

LIST OF FLOW MEASUREMENT

ST.: 4-280 MACHIYA FERRY

NO.	DATE	[Feet - Second]				++++[Meter - Second]+++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
1	13-Aug-62	12.16	3130	4120	0.76	3.71	89	383	0.23
2	15-Sep-62	10.40	1790	3610	0.50	3.17	51	335	0.15
3	14-Jun-63	14.02	4480	4880	0.92	4.27	127	453	0.23
4	26-Jun-63	13.46	3780	4480	0.84	4.10	107	416	0.26
5	24-Aug-63	10.92	2210	3800	0.58	3.33	63	353	0.18
6	30-Aug-63	10.66	2060	4470	0.46	3.25	58	415	0.14
7	06-Sep-63	10.36	1770	3470	0.51	3.16	50	322	0.16
8	13-Sep-63	10.10	1510	3350	0.45	3.08	43	311	0.14
9	20-Sep-63	9.76	1520	3220	0.47	2.97	43	299	0.14
10	27-Sep-63	9.48	1370	3130	0.44	2.89	39	291	0.13
11	04-Oct-63	9.20	1160	3050	0.38	2.80	33	283	0.12
12	11-Oct-63	9.02	1060	3220	0.33	2.75	30	299	0.10
13	18-Oct-63	8.82	1040	3100	0.34	2.69	29	288	0.10
14	25-Oct-63	8.52	925	2860	0.32	2.60	26	266	0.10
15	01-Nov-63	8.94	1050	2990	0.35	2.72	30	278	0.11
16	08-Nov-63	9.60	1440	3210	0.45	2.93	41	298	0.14
17	15-Nov-63	10.30	1910	3640	0.53	3.14	54	338	0.16
18	22-Nov-63	10.14	1740	3920	0.44	3.09	49	364	0.13
19	29-Nov-63	11.34	2480	3830	0.65	3.46	70	356	0.20
20	06-Dec-63	11.58	2930	3970	0.74	3.53	83	369	0.23
21	13-Dec-63	14.10	4720	4750	0.99	4.30	134	441	0.30
22	20-Dec-63	14.38	4880	4890	1.00	4.38	138	454	0.30
23	27-Dec-63	13.97	4610	4730	0.97	4.26	131	439	0.30
24	03-Jan-64	13.97	4570	4680	0.98	4.26	129	435	0.30
25	10-Jan-64	15.01	5630	5110	1.10	4.58	159	475	0.34
26	17-Jan-64	18.09	8880	6280	1.41	5.51	251	583	0.43
27	25-Jan-64	17.40	7530	6000	1.26	5.30	213	557	0.33
28	31-Jan-64	18.48	9220	6270	1.47	5.63	261	583	0.45
29	07-Feb-64	20.86	12800	7500	1.71	6.36	362	697	0.52
30	12-Feb-64	22.72	15300	8920	1.72	6.93	433	829	0.52
31	11-Mar-64	22.52	14700	9210	1.60	6.86	416	856	0.49
32	19-Mar-64	21.01	11300	7230	1.56	6.40	320	672	0.48
33	25-Mar-64	20.43	10400	7010	1.49	6.23	294	651	0.45
34	01-Apr-64	18.92	8740	6440	1.36	5.77	247	598	0.41
35	08-Apr-64	17.16	6630	5780	1.15	5.23	188	537	0.35
36	15-Apr-64	15.74	5430	5220	1.04	4.80	154	485	0.32
37	22-Apr-64	14.46	4430	4790	0.93	4.41	125	445	0.23
38	29-Apr-64	13.48	3980	4420	0.90	4.11	113	411	0.27
39	06-May-64	12.70	3410	4170	0.82	3.87	97	387	0.25
40	13-May-64	12.00	2990	3940	0.76	3.66	85	366	0.23
41	20-May-64	11.48	2560	3750	0.68	3.50	72	348	0.21
42	27-May-64	11.12	2300	3650	0.63	3.39	65	339	0.19
43	03-Jun-64	10.82	2180	3560	0.61	3.30	62	331	0.19
44	10-Jun-64	10.65	1950	3480	0.56	3.25	55	323	0.17
45	17-Jun-64	10.38	1820	3410	0.53	3.16	52	317	0.16
46	24-Jun-64	10.30	1470	3360	0.52	3.14	42	312	0.16
47	01-Jul-64	10.14	1690	3370	0.50	3.09	48	313	0.15
48	08-Jul-64	10.02	1630	3310	0.49	3.05	46	308	0.15
49	15-Jul-64	9.91	1540	3300	0.47	3.02	44	307	0.14
50	22-Jul-64	9.81	1460	3260	0.45	2.99	41	303	0.14

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ST.: 4-280 MACHIYA FERRY

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]+++			
		H (f)	Q (f ³ /s)	A (f ²)	V (f/s)	H (m)	Q (m ³ /s)	A (m ²)	V (m/s)
51	29-Jul-64	9.68	1380	3220	0.43	2.95	39	299	0.13
52	12-Aug-64	9.40	1270	3140	0.41	2.87	36	292	0.12
53	26-Aug-64	9.08	1090	3020	0.36	2.77	31	281	0.11
54	10-Sep-64	8.66	968	2880	0.34	2.64	27	268	0.10
55	28-Sep-64	8.17	869	2730	0.32	2.49	25	254	0.10
56	14-Oct-64	7.71	706	2570	0.27	2.35	20	239	0.08
57	28-Oct-64	7.46	544	2490	0.22	2.27	15	231	0.07
58	07-Nov-64	7.62	582	2550	0.23	2.32	16	237	0.07
59	11-Nov-64	7.92	679	2640	0.26	2.41	19	245	0.08
60	18-Nov-64	8.22	893	2750	0.32	2.51	25	255	0.10
61	25-Nov-64	8.36	922	2820	0.33	2.55	26	262	0.10
62	02-Dec-64	9.50	1250	3140	0.40	2.90	35	292	0.12
63	09-Dec-64	9.52	1290	3170	0.41	2.90	37	295	0.12
64	16-Dec-64	9.64	1390	3210	0.43	2.94	39	298	0.13
65	30-Dec-64	11.48	2580	3780	0.68	3.50	73	351	0.21
66	06-Jan-65	13.75	4120	4590	0.90	4.19	117	426	0.27
67	13-Jan-65	16.67	6970	5590	1.24	5.08	197	519	0.33
68	20-Jan-65	20.50	12100	6960	1.73	6.25	343	647	0.53
69	27-Jan-65	20.88	12800	7180	1.78	6.36	362	667	0.54
70	03-Feb-65	20.24	11000	6910	1.60	6.17	311	642	0.49
71	10-Feb-65	19.24	9390	6540	1.44	5.86	266	608	0.44
72	17-Feb-65	19.83	10400	6730	1.54	6.04	294	625	0.47
73	24-Feb-65	20.64	12000	7110	1.69	6.29	340	661	0.52
74	03-Mar-65	20.29	10700	6880	1.56	6.18	303	639	0.48
75	10-Mar-65	19.54	9750	6570	1.48	5.96	276	610	0.45
76	17-Mar-65	19.73	10100	6640	1.52	6.01	286	617	0.46
77	24-Mar-65	18.70	8740	6330	1.38	5.70	247	588	0.42
78	31-Mar-65	17.16	6980	5750	1.21	5.23	198	534	0.37
79	14-Apr-65	15.58	5560	5190	1.07	4.75	157	482	0.33
80	21-Apr-65	14.38	4490	4810	0.93	4.38	127	447	0.28
81	28-Apr-65	13.21	3610	4400	0.82	4.03	102	409	0.25
82	05-May-65	12.34	3180	4090	0.78	3.76	90	380	0.24
83	12-May-65	11.63	2630	3840	0.68	3.54	74	357	0.21
84	19-May-65	11.14	2260	3670	0.62	3.40	64	341	0.19
85	26-May-65	10.74	1940	3550	0.55	3.27	55	330	0.17
86	02-Jun-65	10.45	1730	3420	0.51	3.19	49	318	0.16
87	09-Jun-65	10.23	1570	3360	0.47	3.12	44	312	0.14
88	16-Jun-65	10.07	1460	3310	0.44	3.07	41	308	0.13
89	23-Jun-65	9.86	1370	3260	0.42	3.01	39	303	0.13
90	30-Jun-65	9.66	1220	3180	0.38	2.94	35	295	0.12
91	07-Jul-65	9.55	1190	3160	0.38	2.91	34	294	0.12
92	14-Jul-65	9.52	1160	3160	0.37	2.90	33	294	0.11
93	22-Jul-65	9.46	1110	3110	0.36	2.88	31	289	0.11
94	28-Jul-65	9.32	1090	3080	0.35	2.84	31	286	0.11
95	04-Aug-65	9.22	1070	3040	0.35	2.81	30	282	0.11
96	18-Aug-65	8.79	960	2930	0.33	2.68	27	272	0.10
97	01-Sep-65	8.48	893	2830	0.32	2.58	25	263	0.10
98	15-Sep-65	8.37	858	2800	0.31	2.55	24	260	0.09
99	13-Oct-65	7.70	713	2580	0.28	2.35	20	240	0.09
100	27-Oct-65	7.50	635	2530	0.25	2.29	18	235	0.08

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101	10-Nov-65	7.36	570	2500	0.23	2.24	16	232	0.07
102	24-Nov-65	8.12	689	2710	0.25	2.47	20	252	0.08
103	08-Dec-65	8.96	1030	2990	0.35	2.73	29	278	0.11
104	15-Dec-65	9.98	1530	3280	0.47	3.04	43	305	0.14
105	05-Jan-66	10.80	1970	3560	0.55	3.29	56	331	0.17
106	12-Jan-66	10.92	2150	3630	0.59	3.33	61	337	0.18
107	19-Jan-66	10.71	1940	3530	0.55	3.26	55	328	0.17
108	26-Jan-66	11.13	2380	3700	0.64	3.39	67	344	0.20
109	02-Feb-66	12.24	3230	4060	0.80	3.73	91	377	0.24
110	09-Feb-66	15.45	5950	5140	1.16	4.71	168	478	0.35
111	16-Feb-66	17.12	7410	5750	1.29	5.22	210	534	0.39
112	23-Feb-66	17.44	8000	5850	1.37	5.32	227	543	0.42
113	24-Aug-66	8.32	843	2690	0.31	2.54	24	250	0.09
114	13-Oct-66	7.27	634	2370	0.27	2.22	18	220	0.08
115	02-Nov-66	7.00	569	2260	0.25	2.13	16	210	0.08
116	23-Nov-66	7.08	519	2390	0.22	2.16	15	222	0.07
117	20-Dec-66	8.44	841	2810	0.30	2.57	24	261	0.09
118	04-Jan-67	9.20	1180	3050	0.39	2.80	33	283	0.12
119	25-Jan-67	12.04	2860	3960	0.72	3.67	81	368	0.22
120	23-Feb-67	15.18	5470	5040	1.09	4.63	155	468	0.33
121	07-Mar-67	19.97	10500	6780	1.55	6.09	297	630	0.47
122	21-Mar-67	19.37	9450	6560	1.44	5.90	268	609	0.44
123	06-Apr-67	21.36	11600	7010	1.65	6.51	328	651	0.50
124	19-Apr-67	20.52	10600	6890	1.54	6.25	300	640	0.47
125	11-May-67	15.76	5630	5250	1.07	4.80	159	488	0.33
126	06-Jun-67	12.42	3020	4100	0.74	3.79	86	381	0.23
127	08-Jun-67	11.20	2400	3700	0.65	3.41	68	344	0.20
128	22-Jun-67	10.59	1980	3500	0.57	3.23	56	325	0.17
129	26-Jul-67	9.46	1460	3130	0.47	2.88	41	291	0.14
130	18-Aug-67	9.05	1180	2990	0.40	2.76	33	278	0.12
131	06-Sep-67	8.63	1070	2880	0.35	2.63	30	268	0.11
132	20-Sep-67	8.16	993	2730	0.36	2.49	28	254	0.11
133	18-Oct-67	7.65	734	2560	0.29	2.33	21	238	0.09
134	07-Nov-67	8.57	1050	2840	0.37	2.61	30	264	0.11
135	15-Dec-67	10.95	2380	3610	0.66	3.34	67	335	0.20
136	04-Jan-68	11.79	2710	3730	0.73	3.59	77	347	0.22
137	19-Jan-68	15.81	5660	5220	1.08	4.82	160	485	0.33
138	04-Apr-68	16.46	5880	5330	1.10	5.02	167	495	0.34
139	03-May-68	12.85	3200	4140	0.77	3.92	91	385	0.23
140	15-May-68	11.42	2450	3760	0.65	3.48	69	349	0.20
141	06-Jun-68	10.32	1770	3390	0.52	3.15	50	315	0.16
142	14-Jun-68	10.08	1710	3260	0.52	3.07	48	303	0.16
143	04-Jul-68	9.67	1510	3150	0.48	2.95	43	293	0.15
144	20-Jul-68	9.40	1170	2960	0.39	2.87	33	275	0.12
145	08-Aug-68	9.09	1120	2860	0.39	2.77	32	266	0.12
146	04-Sep-68	8.43	904	2800	0.32	2.57	26	260	0.10
147	09-Oct-68	7.61	619	2570	0.24	2.32	18	239	0.07
148	05-Nov-68	7.04	480	2410	0.20	2.15	14	224	0.06
149	11-Dec-68	9.41	1280	3110	0.41	2.87	36	289	0.12
150	08-Jan-69	19.61	9760	6650	1.47	5.98	276	618	0.45

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		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
151	22-Jan-69	20.10	9820	6840	1.44	6.13	278	635	0.44
152	04-Feb-69	23.78	15300	9180	1.67	7.25	433	853	0.51
153	21-May-69	20.18	9660	6930	1.42	6.15	274	644	0.43
154	07-Jun-69	23.03	13692	5588	1.71	7.02	388	519	0.52
155	11-Jun-69	15.43	5698	5197	1.10	4.70	161	483	0.34
156	25-Jun-69	13.95	4695	4708	1.00	4.25	133	437	0.30
157	02-Jul-69	13.57	4297	4551	0.97	4.14	122	423	0.30
158	02-Jul-69	12.62	3531	4240	0.86	3.85	100	394	0.26
159	19-Jul-69	12.42	3387	4181	0.84	3.79	96	388	0.26
160	23-Jul-69	12.10	3102	4060	0.79	3.69	88	377	0.24
161	31-Jul-69	11.83	2799	3914	0.73	3.61	79	364	0.22
162	13-Aug-69	11.62	2630	3816	0.70	3.54	74	355	0.21
163	20-Aug-69	11.34	2306	3689	0.63	3.46	65	343	0.19
164	28-Aug-69	11.05	2275	3616	0.65	3.37	64	336	0.20
165	04-Sep-69	10.62	1960	3482	0.58	3.24	56	323	0.18
166	11-Sep-69	10.23	1676	3364	0.51	3.12	47	313	0.16
167	18-Sep-69	9.66	1574	3260	0.50	2.94	45	303	0.15
168	25-Sep-69	10.37	2049	4567	0.62	3.16	58	424	0.19
169	02-Oct-69	9.39	1496	3190	0.49	2.86	42	296	0.15
170	09-Oct-69	9.14	1346	3090	0.45	2.79	38	287	0.14
171	16-Oct-69	8.95	1185	3024	0.44	2.73	34	281	0.13
172	23-Oct-69	9.08	1317	3080	0.46	2.77	37	286	0.14
173	06-Nov-69	10.17	1911	3440	0.58	3.10	54	320	0.18
174	07-Jan-70	20.09	9949	6822	1.48	6.12	282	634	0.45
175	04-Feb-70	20.76	10456	6864	1.56	6.33	296	638	0.48
176	04-Mar-70	23.31	8896	7442	1.48	7.10	252	691	0.45
177	03-Apr-70	17.95	7410	6140	1.21	5.47	210	570	0.37
178	22-Apr-70	15.04	5270	4100	1.29	4.58	149	381	0.39
179	05-May-70	13.28	2610	3130	0.83	4.05	74	291	0.25
180	22-May-70	11.74	2920	3960	0.74	3.58	83	368	0.23
181	05-Jun-70	11.02	2410	3720	0.65	3.36	68	346	0.20
182	25-Jun-70	10.37	2050	3510	0.58	3.16	58	326	0.18
183	10-Jul-70	9.95	1720	3460	0.49	3.03	49	321	0.15
184	22-Jul-70	9.72	1630	3230	0.50	2.96	46	300	0.15
185	25-Aug-70	9.23	1070	3020	0.36	2.81	30	281	0.11
186	03-Sep-70	8.90	1010	2980	0.34	2.71	29	277	0.10
187	07-Nov-70	7.69	566	2579	0.22	2.34	16	240	0.07
188	20-Nov-70	9.41	1375	3166	0.43	2.87	39	294	0.13
189	30-Dec-70	14.85	5151	5038	1.02	4.53	146	468	0.31
190	07-Jan-71	20.07	9929	6892	1.44	6.12	281	640	0.44
191	17-Feb-71	25.85	17245	10566	1.63	7.88	488	982	0.50
192	01-Mar-71	25.72	17990	10850	1.66	7.84	509	1008	0.51
193	15-Apr-71	22.01	10936	7295	1.50	6.71	310	678	0.46
194	21-May-71	14.59	4318	4380	0.99	4.45	122	407	0.30
195	14-Jun-71	12.47	3180	4075	0.78	3.80	90	379	0.24
196	22-Jul-71	11.17	2403	3629	0.67	3.40	68	337	0.20
197	14-Aug-71	10.37	2033	3442	0.59	3.16	58	320	0.18
198	17-Sep-71	9.43	1371	3218	0.43	2.87	39	299	0.13
199	14-Oct-71	8.55	938	2785	0.34	2.61	27	259	0.10
200	11-Nov-71	8.20	662	2590	0.25	2.50	19	241	0.08

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201	12-Dec-71	10.44	1959	3319	0.59	3.18	55	308	0.18
202	13-Jan-72	17.40	7930	5825	1.36	5.30	225	541	0.41
203	11-Feb-72	17.03	7360	5730	1.28	5.19	208	532	0.39
204	27-Mar-72	21.01	11558	7389	1.56	6.40	327	686	0.48
205	24-Apr-72	19.37	8586	6299	1.36	5.90	243	585	0.41
206	20-May-72	14.95	4728	4464	1.06	4.56	134	415	0.32
207	01-Jul-72	11.44	1773	2866	0.62	3.49	50	266	0.19
208	01-Aug-72	10.44	1939	3399	0.57	3.18	55	316	0.17
209	21-Sep-72	8.97	1251	2846	0.44	2.73	35	264	0.13
210	27-Nov-72	7.92	803	2469	0.33	2.41	23	229	0.10
211	16-Dec-72	8.67	958	2677	0.36	2.64	27	249	0.11
212	17-Mar-73	15.62	5204	4845	1.08	4.76	147	450	0.33
213	18-Apr-73	11.86	2480	3616	0.69	3.61	70	336	0.21
214	07-Jun-73	8.70	1019	2745	0.37	2.65	29	255	0.11
215	09-Aug-73	7.90	806	2552	0.32	2.41	23	237	0.10
216	06-Sep-73	7.57	1010	2353	0.43	2.31	29	219	0.13
217	08-Nov-73	7.37	615	2483	0.25	2.25	17	231	0.08
218	19-Dec-73	9.04	1161	2868	0.40	2.76	33	266	0.12
219	07-Mar-74	22.04	9663	7039	1.37	6.72	274	654	0.42
220	09-Jul-74	10.50	1749	2947	0.59	3.20	50	274	0.18
221	05-Dec-74	9.41	1471	3051	0.48	2.87	42	283	0.15
222	10-Mar-75	21.32	10594	7025	1.51	6.50	300	653	0.46
223	14-Aug-75	9.93	1529	3338	0.46	3.03	43	310	0.14
224	04-Sep-75	9.38	1110	2801	0.39	2.86	31	260	0.12
225	04-Oct-75	8.41	899	2783	0.32	2.56	25	259	0.10
226	07-Nov-75	7.61	846	2676	0.32	2.32	24	249	0.10
227	23-Dec-75	10.02	2340	3710	0.63	3.05	66	345	0.19
228	14-Jan-76	15.67	5440	5050	1.08	4.78	154	469	0.33
229	05-Feb-76	19.20	8790	6430	1.37	5.85	249	597	0.42
230	13-Feb-76	19.71	8730	6180	1.41	6.01	247	574	0.43
231	13-Mar-76	23.48	14100	8680	1.62	7.16	399	806	0.49
232	28-Jul-76	12.44	2800	3730	0.75	3.79	79	347	0.23
233	13-Aug-76	11.73	3354	4716	0.71	3.58	95	438	0.22
234	17-Sep-76	10.30	1980	4050	0.49	3.14	56	376	0.15
235	20-Oct-76	9.19	1311	3152	0.42	2.80	37	293	0.13
236	10-Nov-76	8.96	1080	3020	0.36	2.73	31	281	0.11
237	15-Dec-76	11.53	1500	2340	0.41	3.51	42	217	0.12
238	30-Jan-77	17.54	5819	4762	1.22	5.35	165	442	0.37
239	12-Feb-77	18.87	7086	5610	1.26	5.75	201	521	0.38
240	05-Mar-77	22.68	11938	7266	1.64	6.91	338	675	0.50
241	13-Apr-77	23.75	14163	8180	1.73	7.24	401	760	0.53
242	06-May-77	18.00	5086	4693	1.08	5.49	144	436	0.33
243	25-Jul-77	10.89	1374	2357	0.58	3.32	39	219	0.18
244	27-Oct-77	8.12	629	1568	0.40	2.47	18	146	0.12
245	03-Dec-77	9.87	1171	1845	0.63	3.01	33	171	0.19
246	07-Jan-78	18.05	3927	2882	1.36	5.50	111	268	0.41
247	13-Dec-79	16.39	5851	3801	1.53	5.00	166	353	0.47
248	19-Jun-80	14.08	5154	4219	1.22	4.29	146	392	0.37
249	30-Sep-80	9.60	1051	2065	0.51	2.93	30	192	0.16
250	23-Nov-80	9.33	2880	1853	1.55	2.84	82	172	0.47

LIST OF FLOW MEASUREMENT

ST.: 4-280 MACHIYA FERRY

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]+++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
251	20-Mar-81	27.97	21640	9563	2.26	8.53	613	888	0.69
252	31-Jul-81	11.50	2677	3202	0.84	3.51	76	297	0.26
253	05-Sep-81	10.23	1690	2402	0.70	3.12	48	223	0.21
254	20-Nov-81	8.29	721	2597	0.28	2.53	20	241	0.09
255	12-Mar-82	20.20	9128	5775	1.58	6.16	258	537	0.48
256	20-Jun-82	10.50	1669	2448	0.69	3.20	47	227	0.21
257	12-Jul-84	8.80	934	2073	0.46	2.68	26	193	0.14
258	05-Aug-86	11.78	2710	2994	0.92	3.59	77	278	0.28
259	10-May-87	13.24	3235	3028	1.08	4.04	92	281	0.33
260	17-Sep-87	8.54	721	1574	0.46	2.60	20	146	0.14
261	18-Sep-89	8.56	1203	2526	0.48	2.61	34	235	0.15
262	17-Jun-90	9.91	1533	2596	0.59	3.02	43	241	0.18
263	15-Jul-90	8.83	851	1853	0.46	2.69	24	172	0.14
264	19-Aug-90	8.37	593	2009	0.30	2.55	17	187	0.09
265	12-Oct-90	8.07	326	1654	0.20	2.46	9	154	0.06
266	05-Nov-90	7.12	322	1636	0.20	2.17	9	152	0.06
267	23-Dec-90	8.43	510	1728	0.30	2.57	14	161	0.09
268	13-Jan-91	13.55	3075	3232	0.95	4.13	87	300	0.29
269	05-Mar-91	19.91	7296	4835	1.51	6.07	207	449	0.46
270	30-Aug-91	8.66	887	1931	0.46	2.64	25	179	0.14
271	19-Sep-91	8.27	635	1935	0.33	2.52	18	180	0.10
272	21-Oct-91	8.20	606	1847	0.33	2.50	17	172	0.10
273	22-Nov-91	8.01	437	1664	0.26	2.44	12	155	0.08

[Note] H:Water Level, Q:Discharge, A:Discharge Area, V:Velocity

FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY JUN./17/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10
WATER DEPTH (m)	0.00	2.02	2.21	2.21	2.21	2.24	2.28	2.32	2.36	2.43	2.51
SE/WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
TOTAL SE/WIDTH(m)	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
VELOCITY.2-1(f/s)	-	-	-	-	-	-	-	-	-	-	-
VELOCITY.2-2(f/s)	-	-	-	-	-	-	-	-	-	-	-
MEAN VEL.2 (f/s)	-	0.23	0.65	0.76	0.73	0.76	0.82	0.70	0.72	0.80	0.75
VELOCITY.8-1(f/s)	-	-	-	-	-	-	-	-	-	-	-
VELOCITY.8-2(f/s)	-	-	-	-	-	-	-	-	-	-	-
MEAN VEL.8 (f/s)	-	0.25	0.54	0.67	0.74	0.63	0.54	0.78	0.82	0.69	0.48
MEAN VEL (f/s)	0.00	0.24	0.60	0.72	0.74	0.70	0.68	0.74	0.77	0.75	0.62
MEAN VEL (m/s)	0.00	0.073	0.181	0.218	0.224	0.212	0.207	0.226	0.235	0.227	0.189
L/MEAN DEPTH (m)	0.000	1.010	2.163	2.210	2.210	2.233	2.270	2.310	2.350	2.413	2.490
L/MEAN WIDTH (m)	0.00	5.00	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
L/SEC. AREA (m2)	0.00	5.05	5.41	5.53	5.53	5.58	5.68	5.78	5.88	6.03	6.23
R/MEAN DEPTH (m)	0.000	2.068	2.210	2.210	2.218	2.250	2.290	2.330	2.378	2.450	2.500
R/MEAN WIDTH (m)	0.00	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
R/SEC. AREA (m2)	0.00	5.17	5.53	5.53	5.54	5.63	5.73	5.83	5.94	6.13	6.25
S/AREA (m2)	0.00	10.22	10.93	11.05	11.07	11.21	11.40	11.60	11.82	12.16	12.48
TOTAL AREA (m2)	0.0	10.2	21.2	32.2	43.3	54.5	65.9	77.5	89.3	101.5	113.9
S/DISCHARGE(m3/s)	0.00	0.75	1.98	2.41	2.48	2.37	2.36	2.62	2.77	2.76	2.36
TOTAL DIS. (m3/s)	0.00	0.75	2.73	5.14	7.62	9.99	12.35	14.97	17.74	20.51	22.85

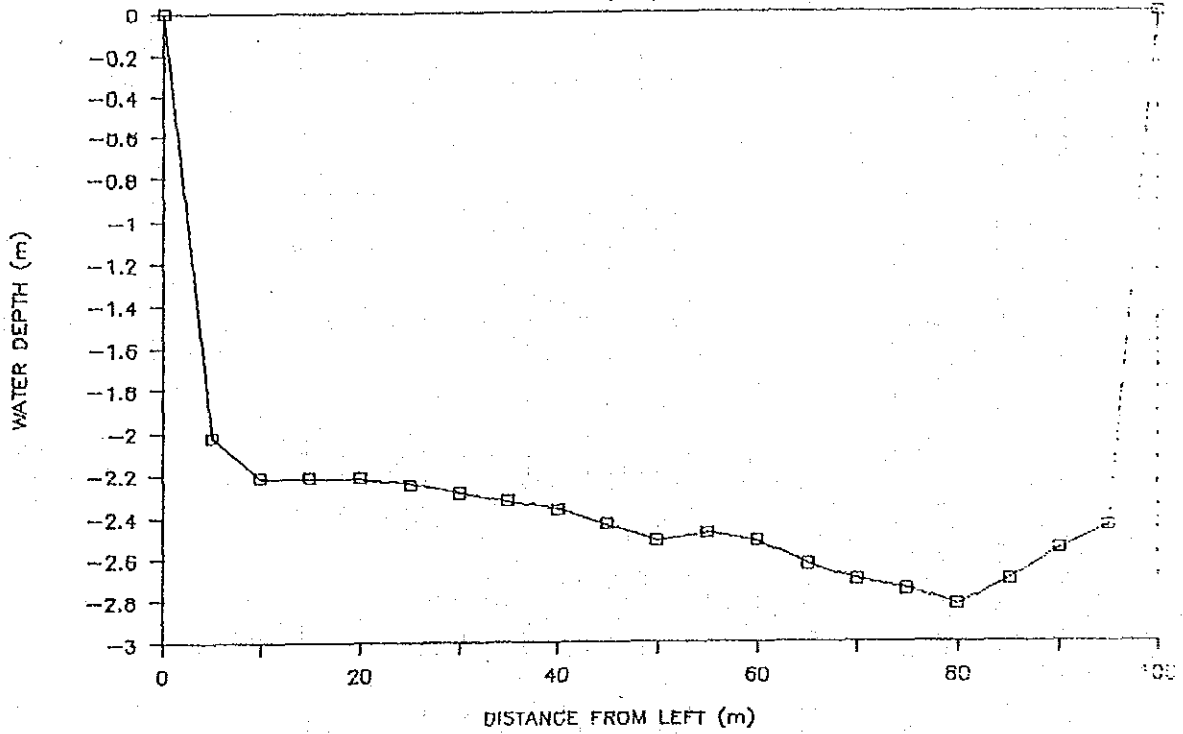
WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY JUN./17/'90

