	21.84	12.87	21.81	13.15	21.76
13.6	21.68	15.41	21.36	17.05	21.08	17.5	21	18.55	20.9
18.58	20.89	18.6	20.89	18.63	20.89	19.98	20.75	20.03	20.75
20.09	20.74	21.11	20.64	21.18	20.64	21.25	20.63	21.68	20.59
21.91	20.57	22.13	20.55	22.33	20.53	22.52	20.51	22.7	20.49
22.86	20.48	23.02	20.46	23.17	20.45	23.18	20.45	23.31	20.43
23.43	20.42	23.55	20.41	23.66	20.4	23.77	20.39	23.87	20.39
23.97	20.38	24.06	20.37	24.15	20.36	24.49	20.33	24.77	20.31
28.39	20	30.72	19.8	31.06	19.77	31.27	19.76	32.35	19.68
36.02	19.38	38.1	19.24	38.47	19.22	38.73	19.2	40.53	19.1
40.55	19.1	40.77	19.09	40.85	19.08	40.87	19.08	40.88	19.08
41.01	19.07	41.04	19.07	41.06	19.07	42	19.06	42.48	19.03
43.3	19.03	44.13	19.1	44.32	19.12	45.11	19.21	45.79	19.25
46.49	19.33	47.5	19.46	48.96	19.6	51.73	20	55.56	20.81
56.51	21	56.88	21.08	61.3	22	63.97	22.57	64.02	22.58
64.32	22.64	66.02	23	67.74	23.46	68.27	23.6	69.25	23.85
69.84	24	71.41	24.54	72.02	24.75	72.76	25	75.27	25.48
78	26	78.22	26.1	79	26.39	79.8	26.74		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val

0	.05	40.53	.4	44.32	.05				

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
40.53	44.32	19.41	19.64	19.79	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 334.743

INPUT
Description:
Station Elevation Data num= 45

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.01	.05	24	3.63	23.47	6.68	23	7.91	22.8
9.54	22.54	12.66	22	14.51	21.52	16.5	21	18.7	20.64
21.27	20.21	21.78	20.12	22.52	20	24.07	19.84	32.23	19
32.26	19	32.29	19	34.38	18.87	39.71	18.5	41.96	18.34
44.25	18.64	44.37	18.65	47.24	19	50.05	19.58	51.93	20
55.32	20.76	56.35	20.98	56.46	21	56.6	21.03	57.82	21.29
61.29	22	62.74	22.32	65.85	23	68.97	23.89	69.35	24
69.66	24.1	72.58	25	74.14	25.32	74.61	25.42	74.8	25.46
75.04	25.52	75.35	25.58	75.74	25.67	76.27	25.79	76.85	25.91

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	39.71	.4	44.25	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
39.71	44.25	19.59	19.5	18.97	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 315.248

INPUT
Description:
Station Elevation Data num= 90

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	25.25	.55	25.08	.81	25	1	24.94	1.21	24.85
3.34	24	5.21	23.47	6.88	23	9.17	22.35	10.42	22
13.69	21.08	13.96	21	14.58	20.83	16.23	20.36	17.03	20.14
17.53	20	17.55	20	18	19.91	18.06	19.9	18.14	19.89
18.6	19.8	18.89	19.75	23.35	19	24.03	18.91	24.14	18.9
24.87	18.8	25.13	18.76	25.63	18.69	26.7	18.54	27.31	18.45
27.8	18.38	30.78	18	32.54	17.79	32.66	17.77	32.81	17.76
32.94	17.74	33.72	17.65	35.84	17.38	37.82	17.71	38.6	17.84
39.96	18	45.2	18.72	45.34	18.74	46.01	18.85	46.02	18.85
46.06	18.85	46.08	18.85	46.11	18.86	46.14	18.86	46.16	18.87
46.19	18.87	46.24	18.88	46.28	18.89	47.02	19	50.51	19.67
52.08	20	53.89	20.37	55.99	20.79	56.25	20.84	56.81	20.96
56.87	20.97	56.98	20.99	57.04	21	58.29	21.24	58.65	21.31
59.54	21.48	59.95	21.56	60.21	21.61	62.24	22	62.84	22.12
62.86	22.12	63.04	22.15	64.21	22.38	64.59	22.44	65.29	22.56
66.25	22.73	67.72	23	67.76	23.01	67.78	23.02	67.82	23.03
69.23	23.5	69.91	23.73	70.03	23.78	70.33	23.86	70.66	24
73.24	24.69	73.35	24.92	73.57	25	73.63	25.02	74.68	25.4

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	33.72	.4	37.82	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
33.72	37.82	19.95	19.67	19.29	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 295.581

INPUT
Description:
Station Elevation Data num= 114

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.46	1.58	24	2.49	23.7	4.72	23	6.87	22.44
7.03	22.4	7.14	22.36	7.51	22.26	8.02	22.11	8.41	22
8.87	21.87	9.56	21.67	10.69	21.37	11.1	21.26	11.32	21.2
12.09	21	12.92	20.76	13.89	20.47	15.69	20	16.52	19.79
16.83	19.71	19.95	19	24.78	18.07	25.12	18	26.05	17.82
27.01	17.63	30.29	17	32.13	16.76	33.85	16.53	33.96	16.52
33.97	16.52	34.06	16.51	34.19	16.52	34.21	16.52	34.22	16.52
36.13	16.72	38.89	17	44.28	17.62	46.51	17.87	47.59	18
47.64	18.01	47.68	18.02	49.95	18.45	50.08	18.48	50.34	18.52
50.55	18.56	51.84	18.8	52	18.83	52.16	18.85	52.58	18.93
52.61	18.94	52.97	19	53.45	19.09	54.16	19.21	54.45	19.26
55.06	19.37	55.07	19.37	55.29	19.42	55.79	19.5	56.08	19.56
56.44	19.62	56.76	19.68	57.01	19.72	57.37	19.78	57.62	19.83
57.72	19.85	58.21	19.93	58.28	19.95	58.58	20	58.78	20.03
58.8	20.04	59.33	20.13	59.37	20.14	59.41	20.15	60.08	20.26
60.15	20.27	60.22	20.29	60.75	20.38	60.8	20.39	60.91	20.41
61.11	20.44	61.22	20.46	61.35	20.48	62.28	20.64	62.47	20.67
62.68	20.71	62.79	20.73	63	20.76	63.79	20.89	63.96	20.92
64.29	20.97	64.49	21	65.21	21.11	65.25	21.12	65.3	21.13
65.35	21.14	65.42	21.15	65.84	21.23	65.94	21.25	66.06	21.27
66.24	21.31	66.29	21.32	66.46	21.35	66.52	21.36	67.08	21.47
69.6	21.98	69.62	21.98	69.63	21.98	69.71	22	71.62	22.68
72.61	23	73.81	23.4	74.47	23.6	75.1	23.86		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	32.13	.4	36.13	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
32.13	36.13	22.27	20.94	19.08	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 274.643

INPUT
Description:
Station Elevation Data num= 73

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	22.84	1.79	22.37	3.14	22	4.69	21.64	7.51	21
11.72	20.03	11.87	20	12.04	19.96	12.47	19.87	12.86	19.78
16.29	19	18.26	18.61	19.38	18.39	19.4	18.38	19.68	18.33
21.35	18	27.25	17.04	27.47	17	30.57	16.46	33.12	16
33.55	15.94	33.8	15.91	34.51	15.82	35.79	15.64	37.67	15.88
38.62	16	38.66	16	40.53	16.17	40.58	16.18	40.64	16.18
40.69	16.19	40.75	16.2	40.82	16.2	42.99	16.4	43.09	16.41
43.19	16.42	43.27	16.43	43.39	16.44	43.72	16.47	43.85	16.48
43.98	16.5	44.54	16.55	44.68	16.56	47.38	16.83	47.63	16.85
48.48	16.94	48.53	16.94	48.62	16.95	49.1	17	50.64	17.21
50.8	17.23	51.44	17.32	51.67	17.35	51.95	17.39	52.76	17.5
52.8	17.51	52.95	17.53	53.89	17.67	54.08	17.7	54.24	17.72
55.96	18	55.99	18	56.86	18.21	57.9	18.46	60.18	19
60.84	19.15	64.41	20	66.1	20.4	68.62	21	70.74	21.5
72.83	22	77.44	23	77.81	23.14				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	33.55	.4	37.67	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.

									tarifa
33.55	37.67		21.17	20.16	19.06		.1	.3	

CROSS SECTION

RIVER: innominado
REACH: superior RS: 254.479

INPUT
Description:
Station Elevation Data num= 124

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	21.25	.73	21.1	1.22	21	5.25	20.22	6.42	20
6.85	19.92	9.8	19.36	10.81	19.18	11.7	19	16.22	18.14
16.95	18	17.12	17.97	17.15	17.97	17.16	17.97	17.17	17.96
17.22	17.96	17.57	17.9	18.04	17.81	22.82	17	25.3	16.64
25.68	16.59	26.25	16.52	26.28	16.52	26.52	16.49	26.74	16.46
26.93	16.44	27.1	16.42	27.25	16.4	30.23	16	30.96	15.9
30.99	15.9	31.02	15.89	31.05	15.89	31.08	15.88	31.11	15.88
31.15	15.87	31.17	15.87	31.21	15.86	31.25	15.86	31.3	15.85
31.35	15.84	31.41	15.84	31.65	15.8	31.73	15.79	32.2	15.72
32.29	15.71	32.69	15.65	32.83	15.63	32.98	15.61	33.33	15.56
33.51	15.53	33.54	15.53	33.68	15.51	33.8	15.49	33.92	15.47
34.12	15.45	34.23	15.43	34.33	15.41	34.64	15.37	34.84	15.35
35.06	15.32	35.63	15.24	35.83	15.22	36.05	15.19	36.27	15.16
36.39	15.14	36.59	15.12	36.71	15.1	37.21	15.04	37.51	15
38.42	14.87	38.72	14.83	38.82	14.82	38.86	14.81	38.89	14.81
38.93	14.8	39.18	14.81	41.07	14.96	41.66	15	44.51	15.34
44.66	15.36	44.83	15.38	45.05	15.41	45.79	15.5	46.94	15.65
47.27	15.68	48.54	15.83	48.57	15.84	48.86	15.87	49.17	15.91
49.51	15.95	49.71	15.98	49.87	16	50.55	16.1	51.31	16.22
52.44	16.39	52.46	16.4	53.16	16.5	53.64	16.58	54	16.63
54.28	16.67	56.3	17	57.78	17.42	58.88	17.75	58.92	17.76
59.44	17.92	59.72	18	61.79	18.57	63.38	19	65.63	19.59
66.38	19.79	66.59	19.84	67.18	20	67.55	20.1	70.91	21
71.26	21.09	74.64	22	74.79	22.04	74.92	22.08	77.73	22.83
78.37	23	79.38	23.27	79.82	23.39	80.31	23.52		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	37.51	.4	41.66	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
37.51	41.66	18.9	19.26	19.61	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 235.222

INPUT
Description:
Station Elevation Data num= 67

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	20.76	2.21	20.33	3.93	20	5.36	19.74	5.37	19.74
6.37	19.59	9.82	19	10	18.97	10.39	18.89	14.02	18.18
14.95	18	18.91	17.15	19.73	17	24.79	16.35	27.06	16
33.38	15.07	33.84	15	36.2	14.67	37.69	14.47	38.16	14.41
38.52	14.36	38.81	14.32	39.04	14.29	39.08	14.28	39.57	14.23
40.78	14.1	41.27	14.03	41.6	14.03	41.8	14.01	41.97	14.02
42.06	14.03	42.13	14.04	42.2	14.05	43.15	14.12	43.29	14.14
43.85	14.18	44.09	14.2	45.53	14.37	47.03	14.54	50.75	15
52.72	15.28	57.52	16	60.53	16.68	61.84	17	63.4	17.39
63.77	17.49	64.01	17.55	65.81	18	67.79	18.5	69.76	19
71.83	19.56	72.37	19.7	72.51	19.74	73.5	20	74.4	20.29
76.64	21	79	21.81	79.07	21.83	79.18	21.86	79.3	21.91
79.43	21.95	79.57	22	80.18	22.2	80.23	22.22	80.65	22.36
81.16	22.53	82.07	22.83						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	39.57	.4	43.85	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
39.57	43.85	19.18	19.51	19.78	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 215.711

INPUT
Description:
Station Elevation Data num= 122

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.66	.12	19.64	.48	19.56	.54	19.55	.68	19.52
.8	19.49	.91	19.47	1.01	19.45	1.1	19.43	1.18	19.41
1.69	19.3	1.75	19.29	1.81	19.28	1.83	19.27	1.86	19.27
1.88	19.26	2.52	19.13	2.57	19.12	3.14	19	3.27	18.98
3.92	18.84	5.4	18.54	5.85	18.45	6.16	18.38	6.4	18.33
6.59	18.3	6.73	18.27	6.85	18.24	6.95	18.22	7.04	18.2
7.11	18.19	7.17	18.17	7.22	18.16	7.27	18.15	8.02	18
12.21	17.27	12.36	17.24	12.53	17.21	12.61	17.19	12.71	17.17
12.82	17.15	12.93	17.13	13.05	17.11	13.17	17.09	13.3	17.07
13.44	17.04	13.58	17.01	13.67	17	14.85	16.84	14.99	16.82
15.17	16.79	15.34	16.77	15.5	16.75	15.66	16.73	15.8	16.71
16.18	16.65	16.99	16.53	20.72	16	23.82	15.65	24.48	15.56
25.55	15.43	25.77	15.41	26.3	15.35	26.68	15.3	28.16	15.11
28.3	15.1	28.4	15.09	29.07	15	29.18	15	31.74	14.61
33.74	14.32	34.46	14.22	34.83	14.17	35.06	14.13	35.21	14.11
35.22	14.11	35.28	14.1	35.95	14	37.38	13.9	39.6	13.77
40.49	13.72	40.55	13.72	40.59	13.72	40.64	13.72	40.7	13.72
40.75	13.71	40.8	13.71	40.85	13.71	40.89	13.71	40.93	13.71
40.96	13.7	41	13.7	41.03	13.7	41.07	13.7	41.1	13.7
41.12	13.7	41.7	13.62	42.59	13.7	43.92	13.84	43.93	13.84
45.56	14	48.09	14.34	49.49	14.53	50.56	14.68	51.03	14.74
52.91	15	56.2	15.58	58.57	16	60.36	16.49	62.21	17
63.16	17.26	65.83	18	67.56	18.48	69.45	19	72.59	19.93
72.8	20	73.28	20.14	76.34	21	78.26	21.54	79.81	22
79.99	22.05	80.41	22.18						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	39.6	.4	43.93	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
39.6	43.93	19.5	20.07	20.4	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 195.639

