

H3 Discharge Measurement

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 23 February 2002 TIME STARTED: 8:18 AM TIME FINISHED: 10:18 AM		GAUGE HT.: 1.36 m GAUGE HT.: 1.36 m				
NAME OF STATION: 8681		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENO, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 4 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0	0	WE(L/B)									
1	2	2	0.50	0.12	0.085	0.36	0.089	0.48	0.000	0.0658	1.20	0.0789
2	4	2	0.70	0.14	0.268	0.42	0.350	0.56	0.423	0.3478	2.45	0.8520
3	6	3	3.20	0.64	0.364	1.92	0.295	2.56	0.173	0.2818	16.00	4.5080
4	12	3	3.91	0.78	0.221	2.35	0.331	3.13	0.257	0.2850	19.55	5.5718
5	18	3	3.90	0.78	0.218	2.34	0.250	3.12	0.298	0.2840	19.50	4.9530
6	24	3	4.90	0.98	0.461	2.94	0.181	3.92	0.101	0.2310	24.50	5.6585
7	29	3	5.70	1.14	0.146	3.42	0.234	4.56	0.372	0.2465	28.50	7.0253
8	34	3	5.50	1.10	0.385	3.30	0.385	4.40	0.909	0.5160	27.50	14.1900
9	39	3	5.00	1.00	0.897	3.00	0.588	4.00	1.135	0.7920	25.00	19.8000
10	44	3	4.40	0.88	1.103	2.64	1.072	3.52	0.812	1.0283	22.00	22.8215
11	49	3	3.80	0.76	1.201	2.28	0.834	3.04	0.812	0.9203	19.00	17.4848
12	54	3	3.40	0.68	0.743	2.04	0.506	2.72	0.472	0.5568	17.00	9.2548
13	59	3	2.60	0.52	0.237	1.56	0.130	2.08	0.090	0.1468	13.00	1.9078
14	64	3	1.25	0.25	0.214	0.75	0.000	1.00	0.097	0.0778	6.25	0.4859
15	69	3	0.40	0.08	0.129	0.24	0.087	0.32	0.072	0.0988	1.50	0.1481
16	71.5	2.5	WE(R/B)									
TOTAL											242.95	114.7512

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 24 February 2002 TIME STARTED: 8:30 AM TIME FINISHED: 9:45 AM		GAUGE HT.: 1.24 m GAUGE HT.: 1.24 m				
NAME OF STATION: 8681		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENO, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 8 D	VEL (mps)			
0	0	0	WE(L/B)									
1	2.5	2.5	0.70	0.14	LR	0.42	LR	0.56	LR	0.0000	1.93	0.0000
2	5.5	3	1.00	0.20	0.410	0.60	0.350	0.80	0.392	0.3680	3.00	1.0400
3	8.5	3	1.30	0.26	0.372	0.78	0.414	1.04	0.402	0.4065	3.90	1.5620
4	11.5	3	3.50	0.70	0.288	2.10	0.207	2.80	0.350	0.2560	10.50	2.7090
5	14.5	3	3.90	0.78	0.180	2.34	0.281	3.12	0.289	0.2528	11.70	2.9572
6	17.5	3	4.00	0.80	0.186	2.40	0.230	3.20	0.466	0.2780	12.00	3.3360
7	20.5	3	4.30	0.86	0.055	2.58	0.229	3.44	0.214	0.1818	12.90	2.3448
8	23.5	3	4.80	0.92	0.088	2.76	0.000	3.68	0.147	0.0588	13.80	0.8108
9	26.5	3	4.70	0.94	0.084	2.82	0.156	3.76	0.127	0.1308	14.10	1.8436
10	29.5	3	5.00	1.00	0.478	3.00	0.305	4.00	0.337	0.3583	15.00	5.3438
11	32.5	3	5.40	1.08	0.392	3.24	0.238	4.32	0.210	0.2695	16.20	4.3659
12	35.5	3	5.20	1.04	0.499	3.12	0.323	4.16	0.799	0.4860	15.60	7.5816
13	38.5	3	4.60	0.92	0.889	2.76	0.648	3.68	0.167	0.5380	13.80	7.4244
14	41.5	3	4.30	0.86	0.892	2.58	1.142	3.44	1.106	1.0710	12.90	13.8159
15	44.5	3	4.40	0.88	1.041	2.64	1.125	3.52	1.251	1.1375	13.20	15.0150
16	47.5	3	3.80	0.76	0.894	2.28	0.775	3.04	0.833	0.8443	11.40	9.6245
17	50.5	3	3.80	0.76	0.972	2.28	0.376	3.04	0.952	0.6890	11.40	7.8266
18	53.5	3	3.40	0.68	0.268	2.04	0.670	2.72	0.251	0.4648	10.20	4.7405
19	56.5	3	3.15	0.63	0.251	1.89	0.223	2.52	0.598	0.3238	9.45	3.0594
20	59.5	3	2.80	0.56	0.089	1.68	0.278	2.24	0.121	0.1870	8.40	1.5708
21	62.5	3	2.20	0.44	0.000	1.32	0.290	1.76	0.108	0.1720	6.60	1.1352
22	65.5	3	1.25	0.25	0.064	0.74	0.403	0.98	0.098	0.2420	3.69	0.8930
23	68.5	3	0.65	0.13		0.30	0.187	0.52		0.0935	1.95	0.1823
24	71.5	3	WE(R/B)									
TOTAL											233.62	99.0458