ITEMS	NO-11	NO-12	NO-13	NO-14	NO-15	NO-16	NO-17	NO-18	NO-19	NO-R
WATER DEPTH (m)	2.47	2.51	2.62	2.70	2.74	2.82	2.70	2.55	2.44	0.00
SE/WIDTH (m)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
TOTAL SE/WIDTH(m)	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00
VELOCITY.2-1(f/s)	-	-	-	-	-	-	-	-	-	-
VELOCITY.2-2(f/s)	-	-	-	-	-	-	-	-	-	-
MEAN VEL.2 (f/s)	0.69	0.72	0.76	0.69	0.69	0.64	0.55	0.56	0.47	-
VELOCITY.8-1(f/s)	-	-	-	-	-	-	-	-	-	-
VELOCITY.8-2(f/s)	-	-	-	-	-	-	-	-	-	-
MEAN VEL.8 (f/s)	0.53	0.60	0.59	0.53	0.54	0.54	0.44	0.43	0.16	-
MEAN VEL (f/s)	0.61	0.66	0.68	0.61	0.62	0.59	0.50	0.50	0.32	0.00
MEAN VEL (m/s)	0.186	0.201	0.206	0.186	0.187	0.180	0.151	0.151	0.096	0.00
L/MEAN DEPTH (m)	2.480	2.500	2.593	2.680	2.730	2.800	2.730	2.588	2.468	0.610
L/MEAN WIDTH (m)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
L/SEC. AREA (m2)	6.20	6.25	6.48	6.70	6.83	7.00	6.83	6.47	6.17	1.53
R/MEAN DEPTH (m)	2.480	2.538	2.640	2.710	2.760	2.790	2.663	2.523	1.830	0.000
R/MEAN WIDTH (m)	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	0.00
R/SEC. AREA (m2)	6.20	6.34	6.60	6.78	6.90	6.98	6.66	6.31	9.15	0.00
S/AREA (m2)	12.40	12.59	13.08	13.48	13.73	13.98	13.48	12.78	15.32	1.53
TOTAL AREA (m2)	126.3	138.9	152.0	165.5	179.2	193.2	206.7	219.4	234.8	236.3
S/DISCHARGE(m3/s)	2.31	2.53	2.69	2.51	2.57	2.51	2.03	1.93	1.47	0.00
TOTAL DIS. (m3/s)	25.17	27.70	30.39	32.90	35.47	37.98	40.02	41.95	43.42	43.42
WATER LEVEL (f) :	9.92 WATER LEVEL (m) : 3.02									
TOTAL DISCHARGE :	43.42 MEAN VELOCITY(m/s) : 0.18									

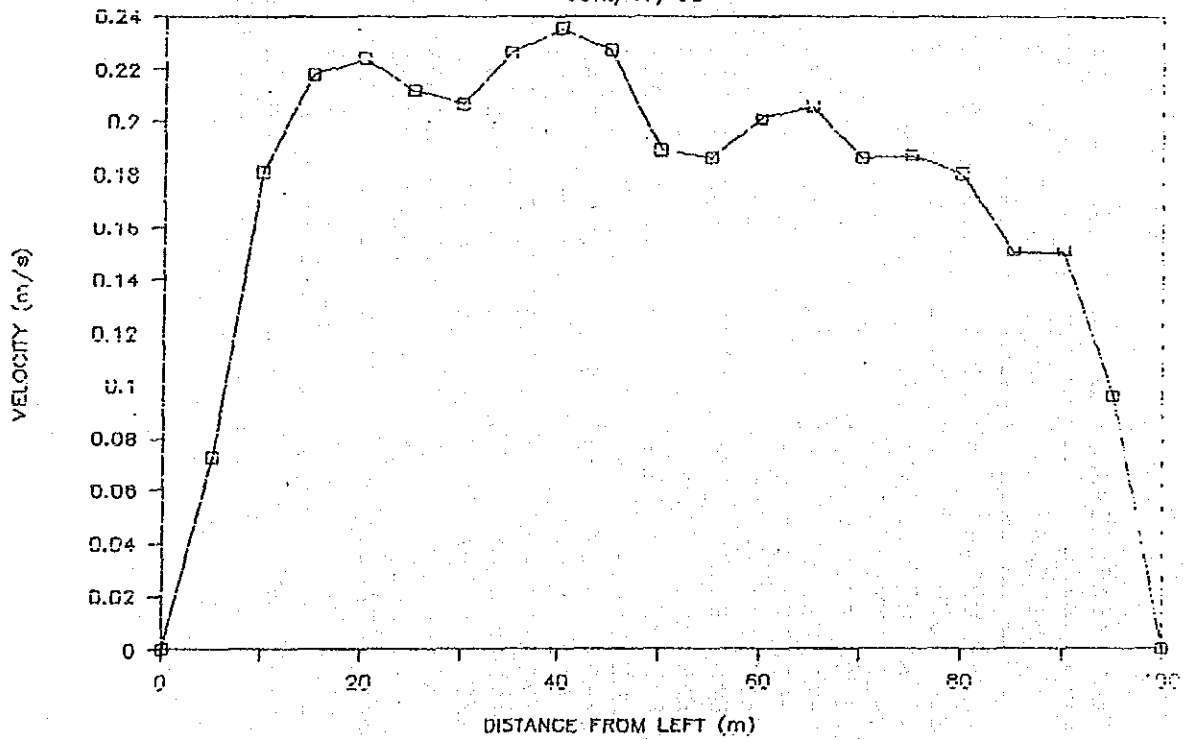
WATER DEPTH (4-280)

JUN./17/90



VELOCITY (4-280)

JUN./17/90



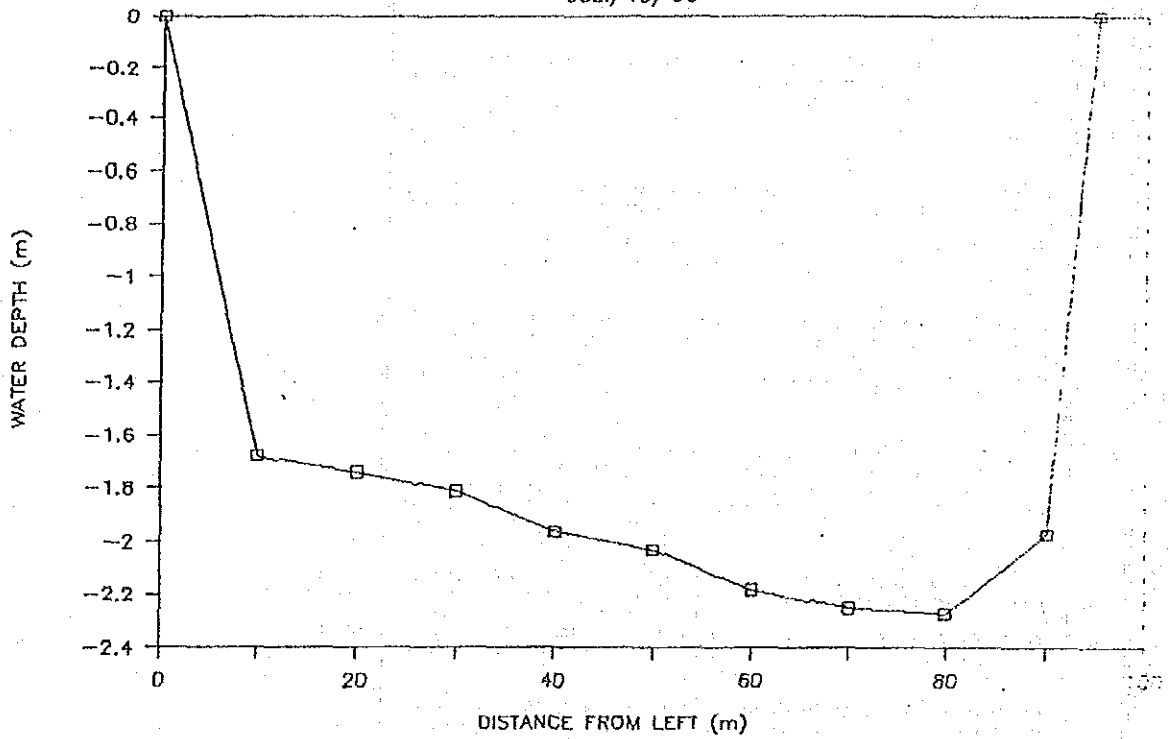
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

JUL./15/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	0.00	1.68	1.74	1.81	1.96	2.03	2.18	2.25	2.27	1.97	0.00
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	95.00
VELOCITY.2-1(f/s)	0.00	0.30	0.50	0.55	0.45	0.50	0.72	0.55	0.60	0.45	0.00
VELOCITY.2-2(f/s)	0.00	0.30	0.50	0.55	0.45	0.50	0.72	0.55	0.60	0.45	0.00
MEAN VEL.2 (f/s)	0.00	0.30	0.50	0.55	0.45	0.50	0.72	0.55	0.60	0.45	0.00
VELOCITY.8-1(f/s)	0.00	0.25	0.40	0.45	0.40	0.42	0.40	0.45	0.40	0.25	0.00
VELOCITY.8-2(f/s)	0.00	0.25	0.40	0.45	0.40	0.42	0.40	0.45	0.40	0.25	0.00
MEAN VEL.8 (f/s)	0.00	0.25	0.40	0.45	0.40	0.42	0.40	0.45	0.40	0.25	0.00
MEAN VEL (f/s)	0.00	0.28	0.45	0.50	0.43	0.46	0.56	0.50	0.50	0.35	0.00
MEAN VEL (m/s)	0.00	0.08	0.14	0.15	0.13	0.14	0.17	0.15	0.15	0.11	0.00
L/MEAN DEPTH (m)	0.000	0.840	1.725	1.793	1.923	2.012	2.143	2.233	2.265	2.045	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	8.40	8.63	8.96	9.61	10.06	10.71	11.16	11.33	10.23	-
R/MEAN DEPTH (m)	0.000	1.695	1.758	1.848	1.978	2.068	2.198	2.255	2.195	0.985	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
R/SEC. AREA (m2)	0.00	8.48	8.79	9.24	9.89	10.34	10.99	11.28	10.98	4.93	-
S/AREA (m2)	0.00	16.88	17.41	18.20	19.50	20.40	21.70	22.44	22.30	15.15	-
TOTAL AREA (m2)	0.0	16.9	34.3	52.5	72.0	92.4	114.1	136.5	158.8	174.0	-
S/DISCHARGE(m3/s)	0.00	1.41	2.39	2.77	2.53	2.86	3.70	3.42	3.40	1.62	-
TOTAL DIS. (m3/s)	0.00	1.41	3.80	6.58	9.10	11.96	15.67	19.09	22.48	24.10	-
WATER LEVEL (f)	8.84	WATER LEVEL (m) : 2.69									
TOTAL DISCHARGE	24.10	MEAN VELOCITY(m/s) : 0.14									

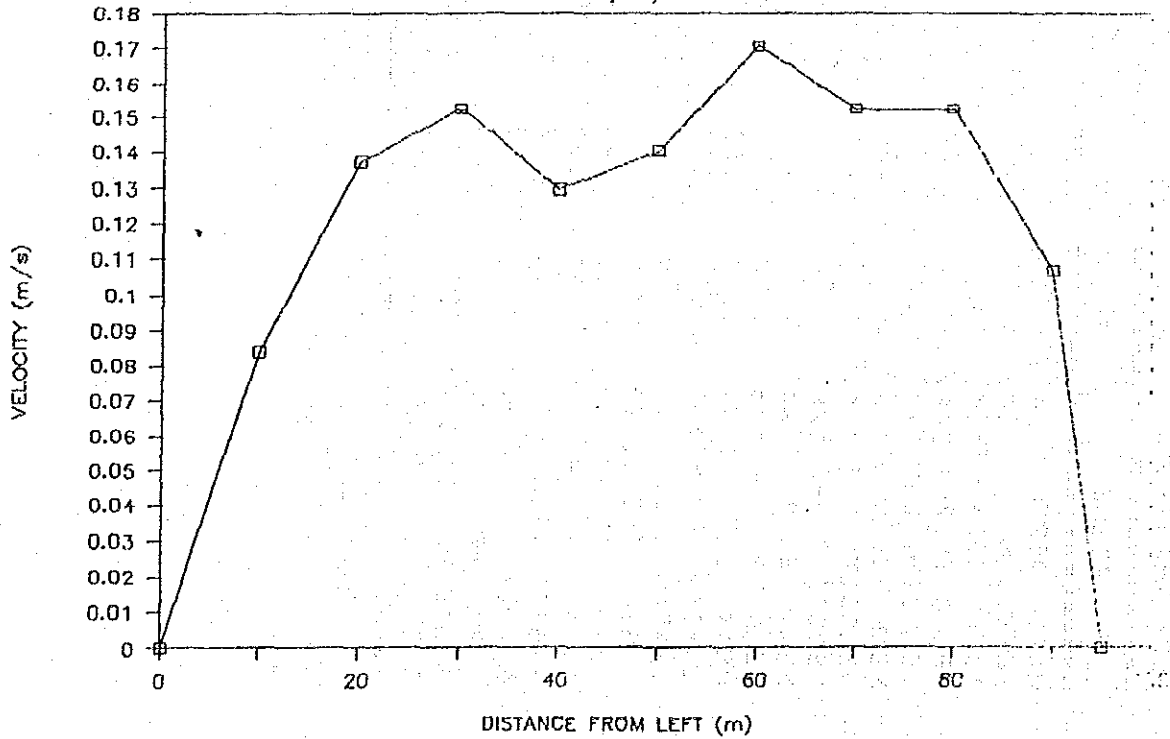
WATER DEPTH (4-280)

JUL./15/'90



VELOCITY (4-280)

JUL./15/'90



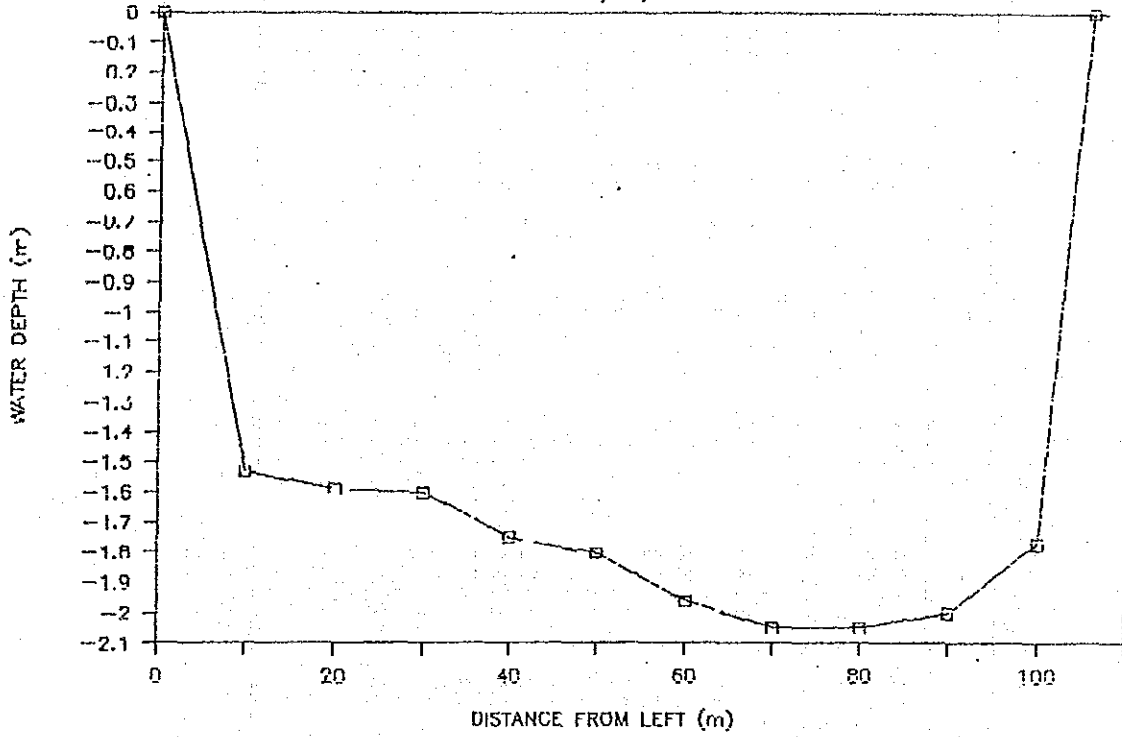
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY AUG./19/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-R
WATER DEPTH (m)	1.53	1.59	1.60	1.75	1.80	1.96	2.05	2.05	2.00	1.77	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
TOTAL SE/WIDTH(m)	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	106.00
VELOCITY.2-1(f/s)	0.30	0.30	0.35	0.40	0.45	0.55	0.32	0.35	0.35	0.20	-
VELOCITY.2-2(f/s)	0.30	0.30	0.35	0.40	0.45	0.55	0.32	0.35	0.35	0.20	-
MEAN VEL.2 (f/s)	0.30	0.30	0.35	0.40	0.45	0.55	0.32	0.35	0.35	0.20	-
VELOCITY.8-1(f/s)	0.20	0.20	0.25	0.30	0.30	0.34	0.30	0.25	0.25	0.15	-
VELOCITY.8-2(f/s)	0.20	0.20	0.25	0.30	0.30	0.34	0.30	0.25	0.25	0.15	-
MEAN VEL.8 (f/s)	0.20	0.20	0.25	0.30	0.30	0.34	0.30	0.25	0.25	0.15	-
MEAN VEL (f/s)	0.25	0.25	0.30	0.35	0.38	0.45	0.31	0.30	0.30	0.18	-
MEAN VEL (m/s)	0.076	0.076	0.091	0.107	0.114	0.136	0.094	0.091	0.091	0.053	-
L/MEAN DEPTH (m)	0.765	1.575	1.598	1.713	1.788	1.920	2.028	2.050	2.013	1.828	-
L/MEAN WIDTH (m)	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	7.65	7.88	7.99	8.56	8.94	9.60	10.14	10.25	10.06	9.14	-
R/MEAN DEPTH (m)	1.545	1.593	1.638	1.763	1.840	1.983	2.050	2.038	1.943	0.885	-
R/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
R/SEC. AREA (m2)	7.73	7.96	8.19	8.81	9.20	9.91	10.25	10.19	9.71	5.31	-
S/AREA (m2)	15.38	15.84	16.18	17.38	18.14	19.51	20.39	20.44	19.78	14.45	-
TOTAL AREA (m2)	15.4	31.2	47.4	64.8	82.9	102.4	122.8	143.2	163.0	177.5	-
S/DISCHARGE(m3/s)	1.17	1.21	1.48	1.85	2.07	2.65	1.93	1.87	1.81	0.77	-
TOTAL DIS. (m3/s)	1.17	2.38	3.86	5.71	7.78	10.43	12.36	14.23	16.03	16.80	-

WATER LEVEL (f) : 18.38 WATER LEVEL (m) : 2.55
 TOTAL DISCHARGE : 16.80 MEAN VELOCITY(m/s) : 0.09

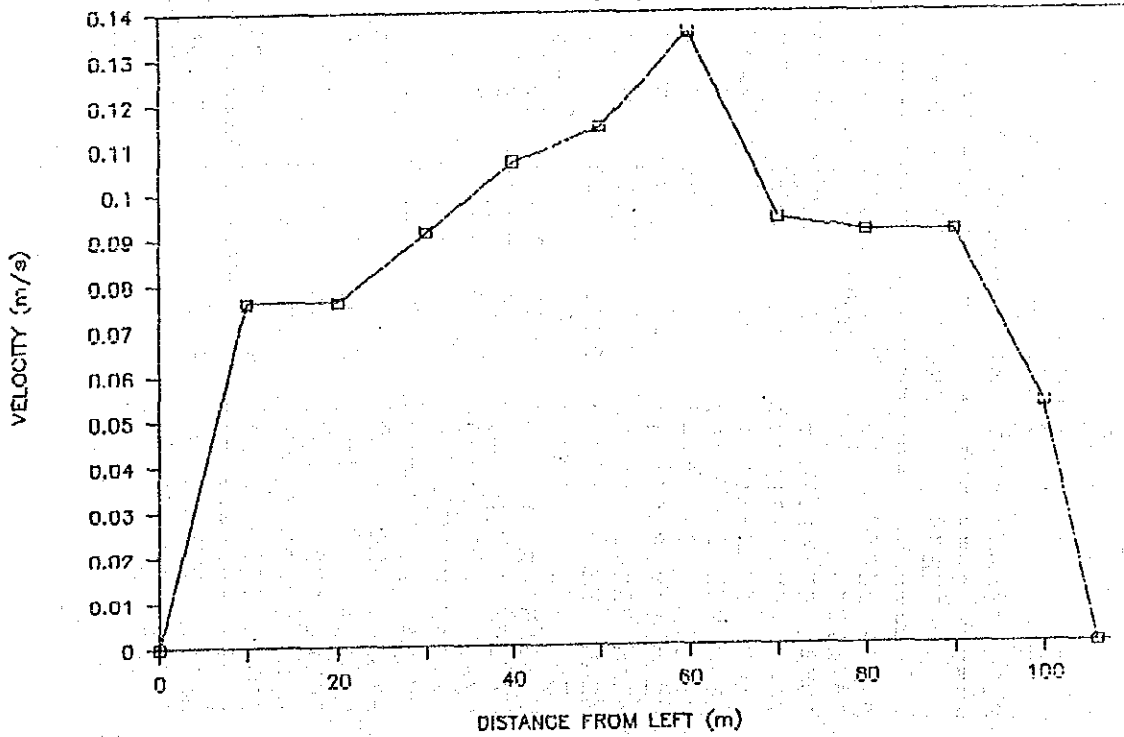
WATER DEPTH (4-280)

AUG./14/88



VELOCITY (4-280)

AUG./14/88



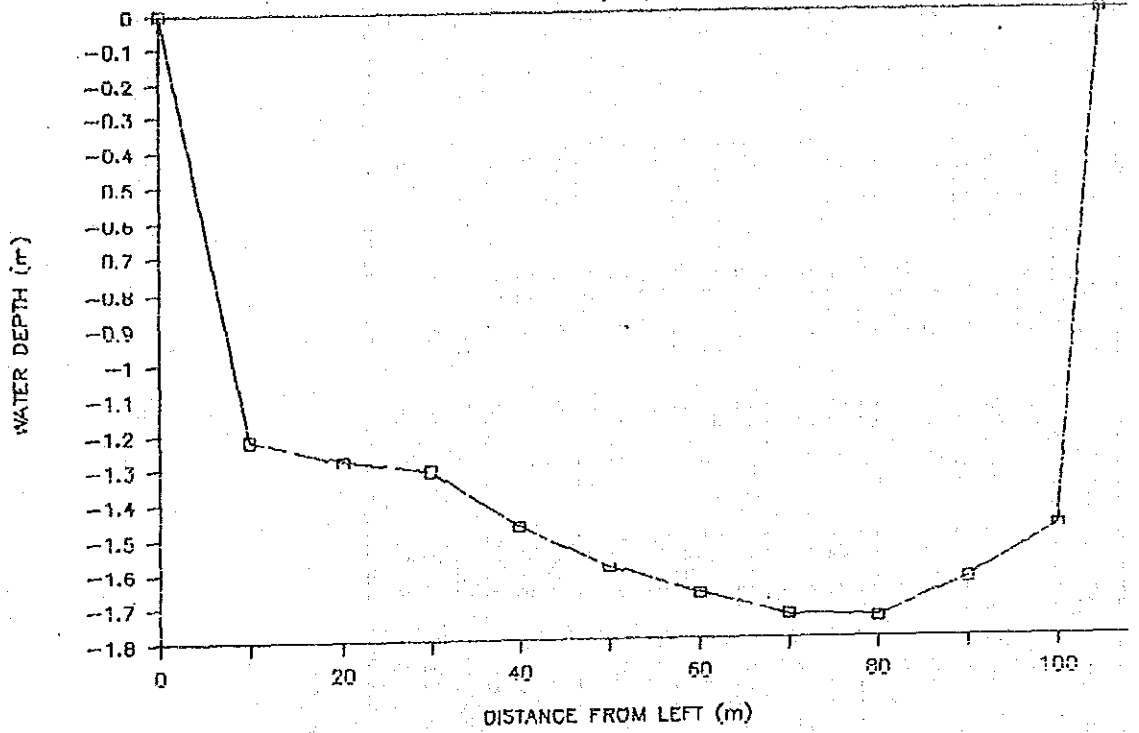
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY OCT./12/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-R
WATER DEPTH (m)	1.22	1.28	1.31	1.47	1.59	1.67	1.73	1.74	1.63	1.48	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
TOTAL SE/WIDTH(m)	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	105.00
VELOCITY.2-1(f/s)	0.25	0.35	0.19	0.36	0.20	0.40	0.22	0.19	0.18	0.11	-
VELOCITY.2-2(f/s)	0.25	0.35	0.19	0.36	0.20	0.40	0.22	0.19	0.18	0.11	-
MEAN VEL.2 (f/s)	0.25	0.35	0.19	0.36	0.20	0.40	0.22	0.19	0.18	0.11	-
VELOCITY.8-1(f/s)	0.18	0.20	0.10	0.25	0.12	0.27	0.18	0.12	0.12	0.07	-
VELOCITY.8-2(f/s)	0.18	0.20	0.10	0.25	0.12	0.27	0.18	0.12	0.12	0.07	-
MEAN VEL.8 (f/s)	0.18	0.20	0.10	0.25	0.12	0.27	0.18	0.12	0.12	0.07	-
MEAN VEL (f/s)	0.22	0.28	0.15	0.31	0.16	0.34	0.20	0.16	0.15	0.09	-
MEAN VEL (m/s)	0.066	0.084	0.044	0.093	0.049	0.102	0.061	0.047	0.046	0.027	-
L/MEAN DEPTH (m)	0.000	0.610	1.265	1.430	1.560	1.650	1.715	1.738	1.658	1.518	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	6.10	6.33	7.15	7.80	8.25	8.58	8.69	8.29	7.59	-
R/MEAN DEPTH (m)	0.000	1.235	1.288	1.500	1.610	1.685	1.733	1.713	1.593	0.740	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
R/SEC. AREA (m2)	0.00	6.18	6.44	7.50	8.05	8.43	8.66	8.56	7.96	3.70	-
S/AREA (m2)	0.00	12.28	12.76	14.65	15.85	16.68	17.24	17.25	16.25	11.29	-
TOTAL AREA (m2)	0.0	12.3	25.0	38.3	53.0	68.8	85.5	102.7	136.2	147.5	-
S/DISCHARGE(m3/s)	0.00	0.80	1.07	1.36	0.77	1.70	1.05	0.81	0.74	0.31	-
TOTAL DIS. (m3/s)	0.00	0.80	1.87	3.82	4.60	6.30	7.35	8.16	8.91	9.22	-

WATER LEVEL (f) : * WATER LEVEL (m) : *
 TOTAL DISCHARGE : 9.22 MEAN VELOCITY(m/s) : 0.06

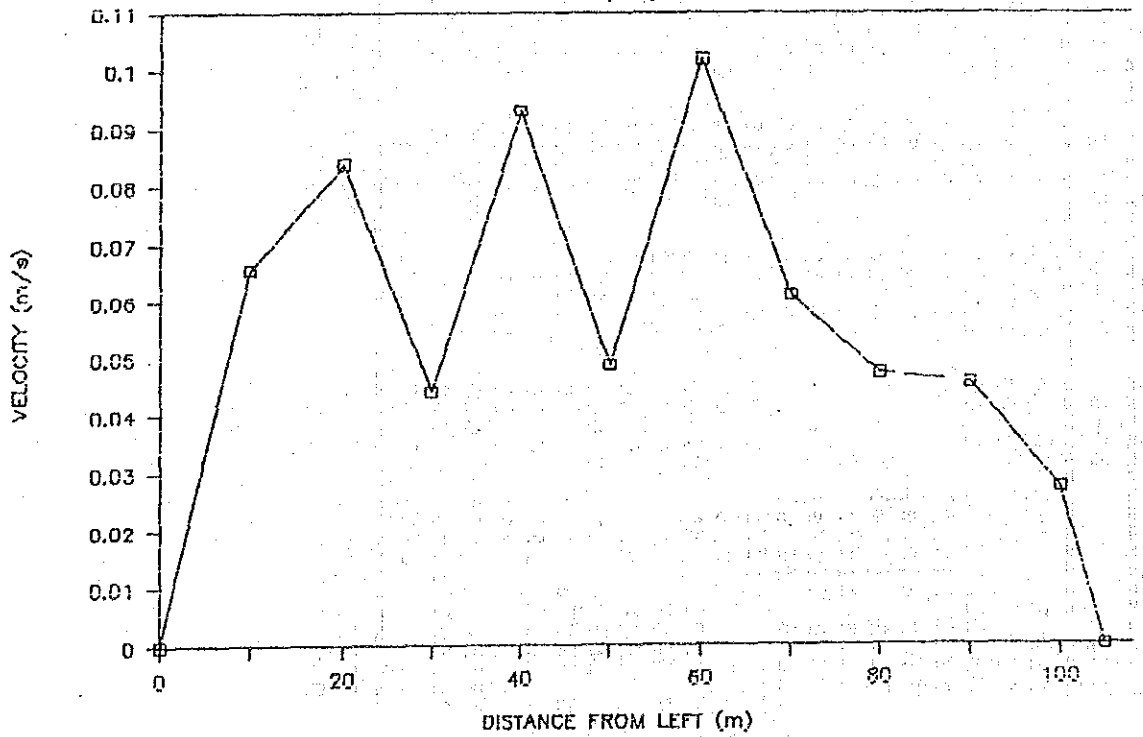
WATER DEPTH (4-280)

OCT./12/90



VELOCITY (4-280)