INPUT
Description:
Station Elevation Data num= 65

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.43	.31	19.37	.34	19.37	.97	19.25	2.29	19
6.11	18.28	7.55	18	9.38	17.64	10.78	17.36	12.62	17
16.45	16.36	16.67	16.33	17.08	16.28	18.18	16.14	18.79	16.05
19.14	16	21.21	15.73	25.32	15.12	25.39	15.11	25.8	15.06
26.04	15.02	26.18	15	26.7	14.95	29.82	14.72	29.84	14.72
32.07	14.55	32.09	14.55	32.68	14.5	33.19	14.47	35.37	14.28
35.46	14.28	38.2	14.04	38.21	14.04	38.25	14.04	38.69	14
39.29	13.93	40.01	13.85	42.17	13.52	44.16	13.21	46.23	13.43
50.61	13.9	50.74	13.92	50.9	13.93	51.06	13.95	51.25	13.97
51.44	13.99	51.52	14	52.35	14.1	53.79	14.27	59.81	15

									tarifa
62.78	15.76	63.71	16	64.57	16.22	66.98	16.84	67.6	17
67.68	17.02	68.6	17.27	71.32	18	72.48	18.31	75.21	19
78.76	19.83	79.41	20	80.44	20.29	82.97	21	83.74	21.22

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	42.17	.4	46.23	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
42.17	46.23	19.99	20.12	20.05	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 175.516

INPUT
Description:
Station Elevation Data num= 182

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18.91	3.43	18.23	4.48	18	6.85	17.54	9.7	17
13.41	16.24	13.45	16.24	13.48	16.23	13.9	16.15	13.92	16.15
14.46	16.08	14.47	16.08	14.48	16.08	14.49	16.08	14.53	16.08
14.57	16.08	14.6	16.07	14.62	16.07	14.65	16.07	14.67	16.07
14.7	16.07	14.72	16.07	14.74	16.07	14.77	16.07	14.81	16.07
14.85	16.07	16.06	16.01	16.19	16	16.21	16	16.26	16
16.32	16	16.38	16	16.44	16	16.5	16	16.55	16
16.6	16	16.65	16	16.7	16	18.16	15.76	18.33	15.73
21.11	15.55	21.28	15.58	21.37	15.59	21.47	15.59	21.57	15.59
21.59	15.6	21.69	15.6	21.79	15.6	21.82	15.6	21.91	15.61
22.02	15.62	22.09	15.62	22.23	15.63	22.38	15.64	22.44	15.65
22.85	15.66	23.23	15.67	23.48	15.65	23.95	15.64	24.17	15.65
24.59	15.67	24.65	15.68	24.71	15.68	24.77	15.69	24.83	15.69
24.89	15.7	24.95	15.7	25.01	15.71	25.26	15.73	25.3	15.73
25.62	15.75	25.69	15.75	25.72	15.75	27.05	15.76	27.08	15.76
27.2	15.77	27.31	15.78	27.35	15.78	27.42	15.79	28.83	15.8
29.05	15.82	29.33	15.83	29.44	15.84	29.67	15.87	29.9	15.89
29.95	15.9	30.19	15.92	30.44	15.94	30.71	15.97	30.74	15.97
30.76	15.97	31.1	16	31.15	16	31.17	16	31.36	16
31.45	16	31.47	16	31.89	16	31.95	16	32.16	16
32.26	16	32.36	16	32.46	16	32.55	16	32.65	16
34.4	16	34.48	16	34.57	16	34.65	16	34.73	16
34.82	16	34.83	16	34.93	15.98	35.05	15.96	35.09	15.95
35.18	15.93	35.25	15.92	35.34	15.9	35.42	15.89	35.43	15.89
35.5	15.88	35.58	15.87	35.65	15.85	35.66	15.85	35.73	15.85
35.8	15.84	35.82	15.84	35.87	15.83	36	15.81	36.02	15.81
36.15	15.8	36.16	15.8	36.28	15.78	36.3	15.78	36.71	15.76
36.73	15.76	36.75	15.76	37.42	15.64	38.25	15.2	38.62	15
41	14.07	41.17	14	41.2	13.99	41.38	13.96	45.03	13.01
45.08	13	46.21	12.93	46.9	12.89	48.96	12.95	50.01	12.98
50.55	13	56.71	13.93	57.17	14	61.89	14.77	62.46	14.87
63.26	15	63.38	15.02	65.93	15.56	66.22	15.62	66.54	15.69
66.86	15.76	67.26	15.85	67.76	15.96	67.94	16	69.74	16.38
72.67	17	73.65	17.21	74.48	17.38	74.7	17.43	75.22	17.54
75.84	17.66	76.15	17.73	77.48	18	77.49	18	77.66	18.04
77.92	18.11	79.89	18.58	80.02	18.61	81.76	19	85.61	19.84
86.29	20	88.62	20.57						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	45.03	.4	48.96	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
45.03	48.96	20.08	20.71	21.68	.1	.3

CROSS SECTION

RIVER: innominado
REACH: superior RS: 154.810

INPUT
Description:
Station Elevation Data num= 120

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	21.3	2.79	21	3.85	21	7	21	7.01	21
7.03	20.05	7.05	20	7.05	19.66	7.08	18	7.12	17.05
7.13	16.64	7.16	16	8.72	16	9.03	16	10.22	16
10.76	16	11.82	16	12.59	16	14.3	16	22.66	16
23.69	16	25.56	16	27.25	16	29.91	16	31.28	16
32.58	16	34.19	16	36.5	16	43.63	16	46.36	16
47.66	16	48.67	15.31	49.1	15	49.85	14.45	50.48	14
51.42	13.32	51.87	13	52.65	12.93	55.32	12.69	57.34	12.52
59.27	12.68	62.59	12.94	63.23	13	63.82	13.05	63.88	13.06
64.07	13.07	64.09	13.07	64.16	13.08	64.81	13.14	64.96	13.15
65.57	13.2	65.59	13.2	65.79	13.22	66.43	13.28	66.91	13.32
67.33	13.36	67.71	13.39	68.1	13.43	70.51	13.65	70.7	13.67
73.21	13.91	73.44	13.93	73.58	13.94	73.61	13.94	74.2	14
79.92	14.87	80.11	14.9	80.79	15	81.94	15.16	82.15	15.19
82.79	15.28	83.34	15.37	84.59	15.55	85.29	15.64	85.74	15.71
87.71	16	88.44	16.12	88.64	16.15	88.95	16.2	89.22	16.24
89.47	16.28	89.53	16.29	89.86	16.33	89.93	16.34	90.21	16.39
91.29	16.55	91.55	16.59	91.61	16.6	91.73	16.61	91.84	16.63
91.93	16.64	92.03	16.65	92.11	16.67	92.19	16.68	92.26	16.69
92.76	16.76	92.81	16.77	92.98	16.79	93.06	16.81	93.15	16.82
93.35	16.85	93.43	16.86	93.52	16.87	94.09	16.95	94.13	16.96
94.17	16.96	94.34	16.93	94.44	17	94.51	17.01	94.55	17.02
96.02	17.28	96.94	17.44	98.05	17.65	98.86	17.79	100.01	18
100.51	18.09	100.7	18.13	101.88	18.35	102.15	18.4	102.66	18.48

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	55.32	.4	59.27	.05

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
55.32	59.27	19.6	19.71	19.58	.1	.3

Left Levee Station= 55.72 Elevation= 15
Blocked Obstructions num= 1

Sta L	Sta R	Elev
7	21	25

CROSS SECTION

RIVER: innominado
REACH: superior RS: 135.098

INPUT
Description:
Station Elevation Data num= 171

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18.96	1.49	18.85	6.06	19	7.87	19	7.92	19
8.07	18.24	8.12	17.54	8.24	16	10.42	16	13.53	16
20.92	16	24.74	15.89	25.02	15.88	30.67	15.72	31.59	15.68
34.43	15.6	41.59	15.18	44.46	15	45.04	14.55	45.69	14
46.45	13.3	46.84	13	49.1	12.65	50.22	12.48	51	12.34
51.99	12.15	52.04	12.15	52.12	12.15	52.15	12.15	52.17	12.15
52.19	12.15	52.21	12.15	54.05	12.23	61.29	12.54	65.65	12.75
65.84	12.76	66.05	12.77	66.16	12.77	66.36	12.78	66.57	12.79
66.59	12.8	66.63	12.8	66.67	12.8	66.71	12.8	66.75	12.8
66.79	12.81	66.83	12.81	66.87	12.81	66.97	12.81	67.06	12.82
67.14	12.82	67.17	12.82	67.2	12.82	67.24	12.82	68.05	12.86
68.12	12.86	69.19	12.92	69.23	12.92	69.25	12.92	69.26	12.92
71.3	13	77.99	13.75	78.88	13.84	79.29	13.87	80.27	13.96
80.68	14	80.93	14.03	80.96	14.03	81.38	14.08	81.77	14.13
81.91	14.15	82.29	14.19	82.45	14.21	82.6	14.23	82.74	14.25
82.87	14.26	83	14.28	83.28	14.31	83.41	14.33	83.45	14.33
83.48	14.34	85.55	14.56	88.11	14.85	88.94	14.92	89.85	15
91.03	15.12	91.32	15.16	92.37	15.29	92.79	15.34	93.15	15.39

tarifa

96.76	15.8	96.98	15.82	97.06	15.83	97.13	15.84	97.19	15.85
97.25	15.85	97.3	15.86	97.35	15.87	97.36	15.87	97.73	15.91
98.59	16	102.03	16.41	102.05	16.41	102.08	16.41	105.02	16.73
105.05	16.73	105.08	16.73	105.1	16.73	105.12	16.74	105.15	16.74
105.17	16.74	105.21	16.75	105.27	16.75	105.31	16.76	105.36	16.76
105.41	16.77	105.64	16.8	105.68	16.8	105.72	16.8	105.76	16.81
105.79	16.81	105.83	16.81	106.1	16.84	106.19	16.85	106.21	16.86
106.3	16.87	106.39	16.88	106.42	16.88	106.51	16.89	106.53	16.89
106.66	16.91	106.69	16.91	106.7	16.91	106.71	16.91	107.29	17
107.44	17	107.5	17	107.53	17	107.56	17	107.6	17
107.63	17	107.66	17	107.69	17	107.7	17	107.79	17.01
107.88	17.02	107.97	17.03	108.03	17.04	108.04	17.05	108.11	17.06
108.12	17.06	108.2	17.07	108.27	17.08	108.29	17.08	108.36	17.09
108.38	17.09	108.46	17.1	108.48	17.11	108.51	17.11	108.54	17.11
108.57	17.12	108.78	17.15	108.81	17.16	108.85	17.16	108.86	17.16
108.9	17.17	108.95	17.17	109	17.18	109.2	17.22	109.26	17.23
109.91	17.34								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	51	.4	54.05	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

	51	54.05	20.4	20.32	20.28	.1	.3

Left Levee Station= 51 Elevation= 14.75

CROSS SECTION

RIVER: innominado
REACH: superior RS: 114.780

INPUT
Description:
Station Elevation Data num= 110

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	17.56	9.71	17.35	9.91	17.31	10.15	17.4	10.23	17.28
10.88	17.38	11.29	17.38	19.95	16.8	46.03	15	46.42	14.62
46.83	14.44	47.7	14	48.76	13.22	49.02	13	49.24	12.65
49.73	12	50.21	11.97	51.48	11.88	53.42	11.75	55.11	11.91
55.28	11.93	56.2	12	56.24	12	58.62	12	59.01	12
59.36	12	59.66	12	72.09	12.42	73.32	12.46	77.44	12.63
80.13	12.65	80.19	12.65	80.54	12.65	86.11	13	87.23	13.14
88.59	13.31	92.69	14	92.72	14	92.75	14	92.77	14
92.81	14	92.85	14	92.89	14	92.93	14	92.96	14
94.85	14.3	95.14	14.34	95.17	14.34	95.26	14.35	95.34	14.37
95.43	14.38	95.51	14.39	95.59	14.4	95.66	14.41	95.96	14.46
99.02	15	99.12	15	99.14	15	99.16	15	99.18	15
99.2	15	99.22	15	99.23	15	99.25	15	99.27	15
100.48	15.2	100.54	15.21	100.61	15.22	100.68	15.23	100.76	15.24
100.86	15.25	101.33	15.31	101.38	15.32	101.53	15.34	101.7	15.36
101.89	15.39	102.17	15.42	102.53	15.47	102.99	15.53	103.25	15.57
103.82	15.65	105.62	15.89	105.91	15.93	106.23	15.97	106.46	16
106.6	16.03	106.63	16.04	107.08	16.14	107.45	16.22	107.65	16.27
107.98	16.35	108.25	16.41	108.62	16.5	108.98	16.58	109.5	16.7
110.32	16.9	110.45	16.93	110.74	17	111.33	17.13	111.46	17.16
112.22	17.32	112.52	17.4	113.05	17.51	113.52	17.62	113.85	17.69
114.46	17.84	114.56	17.86	115.16	18	115.61	18.1	117.44	18.49