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 24 February 2002 TIME STARTED: 5:14 PM TIME FINISHED: 6:23 PM		GAUGE HT.: 1.22 m GAUGE HT.: 1.23 m				
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENO, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 6 D	VEL (mps)	NR. 8 D	VEL (mps)			
0	0	0	W/E(L/B)									
1	2.5	2.3	0.58	0.12	UR	0.35	UR	0.45	UR	0.0000	1.80	0.0000
2	5.5	3	1.07	0.21	0.372	0.64	0.311	0.86	0.300	0.3235	3.21	1.0384
3	8.5	3	1.28	0.26	0.357	0.77	0.326	1.02	0.411	0.3550	3.84	1.3632
4	11.5	3	1.23	0.25	0.203	0.74	0.182	0.98	0.188	0.1883	3.69	0.6946
5	14.5	3	3.60	0.76	0.177	2.26	0.197	3.04	0.445	0.2543	11.40	2.8985
6	17.5	3	4.00	0.80	0.052	2.40	0.211	3.20	0.191	0.1663	12.00	1.9950
7	20.5	3	4.20	0.84	0.103	2.52	0.119	3.36	0.083	0.1060	12.60	1.3356
8	23.5	3	4.50	0.90	0.060	2.70	0.062	3.60	0.102	0.0715	13.50	0.9653
9	26.5	3	5.00	1.00	0.207	3.00	0.138	4.00	0.384	0.2158	15.00	3.2513
10	29.5	3	5.50	1.10	0.397	3.30	0.372	4.40	0.439	0.3950	16.50	6.5175
11	32.5	3	5.50	1.10	0.421	3.30	0.227	4.40	0.835	0.3525	16.50	5.8163
12	35.5	3	5.10	1.02	0.178	3.06	0.257	4.08	0.732	0.3560	15.30	5.4468
13	38.5	3	4.60	0.92	0.559	2.76	0.559	3.68	0.599	0.6440	13.80	8.8872
14	41.5	3	4.40	0.88	1.029	2.64	1.055	3.62	0.987	1.0315	13.20	13.6158
15	44.5	3	3.90	0.78	0.256	2.34	0.397	3.12	0.984	0.8085	11.70	9.4595
16	47.5	3	3.60	0.72	0.892	2.16	0.776	2.88	0.932	0.8440	10.80	9.1162
17	50.5	3	3.50	0.70	0.921	2.10	0.896	2.80	0.649	0.8405	10.50	8.8253
18	53.5	3	3.30	0.66	0.367	1.98	0.380	2.64	0.3	0.3568	9.90	3.5318
19	56.5	3	3.00	0.60	0.286	1.80	0.222	2.40	0.287	0.2543	9.00	2.2883
20	59.5	3	2.40	0.48	0.22	1.44	0.053	1.92	0.254	0.1450	7.20	1.0440
21	62.5	3	1.70	0.34	0.304	1.02	0.125	1.36	0.133	0.1718	5.10	0.8759
22	65.5	3	1.00	0.20	0.082	0.60	0.124	0.80	0.049	0.0948	4.00	0.3790
23	70.5	5	W/E(R/B)									
TOTAL											220.34	89.3443