OCT./12/90



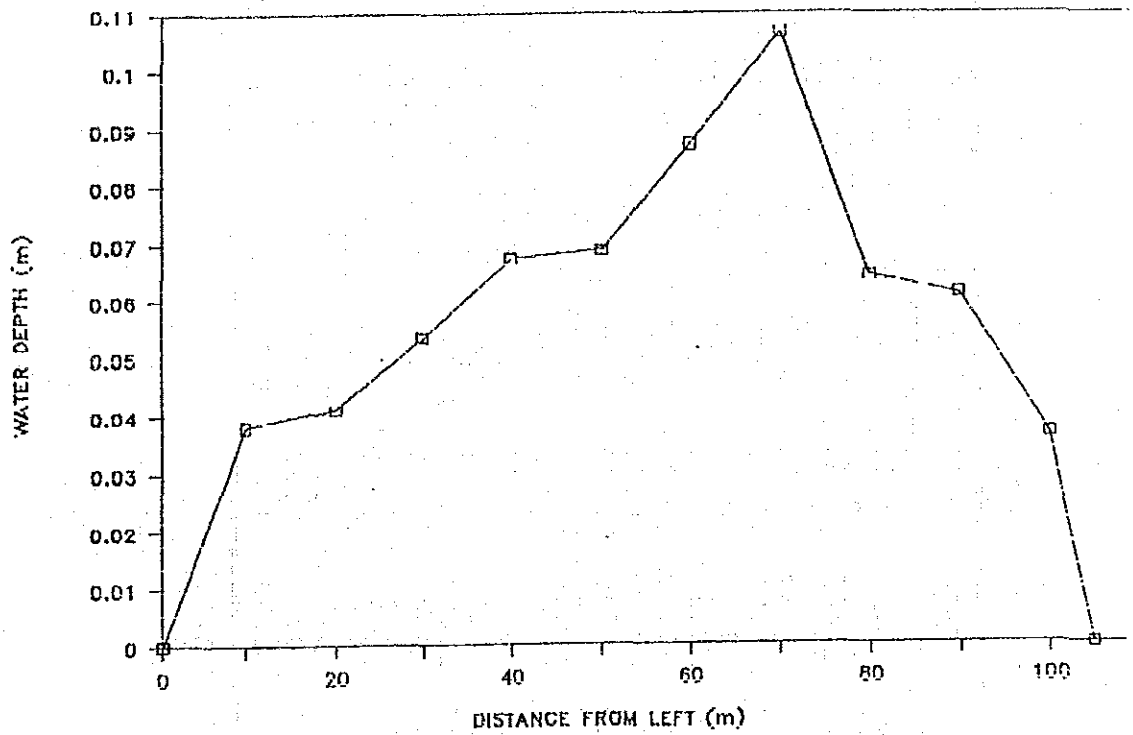
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

NOV./05/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-R
WATER DEPTH (m)	0.00	1.16	1.20	1.25	1.40	1.43	1.60	1.65	1.70	1.64	1.37	0.00
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
TOTAL SE/WIDTH (m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	105.00
VELOCITY.2-1 (f/s)	-	0.15	0.15	0.20	0.24	0.25	0.35	0.38	0.22	0.22	0.13	-
VELOCITY.2-2 (f/s)	-	0.15	0.15	0.20	0.24	0.25	0.35	0.38	0.22	0.22	0.13	-
MEAN VEL.2 (f/s)	-	0.15	0.15	0.20	0.24	0.25	0.35	0.38	0.22	0.22	0.13	-
VELOCITY.8-1 (f/s)	-	0.10	0.12	0.15	0.20	0.20	0.22	0.32	0.20	0.18	0.11	-
VELOCITY.8-2 (f/s)	-	0.10	0.12	0.15	0.20	0.20	0.22	0.32	0.20	0.18	0.11	-
MEAN VEL.8 (f/s)	-	0.10	0.12	0.15	0.20	0.20	0.22	0.32	0.20	0.18	0.11	-
MEAN VEL (f/s)	0.00	0.13	0.14	0.18	0.22	0.23	0.29	0.35	0.21	0.20	0.12	-
MEAN VEL (m/s)	0.00	0.038	0.041	0.053	0.067	0.069	0.087	0.107	0.064	0.061	0.037	-
L/MEAN DEPTH (m)	0.000	0.580	1.190	1.238	1.363	1.423	1.558	1.538	1.688	1.655	1.438	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	5.80	5.95	6.19	6.81	7.11	7.79	8.19	8.44	8.28	7.19	-
R/MEAN DEPTH (m)	0.000	1.170	1.213	1.288	1.408	1.473	1.613	1.663	1.685	1.573	0.685	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
R/SEC. AREA (m2)	0.00	5.85	6.06	6.44	7.04	7.36	8.06	8.31	8.43	7.86	3.43	-
S/AREA (m2)	0.00	11.65	12.01	12.63	13.85	14.48	15.85	16.50	16.86	16.14	10.61	-
TOTAL AREA (m2)	0.0	11.7	23.7	36.3	50.1	64.6	80.5	97.0	113.8	130.0	140.6	-
S/DISCHARGE (m3/s)	0.00	0.44	0.49	0.67	0.93	0.99	1.38	1.76	1.08	0.98	0.39	-
TOTAL DIS. (m3/s)	0.00	0.44	0.94	1.61	2.54	3.53	4.91	6.67	7.75	8.73	9.12	-
WATER LEVEL (f) :	7.12	WATER LEVEL (m) : 2.17										
TOTAL DISCHARGE :	9.12	MEAN VELOCITY(m/s) : 0.06										

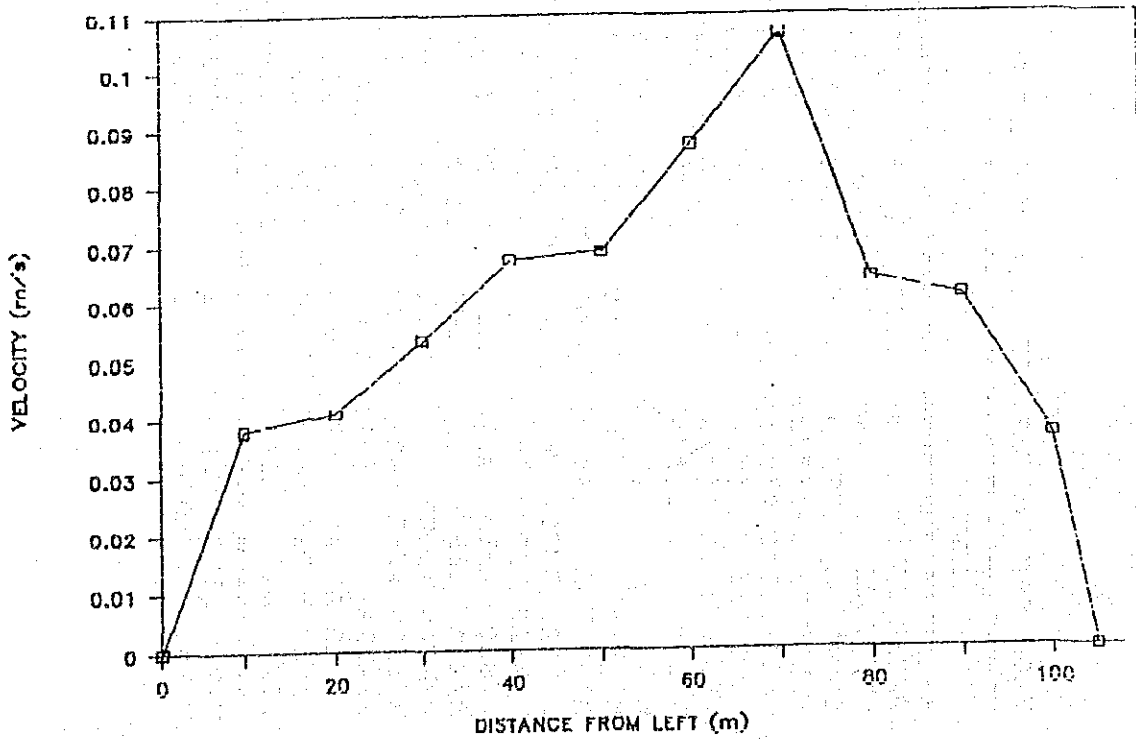
WATER DEPTH (4-280)

NOV./05/90



VELOCITY (4-280)

NOV./05/90



DEC./23/'90

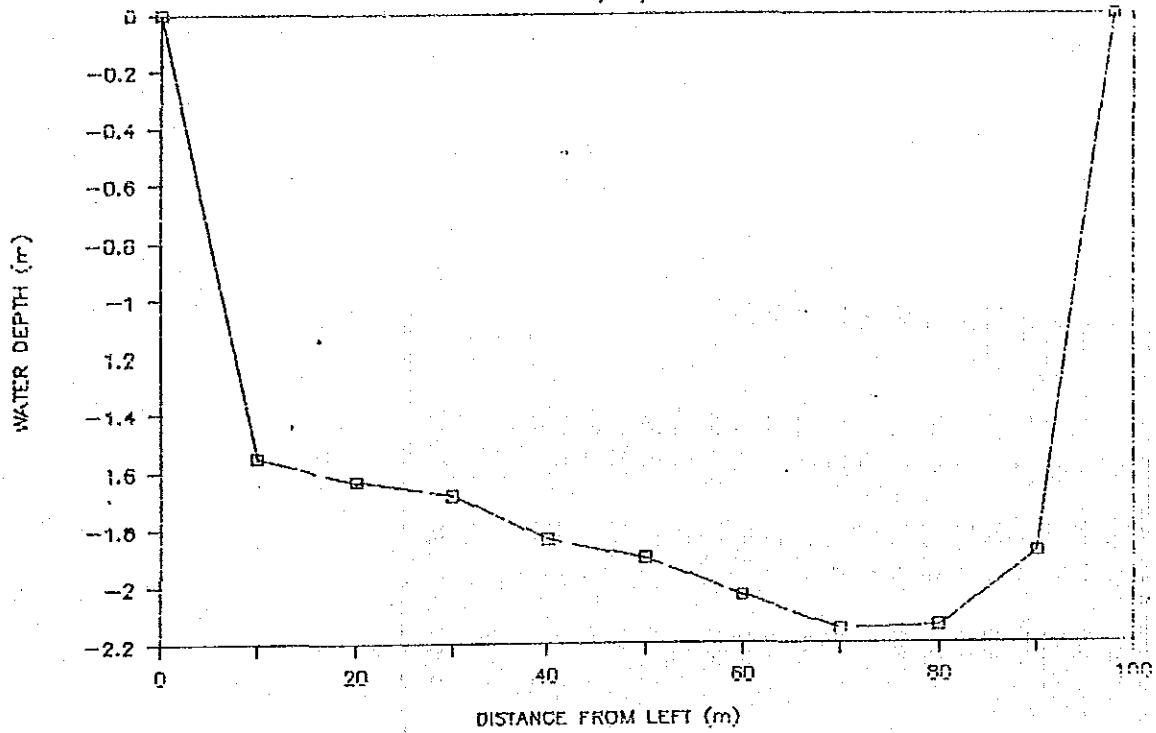
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	1.55	1.63	1.68	1.83	1.90	2.03	2.15	2.14	1.88	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	8.00
TOTAL SE/WIDTH (m)	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	98.00
VELOCITY. 2-1 (f/s)	0.18	0.30	0.60	0.52	0.40	0.40	0.30	0.30	0.10	0.00
VELOCITY. 2-2 (f/s)	0.18	0.30	0.60	0.52	0.40	0.40	0.30	0.30	0.10	0.00
MEAN VEL. 2 (f/s)	0.18	0.30	0.60	0.52	0.40	0.40	0.30	0.30	0.10	0.00
VELOCITY. 8-1 (f/s)	0.13	0.28	0.40	0.30	0.30	0.26	0.15	0.14	0.08	0.00
VELOCITY. 8-2 (f/s)	0.13	0.28	0.40	0.30	0.30	0.26	0.15	0.14	0.08	0.00
MEAN VEL. 8 (f/s)	0.13	0.28	0.40	0.30	0.30	0.26	0.15	0.14	0.08	0.00
MEAN VEL. (f/s)	0.16	0.29	0.50	0.41	0.35	0.33	0.23	0.22	0.09	0.00
MEAN VEL. (m/s)	0.047	0.088	0.152	0.125	0.107	0.101	0.069	0.067	0.027	0.00
L/MEAN DEPTH (m)	0.000	0.775	1.610	1.793	1.883	1.998	2.120	2.143	1.945	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	7.75	8.05	8.96	9.41	9.99	10.60	10.71	9.73	-
R/MEAN DEPTH (m)	0.000	1.570	1.643	1.848	1.933	2.060	2.148	2.075	0.940	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	8.00	-
R/SEC. AREA (m2)	0.00	7.85	8.21	8.59	9.24	9.66	10.30	10.38	7.52	-
S/APRA (m2)	0.00	15.60	16.26	16.93	18.20	19.08	20.29	21.34	17.25	-
TOTAL AREA (m2)	0.0	15.6	31.9	48.8	67.0	86.1	106.4	127.7	148.3	166.0
S/DISCHARGE (m3/s)	0.00	0.74	1.44	2.58	2.27	2.03	2.04	1.46	0.47	-
TOTAL DIS. (m3/s)	0.00	0.74	2.17	4.75	7.03	9.06	11.10	12.57	13.98	14.45

WATER LEVEL (f) : 8.44 WATER LEVEL (m) : 2.57
 TOTAL DISCHARGE : 14.45 MEAN VELOCITY (m/s) : 0.09

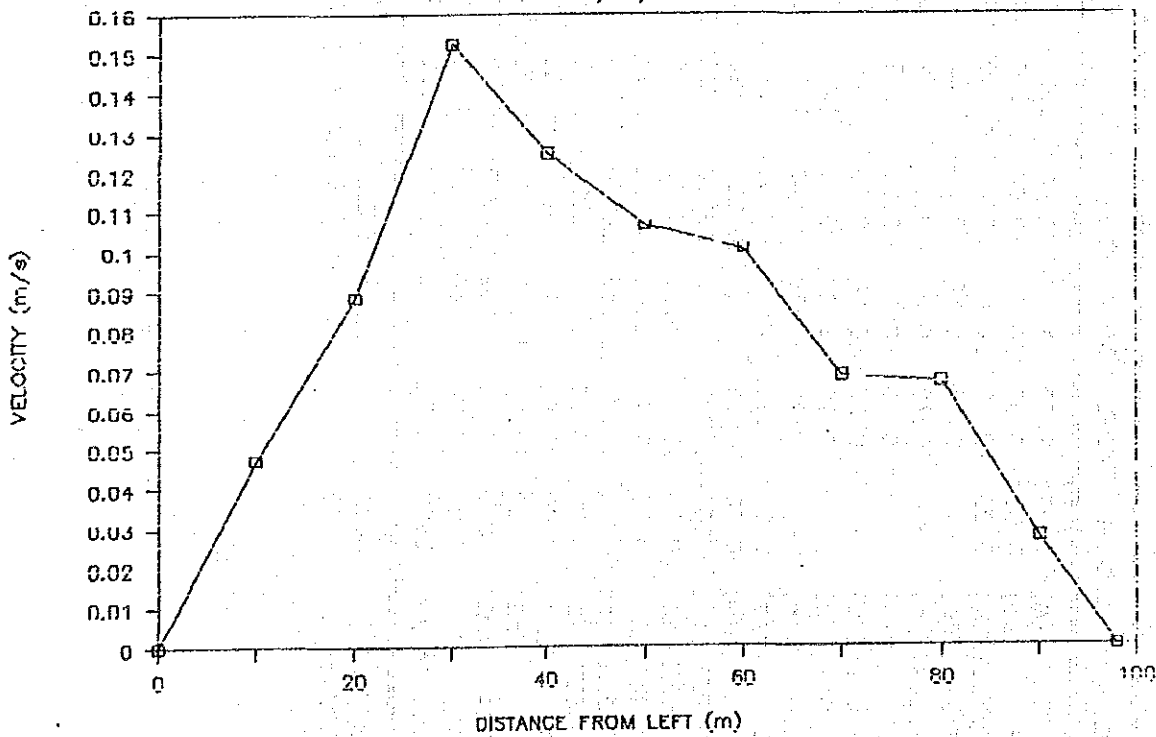
WATER DEPTH (4-280)

DEC./23/90



VELOCITY (4-280)

DEC./23/90



FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

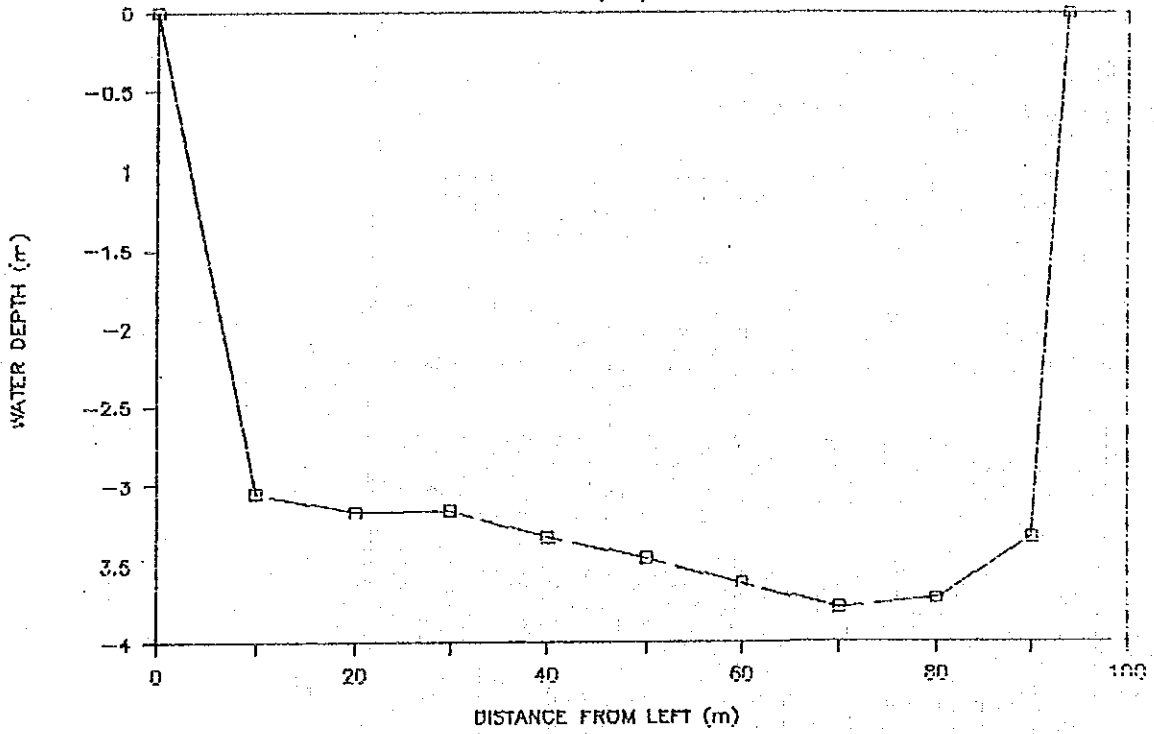
JAN./13/'91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	0.00	3.17	3.15	3.33	3.46	3.62	3.78	3.72	3.33	0.00
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	3.80
TOTAL SE/WIDTH(m)	0.00	10.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	93.80
VELOCITY. 2-1(f/s)	-	0.35	1.22	1.40	1.45	1.28	1.12	0.88	0.60	0.00
VELOCITY. 2-2(f/s)	-	0.35	1.22	1.40	1.45	1.28	1.12	0.88	0.60	0.00
MEAN VEL. 2 (f/s)	-	0.35	1.22	1.40	1.45	1.28	1.12	0.88	0.60	0.00
VELOCITY. 8-1(f/s)	-	0.30	1.20	1.10	1.30	0.90	0.78	0.64	0.28	0.00
VELOCITY. 8-2(f/s)	-	0.30	1.20	1.10	1.30	0.90	0.78	0.64	0.28	0.00
MEAN VEL. 8 (f/s)	-	0.30	1.20	1.10	1.30	0.90	0.78	0.64	0.28	0.00
MEAN VEL (f/s)	0.00	0.33	1.21	1.25	1.38	1.09	0.95	0.75	0.44	0.00
MEAN VEL (m/s)	0.00	0.099	0.369	0.381	0.419	0.332	0.290	0.232	0.134	0.00
L/MEAN DEPTH (m)	0.000	1.525	3.140	3.163	3.428	3.580	3.740	3.735	3.428	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	15.25	15.70	16.44	17.14	17.90	18.70	18.68	17.14	-
R/MEAN DEPTH (m)	0.000	3.080	3.162	3.203	3.353	3.500	3.765	3.623	1.665	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	3.80	-
R/SEC. AREA (m2)	0.00	15.40	15.84	16.01	16.81	17.50	18.83	18.11	6.33	-
S/AREA (m2)	0.00	30.65	31.54	31.83	33.25	34.64	37.53	36.79	23.46	-
TOTAL AREA (m2)	0.0	30.7	62.2	94.0	127.3	161.9	235.6	272.4	295.9	-
S/DISCHARGE (m3/s)	0.00	3.04	11.63	10.67	12.67	14.52	10.87	8.52	3.15	-
TOTAL DIS. (m3/s)	0.00	3.04	14.67	25.34	38.01	52.52	75.42	83.94	87.08	-

WATER LEVEL (f) : 13.55 WATER LEVEL (m) : 4.13
 TOTAL DISCHARGE : 87.08 MEAN VELOCITY(m/s) : 0.29

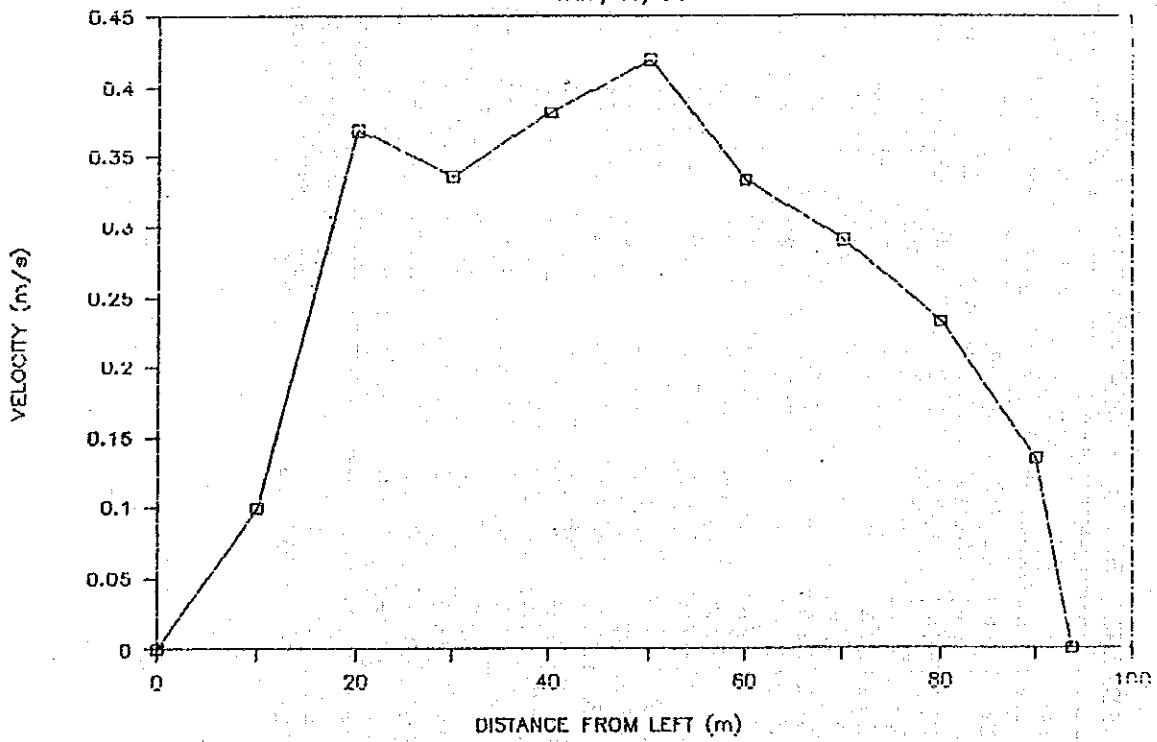
WATER DEPTH (4-280)

JAN./13/91



VELOCITY (4-280)

JAN./13/91



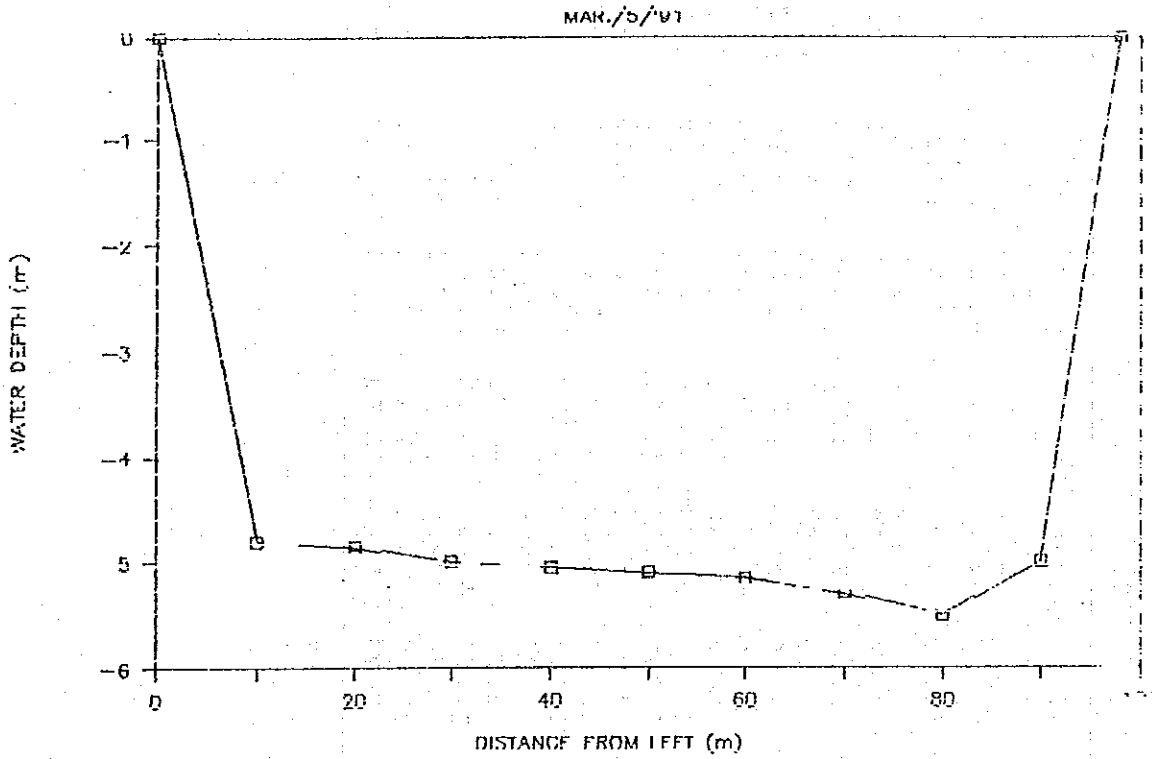
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