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.05	51.48	.4	55.28	.05

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

51.48	55.28	20.37	20	19.67	.1	.3

Left Levee Station= 51.25 Elevation= 14.5

CROSS SECTION

RIVER: innominado
REACH: superior RS: 94.778

INPUT
Description:
Station Elevation Data num= 88

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	15.75	57	15.7	2.84	15.48	3.28	15.53	3.63	15.45
9.82	15.53	13.28	15.47	26.29	15.42	42.04	15	43.81	15
47.31	15	47.6	14.76	48.39	14	48.7	13.81	50.05	13
50.32	12.82	51.34	12	52.77	11.75	52.99	11.73	54.88	11.49
56.9	11.6	57.42	11.62	58.19	11.63	58.28	11.63	59.91	11.64
61.91	11.71	69.56	12	69.75	12	69.96	12	70.83	12
71.51	12	71.99	12	72.24	12	76.84	12	77.05	12
77.16	12	77.82	12	78.5	12	79.19	12	85.85	12
85.88	12	85.99	12.01	86	12.01	86.02	12.01	89.18	12.28
89.58	12.32	90.45	12.4	90.56	12.4	90.67	12.41	90.78	12.42
90.88	12.43	90.99	12.44	91.08	12.45	91.12	12.45	91.34	12.47
91.55	12.49	92.15	12.54	92.34	12.56	92.52	12.57	92.54	12.58
93.17	12.63	97.04	13	97.13	13.01	97.22	13.03	100.67	13.54
103.74	14	104.08	14.05	104.1	14.06	104.16	14.07	104.25	14.09
104.8	14.19	106.66	14.53	108.28	14.87	108.29	14.87	108.5	14.91
108.92	15	111.62	15.61	113.36	16	114.88	16.34	117.06	16.82
117.87	17	118.21	17.07	120.37	17.55	121.9	17.89	122.11	17.94
122.38	18	122.98	18.13	123.86	18.32				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	52.99	.045	56.9	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

52.99	56.9	20.77	20.26	19.78	.1	.3

Left Levee Station= 52.5 Elevation= 14

CROSS SECTION

RIVER: innominado
REACH: superior RS: 74.522

INPUT
Description:
Station Elevation Data num= 170

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.7	2.81	13.8	8.76	13.88	12.44	13.84	12.83	13.82
14.7	13.74	22.22	14	30.67	14	30.82	13.72	31.27	13
31.28	12.5	32	12	35	11.25	36.61	11.25	36.77	11.25
37	11.24	37.22	11.24	37.42	11.23	37.52	11.22	37.71	11.21
38.09	11.2	40	11.13	42.13	11.1	42.23	11.1	44.63	11.1
44.67	11.1	44.7	11.1	44.74	11.1	44.77	11.1	44.81	11.1
44.84	11.1	44.88	11.1	44.91	11.1	46.67	11	47.01	10.98
49.14	10.96	49.78	10.94	50.54	10.92	51.04	10.9	51.58	10.89
52.02	10.88	52.33	10.87	52.68	10.87	53.26	10.9	53.67	10.94
54.17	11	54.78	11.11	55.63	11.27	57.61	11.55	58.32	11.64
58.83	11.73	61.72	12	62.39	12.03	63	12.05	63.16	12.07
66.09	12.18	66.1	12.19	66.11	12.19	66.12	12.19	66.14	12.19
67.99	12.26	68.01	12.26	68.02	12.26	68.49	12.27	68.6	12.26
68.72	12.26	69.24	12.27	69.36	12.27	69.47	12.26	71.15	12.27
71.27	12.26	71.4	12.26	72.1	12.25	72.22	12.24	72.36	12.24
72.51	12.23	72.64	12.22	73.15	12.25	73.29	12.24	73.89	12.26
74.49	12.26	75.11	12.25	75.54	12.24	75.69	12.24	76.13	12.23
76.28	12.22	76.38	12.22	76.52	12.21	76.54	12.21	76.65	12.21
76.71	12.21	76.81	12.21	76.91	12.21	77.37	12.19	79.6	12.19
79.66	12.19	79.72	12.19	79.79	12.19	79.85	12.19	79.91	12.19
79.97	12.19	80	12.19	80.04	12.19	80.07	12.19	80.11	12.19
80.14	12.19	82.37	12.19	82.41	12.19	82.45	12.19	82.48	12.19
82.5	12.19	82.53	12.19	82.56	12.19	82.59	12.18	82.62	12.18
82.95	12.19	82.98	12.19	83.01	12.18	83.04	12.18	83.2	12.18
83.56	12.17	84.09	12.18	85.45	12.21	85.88	12.2	87.35	12.22
87.37	12.22	87.4	12.22	87.42	12.22	87.45	12.22	87.47	12.22

tarifa

87.5	12.22	87.52	12.22	87.63	12.22	87.81	12.22	89.26	12.23
89.45	12.23	89.54	12.23	89.57	12.23	90.07	12.24	90.1	12.24
91.21	12.26	91.32	12.26	91.44	12.27	91.55	12.27	91.67	12.27
91.73	12.27	91.85	12.27	91.97	12.27	92.06	12.28	92.18	12.28
92.3	12.28	92.38	12.28	92.41	12.28	96.8	12.52	97.87	12.6
99.74	12.76	100.81	12.86	100.86	12.86	102.42	13	105.34	13.56
107.68	14	108.24	14.12	112.73	15	113.1	15.07	113.5	15.14
116.93	15.78	117.95	15.97	118.1	16	122.82	16.93	123.14	16.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	49.78	.045	53.67	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

49.78	53.67	18.75	20.34	21.33	.1	.3

Blocked Obstructions num= 1

Sta L	Sta R	Elev
8.75	31	17

CROSS SECTION

RIVER: innominado
REACH: superior RS: 54.184

INPUT
Description:
Station Elevation Data num= 175

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.1	6.23	13.04	6.39	13.03	8.38	13.06	15.05	13.06
17.28	13.13	21.96	13	26.56	13	31.09	13	39.52	12.91
39.66	12.52	39.82	12	40.28	11.04	40.3	11	40.31	11
40.32	11	40.33	11	42	10.23	44.37	10.23	45.03	10.22
45.21	10.22	45.36	10.21	45.81	10.21	45.95	10.18	46.07	10.18
46.19	10.17	46.29	10.17	46.74	10.16	46.79	10.16	46.89	10.16
48.15	10.15	49.72	10.13	49.79	10.12	49.85	10.12	50.36	10.08
50.87	10.06	51.11	10.05	51.21	10.04	51.91	10	51.93	10
52.54	9.95	53.66	9.84	56.12	9.58	56.73	9.68	56.84	9.7
57.02	9.73	57.36	9.79	57.59	9.82	57.79	9.85	58.71	10
60.53	10.54	60.83	10.63	61.25	10.75	61.31	10.77	62.22	11
62.41	11.07	63.91	11.84	64.19	11.98	64.22	12	64.42	12.06
64.48	12.08	64.54	12.1	64.72	12.17	65.54	12.44	67.19	13
67.21	13	67.27	13	67.34	13	67.38	13	67.44	13
67.46	13	67.51	13	67.52	13	67.58	13	67.62	13
67.64	13	67.69	13	67.73	13	67.75	13	84.34	13.72
84.58	13.73	84.64	13.73	84.79	13.74	84.91	13.74	85.03	13.75
85.15	13.75	87.84	13.85	87.92	13.85	87.99	13.86	88.06	13.86
89.61	13.94	90.81	13.98	90.84	13.98	92.06	14	92.13	14
93.56	14	93.58	14	93.59	14	94.45	14	95.82	14
96.92	14	97.26	14	97.45	14	97.5	14	97.83	14
98.05	14	98.38	14	98.68	14	98.93	14	99.02	14
99.28	14	100.9	14	101.17	14	101.46	14	101.59	14
101.9	14	102.01	14	102.5	14	103.64	14	104.14	14
104.71	14	104.84	14	105.47	14	105.67	14	105.87	14
106.53	14	106.6	14	106.77	14	107.15	14	107.26	14
107.66	14	108.09	14	108.2	14	108.64	14	109.1	14
109.12	14	109.16	14	109.64	14	109.68	14	110.18	14
110.2	14	110.49	14	110.78	14	111.05	14	111.16	14
111.29	14	111.63	14.01	112.33	14.05	112.57	14.05	112.83	14.06
113.1	14.07	113.37	14.09	113.55	14.1	118.61	14.38	130.96	15
131.36	15	131.66	15	132.05	15.05	132.06	15.06	132.14	15.06
133.35	15.22	133.83	15.29	134.35	15.33	135.62	15.45	138.25	15.75
141.32	16	142.27	16.16	142.31	16.17	142.34	16.17	142.39	16.18
142.77	16.24	142.84	16.26	142.99	16.28	143.17	16.32	143.39	16.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	53.66	.045	57.79	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

53.66	57.79	3.743	3.777	3.507	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	40	12.6	T
65	143.39	12.6	T

Blocked Obstructions num= 1

Sta L	Sta R	Elev
17.25	33.5	17

CROSS SECTION

RIVER: innominado
REACH: superior RS: 50.408*

INPUT
Description:
Station Elevation Data num= 357

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.067	3.069	13.048	6.409	13.019	6.573	13.012	7.568	13.02
8.62	13.006	12.91	12.907	15.41	12.907	15.482	12.907	17.776	12.953
22.59	12.867	23.508	12.867	24.749	12.867	25.535	12.87	25.564	12.867
25.63	12.867	27.322	12.852	28.932	12.837	31.982	12.809	40.654	12.669
40.798	12.407	40.963	12.059	41.436	11.415	41.457	11.388	41.467	11.388
41.477	11.388	41.487	11.388	43.205	10.858	45.643	10.836	46.322	10.823
46.507	10.821	46.638	10.814	46.662	10.807	46.827	10.807	47.045	10.8
47.125	10.799	47.269	10.777	47.392	10.776	47.516	10.767	47.618	10.766
48.081	10.754	48.133	10.753	48.236	10.752	48.627	10.745	48.684	10.738
48.873	10.73	49.532	10.714	51.147	10.67	51.219	10.662	51.281	10.661
51.307	10.659	51.497	10.636	51.805	10.593	52.084	10.573	52.33	10.556
52.577	10.538	52.68	10.527	53.202	10.484	53.4	10.458	53.42	10.456
54.048	10.365	54.177	10.345	54.3	10.337	54.783	10.253	55.162	10.172
55.2	9.893	56.063	9.715	57.113	9.463	57.67	9.463	57.837	9.463
58.275	9.634	58.38	9.659	58.478	9.685	58.638	9.724	58.941	9.801
59.145	9.846	59.23	9.865	59.323	9.9	59.351	9.903	59.397	9.908
59.406	9.982	59.525	10.018	59.773	10.223	59.81	10.237	60.286	10.313
60.654	10.403	60.994	10.49	61.15	10.523	61.187	10.53	62.191	10.768
62.505	10.844	62.945	10.945	63.008	10.961	63.262	11.018	63.62	11.095
63.96	11.188	64.159	11.257	64.244	11.284	65.281	11.747	65.584	11.863
65.612	11.875	65.63	11.881	65.729	11.92	66.022	12.035	66.054	12.05
66.263	12.105	66.326	12.123	66.389	12.141	66.521	12.183	66.577	12.199
66.594	12.204	66.686	12.226	67.09	12.344	67.209	12.376	67.338	12.405
67.435	12.429	67.466	12.437	67.934	12.571	67.98	12.581	68.155	12.622
68.348	12.667	68.54	12.712	69.027	12.857	69.163	12.889	69.184	12.889
69.246	12.89	69.256	12.89	69.32	12.89	69.361	12.89	69.424	12.89
69.445	12.89	69.486	12.89	69.498	12.89	69.508	12.89	69.571	12.891
69.613	12.892	69.634	12.892	69.686	12.893	69.725	12.893	69.749	12.893
69.807	12.895	70.037	12.918	70.395	12.931	70.514	12.944	70.891	12.955
71.276	12.969	72.258	13.069	72.332	13.071	72.672	13.081	72.736	13.083
72.818	13.085	73.14	13.091	73.196	13.095	73.225	13.097	73.443	13.102
73.525	13.104	73.7	13.109	73.764	13.111	73.938	13.116	73.984	13.117
74.039	13.119	74.205	13.123	74.26	13.125	74.324	13.126	74.471	13.131
74.535	13.132	74.654	13.136	74.737	13.138	74.838	13.141	74.912	13.143
74.93	13.143	74.976	13.144	75.093	13.145	75.04	13.146	75.077	13.151
75.095	13.151	75.159	13.156	79.125	13.336	84.165	13.565	87.114	13.659
87.365	13.7	87.428	13.7	87.585	13.709	87.711	13.711	87.836	13.72
87.962	13.722	90.778	13.829	90.861	13.83	90.935	13.838	91.008	13.839
92.473	13.908	92.63	13.914	92.923	13.923	93.447	13.937	93.685	13.942
93.759	13.944	93.823	13.945	93.886	13.947	93.896	13.947	93.918	13.947
93.961	13.947	94.034	13.948	94.108	13.949	94.144	13.949	94.181	13.949
94.247	13.95	94.264	13.95	94.31	13.951	94.346	13.954	94.392	13.955
94.438	13.955	94.475	13.956	94.521	13.956	94.741	13.959	95.195	13.968
95.268	13.969	96.765	13.986	96.786	13.986	96.796	13.986	97.686	13.996
98.652	14.007	98.817	14.003	98.932	14.003	99.13	14.003	99.166	14.003
99.212	14.003	100.282	14.003	100.387	14.003	100.638	14.003	100.837	14.003
100.889	14.003	101.234	14.002	101.465	14.002	101.81	14.002	102.124	14.001
102.386	14.001	102.48	14.001	102.752	14.001	103.416	14	103.949	14
103.995	14	104.418	14	104.73	14	105.034	14	105.17	14
105.495	14	105.61	14	105.748	14	105.932	14.003	106.123	14.007
107.316	14.028	107.839	14.037	107.997	14.04	108.436	14.045	108.572	14.047