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 26 February 2002 TIME STARTED: 8:50 AM TIME FINISHED: 9:43 AM		GAUGE HT.: 1.28 m GAUGE HT.: 1.29 m				
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENO, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 6 D	VEL (mps)	NR. 8 D	VEL (mps)			
0	0	0	W/E(L/B)									
1	2.1	2.1	0.62	0.12	UR	0.37	UR	0.50	UR	0.0000	1.58	0.0000
2	5.1	3	1.49	0.30	0.401	0.89	0.222	1.19	0.203	0.2620	4.47	1.1711
3	8.1	3	2.20	0.44	0.399	1.32	0.440	1.76	0.206	0.3713	6.60	2.4503
4	11.1	3	2.90	0.58	0.359	1.74	0.307	2.32	0.328	0.3253	8.70	2.8297
5	14.1	3	3.50	0.70	0.413	2.10	0.251	2.80	0.285	0.2950	10.50	3.0875
6	17.1	3	4.20	0.84	0.219	2.52	0.338	3.36	0.401	0.3240	12.60	4.0824
7	20.1	3	4.00	0.80	0.153	2.40	0.069	3.20	0.145	0.1115	12.00	1.3380
8	23.1	3	4.70	0.94	0.115	2.82	0.217	3.75	0.102	0.1828	14.10	2.2948
9	26.1	3	4.90	0.98	0.260	2.94	0.300	3.92	0.512	0.3230	14.70	5.0421
10	29.1	3	5.50	1.10	0.597	3.30	0.151	4.40	0.728	0.4668	16.50	6.7114
11	32.1	3	6.30	1.26	0.358	3.78	0.273	5.04	0.530	0.3585	18.90	6.7757
12	35.1	3	6.00	1.20	1.025	3.60	0.666	4.80	0.295	0.6730	18.00	12.1140
13	38.1	3	5.50	1.10	0.706	3.30	0.589	4.40	0.351	0.5588	16.50	9.2194
14	41.1	3	4.90	0.98	0.639	2.94	0.145	3.92	0.908	0.4593	14.70	6.7510
15	44.1	3	4.50	0.90	0.479	2.70	0.922	3.60	1.442	0.9413	13.50	12.7089
16	47.1	3	4.20	0.84	0.628	2.52	0.858	3.36	1.100	0.8755	12.60	11.0313
17	50.1	3	3.80	0.76	0.482	2.28	0.527	3.04	0.491	0.5068	11.40	5.7770
18	53.1	3	3.50	0.70	0.235	2.10	0.570	2.80	0.568	0.4858	10.50	5.1004
19	56.1	3	3.10	0.62	0.294	1.86	0.193	2.48	0.373	0.2608	9.30	2.4250
20	59.1	3	2.80	0.56	0.208	1.68	0.309	2.24	0.198	0.2555	8.40	2.1462
21	62.1	3	1.70	0.34	0.091	1.02	0.059	1.36	0.111	0.0725	5.10	0.3898
22	65.1	3	1.00	0.20	0.152	0.60	0.122	0.80	0.103	0.1248	3.00	0.3743
23	68.1	3	0.05	0.01	0.054	0.03	0.125	0.04	0.115	0.1048	0.15	0.0153
24	70.7	2.6	W/E(R/B)									
TOTAL											243.80	103.8231