MAR./5/'91

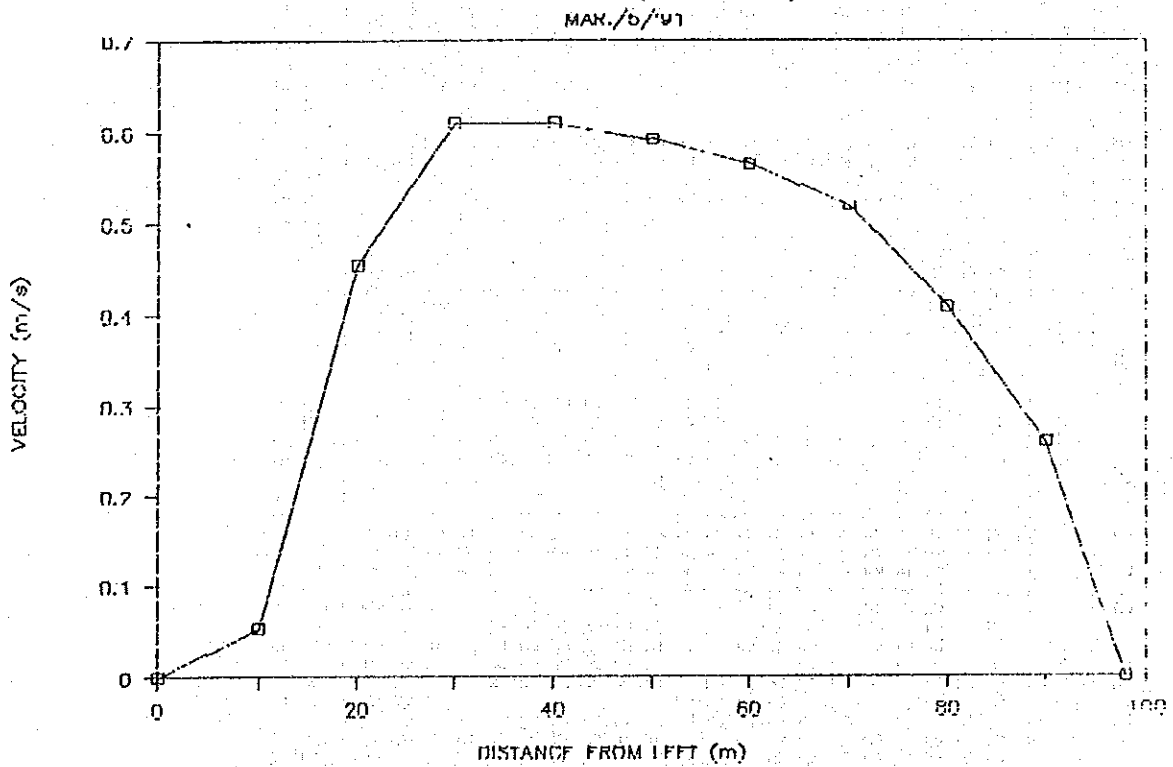
ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	4.80	4.85	5.00	5.05	5.10	5.15	5.30	5.50	5.00	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	8.00
TOTAL SE/WIDTH(m)	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	98.00
VELOCITY.2-1(f/s)	0.20	1.50	2.30	2.20	2.18	2.00	1.90	1.48	0.90	0.00
VELOCITY.2-2(f/s)	0.20	1.50	2.30	2.20	2.18	2.00	1.90	1.48	0.90	0.00
MEAN VEL.2 (f/s)	0.20	1.50	2.30	2.20	2.18	2.00	1.90	1.48	0.90	0.00
VELOCITY.8-1(f/s)	0.15	1.48	1.70	1.80	1.70	1.70	1.50	1.20	0.80	0.00
VELOCITY.8-2(f/s)	0.15	1.48	1.70	1.80	1.70	1.70	1.50	1.20	0.80	0.00
MEAN VEL.8 (f/s)	0.15	1.48	1.70	1.80	1.70	1.70	1.50	1.20	0.80	0.00
MEAN VEL (f/s)	0.18	1.49	2.00	2.00	1.94	1.85	1.70	1.34	0.85	0.00
MEAN VEL (m/s)	0.053	0.454	0.610	0.610	0.591	0.564	0.518	0.408	0.259	0.00
L/MEAN DEPTH (m)	0.000	2.400	4.838	4.963	5.038	5.138	5.263	5.450	5.125	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	24.00	24.81	25.19	25.44	25.69	26.31	27.25	25.63	-
R/MEAN DEPTH (m)	0.000	4.813	4.888	5.013	5.063	5.113	5.188	5.375	2.500	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
R/SEC. AREA (m2)	0.00	24.06	24.44	25.06	25.31	25.56	26.75	26.88	20.00	-
S/AREA (m2)	0.00	48.06	48.63	49.88	50.50	51.00	53.06	54.13	45.63	-
TOTAL AREA (m2)	0.0	48.1	96.7	146.6	197.1	248.1	352.8	406.9	452.5	-
S/DISCHARGE(m3/s)	0.00	2.56	22.08	30.40	30.78	29.11	27.49	22.11	11.82	-
TOTAL DIS. (m3/s)	0.00	2.56	24.65	35.84	115.99	145.10	172.60	194.70	206.52	-

WATER LEVEL (f) : 19.90 WATER LEVEL (m) : 6.07
 TOTAL DISCHARGE : 206.52 MEAN VELOCITY(m/s) : 0.46

WATER DEPTH (4-280)



VELOCITY (4-280)



FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

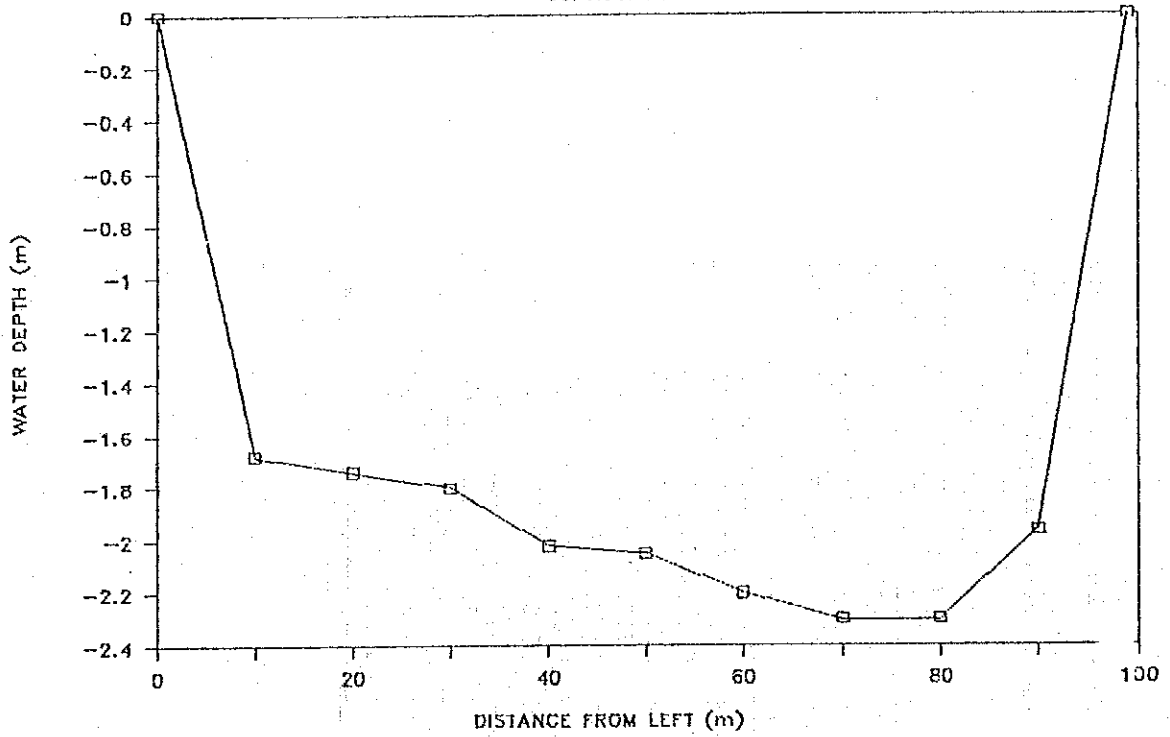
30/AUG/91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	0.00	1.68	1.74	1.80	2.02	2.05	2.20	2.30	2.30	1.96	0.00
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	99.00
VELOCITY.2-1(f/s)	0.00	0.30	0.50	0.55	0.45	0.55	0.70	0.55	0.60	0.45	0.00
VELOCITY.2-2(f/s)	0.00	0.30	0.50	0.55	0.50	0.55	0.75	0.55	0.60	0.45	0.00
MEAN VEL.2 (f/s)	0.00	0.30	0.50	0.55	0.48	0.55	0.73	0.55	0.60	0.45	0.00
VELOCITY.8-1(f/s)	0.00	0.26	0.40	0.45	0.40	0.45	0.40	0.45	0.40	0.25	0.00
VELOCITY.8-2(f/s)	0.00	0.26	0.40	0.45	0.40	0.45	0.40	0.40	0.40	0.30	0.00
MEAN VEL.8 (f/s)	0.00	0.26	0.40	0.45	0.40	0.45	0.40	0.43	0.40	0.28	0.00
MEAN VEL (f/s)	0.00	0.28	0.45	0.50	0.44	0.50	0.56	0.49	0.50	0.36	0.00
MEAN VEL (m/s)	0.00	0.085	0.137	0.152	0.133	0.152	0.171	0.149	0.152	0.110	0.00
L/MEAN DEPTH (m)	0.000	0.840	1.725	1.785	1.965	2.043	2.163	2.275	2.300	2.045	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	8.40	8.63	8.93	9.83	10.21	10.81	11.38	11.50	10.23	-
R/MEAN DEPTH (m)	0.000	1.695	1.755	1.855	2.028	2.088	2.225	2.300	2.215	0.980	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	9.00	-
R/SEC. AREA (m2)	0.00	8.48	8.78	9.28	10.14	10.44	11.13	11.50	11.08	8.82	-
S/AREA (m2)	0.00	16.88	17.40	18.20	19.96	20.65	21.94	22.88	22.58	19.05	-
TOTAL AREA (m2)	0.0	16.9	34.3	52.5	72.4	93.1	115.0	137.9	160.5	179.5	-
S/DISCHARGE(m3/s)	0.00	1.44	2.39	2.77	2.66	3.15	3.76	3.40	3.44	2.10	-
TOTAL DIS. (m3/s)	0.00	1.44	3.83	6.60	9.26	12.41	16.17	19.57	23.01	25.11	-

WATER LEVEL (f) : 8.66 WATER LEVEL (m) : 2.64
 TOTAL DISCHARGE : 25.11 MEAN VELOCITY(m/s) : 0.14

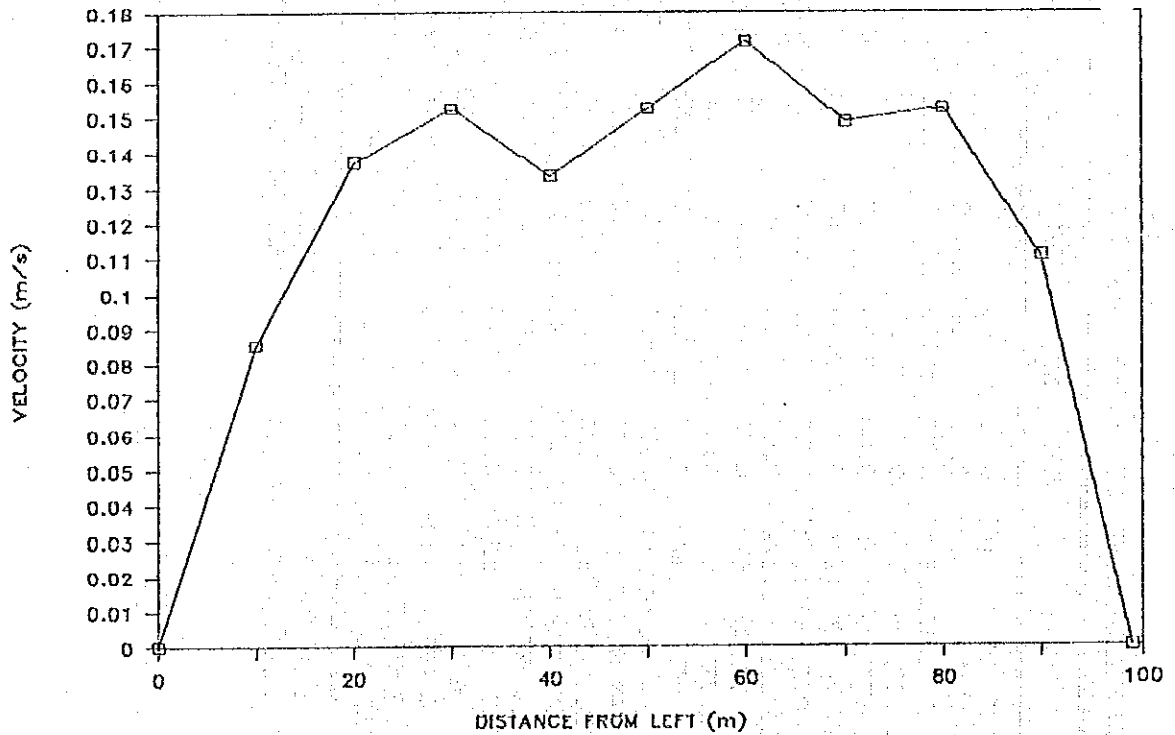
WATER DEPTH (4-280)

30/AUG/91



VELOCITY (4-280)

30/AUG/91



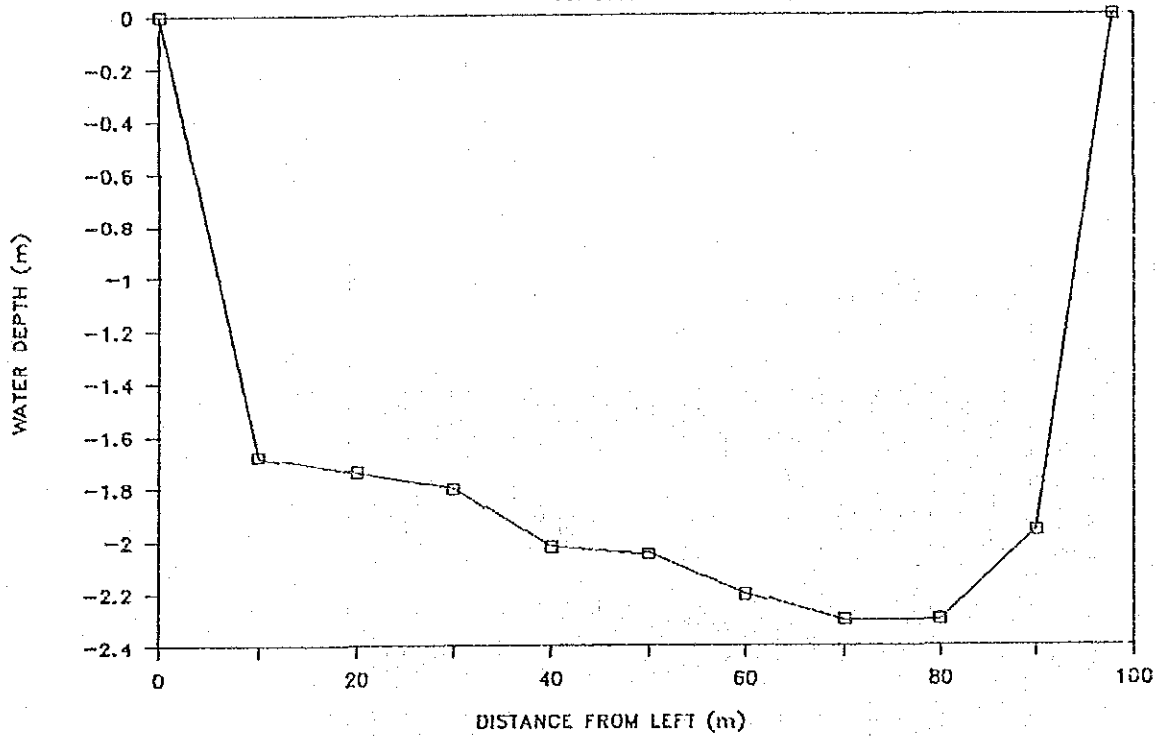
FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY 19/SEP/91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	1.68	1.74	1.80	2.02	2.05	2.20	2.30	2.30	1.96	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	7.80
TOTAL SE/WIDTH(m)	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	97.80
VELOCITY.2-1(f/s)	0.30	0.30	0.35	0.40	0.50	0.55	0.32	0.35	0.30	0.00
VELOCITY.2-2(f/s)	0.30	0.35	0.35	0.40	0.48	0.55	0.32	0.35	0.30	0.00
MEAN VEL.2 (f/s)	0.30	0.33	0.35	0.40	0.49	0.55	0.32	0.35	0.30	0.00
VELOCITY.8-1(f/s)	0.00	0.22	0.30	0.30	0.30	0.34	0.30	0.27	0.25	0.00
VELOCITY.8-2(f/s)	0.00	0.22	0.30	0.30	0.30	0.34	0.30	0.27	0.30	0.00
VMEAN.8-1(f/s)	0.00	0.22	0.30	0.30	0.30	0.34	0.30	0.27	0.28	0.00
MEAN VEL.8 (f/s)	0.00	0.26	0.33	0.35	0.40	0.45	0.31	0.31	0.29	0.00
MEAN VEL (m/s)	0.00	0.079	0.099	0.107	0.120	0.136	0.094	0.094	0.088	0.00
L/MEAN DEPTH (m)	0.000	0.840	1.725	1.965	2.043	2.163	2.275	2.300	2.045	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	8.40	8.63	9.83	10.21	10.81	11.38	11.50	10.23	-
R/MEAN DEPTH (m)	0.000	1.695	1.855	2.028	2.088	2.225	2.300	2.215	0.980	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	7.80	-
R/SEC. AREA (m2)	0.00	8.48	8.78	10.14	10.44	11.13	11.50	11.08	7.64	-
S/AREA (m2)	0.00	16.88	17.40	19.96	20.65	21.94	22.88	22.58	17.87	-
TOTAL AREA (m2)	0.0	16.9	34.3	72.4	93.1	115.0	137.9	160.5	178.3	-
S/DISCHARGE (m3/s)	0.00	1.34	1.39	2.13	2.49	2.98	2.16	2.13	1.57	-
TOTAL DIS. (m3/s)	0.00	1.34	2.73	6.66	9.15	12.12	14.29	16.42	17.98	-

WATER LEVEL (f) : 8.27 WATER LEVEL (m) : 2.52
 TOTAL DISCHARGE : 17.98 MEAN VELOCITY(m/s) : 0.10

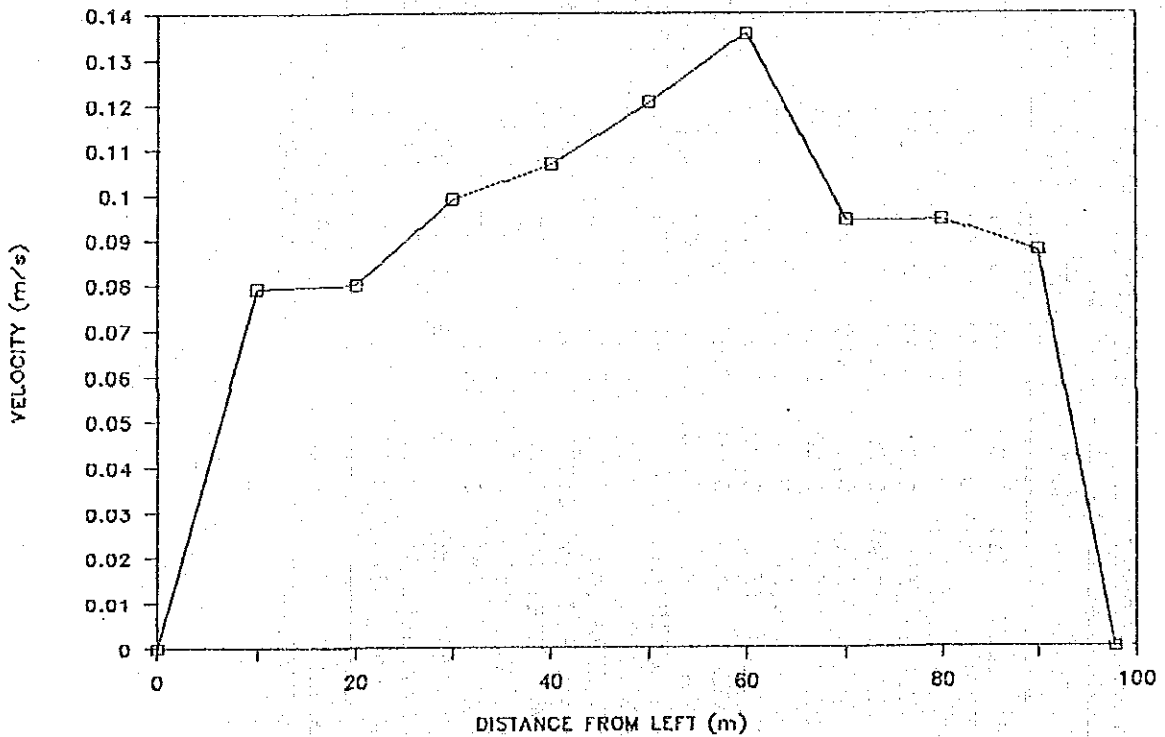
WATER DEPTH (4-280)

19/SEP/91



VELOCITY (4-280)

19/SEP/91



FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

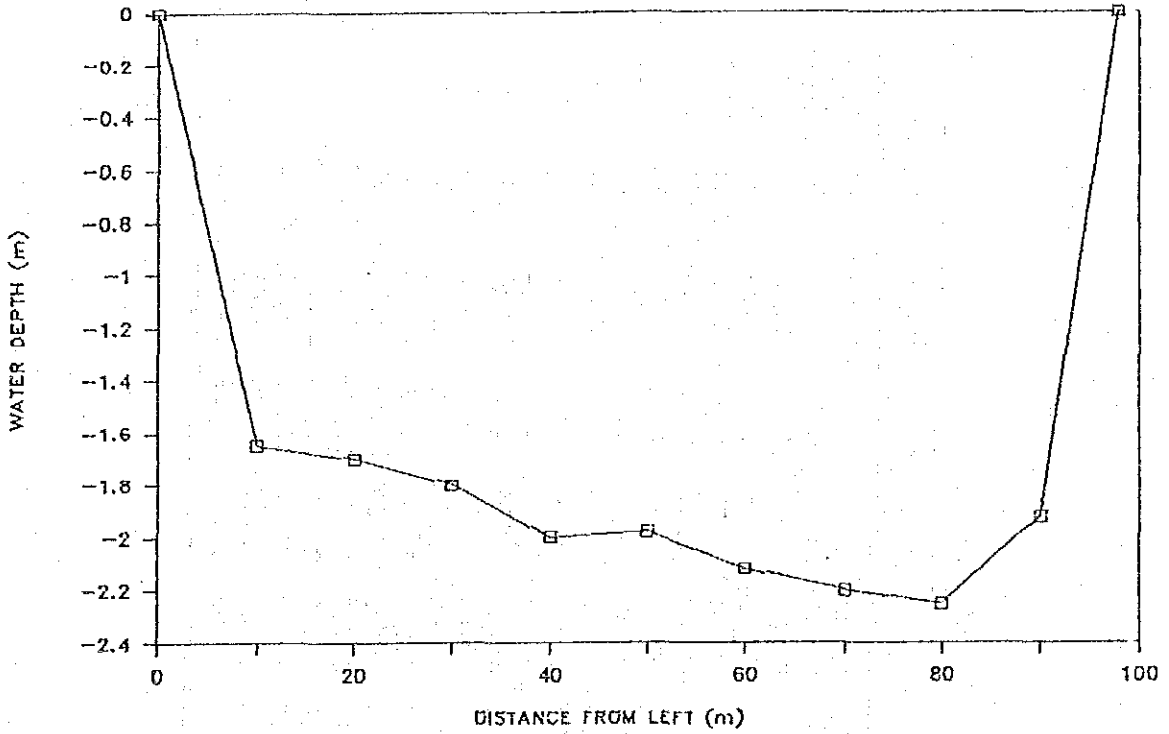
21/OCT/91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	0.00	1.65	1.70	1.80	2.00	1.98	2.12	2.20	2.25	1.92	0.00
S/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	7.80
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	97.80
VELOCITY.2-1(f/s)	0.00	0.30	0.35	0.35	0.40	0.45	0.55	0.32	0.33	0.25	0.00
VELOCITY.2-2(f/s)	0.00	0.30	0.35	0.35	0.40	0.50	0.55	0.32	0.33	0.25	0.00
MEAN VEL.2 (f/s)	0.00	0.30	0.35	0.35	0.40	0.48	0.55	0.32	0.33	0.25	0.00
VELOCITY.8-1(f/s)	0.00	0.20	0.20	0.30	0.30	0.30	0.34	0.30	0.27	0.22	0.00
VELOCITY.8-2(f/s)	0.00	0.20	0.20	0.30	0.30	0.30	0.34	0.30	0.27	0.22	0.00
MEAN VEL.8 (f/s)	0.00	0.20	0.20	0.30	0.30	0.30	0.34	0.30	0.27	0.22	0.00
MEAN VEL (f/s)	0.00	0.25	0.28	0.33	0.35	0.39	0.45	0.31	0.30	0.24	0.00
MEAN VEL (m/s)	0.00	0.076	0.084	0.099	0.107	0.118	0.136	0.094	0.091	0.072	0.00
L/MEAN DEPTH (m)	0.000	0.825	1.688	1.775	1.950	1.985	2.085	2.180	2.238	2.003	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	8.25	8.44	8.88	9.75	9.93	10.43	10.90	11.19	10.01	-
R/MEAN DEPTH (m)	0.000	1.669	1.725	1.850	1.995	2.015	2.140	2.213	2.168	0.960	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	7.80	-
R/SEC. AREA (m2)	0.00	8.31	8.63	9.25	9.98	10.08	10.70	11.06	10.84	7.49	-
S/AREA (m2)	0.00	16.56	17.06	18.13	19.73	20.00	21.13	21.96	22.03	17.50	-
TOTAL AREA (m2)	0.0	16.6	33.6	51.8	71.5	91.5	112.6	134.6	156.6	174.1	-
S/DISCHARGE(m3/s)	0.00	1.26	1.43	1.80	2.10	2.36	2.87	2.08	2.01	1.25	-
TOTAL DIS. (m3/s)	0.00	1.26	2.69	4.49	6.59	8.95	11.82	13.89	15.91	17.16	-

WATER LEVEL (f) : 8.20 WATER LEVEL (m) : 2.50
 TOTAL DISCHARGE : 17.16 MEAN VELOCITY(m/s) : 0.10

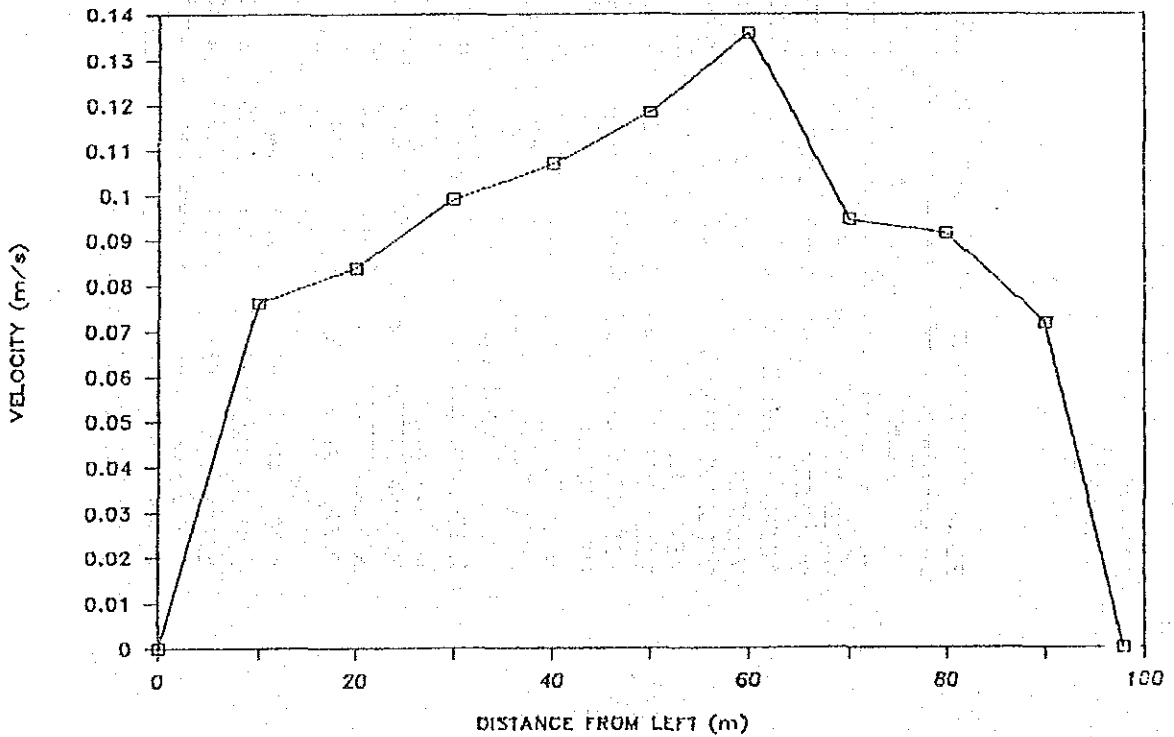
WATER DEPTH (4-280)

21/OCT/91



VELOCITY (4-280)