tarifa

109.231	14.055	109.441	14.057	109.65	14.06	110.341	14.068	110.414	14.069	
110.592	14.071	110.99	14.076	111.105	14.077	111.524	14.082	111.974	14.087	
112.089	14.089	112.211	14.09	112.549	14.097	113.031	14.106	113.052	14.107	
113.094	14.108	113.596	14.118	113.638	14.118	114.161	14.129	114.182	14.129	
114.486	14.135	114.79	14.141	115.072	14.147	115.187	14.149	115.323	14.152	
115.679	14.166	116.412	14.207	116.663	14.212	116.935	14.224	117.218	14.237	
117.501	14.256	117.689	14.266	121.566	14.48	122.985	14.54	124.797	14.611	
125.963	14.669	126.78	14.708	127.395	14.728	127.423	14.729	127.469	14.73	
127.506	14.731	127.542	14.732	128.745	14.771	128.8	14.773	128.864	14.775	
128.929	14.777	129.672	14.8	129.746	14.803	129.81	14.805	129.856	14.806	
129.902	14.808	129.948	14.809	129.993	14.811	130.039	14.812	130.085	14.814	
130.131	14.815	130.939	14.841	131.573	14.861	131.6	14.862	135.612	15.164	
135.658	15.169	135.676	15.169	135.694	15.17	135.74	15.174	135.913	15.185	
136.331	15.197	136.645	15.206	137.053	15.231	137.064	15.258	137.148	15.261	
138.414	15.404	138.917	15.465	139.461	15.507	140.248	15.577	140.79	15.628	
140.936	15.644	141.001	15.652	141.395	15.704	141.625	15.727	142.112	15.786	
142.414	15.821	142.681	15.854	142.929	15.885	143.158	15.912	143.369	15.937	
143.543	15.956	143.562	15.958	144.728	16.055	144.93	16.075	145.123	16.092	
145.288	16.107	146.757	16.243	147.751	16.39	147.793	16.398	147.824	16.393	
147.877	16.408	148.274	16.464	148.348	16.48	148.505	16.5	148.693	16.534	
148.832	16.552	148.923	16.563							

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	55.2	.045	59.323	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

	55.2	59.323		3.743	3.777	3.507	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
046.08333		12.6	F
64.16666	148.923	12.6	F

CROSS SECTION

RIVER: innominado
REACH: superior RS: 46.632*

INPUT
Description:
Station Elevation Data num= 358

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.033	3.154	13.024	6.588	12.998	6.757	12.994	7.779	12.995
8.861	12.951	13.27	12.753	15.84	12.753	15.914	12.753	18.272	12.777
23.22	12.733	24.164	12.733	25.44	12.733	26.248	12.74	26.277	12.733
26.345	12.733	28.085	12.703	29.801	12.673	32.875	12.618	41.788	12.427
41.936	12.295	42.106	12.118	42.592	11.79	42.613	11.776	42.624	11.776
42.634	11.776	42.645	11.775	44.411	11.487	46.917	11.442	47.615	11.426
47.805	11.422	47.939	11.417	47.949	11.404	47.964	11.403	48.134	11.403
48.358	11.39	48.439	11.388	48.587	11.374	48.714	11.371	48.841	11.365
48.947	11.362	49.423	11.347	49.476	11.346	49.581	11.343	49.983	11.332
50.042	11.319	50.237	11.305	50.914	11.278	52.574	11.203	52.648	11.203
52.711	11.201	52.739	11.199	52.933	11.168	53.251	11.118	53.537	11.076
53.79	11.051	54.044	11.026	54.149	11.013	54.686	10.957	54.89	10.917
54.911	10.913	55.556	10.781	55.689	10.753	55.815	10.749	56.312	10.627
56.701	10.591	56.74	9.947	57.357	9.708	58.107	9.347	59.22	9.347
59.553	9.347	59.937	9.607	60.029	9.639	60.115	9.67	60.256	9.719
60.521	9.813	60.701	9.873	60.775	9.898	60.857	9.95	60.885	9.951
60.933	9.954	60.943	10.101	61.068	10.154	61.327	10.527	61.365	10.549
61.863	10.626	62.247	10.701	62.602	10.78	62.765	10.802	62.803	10.805
63.853	10.997	64.181	11.057	64.64	11.139	64.706	11.152	64.971	11.197
65.345	11.273	65.701	11.376	65.908	11.444	65.937	11.477	67.081	11.873
67.397	11.956	67.426	11.967	67.445	11.97	67.549	12.001	67.855	12.089
67.888	12.1	68.106	12.15	68.172	12.166	68.238	12.181	68.375	12.216
68.434	12.228	68.452	12.232	68.548	12.248	68.97	12.357	69.095	12.383
69.229	12.403	69.331	12.418	69.363	12.423	69.852	12.541	69.9	12.546
70.082	12.571	70.284	12.599	70.485	12.626	70.993	12.759	71.135	12.777
71.157	12.778	71.223	12.78	71.233	12.78	71.299	12.78	71.343	12.78
71.409	12.78	71.43	12.78	71.473	12.78	71.485	12.78	71.496	12.781
71.562	12.782	71.605	12.784	71.627	12.784	71.682	12.786	71.722	12.787
71.748	12.787	71.809	12.787	72.048	12.824	72.422	12.836	72.547	12.857
72.91	12.862	73.343	12.874	74.369	13.035	74.446	13.036	74.801	13.04
74.868	13.041	74.954	13.042	75.29	13.047	75.328	13.047	75.405	13.048
75.606	13.051	75.693	13.052	75.875	13.055	75.942	13.055	76.124	13.058
76.172	13.059	76.23	13.059	76.402	13.062	76.46	13.062	76.527	13.063
76.68	13.065	76.748	13.066	76.882	13.068	76.959	13.069	77.064	13.07
77.141	13.071	77.16	13.072	77.208	13.072	77.237	13.073	77.275	13.073
77.313	13.08	77.333	13.081	77.4	13.088	81.543	13.283	86.808	13.533
89.888	13.659	90.15	13.669	90.216	13.671	90.38	13.679	90.511	13.682
90.642	13.689	90.774	13.693	93.715	13.808	93.803	13.81	93.879	13.816
93.956	13.818	95.487	13.884	95.65	13.889	95.957	13.896	96.503	13.909
96.753	13.911	96.829	13.912	96.897	13.913	96.963	13.913	96.973	13.913
96.995	13.913	97.04	13.914	97.117	13.914	97.198	13.914	97.232	13.915
97.271	13.915	97.318	13.915	97.357	13.915	97.405	13.915	97.443	13.922
97.491	13.922	97.539	13.923	97.577	13.923	97.625	13.923	97.856	13.924
98.329	13.937	98.406	13.938	99.97	13.972	99.992	13.972	100.002	13.972
100.943	13.992	101.941	14.013	102.114	14.007	102.286	14.007	102.441	14.007
102.478	14.007	102.526	14.007	103.644	14.007	103.753	14.007	104.015	14.006
104.223	14.006	104.278	14.006	104.639	14.005	104.879	14.004	105.24	14.004
105.568	14.003	105.842	14.002	105.94	14.002	106.224	14.001	106.918	14
107.474	14	107.522	14	107.996	14	108.291	14	108.608	14
108.75	14	109.089	14	109.209	14	109.354	14	109.546	14.007
109.745	14.013	110.992	14.036	111.538	14.074	111.704	14.08	112.162	14.09
112.304	14.094	112.993	14.109	113.211	14.114	113.43	14.119	114.132	14.136
114.228	14.137	114.414	14.142	114.83	14.151	114.95	14.154	115.387	14.164
115.858	14.174	115.978	14.177	116.106	14.18	116.459	14.194	116.962	14.213
116.984	14.214	117.028	14.215	117.552	14.235	117.596	14.237	118.143	14.258
118.165	14.259	118.482	14.271	118.769	14.283	119.004	14.294	119.215	14.299
119.357	14.304	119.728	14.322	120.494	14.364	120.756	14.374	121.041	14.389
121.336	14.403	121.631	14.421	121.828	14.432	125.878	14.655	127.361	14.7
129.254	14.756	130.472	14.814	131.325	14.854	131.968	14.864	131.997	14.864
132.044	14.865	132.083	14.866	132.121	14.866	133.377	14.885	133.435	14.886
133.502	14.887	133.569	14.888	134.346	14.9	134.423	14.901	134.49	14.902
134.538	14.903	134.586	14.904	134.634	14.905	134.682	14.905	134.73	14.906
134.778	14.907	134.826	14.908	135.67	14.92	136.331	14.931	136.36	14.931
140.551	15.342	140.599	15.349	140.638	15.35	140.637	15.35	140.685	15.357
140.865	15.37	141.302	15.394	141.63	15.412	142.057	15.452	142.068	15.456
142.155	15.461	143.478	15.588	144.003	15.64	144.572	15.685	145.394	15.754
145.56	15.807	146.113	15.822	146.18	15.831	146.593	15.892	146.832	15.914
147.341	15.978	147.657	16.016	147.935	16.052	148.194	16.088	148.434	16.116
148.655	16.144	148.836	16.162	148.856	16.164	150.074	16.267	150.285	16.293
150.486	16.311	150.659	16.329	152.193	16.485	153.232	16.619	153.276	16.626
153.309	16.629	153.363	16.636	153.729	16.688	153.855	16.701	154.019	16.72
154.216	16.749	154.361	16.766	154.457	16.777				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	56.74	.045	60.857	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

	56.74	60.857		3.743	3.777	3.507	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
052.16667		12.6	F
63.33333	154.457	12.6	F

CROSS SECTION

RIVER: innominado
REACH: superior RS: 42.856

INPUT
Description:
Station Elevation Data num= 195

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13	3.24	13	7.99	12.97	13.63	12.6	16.27	12.6
24.82	12.6	26.13	12.6	26.96	12.61	26.99	12.6	27.06	12.6
30.61	12.51	49.24	12.02	49.25	12	49.44	12	49.67	11.98

tarifa

51.34	11.92	51.4	11.9	51.6	11.88	54.17	11.74	54.37	11.7	
54.99	11.58	56.17	11.43	57.2	11.16	57.33	11.16	57.84	11	
58.24	10.83	58.28	10	58.65	9.7	59.1	9.23	60.77	9.23	
61.27	9.23	61.6	9.58	62.32	9.93	62.39	10	62.42	10	
62.47	10	62.48	10.22	62.61	10.29	62.88	10.83	62.92	10.86	
63.84	11	64.21	11.07	64.38	11.08	64.42	11.08	66.68	11.38	
67.07	11.45	67.75	11.65	68.88	12	69.21	12.05	69.24	12.06	
69.26	12.06	70.23	12.25	70.31	12.26	70.41	12.27	70.85	12.37	
70.98	12.39	71.12	12.4	71.26	12.41	71.77	12.51	71.82	12.51	
72.01	12.52	72.22	12.53	72.43	12.54	72.96	12.66	73.21	12.67	
73.46	12.67	73.72	12.68	73.81	12.68	74.06	12.73	74.45	12.74	
74.58	12.77	74.99	12.77	75.41	12.78	76.48	13	76.56	13	
76.93	13	77	13	77.09	13	77.44	13	77.48	13	
77.56	13	77.77	13	77.86	13	78.05	13	78.12	13	
78.31	13	78.36	13	78.42	13	78.6	13	78.66	13	
78.73	13	78.89	13	78.96	13	79.1	13	79.18	13	
79.29	13	79.37	13	79.39	13	79.44	13	79.47	13	
79.51	13	79.55	13.01	79.57	13.01	79.64	13.02	83.96	13.23	
89.45	13.5	98.5	13.86	98.51	13.86	98.99	13.87	99.56	13.88	
99.82	13.88	99.9	13.88	99.97	13.88	100.05	13.88	100.12	13.88	
100.2	13.88	100.28	13.88	100.32	13.88	100.36	13.88	100.41	13.88	
100.45	13.88	100.5	13.88	100.54	13.89	100.59	13.89	100.64	13.89	
100.68	13.89	100.73	13.89	100.74	13.89	100.97	13.89	105.23	14.02	
105.41	14.01	105.6	14.01	105.79	14.01	105.84	14.01	107.12	14.01	
110.42	14	111	14	111.05	14	112.96	14	113.16	14.01	
115.41	14.12	120	14.27	130.19	14.83	133.71	14.9	134.98	14.96	
135.87	15	136.54	15	136.57	15	136.62	15	136.66	15	
136.7	15	138.01	15	138.07	15	138.14	15	138.21	15	
139.02	15	139.1	15	139.17	15	139.22	15	139.27	15	
139.32	15	139.37	15	139.42	15	139.47	15	139.52	15	
140.4	15	141.09	15	141.12	15	145.49	15.52	145.54	15.53	
145.56	15.53	145.58	15.53	145.63	15.54	150.54	15.93	150.55	15.93	
151.29	16	151.36	16.01	151.79	16.08	152.04	16.1	152.57	16.17	
152.9	16.21	153.19	16.25	153.46	16.29	153.71	16.32	153.94	16.35	
154.15	16.37	155.42	16.48	155.64	16.51	155.85	16.53	156.03	16.55	
159.89	16.98	159.9	16.98	159.91	16.98	159.92	16.98	159.99	16.99	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	58.28	.045	62.39	.06

Bank Sta: Left Right Coeff Contr. Expan.