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT				HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 26 February 2002 TIME STARTED: 5:15 PM TIME FINISHED: 6:00 PM		GAUGE HT.: 1.29 m GAUGE HT.: 1.28 m		
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG				CHECKED: RLB		
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0	0	W/E(L/B)									
1	2.2	2.2	0.80	0.12	UR	0.36	UR	0.48	UR	0.0000	1.56	0.0000
2	5.2	3	2.00	0.40	0.343	1.20	0.280	1.60	0.065	0.2420	6.00	1.4520
3	8.2	3	2.40	0.48	0.350	1.44	0.161	1.92	0.068	0.1850	7.20	1.3320
4	11.2	3	3.50	0.70	0.114	2.10	0.133	2.80	0.145	0.1313	10.50	1.3781
5	14.2	3	3.90	0.78	0.316	2.34	0.258	3.12	0.223	0.2838	11.70	3.0859
6	17.2	3	4.00	0.80	0.231	2.40	0.213	3.20	0.204	0.2153	12.00	2.5830
7	20.2	3	4.20	0.84	0.147	2.52	0.129	3.36	0.064	0.1173	12.60	1.4774
8	23.2	3	4.60	0.92	0.221	2.76	0.322	3.68	0.177	0.2805	13.60	3.5949
9	26.2	3	5.10	1.02	0.134	3.06	0.293	4.08	0.242	0.2405	15.30	3.6797
10	29.2	3	5.60	1.12	0.082	3.36	0.066	4.48	0.171	0.0813	16.80	1.5330
11	32.2	3	5.50	1.10	0.088	3.30	0.358	4.40	0.507	0.3263	16.50	5.3831
12	35.2	3	5.60	1.12	0.230	3.36	0.228	4.48	0.427	0.2783	16.80	4.6746
13	38.2	3	4.90	0.98	0.395	2.94	0.441	3.92	0.860	0.5343	14.70	7.8535
14	41.2	3	4.40	0.88	0.547	2.64	0.722	3.52	0.514	0.6263	13.20	8.2685
15	44.2	3	4.40	0.88	0.715	2.64	0.347	3.52	1.137	0.6365	13.20	8.4018
16	47.2	3	3.90	0.78	0.630	2.34	0.598	3.12	0.804	0.6575	11.70	7.6978
17	50.2	3	4.70	0.94	0.480	2.82	0.588	3.76	0.859	0.6288	14.10	8.8854
18	53.2	3	3.40	0.68	0.514	2.04	0.503	2.72	0.553	0.5183	10.20	5.2862
19	56.2	3	3.10	0.62	0.227	1.86	0.205	2.48	0.228	0.2483	9.30	2.0111
20	59.2	3	2.70	0.54	0.185	1.62	0.048	2.16	0.118	0.0988	8.10	0.7989
21	62.2	3	2.10	0.42	0.164	1.26	0.150	1.68	0.081	0.1363	6.30	0.8584
22	65.2	3	1.40	0.28	0.102	0.84	0.149	1.12	0.116	0.1290	4.20	0.5418
23	68.2	3	0.50	0.10	0.168	0.30	0.121	0.40	0.103	0.1283	1.38	0.1763
24	70.7	2.5	W/E(R/B)									
TOTAL											247.14	80.9272

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT				HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 27 February 2002 TIME STARTED: 1:18 PM TIME FINISHED: 2:04 PM		GAUGE HT.: 1.19 m GAUGE HT.: 1.19 m		
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG				CHECKED: RLB		
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0	0	W/E(L/B)									
1	2.5	2.5	0.60	0.12	0.000	0.36	0.000	0.48	0.093	0.0233	1.85	0.0384
2	5.5	3	2.00	0.40	0.287	1.20	0.340	1.60	0.130	0.2768	6.00	1.6605
3	8.5	3	2.40	0.48	0.178	1.44	0.310	1.92	0.241	0.2598	7.20	1.8702
4	11.5	3	3.52	0.70	0.324	2.11	0.253	2.82	0.244	0.2685	10.56	2.8354
5	14.5	3	3.90	0.78	0.150	2.34	0.222	3.12	0.200	0.1985	11.70	2.3225
6	17.5	3	3.80	0.76	0.145	2.28	0.200	3.04	0.278	0.2058	11.40	2.3456
7	20.5	3	4.00	0.80	0.063	2.40	0.184	3.20	0.093	0.1310	12.00	1.5720
8	23.5	3	4.80	0.96	0.141	2.88	0.156	3.84	0.318	0.1928	14.40	2.7756
9	26.5	3	4.90	0.98	0.321	2.94	0.274	3.92	0.067	0.2340	14.70	3.4398
10	29.5	3	5.30	1.06	0.312	3.18	0.276	4.24	0.447	0.3278	15.90	5.2112
11	32.5	3	5.50	1.10	0.185	3.30	0.357	4.40	0.240	0.2773	16.50	4.5746
12	35.5	3	5.70	1.14	0.475	3.42	0.681	4.56	0.851	0.6120	17.10	10.4852
13	38.5	3	5.20	1.04	0.400	3.12	0.610	4.16	0.530	0.5375	15.60	8.3850
14	41.5	3	4.90	0.98	0.622	2.94	0.427	3.92	0.887	0.5908	14.70	8.6840
15	44.5	3	4.50	0.90	0.620	2.70	0.425	3.60	0.823	0.5733	13.50	7.7389
16	47.5	3	4.20	0.84	0.808	2.52	0.722	3.36	0.973	0.8058	12.60	10.1525
17	50.5	3	3.80	0.78	0.725	2.28	0.688	3.04	1.102	0.9008	11.40	10.2686
18	53.5	3	3.40	0.68	0.452	2.04	0.609	2.72	0.308	0.4945	10.20	5.0439
19	56.5	3	3.00	0.60	0.157	1.80	0.533	2.40	0.436	0.4155	9.00	3.7395
20	59.5	3	2.60	0.52	0.161	1.56	0.223	2.08	0.076	0.1708	7.80	1.3519
21	62.5	3	2.00	0.40	0.545	1.20	0.089	1.60	0.109	0.2125	6.00	1.3750
22	65.5	3	1.15	0.23	0.075	0.69	0.140	0.92	0.067	0.1105	3.45	0.3812
23	68.5	3	0.65	0.13	0.105	0.39	0	0.52	0.147	0.0830	2.11	0.1331
24	72	3.5	W/E(R/B)									
TOTAL											245.47	96.2443