21/OCT/91



FLOW MEASUREMENT ST. : 4-280 MACHIYA FERRY

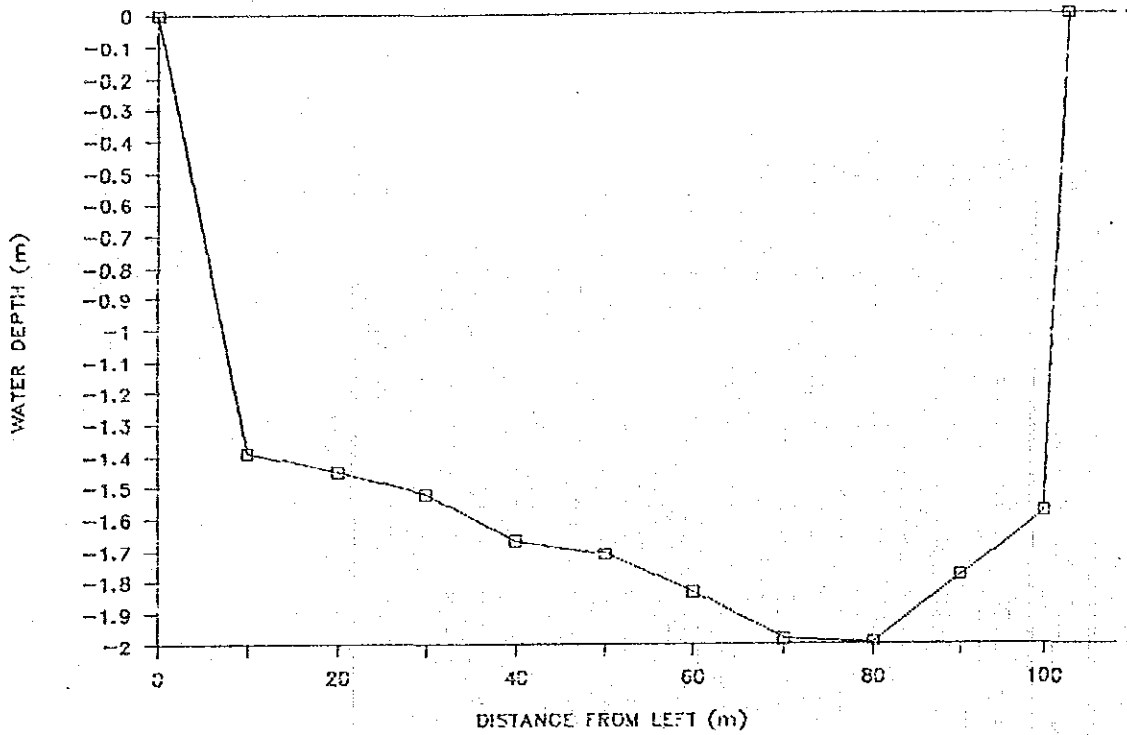
22/NOV/91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-R
WATER DEPTH (m)	0.00	1.39	1.45	1.52	1.67	1.71	1.83	1.98	1.99	1.78	1.58	0.00
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	3.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	103.00
VELOCITY.2-1(f/s)	0.00	0.20	0.25	0.20	0.40	0.31	0.50	0.20	0.45	0.19	0.15	0.00
VELOCITY.2-2(f/s)	0.00	0.20	0.25	0.20	0.40	0.31	0.50	0.20	0.45	0.19	0.15	0.00
MEAN VEL.2 (f/s)	0.00	0.20	0.25	0.20	0.40	0.31	0.50	0.20	0.45	0.19	0.15	0.00
VELOCITY.8-1(f/s)	0.00	0.15	0.18	0.11	0.30	0.20	0.35	0.18	0.25	0.12	0.10	0.00
VELOCITY.8-2(f/s)	0.00	0.15	0.18	0.11	0.30	0.20	0.35	0.18	0.25	0.12	0.10	0.00
MEAN VEL.8 (f/s)	0.00	0.15	0.18	0.11	0.30	0.20	0.35	0.18	0.25	0.12	0.10	0.00
MEAN VEL (f/s)	0.00	0.18	0.22	0.16	0.35	0.26	0.43	0.19	0.35	0.16	0.13	0.00
MEAN VEL (m/s)	0.00	0.053	0.066	0.047	0.107	0.078	0.130	0.058	0.107	0.047	0.038	0.000
L/MEAN DEPTH (m)	0.000	0.695	1.435	1.503	1.633	1.700	1.800	1.943	1.988	1.833	1.630	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	6.95	7.18	7.51	8.16	8.50	9.00	9.71	9.94	9.16	8.15	-
R/MEAN DEPTH (m)	0.000	1.405	1.468	1.558	1.680	1.740	1.868	1.983	1.938	1.730	0.790	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	3.00	-
R/SEC. AREA (m2)	0.00	7.03	7.34	7.79	8.40	8.70	9.34	9.91	9.69	8.65	2.37	-
S/AREA (m2)	0.00	13.98	14.51	15.30	16.56	17.20	18.34	19.63	19.63	17.81	10.52	-
TOTAL AREA (m2)	0.0	14.0	28.5	43.8	60.4	77.6	95.9	115.5	135.1	153.0	163.5	-
S/DISCHARGE(m3/s)	0.00	0.75	0.95	0.72	1.77	1.34	2.38	1.14	2.09	0.84	0.40	-
TOTAL DIS. (m3/s)	0.00	0.75	1.70	2.42	4.19	5.52	7.90	9.03	11.13	11.97	12.37	-

WATER LEVEL (f) : 8.00 WATER LEVEL (m) : 2.44
 TOTAL DISCHARGE : 12.37 MEAN VELOCITY(m/s) : 0.08

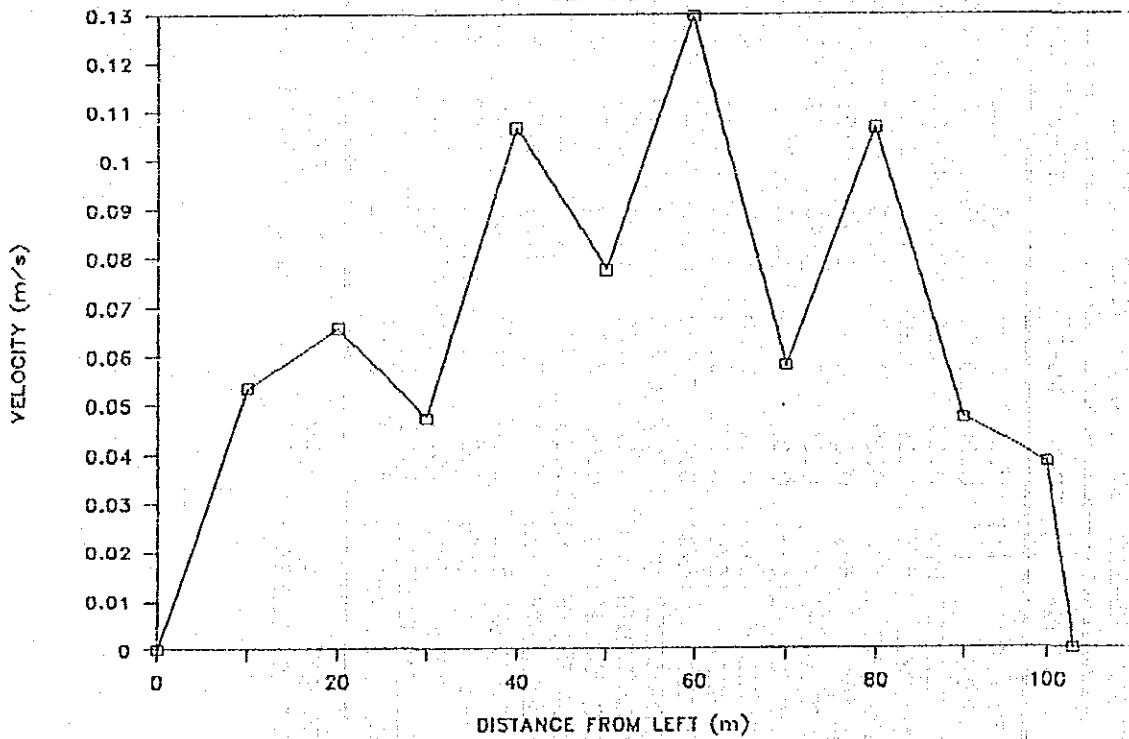
WATER DEPTH (4-280)

22/NOV/91



VELOCITY (4-280)

22/NOV/91



LIST OF FLOW MEASUREMENT

ST.: 4-350 CHILENGA

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
1	20-Jun-62	16.65	8240	8430	0.98	5.07	233	783	0.30
2	24-Jul-62	12.64	5310	7140	0.74	3.85	150	663	0.23
3	21-Aug-62	10.58	3690	5730	0.64	3.22	104	532	0.20
4	06-Nov-62	4.87	1020	2670	0.38	1.48	29	248	0.12
5	18-Nov-62	6.08	1940	3290	0.59	1.85	55	306	0.13
6	26-Nov-62	7.36	2540	4020	0.63	2.24	72	373	0.19
7	01-Dec-62	8.17	2880	4360	0.66	2.49	82	405	0.20
8	08-Dec-62	9.46	3820	5140	0.74	2.88	108	478	0.23
9	11-Dec-62	11.10	5060	5920	0.86	3.38	143	550	0.26
10	14-Dec-62	12.95	6480	6590	0.93	3.95	183	612	0.28
11	18-Dec-62	14.24	6680	7700	0.87	4.34	189	715	0.27
12	22-Dec-62	15.34	8770	8330	1.05	4.68	248	774	0.32
13	27-Dec-62	17.54	12300	9550	1.29	5.35	348	887	0.39
14	31-Dec-62	19.10	15700	10800	1.45	5.82	445	1003	0.44
15	04-Jan-63	19.96	18600	11600	1.61	6.08	527	1078	0.49
16	11-Jan-63	21.12	23200	12300	1.88	6.44	657	1143	0.57
17	18-Jan-63	21.94	26200	13300	1.98	6.69	742	1236	0.60
18	20-Jan-63	15.67	9230	8090	1.14	4.78	261	752	0.35
19	19-Feb-63	22.99	30100	14300	2.11	7.01	852	1329	0.64
20	28-Feb-63	23.80	35900	15300	2.34	7.25	1017	1421	0.71
21	19-Mar-63	24.04	34700	15000	2.31	7.33	983	1394	0.70
22	29-Mar-63	23.78	33000	14600	2.26	7.25	934	1356	0.69
23	07-Apr-63	23.08	28200	14000	2.02	7.03	799	1301	0.62
24	16-Apr-63	22.01	23000	13300	1.73	6.71	651	1236	0.53
25	22-Apr-63	21.21	20100	12500	1.61	6.46	569	1161	0.49
26	26-Apr-63	20.62	18200	11800	1.54	6.28	515	1096	0.47
27	30-Apr-63	20.08	15800	11200	1.41	6.12	447	1041	0.43
28	06-May-63	19.35	14400	10600	1.35	5.90	408	985	0.41
29	13-May-63	18.45	11800	9920	1.19	5.62	334	922	0.36
30	20-May-63	17.33	10100	8670	1.11	5.28	286	805	0.34
31	27-May-63	16.11	8620	8410	1.02	4.91	244	781	0.31
32	06-Jun-63	14.98	7460	7840	0.95	4.57	211	728	0.29
33	10-Jun-63	14.04	6680	7190	0.93	4.28	189	668	0.28
34	17-Jun-63	13.38	5890	6840	0.86	4.08	167	635	0.26
35	24-Jun-63	12.88	5760	6460	0.89	3.93	163	600	0.27
36	01-Jul-63	12.44	5280	6220	0.85	3.79	150	578	0.26
37	10-Jul-63	11.94	4820	5930	0.81	3.64	136	551	0.25
38	15-Jul-63	11.70	4620	5830	0.79	3.57	131	542	0.24
39	22-Jul-63	11.36	4310	5610	0.77	3.46	122	521	0.23
40	29-Jul-63	10.92	4030	5350	0.75	3.33	114	497	0.23
41	06-Aug-63	10.40	3650	5050	0.72	3.17	103	469	0.22
42	12-Aug-63	10.03	3460	4780	0.72	3.06	98	444	0.22
43	19-Aug-63	9.55	3230	4540	0.71	2.91	91	422	0.22
44	26-Aug-63	9.02	2860	4260	0.67	2.75	81	396	0.20
45	02-Sep-63	8.50	2590	3990	0.65	2.59	73	371	0.20
46	09-Sep-63	8.00	2420	3740	0.65	2.44	69	347	0.20
47	16-Sep-63	7.51	2210	3520	0.63	2.29	63	327	0.19
48	23-Sep-63	7.00	2040	3280	0.62	2.13	58	305	0.19
49	01-Oct-63	6.44	1790	2960	0.60	1.96	51	275	0.18
50	07-Oct-63	6.05	1520	2760	0.59	1.84	43	256	0.18

LIST OF FLOW MEASUREMENT

ST.: 4-350 CHILENGA

NO.	DATE	----[Feet - Second]----				++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
51	14-Oct-63	5.98	1270	2560	0.50	1.82	36	238	0.15
52	21-Oct-63	5.50	1260	2430	0.52	1.68	36	226	0.16
53	28-Oct-63	5.40	1260	2400	0.53	1.65	36	223	0.16
54	04-Nov-63	5.61	1440	2660	0.54	1.71	41	247	0.16
55	11-Nov-63	6.54	1740	3120	0.56	1.99	49	290	0.17
56	18-Nov-63	7.27	2460	3550	0.69	2.22	70	330	0.21
57	25-Nov-63	7.27	2640	3660	0.72	2.22	75	340	0.22
58	02-Dec-63	8.85	3020	4280	0.70	2.70	86	398	0.21
59	09-Dec-63	10.20	4340	5000	0.87	3.11	123	465	0.27
60	16-Dec-63	12.13	5700	6030	0.95	3.70	161	560	0.29
61	23-Dec-63	12.85	5950	6500	0.92	3.92	168	604	0.28
62	30-Dec-63	12.68	5490	6370	0.86	3.86	155	592	0.26
63	06-Jan-64	12.77	5880	6450	0.91	3.89	167	599	0.28
64	13-Jan-64	14.24	8000	7360	1.09	4.34	227	684	0.33
65	22-Jan-64	16.22	9730	8450	1.15	4.94	276	785	0.35
66	04-Feb-64	17.36	11900	9260	1.29	5.29	337	860	0.39
67	10-Feb-64	18.51	13900	10100	1.37	5.64	394	938	0.42
68	13-Feb-64	19.19	15800	10700	1.48	5.85	447	994	0.45
69	19-Feb-64	20.69	22000	13200	1.64	6.31	623	1226	0.50
70	26-Feb-64	21.75	26100	14600	1.78	6.63	739	1356	0.54
71	04-Mar-64	21.60	23400	14200	1.65	6.58	663	1319	0.50
72	11-Mar-64	21.22	21500	13700	1.57	6.47	609	1273	0.48
73	18-Mar-64	20.54	18000	12800	1.41	6.26	510	1189	0.43
74	25-Mar-64	19.77	16100	10900	1.47	6.03	456	1013	0.45
75	01-Apr-64	19.08	14200	10300	1.37	5.82	402	957	0.42
76	08-Apr-64	18.12	12400	9680	1.28	5.52	351	899	0.39
77	15-Apr-64	16.86	9950	8950	1.11	5.14	282	831	0.34
78	22-Apr-64	15.41	8010	8270	0.97	4.70	227	768	0.30
79	29-Apr-64	13.77	6490	7300	0.89	4.20	184	678	0.27
80	05-May-64	12.46	5280	6310	0.84	3.80	150	586	0.26
81	13-May-64	11.02	4570	5520	0.83	3.36	129	513	0.25
82	20-May-64	10.07	3770	5010	0.75	3.07	107	465	0.23
83	27-May-64	9.32	3460	4620	0.75	2.84	98	429	0.23
84	03-Jun-64	8.77	3060	4290	0.71	2.67	87	399	0.22
85	10-Jun-64	8.40	2930	4030	0.71	2.56	83	374	0.22
86	17-Jun-64	8.10	2670	3800	0.70	2.47	76	353	0.21
87	24-Jun-64	7.76	2430	3610	0.67	2.37	69	335	0.20
88	01-Jul-64	7.54	2370	3660	0.65	2.30	67	340	0.20
89	08-Jul-64	7.32	2340	3560	0.66	2.23	66	331	0.20
90	17-Jul-64	7.14	2240	3510	0.64	2.18	63	326	0.20
91	22-Jul-64	7.02	1810	3430	0.53	2.14	51	319	0.16
92	29-Jul-64	6.78	2120	3320	0.64	2.07	60	308	0.20
93	14-Aug-64	6.24	1700	3120	0.55	1.90	48	290	0.17
94	28-Aug-64	5.73	1540	2850	0.54	1.75	44	265	0.16
95	05-Sep-64	5.29	1330	2600	0.51	1.61	38	242	0.16
96	23-Sep-64	4.81	850	2350	0.36	1.47	24	218	0.11
97	07-Oct-64	4.35	879	2150	0.41	1.33	25	200	0.12
98	21-Oct-64	4.01	720	1940	0.37	1.22	20	180	0.11
99	04-Nov-64	3.85	550	1890	0.29	1.17	16	176	0.09
100	18-Nov-64	4.44	984	2270	0.43	1.35	28	211	0.13

LIST OF FLOW MEASUREMENT

ST.: 4-350 CHILENGA

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
101	02-Dec-64	5.52	1690	2820	0.60	1.68	48	262	0.18
102	09-Dec-64	6.08	1900	3110	0.61	1.85	54	289	0.19
103	23-Dec-64	6.00	1910	3130	0.61	1.83	54	291	0.19
104	30-Dec-64	7.64	3080	4020	0.77	2.33	87	373	0.23
105	06-Jan-65	10.84	4740	5780	0.82	3.30	134	537	0.25
106	27-Jan-65	17.98	13600	10300	1.31	5.48	385	957	0.40
107	03-Feb-65	18.79	14600	11200	1.31	5.73	413	1041	0.40
108	10-Feb-65	18.82	15300	11200	1.36	5.74	433	1041	0.41
109	17-Feb-65	18.70	14200	11300	1.25	5.70	402	1050	0.38
110	24-Feb-65	19.11	16100	11800	1.37	5.82	456	1096	0.42
111	03-Mar-65	19.38	17000	12100	1.41	5.91	481	1124	0.43
112	17-Mar-65	18.72	15100	11500	1.31	5.71	428	1068	0.40
113	24-Mar-65	18.38	14500	11100	1.30	5.60	411	1031	0.40
114	31-Mar-65	17.65	11700	10200	1.51	5.38	331	948	0.46
115	07-Apr-65	16.91	11100	9560	1.16	5.15	314	888	0.35
116	14-Apr-65	16.14	9370	8790	1.05	4.92	265	817	0.32
117	21-Apr-65	14.88	7920	8150	0.97	4.54	224	757	0.30
118	28-Apr-65	13.42	6180	7270	0.85	4.09	175	675	0.26
119	05-May-65	11.81	4650	6300	0.74	3.60	132	585	0.23
120	12-May-65	10.42	5080	5570	0.73	3.18	144	517	0.22
121	19-May-65	9.32	3490	4930	0.71	2.84	99	458	0.22
122	26-May-65	8.58	3000	4430	0.68	2.62	85	412	0.21
123	02-Jun-65	8.02	2630	4020	0.65	2.44	74	373	0.20
124	09-Jun-65	7.56	2530	3870	0.65	2.30	72	360	0.20
125	16-Jun-65	7.26	2480	3720	0.66	2.21	70	346	0.20
126	23-Jun-65	6.94	2190	3510	0.62	2.12	62	326	0.19
127	30-Jun-65	6.62	2150	3390	0.63	2.02	61	315	0.19
128	07-Jul-65	6.36	1950	3230	0.60	1.94	55	300	0.18
129	14-Jul-65	6.28	1950	3140	0.62	1.91	55	292	0.19
130	21-Jul-65	6.16	1830	3010	0.61	1.88	52	280	0.19
131	28-Jul-65	6.00	1810	2900	0.62	1.83	51	269	0.19
132	04-Aug-65	5.80	1610	2780	0.58	1.77	46	258	0.18
133	11-Aug-65	5.56	1540	2700	0.57	1.69	44	251	0.17
134	18-Aug-65	5.31	1440	2570	0.56	1.62	41	239	0.17
135	25-Aug-65	5.12	1210	2430	0.50	1.56	34	226	0.15
136	01-Sep-65	4.90	1200	2240	0.54	1.49	34	208	0.16
137	08-Sep-65	4.73	993	2150	0.48	1.44	28	200	0.15
138	15-Sep-65	4.68	1150	2170	0.53	1.43	33	202	0.16
139	22-Sep-65	4.46	905	2050	0.44	1.36	26	190	0.13
140	29-Sep-65	4.07	791	1940	0.41	1.24	22	180	0.12
141	06-Oct-65	4.02	782	1940	0.40	1.23	22	180	0.12
142	23-Oct-65	3.88	707	1830	0.39	1.18	20	170	0.12
143	03-Nov-65	3.63	545	1810	0.30	1.11	15	168	0.09
144	28-Aug-66	4.62	980	2390	0.41	1.41	28	222	0.12
145	14-Oct-66	3.52	492	1800	0.27	1.07	14	167	0.08
146	03-Nov-66	3.21	426	1710	0.25	0.98	12	159	0.08
147	20-Apr-67	19.23	15100	10900	1.38	5.86	428	1013	0.42
148	05-Jan-68	9.06	3200	4530	0.71	2.76	91	421	0.22
149	04-May-68	12.21	5030	6340	0.79	3.72	142	589	0.24
150	16-May-68	9.99	3320	5260	0.63	3.04	94	489	0.19

LIST OF FLOW MEASUREMENT

ST.: 4-350 CHILENGA

NO.	DATE	----[Feet - Second]----				++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
151	07-Jun-68	7.38	2260	3710	0.61	2.25	64	345	0.19
152	05-Jul-68	6.27	1600	3060	0.52	1.91	45	284	0.16
153	23-Jul-68	5.83	1560	3030	0.52	1.78	44	281	0.16
154	09-Aug-68	5.41	1390	2700	0.51	1.65	39	251	0.16
155	05-Sep-68	4.66	1070	2480	0.43	1.42	30	230	0.13
156	10-Oct-68	3.75	692	1970	0.35	1.14	20	183	0.11
157	06-Nov-68	3.28	463	1781	0.25	1.00	13	165	0.08
158	12-Dec-68	5.97	1903	3096	0.61	1.82	54	288	0.19
159	09-Jan-69	16.54	11030	8989	1.23	5.04	312	835	0.37
160	06-Aug-69	10.30	3826	5664	0.68	3.14	108	526	0.21
161	04-Sep-69	8.54	2752	4633	0.59	2.60	78	430	0.18
162	08-Oct-69	5.96	1763	3267	0.54	1.82	50	304	0.16
163	06-Nov-69	6.91	2219	3756	0.59	2.11	63	349	0.18
164	04-Dec-69	7.26	2414	3909	0.62	2.21	68	363	0.19
165	08-Jan-70	16.76	11741	9377	1.25	5.11	332	871	0.38
166	23-Apr-70	14.90	7030	8120	0.87	4.54	199	754	0.27
167	07-May-70	12.57	5380	7110	0.76	3.83	152	661	0.23
168	23-May-70	10.24	3580	5560	0.64	3.12	101	517	0.20
169	06-Jun-70	8.88	2890	4810	0.60	2.71	82	447	0.18
170	26-Jun-70	7.85	2450	4320	0.57	2.39	69	401	0.17
171	11-Jul-70	7.13	2070	3850	0.54	2.17	59	358	0.16
172	23-Jul-70	6.69	1850	3650	0.51	2.04	52	339	0.16
173	26-Aug-70	5.55	1460	3030	0.48	1.69	41	281	0.15
174	19-Nov-70	5.20	1344	2609	0.52	1.58	38	242	0.16
175	14-Dec-70	11.96	5624	5783	0.97	3.65	159	537	0.30
176	23-May-71	13.74	6719	7937	0.85	4.19	190	737	0.26
177	16-Jun-71	10.73	3993	5640	0.71	3.27	113	524	0.22
178	13-Aug-71	7.57	2074	3642	0.57	2.31	59	338	0.17
179	15-Sep-71	5.95	1727	3301	0.52	1.81	49	307	0.16
180	12-Oct-71	4.89	1383	2864	0.46	1.49	39	266	0.14
181	13-Nov-71	4.60	933	2547	0.36	1.40	26	237	0.11
182	14-Dec-71	7.19	2503	3818	0.66	2.19	71	355	0.20
183	14-Feb-72	16.03	9507	8081	1.18	4.89	269	751	0.36
184	28-Mar-72	18.84	13599	11362	1.20	5.74	385	1056	0.37
185	27-Apr-72	18.59	10940	9169	1.19	5.67	310	852	0.36
186	23-May-72	14.54	6299	6358	0.99	4.43	178	591	0.30
187	02-Aug-72	7.67	3068	5126	0.59	2.34	87	476	0.18
188	12-Nov-72	4.45	1033	2838	0.36	1.36	29	264	0.11
189	14-Dec-72	4.50	1203	2829	0.42	1.37	34	263	0.13
190	04-Jan-73	6.04	1838	3643	0.50	1.84	52	338	0.15
191	19-Apr-73	9.75	3828	5964	0.64	2.97	108	554	0.20
192	06-Jun-73	5.04	1259	3127	0.40	1.54	36	291	0.12
193	08-Aug-73	4.03	825	2550	0.32	1.23	23	237	0.10
194	07-Sep-73	3.70	437	2475	0.18	1.13	12	230	0.05
195	08-Nov-73	3.38	548	2296	0.24	1.03	16	213	0.07
196	20-Dec-73	5.42	1320	2810	0.47	1.65	37	261	0.14
197	23-Dec-75	5.77	2190	4030	0.54	1.76	62	374	0.16
198	15-Jan-76	11.72	5860	7330	0.80	3.57	166	681	0.24
199	06-Feb-76	15.54	8500	8900	0.95	4.74	241	827	0.29
200	15-Dec-76	6.81	2250	3936	0.57	2.08	64	366	0.17

LIST OF FLOW MEASUREMENT

ST.: 4-350 CHILENGA

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
201	30-Jan-77	14.00	5357	5682	0.94	4.27	152	528	0.29
202	13-Feb-77	16.30	9793	8649	1.13	4.97	277	804	0.34
203	04-Mar-77	18.80	12610	8450	1.50	5.73	357	785	0.46
204	14-Apr-77	21.36	17301	9128	1.90	6.51	490	848	0.58
205	07-May-77	18.57	7735	8644	0.89	5.66	219	803	0.27
206	08-Jan-78	16.17	4218	4421	0.95	4.93	119	411	0.29
207	20-Jun-80	13.49	6219	7716	0.81	4.11	176	717	0.25
208	01-Oct-80	6.70	1638	3596	0.46	2.04	46	334	0.14
209	23-Nov-80	6.00	1410	3087	0.46	1.83	40	287	0.14
210	01-Aug-81	9.45	2477	4295	0.59	2.88	70	399	0.18
211	05-Sep-81	7.52	2293	4428	0.52	2.29	65	411	0.16
212	21-Nov-81	4.71	694	1649	0.43	1.44	20	153	0.13
213	21-Jun-82	8.00	2415	5457	0.46	2.44	68	507	0.14
214	13-Apr-83	16.79	385	806	0.48	5.12	11	75	0.15
215	13-Jul-83	5.56	35	335	0.10	1.69	1	31	0.03
216	25-Sep-83	14.14	266	1113	0.24	4.31	8	103	0.07
217	07-Aug-86	9.25	3309	5433	0.62	2.82	94	505	0.19
218	11-May-87	12.44	4005	6217	0.64	3.79	113	578	0.20
219	17-Sep-87	4.82	1299	2723	0.46	1.47	37	253	0.14
220	02-May-89	5.02	1682	4562	0.37	1.53	48	424	0.11
221	13-Jul-90	5.41	891	2468	0.36	1.65	25	229	0.11
222	17-Aug-90	4.43	962	3665	0.26	1.35	27	341	0.08
223	11-Oct-90	3.48	616	2680	0.23	1.06	17	249	0.07
224	04-Nov-90	3.18	560	2845	0.20	0.97	16	264	0.06
225	22-Dec-90	4.66	694	3020	0.23	1.42	20	281	0.07
226	13-Jan-91	10.50	3341	5990	0.56	3.20	95	557	0.17
227	31-Aug-91	4.82	715	3114	0.23	1.47	20	289	0.07
228	20-Sep-91	4.00	855	3257	0.26	1.22	24	303	0.08
229	22-Oct-91	3.67	783	3408	0.23	1.12	22	317	0.07
230	23-Nov-91	3.51	519	2635	0.20	1.07	15	245	0.06

[Note] H:Water Level, Q:Discharge, A:Discharge Area, V:Velocity

FLOW MEASUREMENT ST. : 4-350 CHILENGA

JUL./13/1990

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.37	0.94	1.79	1.55	1.56	1.55	1.66	1.98	2.01	2.09	2.24
SE/WIDTH (m)	0.00	30.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00
VELOCITY.2-1(f/s)	0.00	0.00	0.01	0.10	0.22	0.22	0.30	0.90	0.91	0.55	0.52	0.42
VELOCITY.2-2(f/s)	0.00	0.00	0.01	0.10	0.22	0.22	0.30	0.90	0.91	0.55	0.52	0.42
MEAN VEL.2 (f/s)	0.00	0.00	0.01	0.10	0.22	0.22	0.30	0.90	0.91	0.55	0.52	0.42
VELOCITY.8-1(f/s)	0.00	0.00	0.01	0.10	0.18	0.20	0.25	0.65	0.60	0.52	0.41	0.12
VELOCITY.8-2(f/s)	0.00	0.00	0.01	0.10	0.18	0.20	0.25	0.65	0.60	0.52	0.41	0.12
MEAN VEL.8 (f/s)	0.00	0.00	0.01	0.10	0.18	0.20	0.25	0.65	0.60	0.52	0.41	0.12
MEAN VEL (f/s)	0.00	0.00	0.01	0.10	0.20	0.21	0.28	0.78	0.76	0.54	0.47	0.27
MEAN VEL (m/s)	0.00	0.000	0.003	0.030	0.061	0.064	0.084	0.236	0.230	0.163	0.142	0.082
L/MEAN DEPTH (m)	0.000	0.185	0.798	1.578	1.610	1.558	1.553	1.633	1.900	2.003	2.070	2.203
L/MEAN WIDTH (m)	0.00	30.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	5.55	3.99	7.89	8.05	7.79	7.76	8.16	9.50	10.01	10.35	11.01
R/MEAN DEPTH (m)	0.000	0.513	1.153	1.730	1.553	1.558	1.578	1.740	1.988	2.030	2.128	2.258
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	2.56	5.76	8.65	7.76	7.79	7.89	8.70	9.94	10.15	10.64	11.29
S/AREA (m2)	0.00	8.11	9.75	16.54	15.81	15.58	15.65	16.86	19.44	20.16	20.99	22.30
TOTAL AREA (m2)	0.0	8.1	17.9	34.4	50.2	65.8	81.4	98.3	117.7	137.9	158.9	181.2
S/DISCHARGE(m3/s)	0.00	0.00	0.03	0.50	0.96	1.00	1.31	3.98	4.47	3.29	2.97	1.84
TOTAL DIS. (m3/s)	0.00	0.00	0.03	0.53	1.50	2.49	3.81	7.79	12.26	15.55	18.53	20.36
WATER LEVEL (f)	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL DISCHARGE :	-	-	-	-	-	-	-	-	-	-	-	-
WATER LEVEL (m)	-	-	-	-	-	-	-	-	-	-	-	-
MEAN VELOCITY(m/s)	-	-	-	-	-	-	-	-	-	-	-	-