58.28	62.39	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	58.25	12.6	T
62.5	159.99	12.6	T

Left Levee Station= 49.25 Elevation= 12.5

CULVERT

RIVER: innominado
REACH: superior RS: 35

INPUT
Description: PASO SOBRE CALLE BATALLA DEL SALADO
Distance from Upstream XS = 3.01
Deck/Roadway Width = 12.99
Weir Coefficient = 1.44
Upstream Deck/Roadway Coordinates
num= 3

Sta Hi Cord	Lo Cord	Sta Hi Cord	Lo Cord	Sta Hi Cord	Lo Cord
30.61	12.51	64	12.7	76.48	13	9

Upstream Bridge Cross Section Data
Station Elevation Data num= 195

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13	3.24	13	7.99	12.97	13.63	12.6	16.27	12.6
24.82	12.6	26.13	12.6	26.96	12.61	26.99	12.6	27.06	12.6
30.61	12.51	49.24	12.02	49.25	12	49.44	12	49.67	11.98
51.34	11.92	51.4	11.9	51.6	11.88	54.17	11.74	54.37	11.7
54.99	11.58	56.17	11.43	57.2	11.16	57.33	11.16	57.84	11
58.24	10.83	58.28	10	58.65	9.7	59.1	9.23	60.77	9.23
61.27	9.23	61.6	9.58	62.32	9.93	62.39	10	62.42	10
62.47	10	62.48	10.22	62.61	10.29	62.88	10.83	62.92	10.86
63.84	11	64.21	11.07	64.38	11.08	64.42	11.08	66.68	11.38
67.07	11.45	67.75	11.65	68.88	12	69.21	12.05	69.24	12.06
69.26	12.06	70.23	12.25	70.31	12.26	70.41	12.27	70.85	12.37
70.98	12.39	71.12	12.4	71.26	12.41	71.77	12.51	71.82	12.51
72.01	12.52	72.22	12.53	72.43	12.54	72.96	12.66	73.21	12.67
73.46	12.67	73.72	12.68	73.81	12.68	74.06	12.73	74.45	12.74
74.58	12.77	74.99	12.77	75.41	12.78	76.48	13	76.56	13
76.93	13	77	13	77.09	13	77.44	13	77.48	13
77.56	13	77.77	13	77.86	13	78.05	13	78.12	13
78.31	13	78.36	13	78.42	13	78.6	13	78.66	13
78.73	13	78.89	13	78.96	13	79.1	13	79.18	13
79.29	13	79.37	13	79.39	13	79.44	13	79.47	13
79.51	13	79.55	13.01	79.57	13.01	79.64	13.02	83.96	13.23
89.45	13.5	98.5	13.86	98.51	13.86	98.99	13.87	99.56	13.88
99.82	13.88	99.9	13.88	99.97	13.88	100.05	13.88	100.12	13.88
100.2	13.88	100.28	13.88	100.32	13.88	100.36	13.88	100.41	13.88
100.45	13.88	100.5	13.88	100.54	13.89	100.59	13.89	100.64	13.89
100.68	13.89	100.73	13.89	100.74	13.89	100.97	13.89	105.23	14.02
105.41	14.01	105.6	14.01	105.79	14.01	105.84	14.01	107.12	14.01
110.42	14	111	14	111.05	14	112.96	14	113.16	14.01
115.41	14.12	120	14.27	130.19	14.83	133.71	14.9	134.98	14.96
135.87	15	136.54	15	136.57	15	136.62	15	136.66	15
136.7	15	138.01	15	138.07	15	138.14	15	138.21	15
139.02	15	139.1	15	139.17	15	139.22	15	139.27	15
139.32	15	139.37	15	139.42	15	139.47	15	139.52	15
140.4	15	141.09	15	141.12	15	145.49	15.52	145.54	15.53
145.56	15.53	145.58	15.53	145.63	15.54	150.54	15.93	150.55	15.93
151.29	16	151.36	16.01	151.79	16.08	152.04	16.1	152.57	16.17
152.9	16.21	153.19	16.25	153.46	16.29	153.71	16.32	153.94	16.35
154.15	16.37	155.42	16.48	155.64	16.51	155.85	16.53	156.03	16.55
159.89	16.98	159.9	16.98	159.91	16.98	159.92	16.98	159.99	16.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	58.28	.045	62.39	.06

Bank Sta: Left Right Coeff Contr. Expan.

58.28	62.39	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	58.25	12.6	T
62.5	159.99	12.6	T

Left Levee Station= 49.25 Elevation= 12.5

Downstream Deck/Roadway Coordinates
num= 2

Sta Hi Cord	Lo Cord	Sta Hi Cord	Lo Cord
40.92	12.28	8	48.08	12.44	8

Downstream Bridge Cross Section Data
Station Elevation Data num= 80

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	12.21	3.73	12.17	5.33	12.13	5.39	12.12	6.05	12.08
7.42	12	8.34	12.03	9.95	12.05	13.54	12	19.96	12
24.98	11.92	25.47	11.92	28.8	12	29.63	12.04	31.48	12.13
37.86	12.21	40.92	12.28	42.2	8.92	42.63	8.9	46.59	8.9
47.3	8.92	48.08	12.44	50.8	12.58	53.55	12.69	54.93	12.74
58.2	12.85	61.48	12.95	62.52	12.99	62.7	12.99	62.8	12.99
62.9	12.99	63.78	13	65.79	13	67.94	13	68.68	13.03
71.19	13.06	76.03	13.13	78.65	13.23	79.26	13.24	82.23	13.35
82.58	13.37	82.82	13.42	88.63	13.54	94.13	13.89	94.55	13.9
94.81	13.9	97.89	13.96	99.95	14	100.18	14	101.24	14.01
102.78	14.01	104.72	14.07	107.33	14.09	107.68	14.09	113.09	14.25
113.37	14.27	116.24	14.54	116.45	14.56	116.65	14.56	116.72	14.57

117.05	14.58	117.41	14.59	117.79	14.59	124.12	14.78	124.62	14.78	
126.42	14.78	128.48	14.83	130.76	14.83	138.54	15	138.67	15	
139.57	15	139.8	15.01	142.54	15.01	144.28	15.05	147.01	15.07	
148.54	15.07	150.9	15.14	153.1	15.15	154.92	15.17	157.4	15.23	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	40.92	.045	48.08	.06

Bank Sta: Left Right Coeff Contr. Expan.
40.92 48.08 .1 .3

Upstream Embankment side slope = 0 horiz. to 1.0 vertical
Downstream Embankment side slope = 0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .95
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of culverts = 1

Culvert Name Shape Rise Span
PASO 1 Conspan Arch 1.7 2
FHWA Chart # 60- Span/Rise ratio approximate 2:1
FHWA Scale # 1 - 0 degree wing wall angle
Solution Criteria = Outlet control

Culvert	Upstrm Dist	Length	Top n	Bottom n	Depth Blocked	Entrance Loss Coef	Exit Loss Coef
	3.01	12.99	.015	.015	0	.5	1

Upstream Elevation = 9.2
Centerline Station = 60.27
Downstream Elevation = 8.94
Centerline Station = 44.63

CROSS SECTION

RIVER: innominado
REACH: superior RS: 25.786

INPUT
Description:
Station Elevation Data num= 80

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	12.21	3.73	12.17	5.33	12.13	5.39	12.12	6.05	12.08
7.42	12	8.34	12.03	9.95	12.05	13.54	12	19.96	12
24.98	11.92	25.47	11.92	28.8	12	29.63	12.01	31.48	12.13
37.86	12.21	40.92	12.28	42.2	8.92	42.63	8.9	46.59	8.9
47.3	8.92	48.08	12.44	50.8	12.58	53.55	12.69	54.93	12.74
58.2	12.85	61.48	12.95	62.52	12.99	62.7	12.99	62.8	12.99
62.9	12.99	63.78	13	65.79	13	67.94	13	68.68	13.03
71.19	13.06	76.03	13.13	78.65	13.23	79.26	13.24	82.23	13.35
82.58	13.37	82.82	13.42	88.63	13.54	94.13	13.69	94.55	13.9
94.81	13.9	97.89	13.96	99.95	14	100.18	14	101.24	14.01
102.78	14.01	104.72	14.07	107.33	14.09	107.68	14.09	113.09	14.25
113.37	14.27	116.24	14.54	116.45	14.56	116.65	14.56	116.72	14.57
117.05	14.58	117.41	14.59	117.79	14.59	124.12	14.78	124.62	14.78
126.42	14.78	128.48	14.83	130.76	14.83	138.54	15	138.67	15
139.57	15	139.8	15.01	142.54	15.01	144.28	15.05	147.01	15.07
148.54	15.07	150.9	15.14	153.1	15.15	154.92	15.17	157.4	15.23

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	40.92	.045	48.08	.06

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
40.92 48.08 21.34 25.79 25.83 .1 .3

SUMMARY OF MANNING'S N VALUES

River:innominado

Reach	River Sta.	n1	n2	n3
superior	732.439	.045	.035	.045
superior	697.415	.045	.035	.045
superior	656.082	.045	.035	.045
superior	616.672	.045	.035	.045
superior	576.256	.045	.035	.045
superior	554.557	.045	.035	.045
superior	535.806	.045	.035	.045
superior	514.322	.045	.035	.045
superior	497.047	.045	.035	.045
superior	475.941	.045	.035	.045
superior	456.031	.045	.035	.045
superior	435.143	.045	.035	.045
superior	417.714	.045	.035	.045
superior	395.035	.045	.035	.045
superior	374.659	.05	.4	.05
superior	354.377	.05	.4	.05
superior	334.743	.05	.4	.05
superior	315.248	.05	.4	.05
superior	295.581	.05	.4	.05
superior	274.643	.05	.4	.05
superior	254.479	.05	.4	.05
superior	235.222	.05	.4	.05
superior	215.711	.05	.4	.05
superior	195.639	.05	.4	.05
superior	175.516	.05	.4	.05
superior	154.810	.05	.4	.05
superior	135.098	.05	.4	.05
superior	114.780	.05	.4	.05
superior	94.778	.06	.045	.06
superior	74.522	.06	.045	.06
superior	54.184	.06	.045	.06
superior	50.408*	.06	.045	.06
superior	46.632*	.06	.045	.06
superior	42.856	.06	.045	.06
superior	35	culvert		
superior	25.786	.06	.045	.06

SUMMARY OF REACH LENGTHS

River: innominado

Reach	River Sta.	Left	Channel	Right
superior	732.439	33.55	35.02	35.8
superior	697.415	43.5	41.33	39.58
superior	656.082	38.68	39.41	39.77
superior	616.672	39.17	40.42	41.41
superior	576.256	21.69	21.7	21.6
superior	554.557	19.68	18.75	17.72
superior	535.806	22.16	21.49	20.54
superior	514.322	16.62	17.27	17.85
superior	497.047	20.87	21.11	21.29
superior	475.941	19.08	19.91	20.58
superior	456.031	20.23	20.89	21.24
superior	435.143	16.92	17.43	17.97
superior	417.714	22.31	22.68	22.96
superior	395.035	20.09	20.38	20.67
superior	374.659	20.2	20.28	20.33
superior	354.377	19.41	19.64	19.79
superior	334.743	19.59	19.5	18.97
superior	315.248	19.95	19.67	19.29

superior	295.581	22.27	20.94	19.08
superior	274.643	21.37	20.16	19.06
superior	254.479	18.9	19.26	19.61
superior	235.222	19.18	19.51	19.78
superior	215.711	19.5	20.07	20.4
superior	195.639	19.99	20.12	20.05
superior	175.516	20.08	20.71	21.68
superior	154.810	19.6	19.71	19.58
superior	135.098	20.4	20.32	20.28
superior	114.780	20.37	20	19.67
superior	94.778	20.77	20.26	19.78
superior	74.522	18.75	20.34	21.33
superior	54.184	3.743	3.777	3.507
superior	50.408*	3.743	3.777	3.507
superior	46.632*	3.743	3.777	3.507
superior	42.856	17.7	17.07	17.17
superior	35	Culvert		
superior	25.786	21.34	25.79	25.83

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: innominado

Reach	River Sta.	Contr.	Expan.
superior	732.439	.1	.3
superior	697.415	.1	.3
superior	656.082	.1	.3
superior	616.672	.1	.3
superior	576.256	.1	.3
superior	554.557	.1	.3
superior	535.806	.1	.3
superior	514.322	.1	.3
superior	497.047	.1	.3
superior	475.941	.1	.3
superior	456.031	.1	.3
superior	435.143	.1	.3
superior	417.714	.1	.3
superior	395.035	.1	.3
superior	374.659	.1	.3
superior	354.377	.1	.3
superior	334.743	.1	.3
superior	315.248	.1	.3
superior	295.581	.1	.3
superior	274.643	.1	.3
superior	254.479	.1	.3
superior	235.222	.1	.3
superior	215.711	.1	.3
superior	195.639	.1	.3
superior	175.516	.1	.3
superior	154.810	.1	.3
superior	135.098	.1	.3
superior	114.780	.1	.3
superior	94.778	.1	.3
superior	74.522	.1	.3
superior	54.184	.1	.3
superior	50.408*	.1	.3
superior	46.632*	.1	.3
superior	42.856	.3	.5
superior	35	culvert	
superior	25.786	.1	.3

DILIGENCIA.- aprobado
Inicialmente por el Excmo. Ayuntamiento de Tarifa en se-
sión celebrada el día 27 SET. 2016 . (Artículo 128,5
el Reglamento de Planeamiento Urbanístico).
EL SECRETARIO DEL AYUNTAMIENTO