FLOW MEASUREMENT ST. : 4-350 CHILENGA

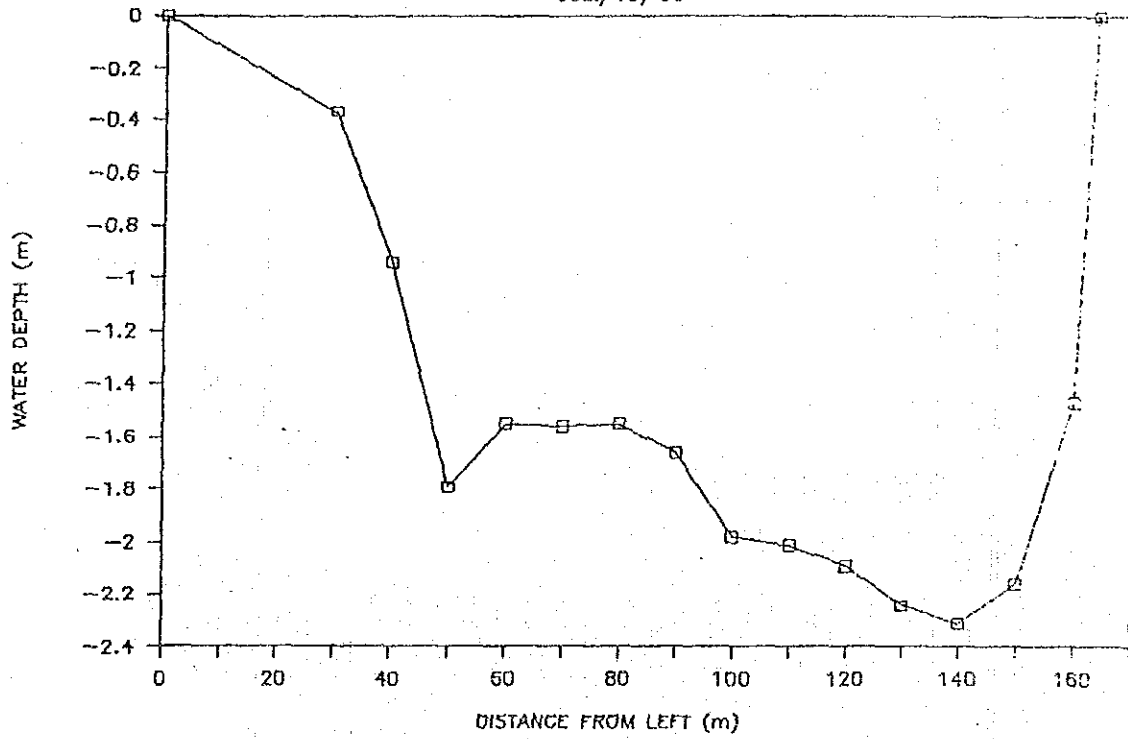
JUL./13/'90

ITEMS	NO-12	NO-13	NO-14	NO-R
WATER DEPTH (m)	2.31	2.16	1.47	0.00
SE/WIDTH (m)	10.00	10.00	10.00	4.00
TOTAL SE/WIDTH(m)	140.00	150.00	160.00	164.00
VELOCITY.2-1(f/s)	0.40	0.45	0.00	0.00
VELOCITY.2-2(f/s)	0.40	0.45	0.00	0.00
MEAN VEL.2 (f/s)	0.40	0.45	0.00	0.00
VELOCITY.8-1(f/s)	0.38	0.22	0.00	0.00
VELOCITY.8-2(f/s)	0.38	0.22	0.00	0.00
MEAN VEL.8 (f/s)	0.38	0.22	0.00	0.00
MEAN VEL (f/s)	0.39	0.34	0.00	0.00
MEAN VEL (m/s)	0.12	0.102	0.000	0.000
L/MEAN DEPTH (m)	2.293	2.198	1.643	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	-
L/SEC. AREA (m2)	11.46	10.99	8.21	-
R/MEAN DEPTH (m)	2.273	1.988	0.735	-
R/MEAN WIDTH (m)	5.00	5.00	4.00	-
R/SEC. AREA (m2)	11.36	9.94	2.94	-
S/AREA (m2)	22.83	20.93	11.15	-
TOTAL AREA (m2)	204.0	224.9	236.1	-
S/DISCHARGE(m3/s)	2.71	2.14	0.00	-
TOTAL DIS. (m3/s)	23.07	25.21	25.21	-

WATER LEVEL (f) : 5.41 WATER LEVEL (m) : 1.65
 TOTAL DISCHARGE : 25.21 MEAN VELOCITY(m/s) : 0.11

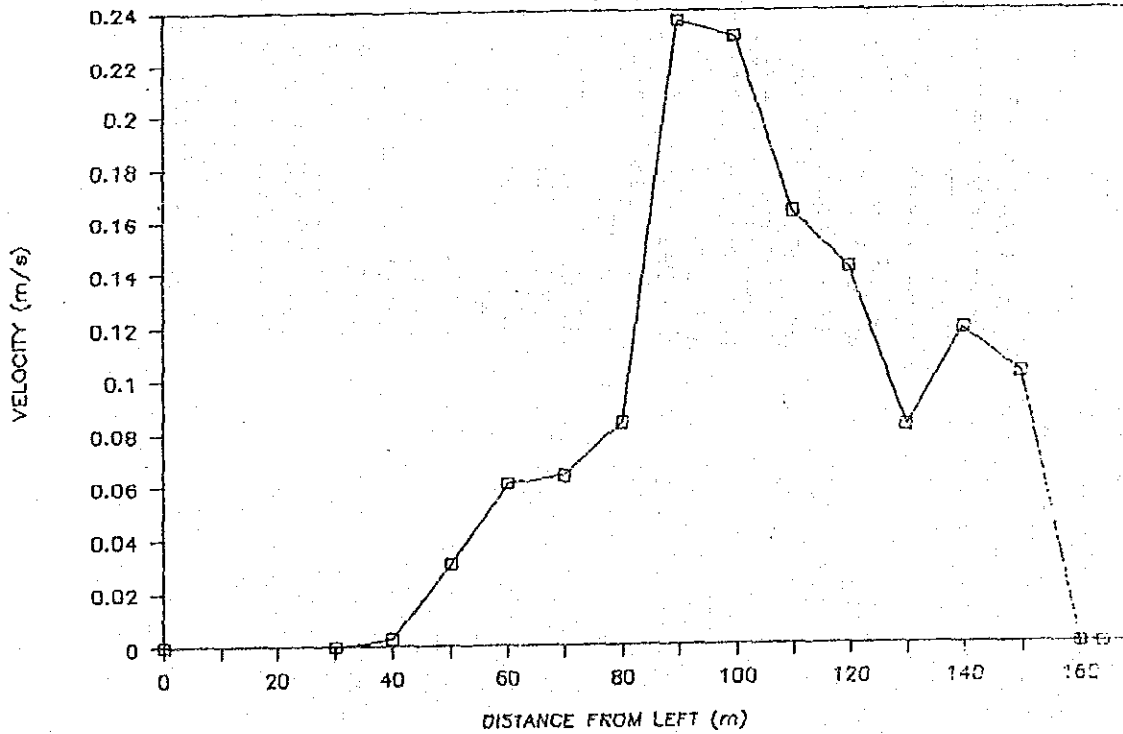
WATER DEPTH (4-350)

JUL./13/90



VELOCITY (4-350)

JUL./13/90



FLOW MEASUREMENT ST. : 4-350 CHILENGA AUG./17/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.95	1.40	1.77	2.18	1.50	1.40	1.38	1.70	2.77	2.78
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	13.00	33.00	43.00	53.00	63.00	73.00	83.00	93.00	103.00	113.00
VELOCITY.2-1(f/s)	0.00	0.00	0.15	0.15	0.15	0.12	0.12	0.15	0.35	0.60	0.60
VELOCITY.2-2(f/s)	0.00	0.00	0.15	0.15	0.15	0.12	0.12	0.15	0.35	0.60	0.60
MEAN VEL.2 (f/s)	0.00	0.00	0.15	0.15	0.15	0.12	0.12	0.15	0.35	0.60	0.60
VELOCITY.8-1(f/s)	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.30	0.50	0.45
VELOCITY.8-2(f/s)	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.30	0.50	0.45
MEAN VEL.8 (f/s)	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.30	0.50	0.45
MEAN VEL (f/s)	0.00	0.00	0.13	0.13	0.13	0.11	0.11	0.13	0.33	0.55	0.53
MEAN VEL (m/s)	0.00	0.000	0.036	0.036	0.036	0.034	0.034	0.036	0.099	0.168	0.150
L/MEAN DEPTH (m)	0.000	0.150	1.200	1.670	2.078	1.670	1.425	1.365	1.520	2.503	2.778
L/MEAN WIDTH (m)	0.00	13.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	1.95	3.94	6.44	10.39	6.35	7.13	6.93	6.10	12.51	13.09
R/MEAN DEPTH (m)	0.000	0.460	1.060	1.690	2.010	1.475	1.395	1.450	1.958	2.773	2.608
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	2.31	5.31	7.46	10.05	7.06	6.99	7.30	9.84	13.86	14.04
S/AREA (m2)	0.00	4.26	9.25	13.90	20.44	15.73	14.10	14.23	17.94	26.38	27.93
TOTAL AREA (m2)	0.0	4.3	13.5	27.4	45.2	31.3	29.1	29.5	37.8	54.2	58.9
S/DISCHARGE(m3/s)	0.00	0.00	0.50	0.60	0.76	0.53	0.47	0.54	0.70	1.00	1.07
TOTAL DIS. (m3/s)	0.00	0.00	0.50	0.60	0.76	0.53	0.47	0.54	0.70	1.00	1.07
WATER LEVEL (m)											
TOTAL DISCHARGE (m3/s)											

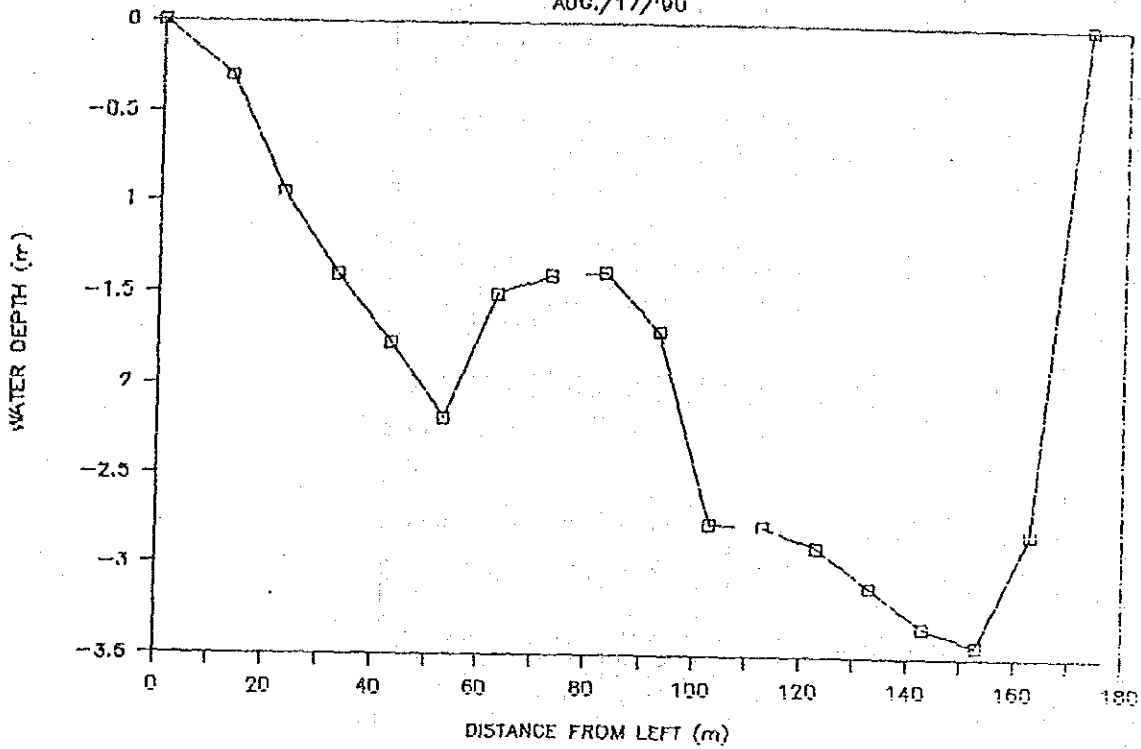
WATER LEVEL (m) :
MEAN VELOCITY(m/s) :

FLOW MEASUREMENT ST. 4-350 CHILENGA AUG./17/90

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-R
WATER DEPTH (M)	2.89	3.11	3.33	3.43	2.91	0.00
SE/WIDTH (M)	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(M)	123.00	133.00	143.00	153.00	163.00	173.00
VELOCITY.2-1 (F/S)	0.55	0.45	0.25	0.35	0.15	0.00
VELOCITY.2-2 (F/S)	0.55	0.45	0.25	0.35	0.15	0.00
MEAN VEL.2 (F/S)	0.55	0.45	0.25	0.35	0.15	0.00
VELOCITY.8-1 (F/S)	0.25	0.20	0.15	0.30	0.10	0.00
VELOCITY.8-2 (F/S)	0.25	0.20	0.15	0.30	0.10	0.00
MEAN VEL.8 (F/S)	0.25	0.20	0.15	0.30	0.10	0.00
MEAN VEL (F/S)	0.40	0.33	0.20	0.33	0.13	0.00
MEAN VEL (M/S)	0.12	0.099	0.061	0.099	0.036	0.000
L/MEAN DEPTH (M)	2.652	3.055	3.275	3.405	2.965	-
L/MEAN WIDTH (M)	5.00	5.00	5.00	5.00	5.00	-
L/AREA (M2)	14.91	15.26	15.38	17.03	14.63	-
R/MEAN DEPTH (M)	2.945	3.185	3.355	3.275	1.405	-
R/MEAN WIDTH (M)	5.00	5.00	5.00	5.00	10.00	-
R/SEC. AREA (M2)	14.73	15.63	15.78	16.36	14.05	-
S/AREA (M2)	29.64	31.10	33.15	33.40	28.98	-
TOTAL AREA (M2)	210.9	242.0	275.2	308.6	337.5	-
S/DIS. ARGE(M3/S)	3.54	3.68	2.02	3.31	1.10	-
TOTAL DIS. (M3/S)	17.73	20.61	22.84	26.14	27.24	-
WATER LEVEL (F)	4.44					1.35
DISCHARGE	27.24					0.08

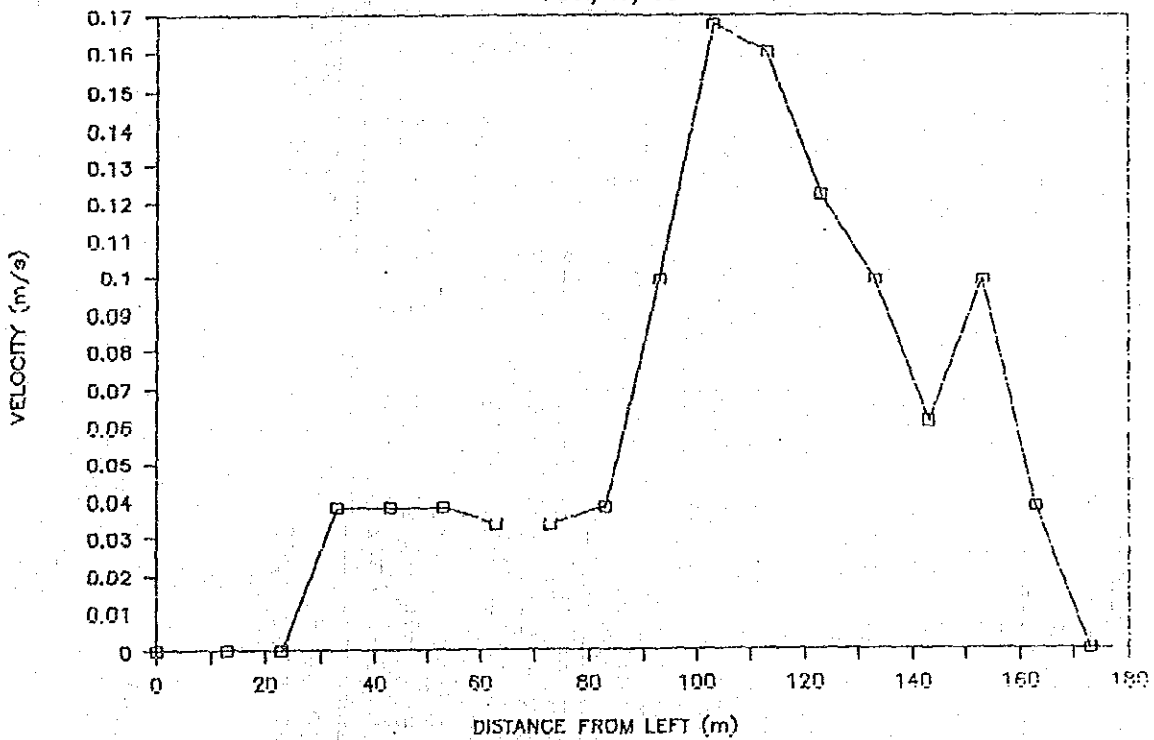
WATER DEPTH (4-350)

AUG./17/'80



VELOCITY (4-350)

AUG./17/'80



FLOW MEASUREMENT ST. : 4-350 CHILENSA

OCT./11/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	1.21	1.61	1.42	1.09	1.03	1.30	2.22	2.58	2.69	2.80
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.00	0.10	0.00	0.20	0.30	0.20	0.30	0.40	0.60	0.25
VELOCITY.2-2(f/s)	0.00	0.00	0.10	0.00	0.20	0.30	0.20	0.30	0.40	0.60	0.25
MEAN VEL.2 (f/s)	0.00	0.00	0.10	0.00	0.20	0.30	0.20	0.30	0.40	0.60	0.25
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.00	0.10	0.25	0.18	0.20	0.25	0.35	0.20
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.00	0.10	0.25	0.18	0.20	0.25	0.35	0.20
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.00	0.10	0.25	0.18	0.20	0.25	0.35	0.20
MEAN VEL (f/s)	0.00	0.00	0.05	0.00	0.15	0.28	0.19	0.25	0.33	0.48	0.23
MEAN VEL (m/s)	0.00	0.000	0.015	0.000	0.046	0.084	0.058	0.076	0.099	0.145	0.069
L/MEAN DEPTH (m)	0.000	1.083	1.510	1.468	1.173	1.045	1.233	1.990	2.490	2.663	2.773
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	3.50	5.41	7.84	5.86	5.23	6.16	9.95	12.45	13.31	13.86
R/MEAN DEPTH (m)	0.000	0.828	1.310	1.338	1.075	1.098	1.530	2.310	2.608	2.718	2.875
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	4.14	6.55	6.69	5.38	5.49	7.65	11.55	13.04	13.59	14.38
S/AREA (m2)	0.00	7.64	11.96	14.03	11.24	10.71	13.81	21.50	25.49	26.90	28.24
TOTAL AREA (m2)	0.0	7.6	35.0	49.0	60.2	70.9	84.8	106.3	131.7	158.6	185.9
S/DISCHARGE(m3/s)	0.00	0.00	0.23	0.00	0.51	0.90	0.80	1.64	2.52	3.89	1.94
TOTAL DIS. (m3/s)	0.00	0.00	0.23	0.23	0.75	1.65	2.45	4.08	6.61	10.50	12.44

WATER LEVEL (f) : -
 WATER LEVEL (m) : -
 TOTAL DISCHARGE : -
 MEAN VELOCITY(m/s) : -

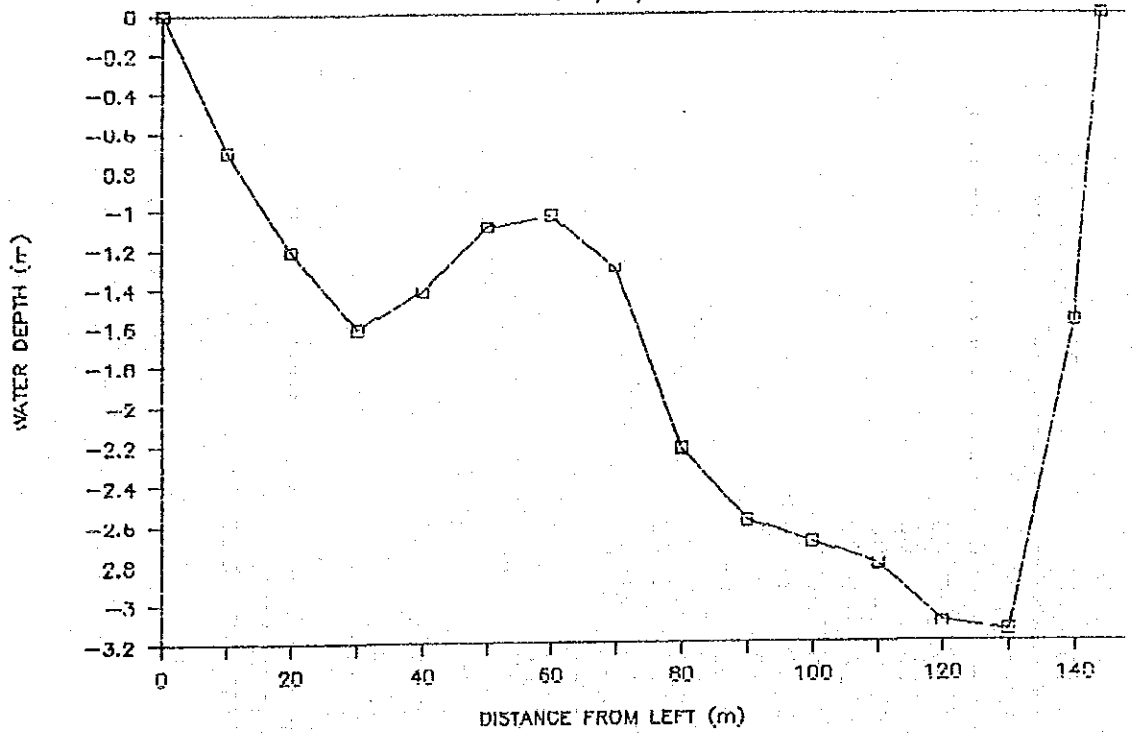
FLOW MEASUREMENT ST. : 4-350 CHILENGA OCT./11/190

ITEMS	NO-12	NO-13	NO-14	NO-R
WATER DEPTH (m)	3.10	3.14	1.58	0.00
SE/WIDTH (m)	10.00	10.00	10.00	4.00
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	144.00
VELOCITY.2-1(f/s)	0.35	0.20	0.18	0.00
VELOCITY.2-2(f/s)	0.35	0.20	0.18	0.00
MEAN VEL.2 (f/s)	0.35	0.20	0.18	0.00
VELOCITY.8-1(f/s)	0.25	0.15	0.15	0.00
VELOCITY.8-2(f/s)	0.25	0.15	0.15	0.00
MEAN VEL.8 (f/s)	0.25	0.15	0.15	0.00
MEAN VEL (f/s)	0.30	0.18	0.17	0.00
MEAN VEL (m/s)	0.09	0.053	0.050	0.000
L/MEAN DEPTH (m)	3.025	3.130	1.970	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	-
L/SEC. AREA (m2)	15.13	15.65	9.85	-
R/MEAN DEPTH (m)	3.110	2.750	0.079	-
R/MEAN WIDTH (m)	5.00	5.00	4.00	-
R/SEC. AREA (m2)	15.55	13.75	2.37	-
S/AREA (m2)	30.68	29.40	12.22	-
TOTAL AREA (m2)	217.6	247.0	259.2	-
S/DISCHARGE(m3/s)	2.80	1.57	0.61	-
TOTAL DIS. (m3/s)	15.24	16.81	17.43	-

WATER LEVEL (f) : 3.47 WATER LEVEL (m) : 1.06
 TOTAL DISCHARGE : 17.43 MEAN VELOCITY(m/s) : 0.07

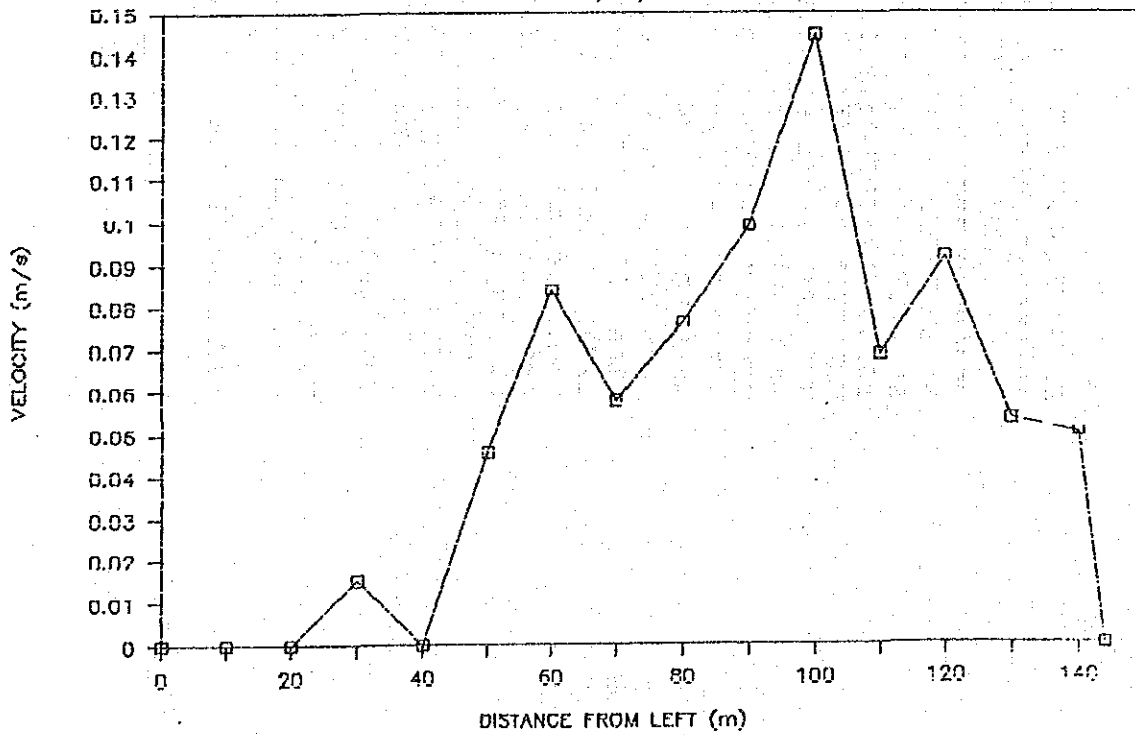
WATER DEPTH (4-350)

001./11/90



VELOCITY (4-350)

001./11/90



FLOW MEASUREMENT ST. : 4-350 CHILENGA

NOV./04/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	1.15	1.60	1.30	1.00	0.92	1.23	2.02	2.40	2.52	2.72
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.19	0.25	0.38	0.20	0.25	0.23	0.29	0.32	0.44	0.45
VELOCITY.2-2(f/s)	0.00	0.19	0.25	0.38	0.20	0.25	0.23	0.29	0.32	0.44	0.45
MEAN VEL.2 (f/s)	0.00	0.19	0.25	0.38	0.20	0.25	0.23	0.29	0.32	0.44	0.45
VELOCITY.8-1(f/s)	0.00	0.15	0.00	0.15	0.15	0.15	0.18	0.20	0.21	0.25	0.26
VELOCITY.8-2(f/s)	0.00	0.15	0.00	0.15	0.15	0.15	0.18	0.20	0.21	0.25	0.26
MEAN VEL.8 (f/s)	0.00	0.15	0.00	0.15	0.15	0.15	0.18	0.20	0.21	0.25	0.26
MEAN VEL (f/s)	0.00	0.17	0.13	0.27	0.18	0.20	0.21	0.25	0.27	0.35	0.36
MEAN VEL (m/s)	0.00	0.052	0.038	0.081	0.053	0.061	0.062	0.075	0.081	0.105	0.108
L/MEAN DEPTH (m)	0.000	0.315	1.488	1.375	1.075	0.940	1.153	1.823	2.305	2.490	2.670
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	3.15	7.44	6.88	5.38	4.70	5.76	9.11	11.53	12.45	13.35
R/MEAN DEPTH (m)	0.000	0.760	1.525	1.225	0.980	0.998	1.428	2.115	2.430	2.570	2.795
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	3.80	6.31	6.13	4.90	4.99	7.14	10.58	12.15	12.85	13.98
S/AREA (m2)	0.00	6.95	11.41	15.06	13.00	9.69	12.90	19.69	23.68	25.30	27.33
TOTAL AREA (m2)	0.0	7.0	18.4	33.4	46.4	66.4	79.3	99.0	122.7	148.0	175.3
S/DISCHARGE(m3/s)	0.00	0.00	0.57	1.05	0.55	0.59	0.81	1.47	1.91	2.66	2.96
TOTAL DIS. (m3/s)	0.00	0.00	1.17	2.22	2.76	3.35	4.15	5.63	7.54	10.20	13.16