TABLAS DEL CÁLCULO DEL PROGRAMA HEC-RAS 3.1.3

MAXIMA CRECIDA ORDINARIA - DPH

HEC-RAS Plan: Plan 04 Locations: User Defined Profile: CAUDAL MCO

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Sta W.S. Lft	Sta W.S. Rgt
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		(m)	(m)
innominado	superior	732.439	CAUDAL MCO	3.03	35.12	35.56	35.56	35.70	0.013673	1.72	2.04	8.41	0.90	34.38	42.79
innominado	superior	697.415	CAUDAL MCO	3.03	33.11	33.37	33.56	34.34	0.277392	4.46	0.74	5.54	3.53	30.80	36.34
innominado	superior	656.082	CAUDAL MCO	3.03	30.82	31.14	31.19	31.32	0.029634	2.08	1.82	9.55	1.26	29.73	39.28
innominado	superior	616.672	CAUDAL MCO	3.03	28.92	29.08	29.15	29.31	0.109020	2.65	1.56	13.65	2.19	34.07	47.72
innominado	superior	576.256	CAUDAL MCO	3.03	27.46	27.79	27.79	27.88	0.016662	1.62	2.74	15.74	0.96	32.35	48.09
innominado	superior	554.557	CAUDAL MCO	3.03	26.63	26.91	27.00	27.20	0.070499	2.69	1.46	10.58	1.87	35.31	45.89
innominado	superior	535.806	CAUDAL MCO	3.03	25.87	26.28	26.33	26.45	0.024108	2.00	2.00	11.17	1.16	35.27	46.43
innominado	superior	514.322	CAUDAL MCO	3.03	24.85	25.12	25.24	25.53	0.090027	3.02	1.18	7.49	2.11	36.85	44.34
innominado	superior	497.047	CAUDAL MCO	3.03	24.15	24.51	24.55	24.68	0.027300	2.01	1.92	10.52	1.22	32.15	42.67
innominado	superior	475.941	CAUDAL MCO	3.03	23.44	23.72	23.79	23.93	0.046761	2.30	1.75	12.40	1.54	29.53	41.93
innominado	superior	456.031	CAUDAL MCO	3.03	22.83	23.12	23.14	23.23	0.025710	1.79	2.32	13.92	1.16	36.89	50.81
innominado	superior	435.143	CAUDAL MCO	3.03	22.17	22.51	22.56	22.68	0.026003	2.02	1.91	9.86	1.20	37.62	47.49
innominado	superior	417.714	CAUDAL MCO	3.03	21.54	21.87	21.94	22.11	0.042170	2.39	1.63	9.78	1.49	36.21	46.00
innominado	superior	395.035	CAUDAL MCO	3.03	20.67	20.99	21.05	21.20	0.037233	2.24	1.76	10.90	1.40	33.61	44.51
innominado	superior	374.659	CAUDAL MCO	3.03	19.89	20.28	20.28	20.39	0.056329	0.30	3.13	12.76	0.16	34.01	46.77
innominado	superior	354.377	CAUDAL MCO	3.03	19.03	19.52	19.45	19.58	0.026894	0.24	3.94	13.82	0.11	34.31	48.13
innominado	superior	334.743	CAUDAL MCO	3.03	18.34	18.96	18.89	19.02	0.030648	0.28	4.23	13.93	0.12	32.96	46.90
innominado	superior	315.248	CAUDAL MCO	3.03	17.38	18.07		18.18	0.063959	0.42	3.46	10.31	0.18	30.19	40.50
innominado	superior	295.581	CAUDAL MCO	3.03	16.51	17.18	17.10	17.26	0.035428	0.32	3.87	11.07	0.14	29.36	40.44
innominado	superior	274.643	CAUDAL MCO	3.03	15.64	16.33		16.42	0.048205	0.37	3.70	10.93	0.16	31.29	42.22
innominado	superior	254.479	CAUDAL MCO	3.03	14.80	15.44		15.52	0.042069	0.34	3.76	11.07	0.15	34.20	45.26
innominado	superior	235.222	CAUDAL MCO	3.03	14.01	14.63		14.72	0.041138	0.33	3.81	11.31	0.15	36.47	47.78
innominado	superior	215.711	CAUDAL MCO	3.03	13.62	14.30		14.34	0.010608	0.18	5.35	13.96	0.07	33.86	47.82
innominado	superior	195.639	CAUDAL MCO	3.03	13.21	13.93		14.00	0.030711	0.31	4.14	11.66	0.13	39.26	50.92
innominado	superior	175.516	CAUDAL MCO	3.03	12.89	13.51		13.57	0.016003	0.22	4.41	10.77	0.09	43.13	53.90
innominado	superior	154.810	CAUDAL MCO	3.03	12.52	13.13		13.19	0.020500	0.23	4.34	13.01	0.10	51.69	64.70
innominado	superior	135.098	CAUDAL MCO	3.03	12.15	12.65		12.71	0.028933	0.25	3.64	14.39	0.12	49.12	63.51
innominado	superior	114.780	CAUDAL MCO	3.03	11.75	12.30		12.33	0.012478	0.17	5.13	19.02	0.08	49.50	68.53
innominado	superior	94.778	CAUDAL MCO	3.03	11.49	11.86	11.86	11.96	0.029166	1.65	2.59	13.86	0.98	52.12	65.97
innominado	superior	74.522	CAUDAL MCO	3.03	10.87	11.18	11.20	11.29	0.037395	1.82	2.50	16.38	1.11	38.75	55.13
innominado	superior	54.184	CAUDAL MCO	3.03	9.58	10.28	10.10	10.32	0.004286	0.99	4.55	17.75	0.42	41.90	59.64
innominado	superior	42.856	CAUDAL MCO	3.03	9.23	10.23	9.77	10.28	0.002699	0.92	3.33	4.24	0.33	58.27	62.51
innominado	superior	35		Culvert											

HEC-RAS Plan: Plan 04 Locations: User Defined Profile: CAUDAL MCO

River	Reach	River Sta	Profile	E.G. Elev	W.S. Elev	Vel Head	Frctn Loss	C & E Loss	Q Left	Q Channel	Q Right	Top Width	Flow Area	Flow Area Ch	Flow Area L
				(m)	(m)	(m)	(m)	(m)	(m3/s)	(m3/s)	(m3/s)	(m)	(m2)	(m2)	(m2)
innominado	superior	732.439	CAUDAL MCO	35.70	35.56	0.14	0.50	0.00	0.11	2.80	0.12	8.41	2.04	1.63	0.20
innominado	superior	697.415	CAUDAL MCO	34.34	33.37	0.97	1.28	0.08		2.88	0.16	5.54	0.74	0.64	
innominado	superior	656.082	CAUDAL MCO	31.32	31.14	0.18	2.77	0.24	0.16	2.36	0.52	9.55	1.82	1.14	0.19
innominado	superior	616.672	CAUDAL MCO	29.31	29.08	0.23	2.01	0.00	1.17	1.28	0.58	13.65	1.56	0.48	0.70
innominado	superior	576.256	CAUDAL MCO	27.88	27.79	0.09	1.39	0.04	0.55	1.79	0.70	15.74	2.74	1.10	0.69
innominado	superior	554.557	CAUDAL MCO	27.20	26.91	0.30	0.65	0.02	0.04	2.27	0.72	10.58	1.46	0.85	0.05
innominado	superior	535.806	CAUDAL MCO	26.45	26.28	0.17	0.71	0.04	0.18	2.38	0.48	11.17	2.00	1.19	0.23
innominado	superior	514.322	CAUDAL MCO	25.53	25.12	0.41	0.90	0.02	0.44	2.55	0.05	7.49	1.18	0.84	0.28
innominado	superior	497.047	CAUDAL MCO	24.68	24.51	0.17	0.78	0.07	0.56	2.37	0.11	10.52	1.92	1.18	0.58
innominado	superior	475.941	CAUDAL MCO	23.93	23.72	0.22	0.74	0.00	0.61	2.29	0.13	12.40	1.75	1.00	0.59
innominado	superior	456.031	CAUDAL MCO	23.23	23.12	0.12	0.67	0.03	0.49	1.80	0.74	13.92	2.32	1.00	0.58
innominado	superior	435.143	CAUDAL MCO	22.68	22.51	0.17	0.54	0.01	0.11	2.29	0.63	9.86	1.91	1.13	0.16
innominado	superior	417.714	CAUDAL MCO	22.11	21.87	0.24	0.57	0.01	0.10	2.38	0.56	9.78	1.63	1.00	0.12
innominado	superior	395.035	CAUDAL MCO	21.20	20.99	0.21	0.90	0.01	0.21	2.38	0.44	10.90	1.76	1.06	0.25
innominado	superior	374.659	CAUDAL MCO	20.39	20.28	0.11	0.76	0.01	1.22	0.45	1.37	12.76	3.13	1.50	0.82
innominado	superior	354.377	CAUDAL MCO	19.58	19.52	0.06	0.56	0.00	1.72	0.43	0.89	13.82	3.94	1.74	1.41
innominado	superior	334.743	CAUDAL MCO	19.02	18.96	0.06	0.83	0.00	1.96	0.63	0.44	13.93	4.23	2.28	1.52
innominado	superior	315.248	CAUDAL MCO	18.18	18.07	0.11	0.91	0.01	1.37	0.94	0.73	10.31	3.46	2.24	0.76
innominado	superior	295.581	CAUDAL MCO	17.26	17.18	0.08	0.84	0.00	0.88	0.71	1.45	11.07	3.87	2.23	0.63
innominado	superior	274.643	CAUDAL MCO	16.42	16.33	0.09	0.90	0.00	0.68	0.83	1.52	10.93	3.70	2.27	0.46
innominado	superior	254.479	CAUDAL MCO	15.52	15.44	0.09	0.80	0.00	1.10	0.75	1.18	11.07	3.76	2.23	0.73
innominado	superior	235.222	CAUDAL MCO	14.72	14.63	0.09	0.36	0.01	0.90	0.75	1.38	11.31	3.81	2.27	0.64
innominado	superior	215.711	CAUDAL MCO	14.34	14.30	0.04	0.34	0.00	1.80	0.45	0.78	13.96	5.35	2.53	1.86
innominado	superior	195.639	CAUDAL MCO	14.00	13.93	0.07	0.43	0.00	0.66	0.74	1.64	11.66	4.14	2.40	0.57
innominado	superior	175.516	CAUDAL MCO	13.57	13.51	0.06	0.38	0.00	0.46	0.49	2.08	10.77	4.41	2.25	0.47
innominado	superior	154.810	CAUDAL MCO	13.19	13.13	0.06	0.47	0.00	1.19	0.49	1.36	13.01	4.34	2.08	0.99
innominado	superior	135.098	CAUDAL MCO	12.71	12.65	0.06	0.37	0.01	0.26	0.33	2.44	14.39	3.64	1.35	0.28
innominado	superior	114.780	CAUDAL MCO	12.33	12.30	0.03	0.36	0.01	0.68	0.30	2.05	19.02	5.13	1.80	0.66
innominado	superior	94.778	CAUDAL MCO	11.96	11.86	0.10	0.54	0.00	0.03	1.85	1.15	13.86	2.59	1.12	0.06
innominado	superior	74.522	CAUDAL MCO	11.29	11.18	0.12	0.67	0.00	0.93	1.95	0.15	16.38	2.50	1.07	1.24
innominado	superior	54.184	CAUDAL MCO	10.32	10.28	0.04	0.04	0.00	0.55	2.30	0.19	17.75	4.55	2.33	1.77
innominado	superior	42.856	CAUDAL MCO	10.28	10.23	0.04			0.00	3.03	0.00	4.24	3.33	3.31	0.00
innominado	superior	35		Culvert											

AUSENCIA.

Aprobado definitivamente por el Excmo. Ayuntamiento de Tarifa en sesión celebrada el día 27 SET. 2016 (Artículo 128,5 del Reglamento de Planeamiento Urbanístico).

EL SECRETARIO DEL AYUNTAMIENTO

AYUNTAMIENTO DE TARIFA

HEC-RAS Plan: Plan 04 River: innominado Reach: superior Profile: CAUDAL MCO

Reach	River Sta	Profile	E.G. US.	W.S. US.	E.G. IC	E.G. OC	Min El Weir Flow	Q Culv Group	Q Weir	Delta WS	Culv Vel US	Culv Vel DS
			(m)	(m)	(m)	(m)	(m)	(m3/s)	(m3/s)	(m)	(m/s)	(m/s)
superior	35 PASO 1	CAUDAL MCO	10.28	10.23	10.16	10.28	12.60	3.03		0.95	2.46	3.47