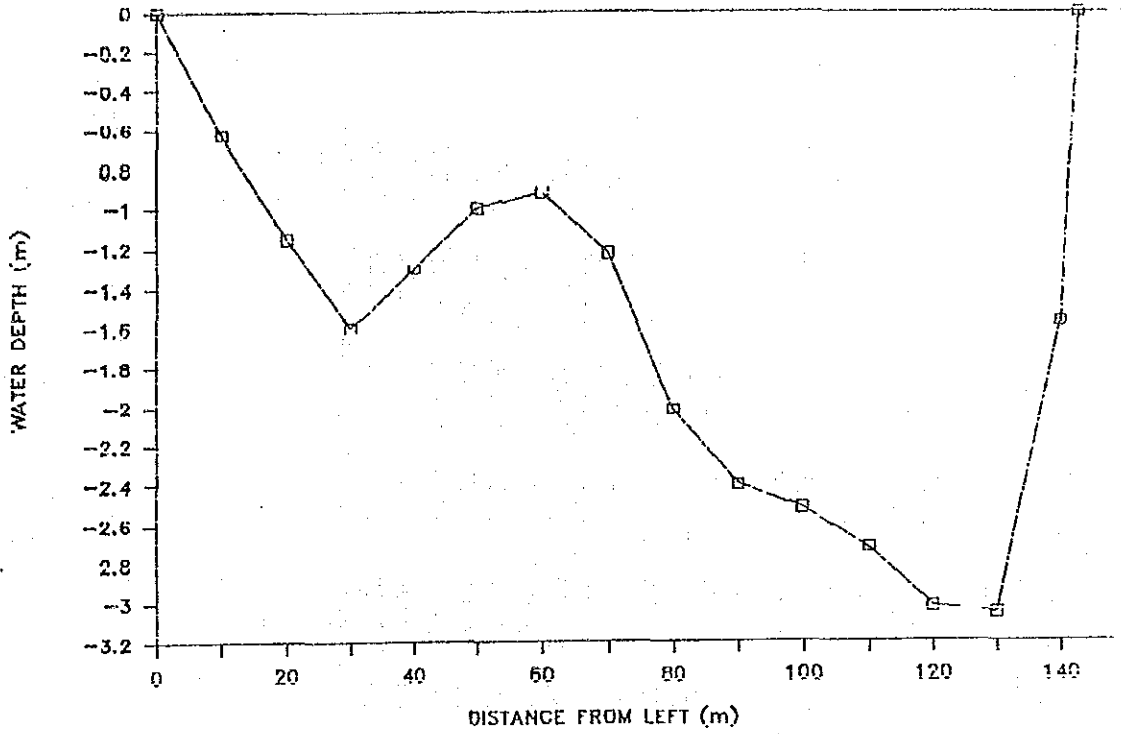
WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

FLOW MEASUREMENT ST. : 4-350 CHILENGA NOV./04/'90

ITEMS	NO-12	NO-13	NO-14	NO-R
WATER DEPTH (m)	3.02	3.05	1.57	0.00
SE/WIDTH (m)	10.00	10.00	10.00	3.00
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	143.00
VELOCITY.2-1(f/s)	0.15	0.15	0.13	0.00
VELOCITY.2-2(f/s)	0.15	0.15	0.13	0.00
MEAN VEL.2 (f/s)	0.15	0.15	0.13	0.00
VELOCITY.8-1(f/s)	0.11	0.10	0.10	0.00
VELOCITY.8-2(f/s)	0.11	0.10	0.10	0.00
MEAN VEL.8 (f/s)	0.11	0.10	0.10	0.00
MEAN VEL (f/s)	0.13	0.13	0.12	0.00
MEAN VEL (m/s)	0.04	0.038	0.035	0.000
L/MEAN DEPTH (m)	2.945	3.043	1.940	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	-
L/SEC. AREA (m2)	14.73	15.21	9.70	-
R/MEAN DEPTH (m)	3.028	2.680	0.785	-
R/MEAN WIDTH (m)	5.00	5.00	3.00	-
R/SEC. AREA (m2)	15.14	13.40	1.77	-
S/AREA (m2)	29.86	28.61	11.47	-
TOTAL AREA (m2)	205.1	233.8	245.2	-
S/DISCHARGE(m3/s)	1.18	1.09	0.40	-
TOTAL DIS. (m3/s)	14.34	15.43	15.86	-
WATER LEVEL (f) :	3.18			WATER LEVEL (m) : 0.97
TOTAL DISCHARGE :	15.86			MEAN VELOCITY(m/s) : 0.06

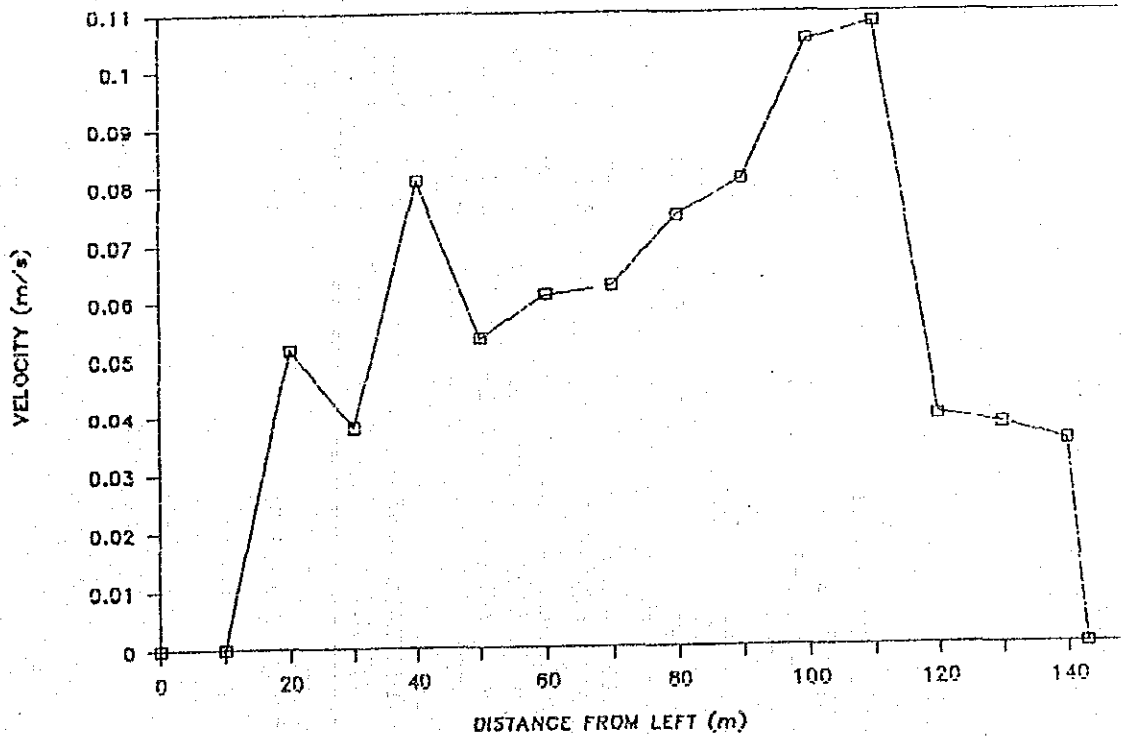
WATER DEPTH (4-350)

NOV./04/'00



VELOCITY (4-350)

NOV./04/'00



ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	
WATER DEPTH (m)	0.00	0.22	0.95	1.50	1.87	2.10	1.53	1.35	1.58	2.52	2.89	3.00
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.11	0.32	0.68	0.52
VELOCITY.2-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.11	0.32	0.68	0.52
MEAN VEL.2 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.11	0.32	0.68	0.52
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.24	0.40	0.32
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.24	0.40	0.32
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.24	0.40	0.32
MEAN VEL (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.10	0.28	0.54	0.42
MEAN VEL (m/s)	0.00	0.000	0.000	0.000	0.000	0.000	0.027	0.027	0.030	0.085	0.165	0.128
L/MEAN DEPTH (m)	0.000	0.110	0.768	1.363	1.778	2.043	1.673	1.395	1.523	2.285	2.798	2.973
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	1.10	3.84	6.81	8.89	10.21	8.36	6.98	7.61	11.43	13.99	14.86
R/MEAN DEPTH (m)	0.000	0.403	1.088	1.593	1.928	1.958	1.485	1.408	1.815	2.613	2.918	3.070
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	2.01	5.44	7.96	9.64	9.79	7.43	7.04	9.08	13.06	14.59	15.35
S/AREA (m2)	0.00	3.11	9.28	14.78	18.53	20.00	15.79	14.01	16.69	24.49	28.58	30.21
TOTAL AREA (m2)	0.0	3.1	12.4	27.2	45.7	65.7	81.5	95.5	112.2	136.7	165.2	195.5
S/DISCHARGE(m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.38	0.51	2.09	4.70	3.87
TOTAL DIS. (m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.82	1.33	3.42	8.12	11.99

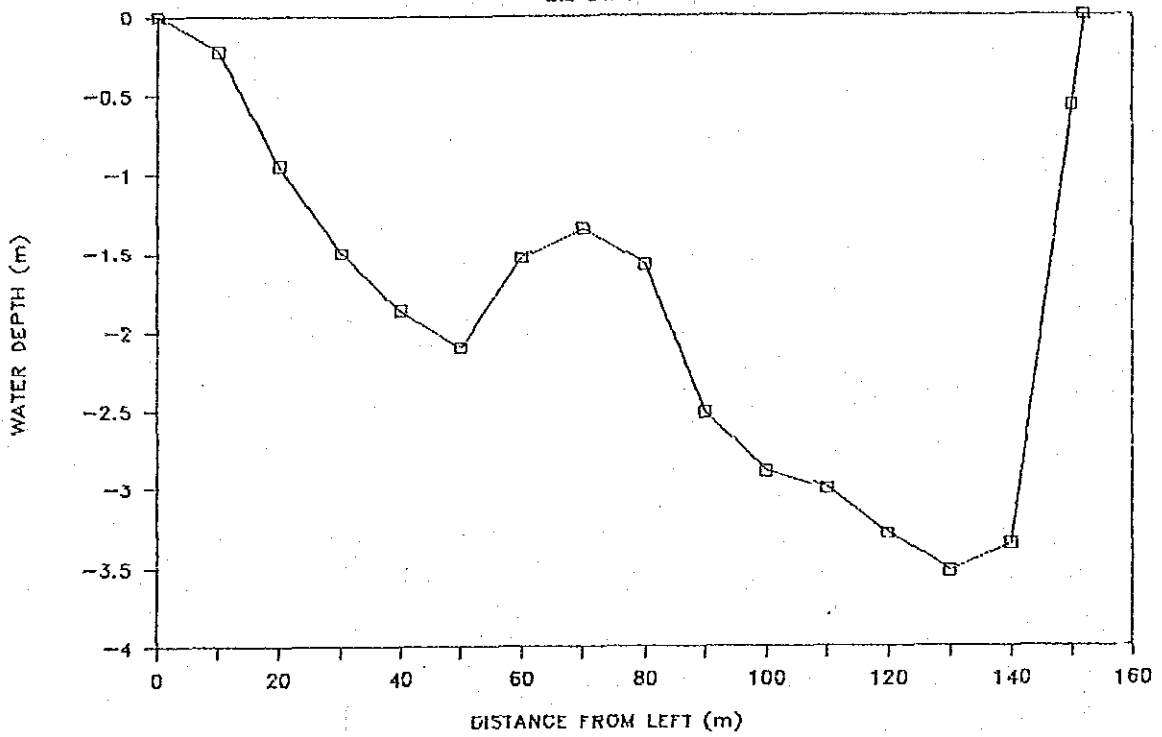
WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-R
WATER DEPTH (m)	3.28	3.52	3.35	0.57	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	2.00
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	150.00	152.00
VELOCITY.2-1(f/s)	0.35	0.29	0.30	0.00	0.00
VELOCITY.2-2(f/s)	0.35	0.29	0.30	0.00	0.00
MEAN VEL.2 (f/s)	0.35	0.29	0.30	0.00	0.00
VELOCITY.8-1(f/s)	0.21	0.21	0.18	0.00	0.00
VELOCITY.8-2(f/s)	0.21	0.21	0.18	0.00	0.00
MEAN VEL.8 (f/s)	0.21	0.21	0.18	0.00	0.00
MEAN VEL (f/s)	0.28	0.25	0.24	0.00	0.00
MEAN VEL (m/s)	0.09	0.076	0.073	0.000	0.000
L/MEAN DEPTH (m)	3.210	3.460	3.393	1.265	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	16.05	17.30	16.96	6.33	-
R/MEAN DEPTH (m)	3.340	3.478	2.655	0.285	-
R/MEAN WIDTH (m)	5.00	5.00	5.00	2.00	-
R/SEC. AREA (m2)	16.70	17.39	13.28	0.57	-
S/AREA (m2)	32.75	34.69	30.24	6.90	-
TOTAL AREA (m2)	228.2	262.9	293.1	300.0	-
S/DISCHARGE(m3/s)	2.80	2.64	2.21	0.00	-
TOTAL DIS. (m3/s)	14.78	17.43	19.64	19.64	-

WATER LEVEL (f) : 4.67 WATER LEVEL (m) : 1.42
 TOTAL DISCHARGE : 19.64 MEAN VELOCITY(m/s) : 0.07

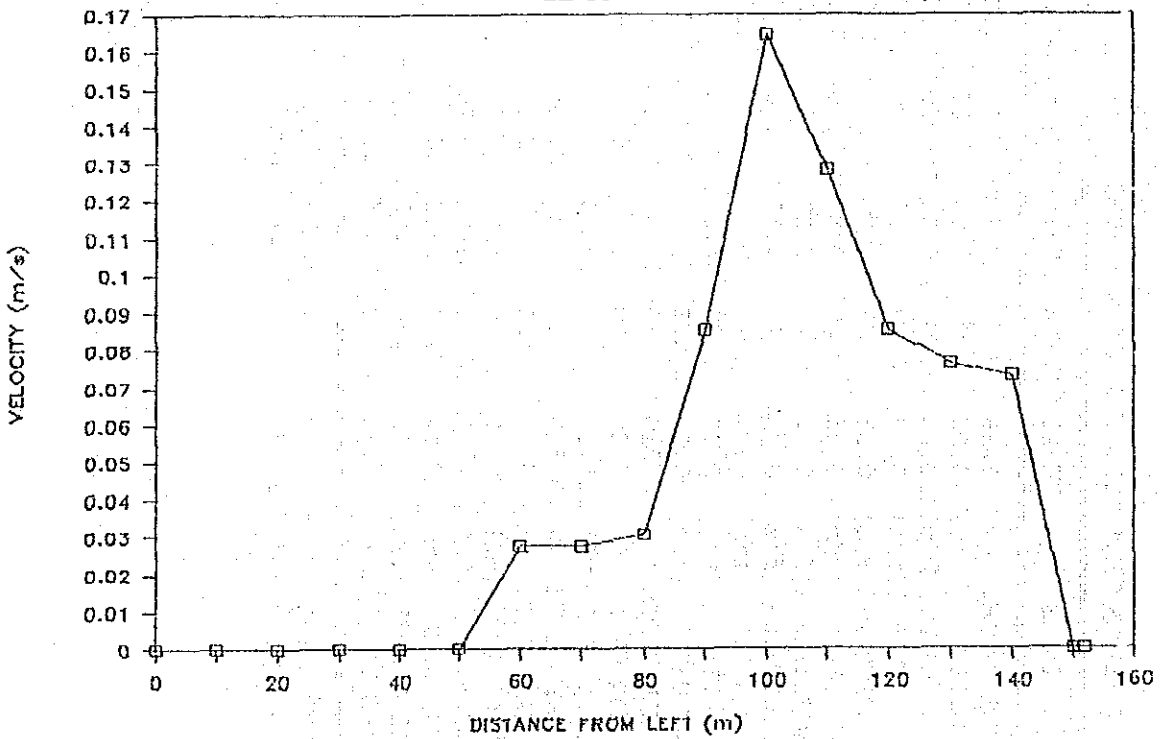
WATER DEPTH (4-350)

22/DEC/90



VELOCITY (4-350)

22/DEC/90

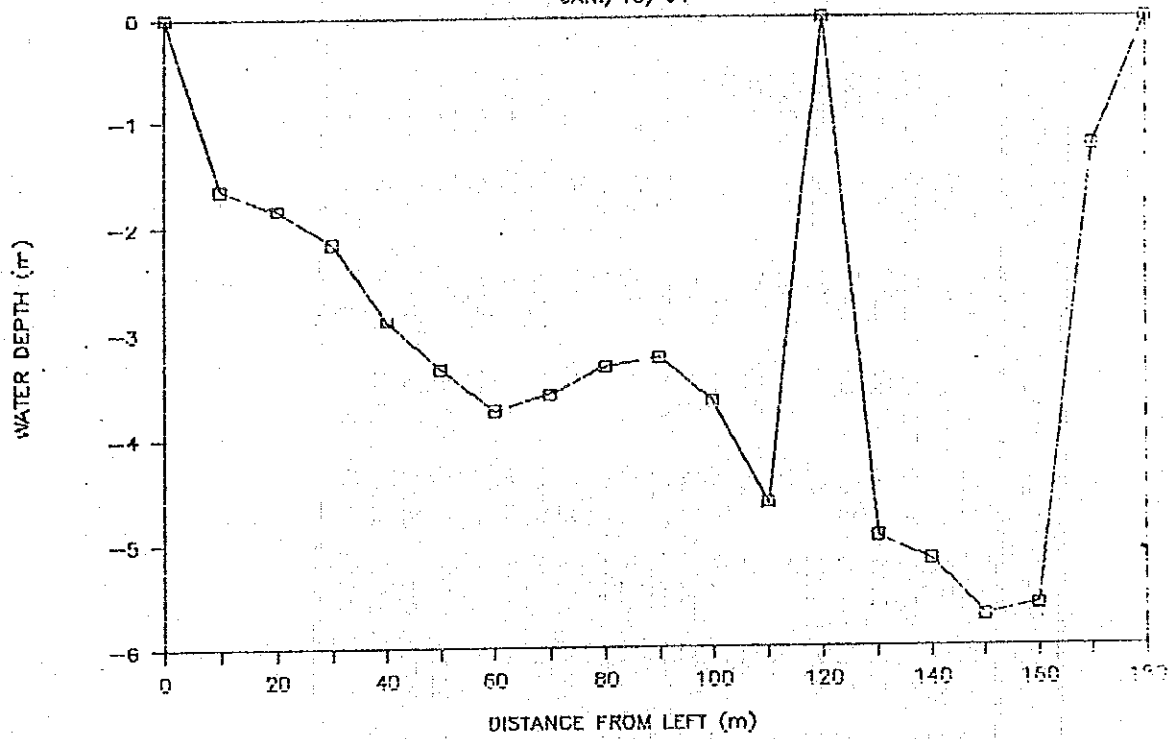


ITEMS	ND-1	ND-2	ND-3	ND-4	ND-5	ND-6	ND-7	ND-8	ND-9	ND-10	ND-11	ND-12	ND-13	ND-14	ND-15	ND-16	ND-17	ND-R
WATER DEPTH (m)	0.00	1.84	2.16	2.89	3.35	3.74	3.59	3.33	3.25	3.55	4.63	0.00	4.95	5.17	5.70	5.60	1.25	0.00
SP/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SP/WIDTH(m)	0.00	10.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00
VELOCITY.2-1(f/s)	0.00	0.00	0.00	0.12	0.42	0.12	0.15	0.74	0.82	1.34	1.40	0.00	1.30	1.20	0.90	0.15	0.00	0.00
VELOCITY.2-2(f/s)	0.00	0.00	0.00	0.12	0.42	0.12	0.15	0.74	0.82	1.34	1.40	0.00	1.30	1.20	0.90	0.15	0.00	0.00
MEAN VEL.2 (f/s)	0.00	0.00	0.00	0.12	0.42	0.12	0.15	0.74	0.82	1.34	1.40	0.00	1.30	1.20	0.90	0.15	0.00	0.00
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.10	0.28	0.10	0.10	0.70	0.60	1.10	0.82	0.00	0.80	1.08	0.48	0.10	0.00	0.00
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.10	0.28	0.10	0.10	0.70	0.60	1.10	0.82	0.00	0.80	1.08	0.48	0.10	0.00	0.00
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.10	0.28	0.10	0.10	0.70	0.60	1.10	0.82	0.00	0.80	1.08	0.48	0.10	0.00	0.00
MEAN VEL. (f/s)	0.00	0.00	0.00	0.11	0.36	0.11	0.13	0.72	0.71	1.22	1.11	0.00	1.05	1.14	0.69	0.13	0.00	0.00
MEAN VEL. (m/s)	0.00	0.00	0.00	0.034	0.107	0.034	0.038	0.219	0.216	0.372	0.338	0.00	0.320	0.347	0.210	0.038	0.00	0.00
L/MEAN DEPTH (m)	0.00	0.825	1.788	2.080	2.708	3.643	3.628	3.385	3.270	3.558	4.388	1.158	3.713	5.115	5.568	5.625	2.338	-
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	0.00	8.25	8.96	10.40	13.54	16.18	18.14	16.98	16.36	17.79	21.94	5.79	18.56	26.53	27.84	28.13	11.69	-
R/MEAN DEPTH (m)	0.00	1.698	1.920	2.343	3.005	3.445	3.703	3.310	3.353	3.903	3.473	1.238	5.005	5.303	5.675	4.513	0.625	-
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	10.00	-
R/SEC. AREA (m2)	0.00	8.49	9.60	11.71	15.03	17.24	17.63	16.55	16.76	19.51	17.36	6.19	26.03	26.51	28.38	22.56	6.25	-
S/AREA (m2)	0.00	16.74	18.56	22.11	28.56	33.41	36.76	33.53	33.11	37.30	39.30	11.98	43.59	52.09	56.21	50.69	17.94	-
TOTAL AREA (m2)	0.0	16.7	35.3	57.4	86.0	119.4	151.9	225.4	258.5	295.8	335.1	347.1	390.7	442.8	499.0	549.7	567.6	-
S/DISCHARGE(mg/s)	0.00	0.00	0.00	0.96	3.56	1.23	1.36	7.36	7.17	13.87	13.30	0.00	13.95	18.10	11.82	1.93	0.00	-
TOTAL DIS. (m3/s)	0.00	0.00	0.00	0.96	4.52	5.75	7.12	14.47	21.64	35.51	48.81	48.81	62.76	80.85	92.68	94.61	94.61	-

WATER LEVEL (f) : 10.50 WATER LEVEL (m) : 3.20
 TOTAL DISCHARGE : 94.61 MEAN VELOCITY(m/s) : 0.17

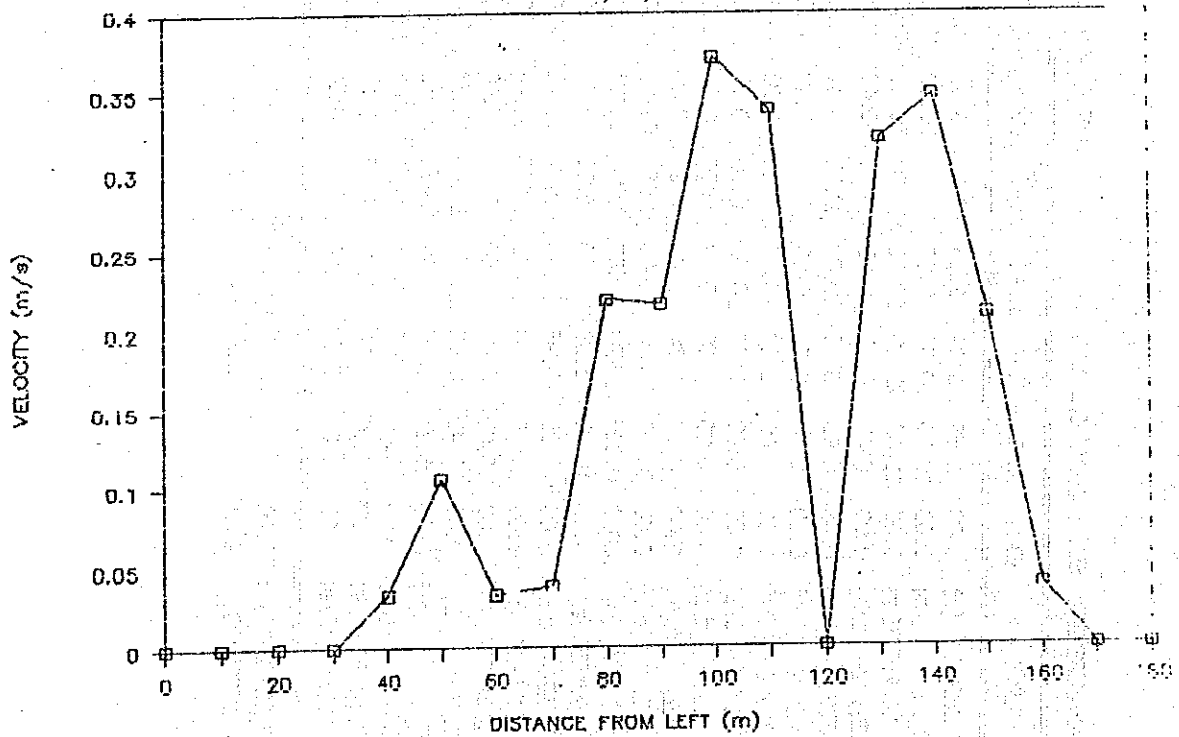
WATER DEPTH (4-350)

JAN./13/81



VELOCITY (4-350)

JAN./13/81



ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	
WATER DEPTH (m)	0.00	0.24	0.96	1.60	1.91	2.10	1.53	1.35	1.60	2.51	2.91	3.02
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.12	0.35	0.70	0.50
VELOCITY.2-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.12	0.35	0.70	0.50
MEAN VEL.2 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.12	0.35	0.70	0.50
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.10	0.25	0.40	0.30
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.10	0.25	0.40	0.30
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.10	0.25	0.40	0.30
MEAN VEL (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.11	0.30	0.55	0.40
MEAN VEL (m/s)	0.00	0.000	0.000	0.000	0.000	0.000	0.030	0.027	0.034	0.091	0.168	0.122
L/MEAN DEPTH (m)	0.000	0.120	0.780	1.440	1.833	2.053	1.673	1.395	1.538	2.283	2.810	2.993
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/AREA (m2)	0.00	1.20	3.90	7.20	9.16	10.26	8.36	6.98	7.69	11.41	14.05	14.96
R/MEAN DEPTH (m)	0.000	0.420	1.120	1.678	1.958	1.958	1.485	1.413	1.828	2.610	2.938	3.085
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	2.10	5.60	8.39	9.79	9.79	7.43	7.06	9.14	13.05	14.69	15.43
S/AREA (m2)	0.00	3.30	9.50	15.59	18.95	20.05	15.79	14.04	16.83	24.46	28.74	30.39
TOTAL AREA (m2)	0.0	3.3	12.8	28.4	47.3	67.4	83.2	97.2	114.0	138.5	167.2	197.6
S/DISCHARGE(m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.39	0.56	2.24	4.82	3.70
TOTAL DIS. (m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.85	1.42	3.66	8.47	12.18

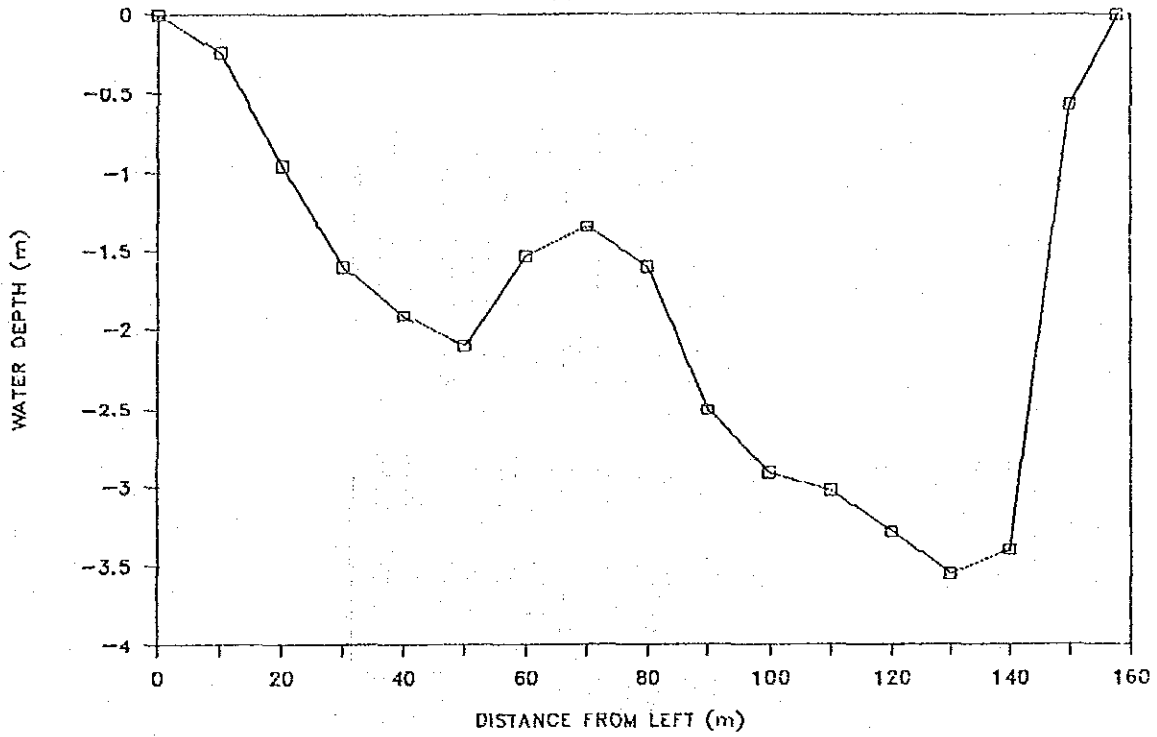
WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

FLOW MEASUREMENT ST. : 4-350 CHILENGA 31/AUG/91

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-R
WATER DEPTH (m)	3.28	3.55	3.40	0.57	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	7.80
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	150.00	157.80
VELOCITY.2-1(f/s)	0.35	0.31	0.30	0.00	0.00
VELOCITY.2-2(f/s)	0.35	0.31	0.30	0.00	0.00
MEAN VEL.2 (f/s)	0.35	0.31	0.30	0.00	0.00
VELOCITY.8-1(f/s)	0.22	0.20	0.22	0.00	0.00
VELOCITY.8-2(f/s)	0.25	0.20	0.22	0.00	0.00
MEAN VEL.8 (f/s)	0.24	0.20	0.22	0.00	0.00
MEAN VEL (f/s)	0.29	0.26	0.26	0.00	0.00
MEAN VEL (m/s)	0.09	0.078	0.079	0.000	0.000
L/MEAN DEPTH (m)	3.215	3.483	3.438	1.278	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	16.08	17.41	17.19	6.39	-
R/MEAN DEPTH (m)	3.348	3.513	2.693	0.285	-
R/MEAN WIDTH (m)	5.00	5.00	5.00	7.80	-
R/SEC. AREA (m2)	16.74	17.56	13.46	2.22	-
S/AREA (m2)	32.81	34.98	30.65	8.61	-
TOTAL AREA (m2)	230.4	265.4	296.1	304.7	-
S/DISCHARGE(m3/s)	2.93	2.72	2.43	0.00	-
TOTAL DIS. (m3/s)	15.10	17.82	20.25	20.25	-
WATER LEVEL (f) :	4.82				WATER LEVEL (m) : 1.47
TOTAL DISCHARGE :	20.25				MEAN VELOCITY(m/s) : 0.07

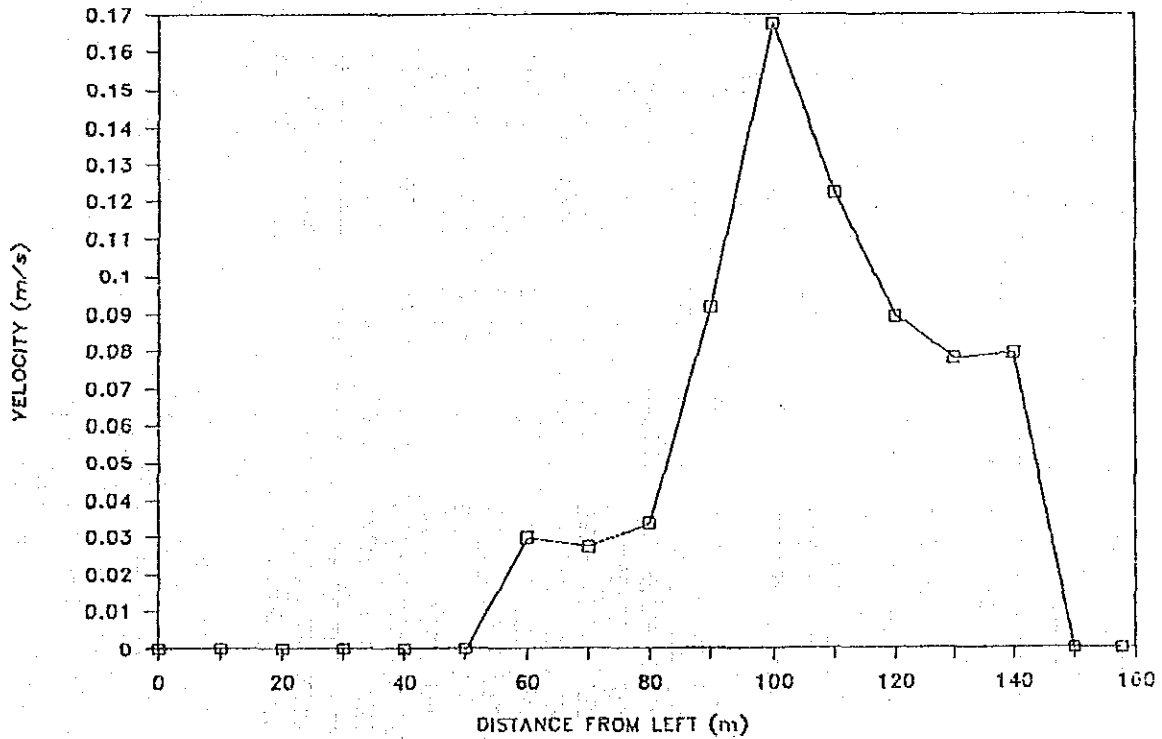
WATER DEPTH (4-350)

31/AUG/91



VELOCITY (4-350)

31/AUG/91



ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.94	1.35	1.78	2.20	1.50	1.42	1.40	1.68	2.70	2.80
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.00	0.05	0.12	0.12	0.12	0.10	0.15	0.34	0.60	0.60
VELOCITY.2-2(f/s)	0.00	0.00	0.05	0.12	0.12	0.12	0.10	0.15	0.34	0.60	0.58
MEAN VEL.2 (f/s)	0.00	0.00	0.05	0.12	0.12	0.12	0.10	0.15	0.34	0.60	0.59
VELOCITY.8-1(f/s)	0.00	0.00	0.02	0.09	0.09	0.09	0.08	0.09	0.32	0.45	0.40
VELOCITY.8-2(f/s)	0.00	0.00	0.02	0.09	0.09	0.09	0.08	0.09	0.32	0.45	0.45
MEAN VEL.8 (f/s)	0.00	0.00	0.02	0.09	0.09	0.09	0.08	0.09	0.32	0.45	0.43
MEAN VEL (f/s)	0.00	0.00	0.04	0.11	0.11	0.11	0.09	0.12	0.33	0.53	0.51
MEAN VEL (m/s)	0.00	0.00	0.011	0.032	0.032	0.032	0.027	0.037	0.101	0.160	0.155
L/MEAN DEPTH (m)	0.000	0.775	1.248	1.673	2.095	1.675	1.440	1.405	1.610	2.445	2.775
L/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	1.40	3.88	8.36	10.48	8.38	7.20	7.03	8.05	12.23	13.88
R/MEAN DEPTH (m)	0.000	0.445	1.043	1.885	2.025	1.480	1.415	1.470	1.935	2.725	2.825
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	2.23	5.21	9.43	10.13	7.40	7.08	7.85	9.68	13.63	14.13
S/AREA (m2)	0.00	3.63	9.09	13.53	17.79	15.78	14.28	14.38	17.73	25.85	28.00
TOTAL AREA (m2)	0.0	12.7	26.2	44.0	64.6	80.4	94.7	109.1	126.8	152.6	180.6
S/DISCHARGE(m3/s)	0.00	0.00	0.14	0.57	0.66	0.50	0.39	0.53	1.78	4.14	4.33
TOTAL DIS. (m3/s)	0.00	0.00	0.14	0.71	1.37	1.88	2.27	2.80	4.58	8.71	13.05

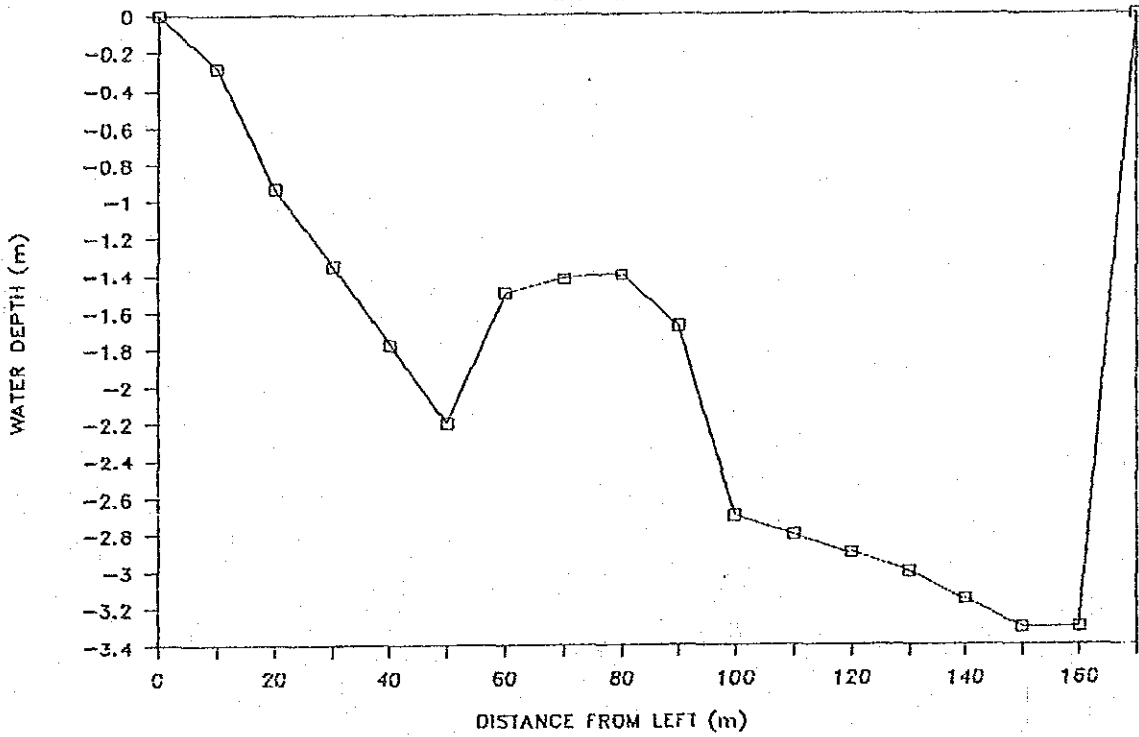
WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-R
WATER DEPTH (m)	2.90	3.00	3.15	3.30	3.30	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	150.00	160.00	170.00
VELOCITY.2-1(f/s)	0.52	0.45	0.25	0.22	0.14	0.00
VELOCITY.2-2(f/s)	0.52	0.45	0.22	0.20	0.14	0.00
MEAN VEL.2 (f/s)	0.52	0.45	0.24	0.21	0.14	0.00
VELOCITY.8-1(f/s)	0.25	0.20	0.10	0.17	0.10	0.00
VELOCITY.8-2(f/s)	0.25	0.20	0.10	0.17	0.10	0.00
MEAN VEL.8 (f/s)	0.25	0.20	0.10	0.17	0.10	0.00
MEAN VEL (f/s)	0.39	0.33	0.17	0.19	0.12	0.00
MEAN VEL (m/s)	0.12	0.099	0.051	0.058	0.037	-
L/MEAN DEPTH (m)	2.875	2.975	3.113	3.263	3.300	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	14.38	14.88	15.56	16.31	16.50	-
R/MEAN DEPTH (m)	2.925	3.038	3.188	3.300	1.650	-
R/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	10.00	-
R/SEC. AREA (m2)	14.63	15.19	15.94	16.50	16.50	-
S/AREA (m2)	29.00	30.06	31.50	32.81	33.00	-
TOTAL AREA (m2)	209.6	239.7	271.2	304.0	337.0	-
S/DISCHARGE(m3/s)	3.40	2.98	1.61	1.90	1.21	-
TOTAL DIS. (m3/s)	16.45	19.43	21.03	22.94	24.14	-

WATER LEVEL (f) : 4.00 WATER LEVEL (m) : 1.22
 TOTAL DISCHARGE : 24.14 MEAN VELOCITY(m/s) : 0.07

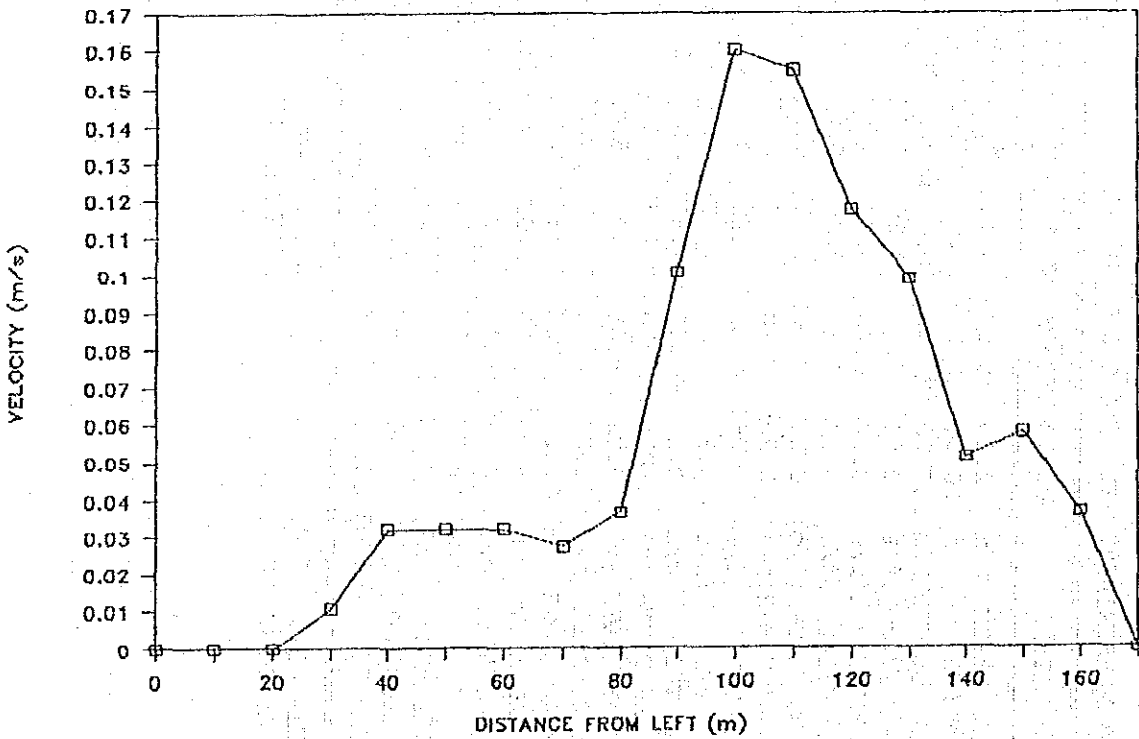
WATER DEPTH (4-350)

20/SEP/91



VELOCITY (4-350)

20/SEP/91



ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.28	0.94	1.70	2.16	1.50	1.40	1.40	1.65	2.70	2.80
SE/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.00	0.00	0.09	0.12	0.09	0.10	0.15	0.30	0.60	0.55
VELOCITY.2-2(f/s)	0.00	0.00	0.00	0.10	0.12	0.09	0.10	0.15	0.30	0.60	0.55
MEAN VEL.2 (f/s)	0.00	0.00	0.00	0.10	0.12	0.09	0.10	0.15	0.30	0.60	0.55
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.09	0.09	0.08	0.08	0.09	0.27	0.45	0.40
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.09	0.09	0.08	0.08	0.09	0.27	0.45	0.40
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.09	0.09	0.08	0.08	0.09	0.27	0.45	0.40
MEAN VEL (f/s)	0.00	0.00	0.00	0.09	0.11	0.09	0.09	0.12	0.29	0.53	0.48
MEAN VEL (m/s)	0.00	0.00	0.00	0.028	0.032	0.026	0.027	0.037	0.087	0.160	0.145
L/MEAN DEPTH (m)	0.000	0.140	0.775	1.520	2.045	1.665	1.425	1.400	1.588	2.438	2.775
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/SEC. AREA (m2)	0.00	1.40	3.88	7.60	10.23	8.33	7.13	7.00	7.94	12.19	13.88
R/MEAN DEPTH (m)	0.000	0.445	0.950	1.815	1.995	1.475	1.400	1.463	1.913	2.725	2.825
R/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	2.23	4.75	9.08	9.98	7.38	7.00	7.31	9.56	13.63	14.13
S/AREA (m2)	0.00	3.63	8.63	16.68	20.20	15.70	14.13	14.31	17.50	25.81	28.00
TOTAL AREA (m2)	0.0	3.6	12.3	39.6	59.8	75.5	89.6	103.9	121.4	147.2	175.2
S/DISCHARGE(m3/s)	0.00	0.00	0.00	0.47	0.65	0.41	0.39	0.52	1.52	4.13	4.05
TOTAL DIS. (m3/s)	0.00	0.00	0.00	0.47	1.12	1.52	1.91	2.43	3.95	8.09	12.14

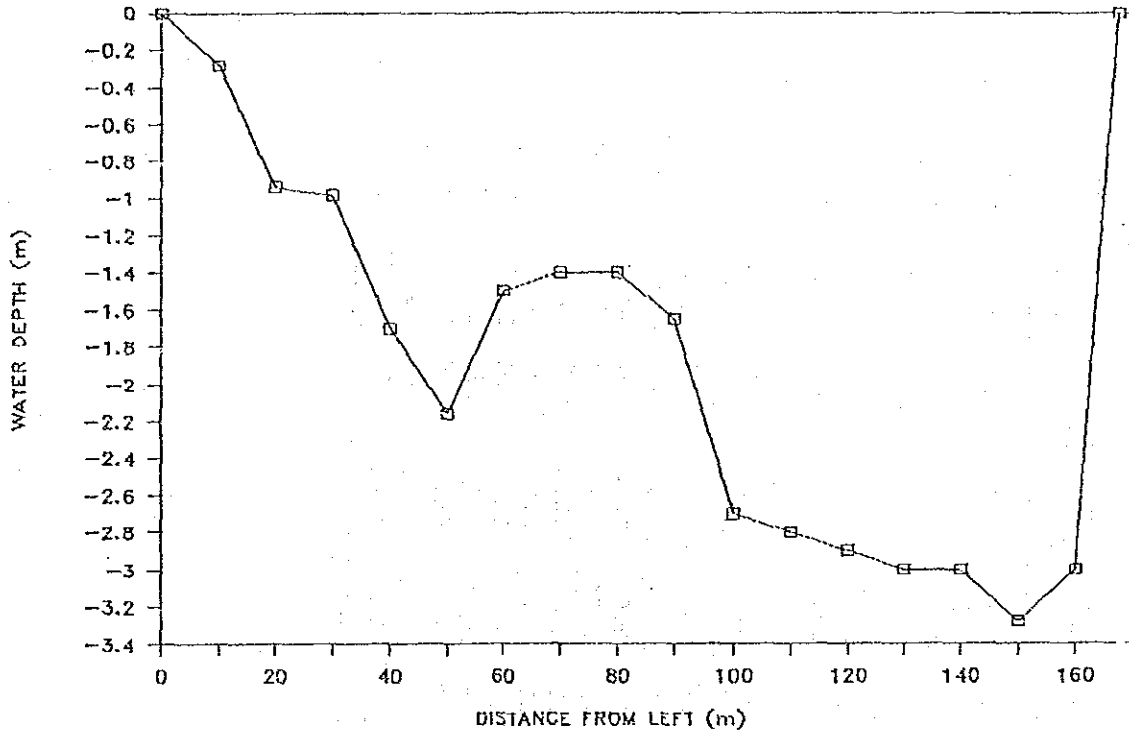
WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-R
WATER DEPTH (m)	2.90	3.00	3.00	3.28	3.00	0.00
SE/WIDTH (m)	10.00	10.00	10.00	10.00	10.00	7.90
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	150.00	160.00	167.90
VELOCITY.2-1(f/s)	0.46	0.47	0.20	0.23	0.14	0.00
VELOCITY.2-2(f/s)	0.48	0.45	0.20	0.20	0.14	0.00
MEAN VEL.2 (f/s)	0.47	0.46	0.20	0.22	0.14	0.00
VELOCITY.8-1(f/s)	0.22	0.20	0.08	0.15	0.07	0.00
VELOCITY.8-2(f/s)	0.26	0.20	0.08	0.12	0.07	0.00
MEAN VEL.8 (f/s)	0.24	0.20	0.08	0.14	0.07	0.00
MEAN VEL (f/s)	0.36	0.33	0.14	0.18	0.11	0.00
MEAN VEL (m/s)	0.11	0.101	0.043	0.053	0.032	0.000
L/MEAN DEPTH (m)	2.875	2.975	3.000	3.210	3.070	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	5.00	-
L/SEC. AREA (m2)	14.38	14.88	15.00	16.05	15.35	-
R/MEAN DEPTH (m)	2.925	3.000	3.070	3.210	1.500	-
R/MEAN WIDTH (m)	5.00	5.00	5.00	5.00	7.90	-
R/SEC. AREA (m2)	14.63	15.00	15.35	16.05	11.85	-
S/AREA (m2)	29.00	29.88	30.35	32.10	27.20	-
TOTAL AREA (m2)	204.2	234.1	264.5	296.6	323.8	-
S/DISCHARGE(m3/s)	3.14	3.00	1.30	1.71	0.87	-
TOTAL DIS. (m3/s)	15.28	18.28	19.58	21.29	22.16	-

WATER LEVEL (f) : 3.67 WATER LEVEL (m) : 1.12
TOTAL DISCHARGE : 22.16 MEAN VELOCITY(m/s) : 0.07

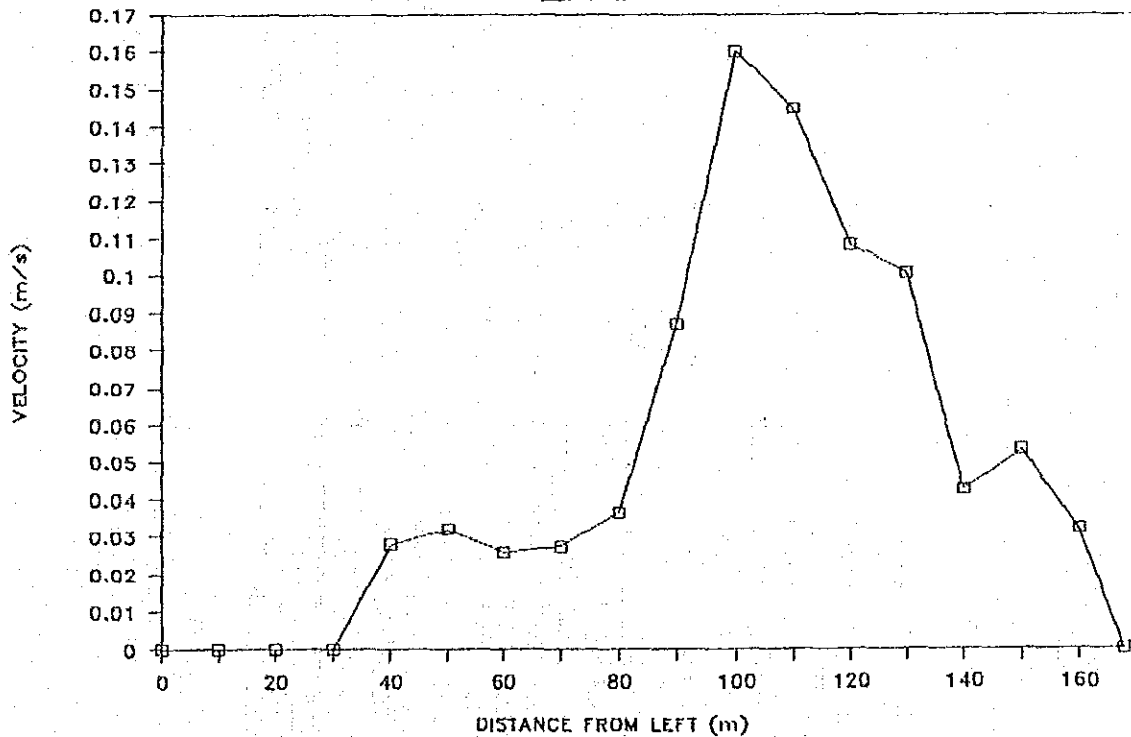
WATER DEPTH (4-350)

22/OCT/91



VELOCITY (4-350)

22/OCT/91



FLOW MEASUREMENT ST. : 4-350 CHILENGA

23/NOV/91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.72	1.23	1.63	1.69	1.19	1.20	1.35	1.89	2.37	2.58	2.82
S/WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL SE/WIDTH(m)	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00
VELOCITY.2-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.11	0.12	0.47	0.58	0.30
VELOCITY.2-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.11	0.12	0.47	0.58	0.30
MEAN VEL.2 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.11	0.12	0.47	0.58	0.30
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.15	0.38	0.45	0.20
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.15	0.38	0.45	0.20
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.15	0.38	0.45	0.20
MEAN VEL (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.10	0.14	0.43	0.52	0.25
MEAN VEL (m/s)	0.00	0.000	0.000	0.000	0.000	0.000	0.038	0.029	0.041	0.130	0.157	0.076
L/MEAN DEPTH (m)	0.000	0.360	1.103	1.530	1.675	1.315	1.198	1.313	1.755	2.250	2.528	2.760
L/MEAN WIDTH (m)	0.00	10.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L/S... AREA (m2)	0.00	3.60	5.51	7.65	8.38	6.58	5.99	6.56	8.78	11.25	12.64	13.80
R/MEAN DEPTH (m)	0.000	0.848	1.330	1.645	1.565	1.193	1.238	1.485	2.010	2.423	2.640	2.885
K/MEAN WIDTH (m)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
R/SEC. AREA (m2)	0.00	4.24	6.65	8.23	7.83	5.96	6.19	7.43	10.05	12.11	13.20	14.43
S/AREA (m2)	0.00	7.84	12.16	15.88	16.20	12.54	12.18	13.99	18.83	23.36	25.84	28.23
TOTAL AREA (m2)	0.0	7.8	20.0	35.9	52.1	64.6	76.8	90.8	109.6	133.0	158.8	187.0
S/DISCHARGE(m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.41	0.77	3.03	4.06	2.15
TOTAL DIS. (m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.87	1.64	4.67	8.73	10.88

WATER LEVEL (f) : - WATER LEVEL (m) : -
 TOTAL DISCHARGE : - MEAN VELOCITY(m/s) : -

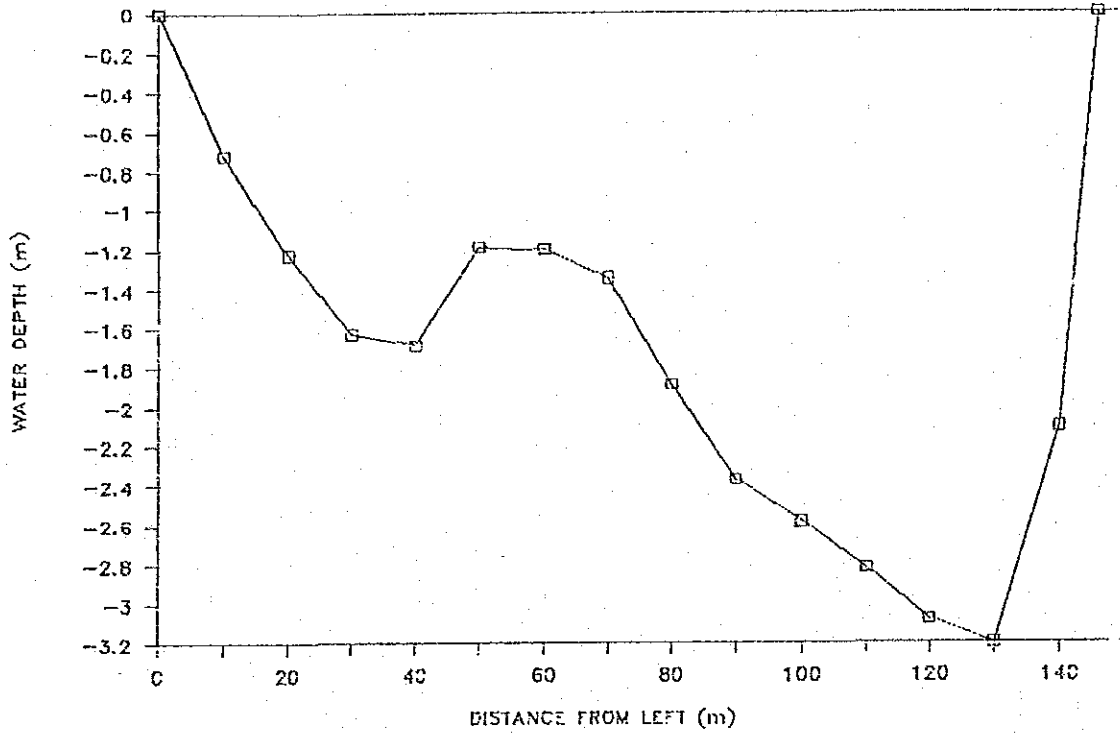
ITEMS NO-12 NO-13 NO-14 NO-R

WATER DEPTH (m)	3.08	3.20	2.10	0.00
SUB. DPTH (m)	10.00	10.00	10.00	6.00
TOTAL SE/WIDTH(m)	120.00	130.00	140.00	146.00
VELOCITY.2-1(f/s)	0.25	0.15	0.11	0.00
VELOCITY.2-2(f/s)	0.25	0.15	0.11	0.00
MEAN VEL.2 (f/s)	0.25	0.15	0.11	0.00
VELOCITY.8-1(f/s)	0.20	0.10	0.09	0.00
VELOCITY.8-2(f/s)	0.20	0.10	0.09	0.00
MEAN VEL.8 (f/s)	0.20	0.10	0.09	0.00
MEAN VEL (f/s)	0.23	0.13	0.10	0.00
MEAN VEL (m/s)	0.07	0.038	0.030	0.000
L/MEAN DEPTH (m)	3.015	3.170	2.375	-
L/MEAN WIDTH (m)	5.00	5.00	5.00	-
L/SEC. AREA (m2)	15.08	15.85	11.88	-
R/MEAN DEPTH (m)	3.110	2.925	1.050	-
R/MEAN WIDTH (m)	5.00	5.00	6.00	-
R/SEC. AREA (m2)	15.55	14.63	6.30	-
S/AREA (m2)	30.63	30.48	18.13	-
TOTAL AREA (m2)	217.7	248.1	266.3	-
S/DISCHARGE (m3/s)	2.10	1.16	0.55	-
TOTAL DIS. (m3/s)	12.98	14.14	14.69	-

WATER LEVEL (f) : 3.67 WATER LEVEL (m) : 1.12
 TOTAL DISCHARGE : 14.69 MEAN VELOCITY(m/s) : 0.06

WATER DEPTH (4-350)

23/NOV/91



VELOCITY (4-350)

23/NOV/91