TABLAS DEL CÁLCULO DEL PROGRAMA HEC-RAS 3.1.3

ESCENARIO ESTADO ACTUAL

HEC-RAS Plan: Plan 04 Locations: User Defined

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Sta W.S. Lft	Sta W.S. Rgt
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		(m)	(m)
innominado	superior	732.439	10 AÑOS	3.76	35.12	35.61	35.61	35.76	0.012750	1.81	2.49	9.44	0.89	33.80	43.24
innominado	superior	732.439	50 AÑOS	5.20	35.12	35.69	35.69	35.86	0.011683	1.96	3.37	11.14	0.88	32.85	43.99
innominado	superior	732.439	100 AÑOS	5.81	35.12	35.72	35.72	35.90	0.011399	2.01	3.73	11.75	0.87	32.52	44.27
innominado	superior	732.439	500 AÑOS	7.80	35.12	35.81	35.81	36.01	0.011184	2.20	4.78	13.27	0.89	31.74	45.01
innominado	superior	697.415	10 AÑOS	3.76	33.11	33.39	33.60	34.47	0.262900	4.73	0.88	6.40	3.52	30.30	36.70
innominado	superior	697.415	50 AÑOS	5.20	33.11	33.43	33.67	34.66	0.235703	5.14	1.17	7.46	3.44	29.88	37.33
innominado	superior	697.415	100 AÑOS	5.81	33.11	33.45	33.70	34.73	0.226041	5.27	1.30	7.81	3.41	29.77	37.58
innominado	superior	697.415	500 AÑOS	7.80	33.11	33.50	33.78	34.87	0.196064	5.56	1.71	8.68	3.28	29.44	38.12
innominado	superior	656.082	10 AÑOS	3.76	30.82	31.17	31.23	31.38	0.030876	2.26	2.11	10.23	1.31	29.33	39.56
innominado	superior	656.082	50 AÑOS	5.20	30.82	31.22	31.30	31.49	0.033132	2.59	2.62	11.24	1.39	28.80	40.03
innominado	superior	656.082	100 AÑOS	5.81	30.82	31.24	31.32	31.53	0.033939	2.70	2.83	11.60	1.42	28.61	40.21
innominado	superior	656.082	500 AÑOS	7.80	30.82	31.29	31.40	31.65	0.036245	3.05	3.45	12.64	1.50	28.06	40.70
innominado	superior	616.672	10 AÑOS	3.76	28.92	29.10	29.17	29.35	0.103239	2.80	1.84	14.13	2.18	33.77	47.90
innominado	superior	616.672	50 AÑOS	5.20	28.92	29.13	29.22	29.43	0.094711	3.04	2.35	14.99	2.15	33.22	48.22
innominado	superior	616.672	100 AÑOS	5.81	28.92	29.15	29.24	29.46	0.092494	3.14	2.56	15.32	2.15	33.02	48.34
innominado	superior	616.672	500 AÑOS	7.80	28.92	29.19	29.30	29.54	0.086636	3.40	3.20	16.21	2.14	32.40	48.62
innominado	superior	576.256	10 AÑOS	3.76	27.46	27.81	27.82	27.92	0.017033	1.74	3.20	16.76	0.98	32.03	48.79
innominado	superior	576.256	50 AÑOS	5.20	27.46	27.86	27.87	27.98	0.017689	1.95	4.04	18.62	1.03	31.35	49.97
innominado	superior	576.256	100 AÑOS	5.81	27.46	27.88	27.89	28.01	0.017905	2.02	4.38	19.29	1.04	31.12	50.41
innominado	superior	576.256	500 AÑOS	7.80	27.46	27.93	27.95	28.08	0.018572	2.24	5.41	21.18	1.08	30.49	51.67
innominado	superior	554.557	10 AÑOS	3.76	26.63	26.94	27.04	27.25	0.064562	2.81	1.79	11.91	1.83	34.91	46.82
innominado	superior	554.557	50 AÑOS	5.20	26.63	26.98	27.09	27.32	0.057962	3.00	2.41	13.96	1.78	34.24	48.20
innominado	superior	554.557	100 AÑOS	5.81	26.63	27.00	27.11	27.35	0.056155	3.08	2.67	14.64	1.77	34.06	48.69
innominado	superior	554.557	500 AÑOS	7.80	26.63	27.05	27.17	27.43	0.051971	3.28	3.45	16.29	1.75	33.50	49.79
innominado	superior	535.806	10 AÑOS	3.76	25.87	26.31	26.37	26.51	0.025128	2.17	2.35	12.21	1.20	34.89	47.09
innominado	superior	535.806	50 AÑOS	5.20	25.87	26.36	26.43	26.59	0.026266	2.44	3.01	13.93	1.26	34.31	48.23
innominado	superior	535.806	100 AÑOS	5.81	25.87	26.38	26.46	26.63	0.026720	2.54	3.27	14.50	1.28	34.07	48.57
innominado	superior	535.806	500 AÑOS	7.80	25.87	26.44	26.52	26.72	0.027525	2.80	4.10	16.19	1.32	33.39	49.58
innominado	superior	514.322	10 AÑOS	3.76	24.85	25.15	25.28	25.59	0.081327	3.15	1.42	8.06	2.05	36.60	44.66
innominado	superior	514.322	50 AÑOS	5.20	24.85	25.21	25.36	25.69	0.071263	3.38	1.90	9.06	1.98	36.17	45.23
innominado	superior	514.322	100 AÑOS	5.81	24.85	25.23	25.38	25.73	0.068236	3.47	2.09	9.44	1.96	36.01	45.44
innominado	superior	514.322	500 AÑOS	7.80	24.85	25.29	25.46	25.85	0.061417	3.71	2.71	10.56	1.92	35.52	46.08
innominado	superior	497.047	10 AÑOS	3.76	24.15	24.53	24.59	24.73	0.029339	2.21	2.20	11.19	1.28	31.83	43.02
innominado	superior	497.047	50 AÑOS	5.20	24.15	24.58	24.65	24.83	0.032220	2.54	2.72	12.36	1.37	31.27	43.62
innominado	superior	497.047	100 AÑOS	5.81	24.15	24.59	24.68	24.87	0.033297	2.66	2.93	12.78	1.40	31.06	43.84
innominado	superior	497.047	500 AÑOS	7.80	24.15	24.64	24.75	24.99	0.036248	3.01	3.56	14.02	1.50	30.47	44.48
innominado	superior	475.941	10 AÑOS	3.76	23.44	23.75	23.82	23.98	0.044630	2.42	2.11	13.61	1.53	28.71	42.32
innominado	superior	475.941	50 AÑOS	5.20	23.44	23.79	23.88	24.05	0.042846	2.65	2.77	15.57	1.54	27.37	42.94
innominado	superior	475.941	100 AÑOS	5.81	23.44	23.81	23.90	24.08	0.042307	2.73	3.04	16.30	1.55	26.87	43.16
innominado	superior	475.941	500 AÑOS	7.80	23.44	23.86	23.95	24.16	0.040926	2.95	3.89	18.44	1.56	25.41	43.85
innominado	superior	456.031	10 AÑOS	3.76	22.83	23.14	23.16	23.27	0.026774	1.95	2.67	14.61	1.20	36.36	50.97
innominado	superior	456.031	50 AÑOS	5.20	22.83	23.18	23.22	23.35	0.027656	2.19	3.33	15.74	1.25	35.52	51.26
innominado	superior	456.031	100 AÑOS	5.81	22.83	23.20	23.24	23.38	0.027968	2.28	3.59	16.14	1.27	35.23	51.37
innominado	superior	456.031	500 AÑOS	7.80	22.83	23.25	23.30	23.46	0.028989	2.54	4.38	17.37	1.32	34.33	51.69

HEC-RAS Plan: Plan 04 Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Sta W.S. Lft	Sta W.S. Rgt
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		(m)	(m)
innominado	superior	435.143	10 AÑOS	3.76	22.17	22.55	22.60	22.74	0.024368	2.13	2.31	10.81	1.18	37.19	48.00
innominado	superior	435.143	50 AÑOS	5.20	22.17	22.62	22.67	22.82	0.022689	2.31	3.05	12.30	1.17	36.47	48.78
innominado	superior	435.143	100 AÑOS	5.81	22.17	22.64	22.69	22.86	0.022187	2.38	3.36	12.84	1.17	36.20	49.05
innominado	superior	435.143	500 AÑOS	7.80	22.17	22.71	22.76	22.95	0.020843	2.56	4.31	14.33	1.17	35.42	49.75
innominado	superior	417.714	10 AÑOS	3.76	21.54	21.89	21.98	22.17	0.043374	2.59	1.90	10.59	1.54	35.90	46.49
innominado	superior	417.714	50 AÑOS	5.20	21.54	21.94	22.05	22.27	0.044016	2.89	2.45	12.00	1.59	35.35	47.36
innominado	superior	417.714	100 AÑOS	5.81	21.54	21.96	22.07	22.31	0.044186	3.00	2.67	12.53	1.61	35.15	47.68
innominado	superior	417.714	500 AÑOS	7.80	21.54	22.01	22.14	22.42	0.044815	3.30	3.34	13.91	1.66	34.57	48.48
innominado	superior	395.035	10 AÑOS	3.76	20.67	21.02	21.09	21.25	0.036979	2.39	2.08	11.60	1.42	33.25	44.85
innominado	superior	395.035	50 AÑOS	5.20	20.67	21.06	21.15	21.34	0.037183	2.65	2.64	12.44	1.46	32.82	45.26
innominado	superior	395.035	100 AÑOS	5.81	20.67	21.08	21.17	21.37	0.037258	2.75	2.87	12.74	1.48	32.66	45.40
innominado	superior	395.035	500 AÑOS	7.80	20.67	21.13	21.24	21.47	0.037180	3.01	3.56	13.62	1.51	32.17	45.79
innominado	superior	374.659	10 AÑOS	3.76	19.89	20.32	20.32	20.44	0.052883	0.31	3.62	13.37	0.16	33.64	47.01
innominado	superior	374.659	50 AÑOS	5.20	19.89	20.38	20.38	20.52	0.048767	0.33	4.51	14.46	0.15	32.93	47.39
innominado	superior	374.659	100 AÑOS	5.81	19.89	20.41	20.41	20.55	0.047247	0.33	4.87	14.86	0.15	32.67	47.53
innominado	superior	374.659	500 AÑOS	7.80	19.89	20.48	20.48	20.65	0.044137	0.35	5.98	16.16	0.15	31.79	47.96
innominado	superior	354.377	10 AÑOS	3.76	19.03	19.55	19.49	19.63	0.028980	0.26	4.39	14.54	0.12	33.92	48.46
innominado	superior	354.377	50 AÑOS	5.20	19.03	19.61	19.56	19.71	0.029337	0.29	5.34	15.90	0.12	33.16	49.06
innominado	superior	354.377	100 AÑOS	5.81	19.03	19.64	19.58	19.74	0.029147	0.30	5.72	16.36	0.12	32.87	49.22
innominado	superior	354.377	500 AÑOS	7.80	19.03	19.70	19.65	19.82	0.029518	0.32	6.84	17.65	0.13	32.03	49.68
innominado	superior	334.743	10 AÑOS	3.76	18.34	19.01		19.08	0.027087	0.28	4.97	15.14	0.12	32.14	47.28
innominado	superior	334.743	50 AÑOS	5.20	18.34	19.07		19.16	0.026586	0.29	5.97	16.08	0.12	31.52	47.60
innominado	superior	334.743	100 AÑOS	5.81	18.34	19.10		19.19	0.026525	0.30	6.36	16.43	0.12	31.28	47.71
innominado	superior	334.743	500 AÑOS	7.80	18.34	19.17		19.28	0.025865	0.32	7.59	17.48	0.12	30.58	48.06
innominado	superior	315.248	10 AÑOS	3.76	17.38	18.10		18.24	0.076251	0.47	3.70	10.66	0.20	30.01	40.67
innominado	superior	315.248	50 AÑOS	5.20	17.38	18.17		18.34	0.073276	0.50	4.46	11.68	0.20	29.48	41.17
innominado	superior	315.248	100 AÑOS	5.81	17.38	18.19		18.38	0.071914	0.51	4.76	12.07	0.20	29.28	41.35
innominado	superior	315.248	500 AÑOS	7.80	17.38	18.26		18.49	0.070509	0.54	5.65	13.14	0.20	28.73	41.87
innominado	superior	295.581	10 AÑOS	3.76	16.51	17.24		17.32	0.030714	0.32	4.54	11.88	0.13	29.06	40.94
innominado	superior	295.581	50 AÑOS	5.20	16.51	17.31		17.41	0.031806	0.34	5.41	12.86	0.13	28.69	41.55
innominado	superior	295.581	100 AÑOS	5.81	16.51	17.33		17.45	0.032322	0.36	5.74	13.22	0.13	28.56	41.78
innominado	superior	295.581	500 AÑOS	7.80	16.51	17.41		17.55	0.032948	0.39	6.79	14.28	0.14	28.16	42.44
innominado	superior	274.643	10 AÑOS	3.76	15.64	16.35		16.47	0.059402	0.42	3.93	11.27	0.18	31.18	42.45
innominado	superior	274.643	50 AÑOS	5.20	15.64	16.42		16.57	0.056334	0.44	4.77	12.42	0.17	30.79	43.20
innominado	superior	274.643	100 AÑOS	5.81	15.64	16.45		16.60	0.054980	0.45	5.11	12.85	0.17	30.63	43.48
innominado	superior	274.643	500 AÑOS	7.80	15.64	16.52		16.71	0.053546	0.47	6.09	14.00	0.17	30.22	44.22
innominado	superior	254.479	10 AÑOS	3.76	14.80	15.50		15.59	0.033688	0.33	4.51	12.06	0.13	33.73	45.80
innominado	superior	254.479	50 AÑOS	5.20	14.80	15.57		15.68	0.035386	0.36	5.35	13.03	0.14	33.28	46.31
innominado	superior	254.479	100 AÑOS	5.81	14.80	15.59		15.71	0.036248	0.37	5.66	13.38	0.14	33.11	46.49
innominado	superior	254.479	500 AÑOS	7.80	14.80	15.66		15.81	0.037281	0.40	6.68	14.50	0.15	32.59	47.10
innominado	superior	235.222	10 AÑOS	5.26	14.01	14.75		14.87	0.039582	0.37	5.26	13.12	0.15	35.62	48.74
innominado	superior	235.222	50 AÑOS	7.25	14.01	14.84		14.98	0.036666	0.39	6.48	14.47	0.14	34.99	49.46
innominado	superior	235.222	100 AÑOS	8.09	14.01	14.87		15.02	0.035518	0.39	6.98	14.99	0.14	34.74	49.73
innominado	superior	235.222	500 AÑOS	10.84	14.01	14.97		15.14	0.033513	0.41	8.47	16.43	0.14	34.07	50.49

HEC-RAS Plan: Plan 04 Locations: User Defined (Continued)

River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl	Sta W.S. Lft	Sta W.S. Rgt
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)		(m)	(m)
innominado	superior	215.711	10 AÑOS	5.26	13.62	14.45		14.50	0.010278	0.20	7.53	16.04	0.08	32.85	48.39
innominado	superior	215.711	50 AÑOS	7.25	13.62	14.54		14.60	0.010889	0.23	9.02	17.31	0.08	32.24	49.55
innominado	superior	215.711	100 AÑOS	8.09	13.62	14.57		14.64	0.011164	0.24	9.59	17.76	0.08	32.01	49.78
innominado	superior	215.711	500 AÑOS	10.84	13.62	14.66		14.75	0.011953	0.26	11.28	19.03	0.09	31.40	50.43
innominado	superior	195.639	10 AÑOS	5.26	13.21	14.04		14.15	0.035189	0.37	5.46	13.56	0.14	38.28	51.83
innominado	superior	195.639	50 AÑOS	7.25	13.21	14.14		14.26	0.030502	0.37	6.91	15.57	0.13	37.09	52.66
innominado	superior	195.639	100 AÑOS	8.09	13.21	14.18		14.30	0.028604	0.37	7.52	16.34	0.13	36.65	52.99
innominado	superior	195.639	500 AÑOS	10.84	13.21	14.29		14.41	0.024209	0.37	9.50	18.67	0.12	35.27	53.94
innominado	superior	175.516	10 AÑOS	5.26	12.89	13.75		13.80	0.009377	0.21	7.31	13.29	0.07	42.20	55.49
innominado	superior	175.516	50 AÑOS	7.25	12.89	13.87		13.94	0.009088	0.23	9.03	14.58	0.08	41.73	56.31
innominado	superior	175.516	100 AÑOS	8.09	12.89	13.91		13.98	0.009071	0.23	9.69	15.04	0.08	41.56	56.60
innominado	superior	175.516	500 AÑOS	10.84	12.89	14.04		14.12	0.009091	0.25	11.66	16.34	0.08	41.07	57.41
innominado	superior	154.810	10 AÑOS	5.26	12.52	13.32	13.26	13.45	0.033086	0.33	5.13	11.24	0.12	55.72	66.96
innominado	superior	154.810	50 AÑOS	7.25	12.52	13.39	13.36	13.57	0.039945	0.38	5.87	11.97	0.14	55.72	67.68
innominado	superior	154.810	100 AÑOS	8.09	12.52	13.42	13.40	13.61	0.040825	0.39	6.21	12.25	0.14	55.72	67.97
innominado	superior	154.810	500 AÑOS	10.84	12.52	13.50	13.50	13.74	0.042353	0.42	7.32	13.18	0.14	55.72	68.90
innominado	superior	135.098	10 AÑOS	5.26	12.15	12.78	12.72	12.87	0.025803	0.25	5.25	15.41	0.11	51.00	66.41
innominado	superior	135.098	50 AÑOS	7.25	12.15	12.88	12.80	12.97	0.021988	0.25	6.80	17.42	0.10	51.00	68.42
innominado	superior	135.098	100 AÑOS	8.09	12.15	12.90	12.82	13.01	0.022270	0.26	7.26	17.89	0.10	51.00	68.89
innominado	superior	135.098	500 AÑOS	10.84	12.15	12.98	12.90	13.10	0.023163	0.28	8.75	19.84	0.10	51.00	70.84
innominado	superior	114.780	10 AÑOS	5.26	11.75	12.43	12.31	12.48	0.014289	0.21	7.09	21.17	0.09	51.25	72.42
innominado	superior	114.780	50 AÑOS	7.25	11.75	12.46	12.37	12.53	0.020740	0.27	7.72	22.08	0.11	51.25	73.33
innominado	superior	114.780	100 AÑOS	8.09	11.75	12.48	12.39	12.56	0.020822	0.27	8.25	22.65	0.11	51.25	73.90
innominado	superior	114.780	500 AÑOS	10.84	11.75	12.55	12.46	12.65	0.021134	0.29	9.86	24.31	0.11	51.25	75.56
innominado	superior	94.778	10 AÑOS	5.26	11.49	11.96	11.96	12.08	0.027608	1.94	3.97	15.96	1.00	52.50	68.46
innominado	superior	94.778	50 AÑOS	7.25	11.49	12.09	12.09	12.18	0.015747	1.77	7.56	34.40	0.79	52.50	86.90
innominado	superior	94.778	100 AÑOS	8.09	11.49	12.10	12.10	12.20	0.016489	1.85	8.05	34.57	0.82	52.50	87.07
innominado	superior	94.778	500 AÑOS	10.84	11.49	12.14	12.14	12.26	0.018455	2.06	9.55	35.07	0.87	52.50	87.57
innominado	superior	74.522	10 AÑOS	5.26	10.87	11.24	11.29	11.40	0.041353	2.21	3.66	18.54	1.21	36.94	55.48
innominado	superior	74.522	50 AÑOS	7.25	10.87	11.24	11.34	11.55	0.077238	3.03	3.69	18.58	1.65	36.91	55.49
innominado	superior	74.522	100 AÑOS	8.09	10.87	11.27	11.36	11.57	0.070782	3.05	4.22	20.71	1.60	34.92	55.63
innominado	superior	74.522	500 AÑOS	10.84	10.87	11.72	11.42	11.76	0.003246	1.11	14.78	25.70	0.39	33.10	58.80
innominado	superior	54.184	10 AÑOS	5.26	9.58	10.76	10.27	10.77	0.000641	0.58	13.79	20.43	0.18	40.85	61.28
innominado	superior	54.184	50 AÑOS	7.25	9.58	11.13	10.34	11.14	0.000321	0.50	21.77	22.29	0.13	40.24	62.53
innominado	superior	54.184	100 AÑOS	8.09	9.58	11.28	10.36	11.29	0.000262	0.48	25.05	22.65	0.12	40.17	62.82
innominado	superior	54.184	500 AÑOS	10.84	9.58	11.74		11.74	0.000161	0.45	35.68	23.76	0.10	39.95	63.71
innominado	superior	42.856	10 AÑOS	5.26	9.23	10.71	9.98	10.76	0.001739	1.00	5.33	4.57	0.28	58.25	62.82
innominado	superior	42.856	50 AÑOS	7.25	9.23	11.07	10.11	11.13	0.001426	1.07	6.87	6.59	0.27	57.62	64.21
innominado	superior	42.856	100 AÑOS	8.09	9.23	11.21	10.16	11.27	0.001342	1.10	7.48	8.42	0.26	57.00	65.42
innominado	superior	42.856	500 AÑOS	10.84	9.23	11.66	10.32	11.73	0.001137	1.17	9.39	13.19	0.25	54.57	67.76
innominado	superior	35		Culvert											

HEC-RAS Plan: Plan 04 Locations: User Defined

River	Reach	River Sta	Profile	E.G. Elev	W.S. Elev	Vel Head	Frctn Loss	C & E Loss	Q Left	Q Channel	Q Right	Top Width	Flow Area	Flow Area Ch	Flow Area L
				(m)	(m)	(m)	(m)	(m)	(m3/s)	(m3/s)	(m3/s)	(m)	(m2)	(m2)	(m2)
innominado	superior	732.439	10 AÑOS	35.76	35.61	0.15	0.47	0.00	0.20	3.35	0.21	9.44	2.49	1.85	0.33
innominado	superior	732.439	50 AÑOS	35.86	35.69	0.17	0.44	0.00	0.43	4.36	0.41	11.14	3.37	2.22	0.60
innominado	superior	732.439	100 AÑOS	35.90	35.72	0.17	0.44	0.00	0.54	4.75	0.51	11.75	3.73	2.36	0.72
innominado	superior	732.439	500 AÑOS	36.01	35.81	0.20	0.42	0.00	0.95	5.99	0.86	13.27	4.78	2.73	1.09
innominado	superior	697.415	10 AÑOS	34.47	33.39	1.08	1.20	0.09	0.00	3.50	0.25	6.40	0.88	0.74	0.00
innominado	superior	697.415	50 AÑOS	34.66	33.43	1.23	1.09	0.11	0.05	4.67	0.48	7.46	1.17	0.91	0.04
innominado	superior	697.415	100 AÑOS	34.73	33.45	1.28	1.06	0.11	0.07	5.14	0.60	7.81	1.30	0.97	0.05
innominado	superior	697.415	500 AÑOS	34.87	33.50	1.37	1.02	0.12	0.20	6.54	1.05	8.68	1.71	1.18	0.11
innominado	superior	656.082	10 AÑOS	31.38	31.17	0.21	2.82	0.26	0.23	2.84	0.69	10.23	2.11	1.26	0.26
innominado	superior	656.082	50 AÑOS	31.49	31.22	0.27	2.89	0.29	0.40	3.76	1.04	11.24	2.62	1.45	0.38
innominado	superior	656.082	100 AÑOS	31.53	31.24	0.29	2.90	0.30	0.48	4.13	1.19	11.60	2.83	1.53	0.44
innominado	superior	656.082	500 AÑOS	31.65	31.29	0.36	2.92	0.30	0.78	5.30	1.72	12.64	3.45	1.74	0.61
innominado	superior	616.672	10 AÑOS	29.35	29.10	0.25	2.03	0.00	1.47	1.53	0.75	14.13	1.84	0.55	0.84
innominado	superior	616.672	50 AÑOS	29.43	29.13	0.29	2.06	0.00	2.08	2.02	1.10	14.99	2.35	0.66	1.09
innominado	superior	616.672	100 AÑOS	29.46	29.15	0.31	2.07	0.00	2.33	2.22	1.25	15.32	2.56	0.71	1.19
innominado	superior	616.672	500 AÑOS	29.54	29.19	0.36	2.10	0.00	3.18	2.86	1.76	16.21	3.20	0.84	1.50
innominado	superior	576.256	10 AÑOS	27.92	27.81	0.10	1.39	0.05	0.72	2.11	0.93	16.76	3.20	1.21	0.84
innominado	superior	576.256	50 AÑOS	27.98	27.86	0.12	1.39	0.05	1.07	2.71	1.43	18.62	4.04	1.39	1.10
innominado	superior	576.256	100 AÑOS	28.01	27.88	0.13	1.39	0.05	1.22	2.95	1.64	19.29	4.38	1.46	1.21
innominado	superior	576.256	500 AÑOS	28.08	27.93	0.15	1.40	0.06	1.73	3.69	2.38	21.18	5.41	1.65	1.53
innominado	superior	554.557	10 AÑOS	27.25	26.94	0.31	0.64	0.02	0.08	2.70	0.98	11.91	1.79	0.96	0.09
innominado	superior	554.557	50 AÑOS	27.32	26.98	0.34	0.64	0.02	0.18	3.48	1.54	13.96	2.41	1.16	0.18
innominado	superior	554.557	100 AÑOS	27.35	27.00	0.35	0.63	0.02	0.24	3.78	1.79	14.64	2.67	1.23	0.22
innominado	superior	554.557	500 AÑOS	27.43	27.05	0.38	0.63	0.02	0.43	4.69	2.68	16.29	3.45	1.43	0.35
innominado	superior	535.806	10 AÑOS	26.51	26.31	0.19	0.71	0.04	0.25	2.83	0.67	12.21	2.35	1.30	0.30
innominado	superior	535.806	50 AÑOS	26.59	26.36	0.23	0.70	0.03	0.44	3.66	1.10	13.93	3.01	1.50	0.45
innominado	superior	535.806	100 AÑOS	26.63	26.38	0.24	0.69	0.03	0.52	3.99	1.30	14.50	3.27	1.57	0.51
innominado	superior	535.806	500 AÑOS	26.72	26.44	0.28	0.68	0.03	0.81	4.99	1.99	16.19	4.10	1.78	0.71
innominado	superior	514.322	10 AÑOS	25.59	25.15	0.44	0.89	0.02	0.60	3.06	0.09	8.06	1.42	0.97	0.36
innominado	superior	514.322	50 AÑOS	25.69	25.21	0.49	0.87	0.03	0.94	4.04	0.22	9.06	1.90	1.19	0.52
innominado	superior	514.322	100 AÑOS	25.73	25.23	0.50	0.87	0.03	1.09	4.44	0.28	9.44	2.09	1.28	0.59
innominado	superior	514.322	500 AÑOS	25.85	25.29	0.56	0.85	0.03	1.60	5.67	0.54	10.56	2.71	1.53	0.81
innominado	superior	497.047	10 AÑOS	24.73	24.53	0.20	0.79	0.07	0.75	2.85	0.17	11.19	2.20	1.29	0.70
innominado	superior	497.047	50 AÑOS	24.83	24.58	0.26	0.79	0.07	1.14	3.74	0.31	12.36	2.72	1.47	0.91
innominado	superior	497.047	100 AÑOS	24.87	24.59	0.28	0.79	0.07	1.32	4.11	0.38	12.78	2.93	1.54	1.00
innominado	superior	497.047	500 AÑOS	24.99	24.64	0.35	0.80	0.06	1.91	5.25	0.64	14.02	3.56	1.74	1.27
innominado	superior	475.941	10 AÑOS	23.98	23.75	0.23	0.75	0.00	0.84	2.71	0.20	13.61	2.11	1.12	0.77
innominado	superior	475.941	50 AÑOS	24.05	23.79	0.26	0.78	0.00	1.34	3.49	0.37	15.57	2.77	1.32	1.10
innominado	superior	475.941	100 AÑOS	24.08	23.81	0.27	0.79	0.00	1.57	3.80	0.44	16.30	3.04	1.39	1.25
innominado	superior	475.941	500 AÑOS	24.16	23.86	0.31	0.81	0.01	2.34	4.75	0.71	18.44	3.89	1.61	1.70
innominado	superior	456.031	10 AÑOS	23.27	23.14	0.13	0.68	0.03	0.66	2.15	0.96	14.61	2.67	1.10	0.71
innominado	superior	456.031	50 AÑOS	23.35	23.18	0.16	0.67	0.03	1.01	2.80	1.38	15.74	3.33	1.28	0.96
innominado	superior	456.031	100 AÑOS	23.38	23.20	0.18	0.67	0.03	1.18	3.07	1.56	16.14	3.59	1.35	1.07
innominado	superior	456.031	500 AÑOS	23.46	23.25	0.21	0.68	0.03	1.73	3.91	2.15	17.37	4.38	1.54	1.40