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 07 March 2002 TIME STARTED: 14:17 PM TIME FINISHED: 14:57 PM		GAUGE HT.: 1.57 m GAUGE HT.: 1.57 m			
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agoa River				COMPUTED BY: DVG			CHECKED: RLB			
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 8 D	VEL (mps)			
0	0	0	WE(L/B)									
1	2.5	2.5	0.85	0.17	0.281	0.51	0.260	0.68	0.072	0.2183	2.34	0.5102
2	5.5	3	2.40	0.48	0.506	1.44	0.464	1.92	0.126	0.3898	7.20	2.8062
3	8.5	3	3.40	0.68	0.623	2.04	0.385	2.72	0.418	0.4290	10.20	4.3758
4	11.5	3	4.10	0.82	0.444	2.46	0.331	3.28	0.321	0.3568	12.30	4.3880
5	14.5	3	4.20	0.84	0.481	2.52	0.171	3.36	0.176	0.2498	12.60	3.1469
6	17.5	3	4.50	0.90	0.274	2.70	0.362	3.60	0.102	0.2750	13.50	3.7125
7	20.5	3	4.80	0.96	0.313	2.88	0.093	3.84	0.247	0.1876	14.40	2.7000
8	23.5	3	5.30	1.06	0.145	3.18	0.150	4.24	0.242	0.1718	15.90	2.7308
9	26.5	3	5.60	1.12	0.053	3.36	0.261	4.48	0.389	0.2410	16.80	4.0488
10	29.5	3	5.40	1.08	0.469	3.24	0.664	4.32	0.681	0.6195	16.20	10.0359
11	32.5	3	6.40	1.28	0.386	3.84	0.361	5.12	0.658	0.4415	19.20	8.4768
12	35.5	3	6.40	1.28	1.096	3.84	0.777	5.12	0.783	0.8583	19.20	16.4784
13	38.5	3	5.70	1.14	0.631	3.42	0.818	4.56	0.985	0.8130	17.10	13.9023
14	41.5	3	5.50	1.10	1.689	3.30	1.105	4.40	1.092	1.2428	16.50	20.5054
15	44.5	3	4.90	0.98	1.033	2.94	0.880	3.92	1.238	1.0078	14.70	14.8139
16	47.5	3	4.30	0.86	0.978	2.58	1.402	3.44	1.087	1.2173	12.90	15.7025
17	50.5	3	4.00	0.80	0.370	2.40	0.823	3.20	0.768	0.5435	12.00	6.5220
18	53.5	3	3.60	0.72	0.280	2.16	0.680	2.88	0.615	0.5638	10.80	6.0865
19	56.5	3	3.60	0.72	0.282	2.16	0.062	2.88	0.238	0.1535	10.80	1.6578
20	59.5	3	2.90	0.58	0.095	1.74	0.074	2.32	0.103	0.0865	8.70	0.7526
21	62.5	3	2.20	0.44	0.316	1.32	0.050	1.76	0.236	0.1630	6.60	1.0758
22	65.5	3	1.30	0.26	0.000	0.78	0.275	1.04	0.188	0.1845	3.90	0.7196
23	68.5	3	0.70	0.14	0.255	0.42	0.196	0.56	0.127	0.1935	2.10	0.4064
24	71.5	3	0.20		UR		UR		UR	0.0000	0.65	
25	75	3.5	WE(R/B)									
TOTAL											276.59	145.5569

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 10 March 2002 TIME STARTED: 11:50 AM TIME FINISHED: 12:45 NN		GAUGE HT.: 1.24 m GAUGE HT.: 1.24 m			
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agoa River				COMPUTED BY: DVG			CHECKED: RLB			
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 8 D	VEL (mps)			
0	0	0	WE(L/B)									
1	2.4	2.4	0.68	0.13	UR	0.39	UR	0.52	UR	0.0000	1.76	0.0000
2	5.4	3	1.65	0.33	0.177	0.99	0.378	1.32	0.149	0.2705	4.95	1.3390
3	8.4	3	1.45	0.29	0.426	0.87	0.218	1.16	0.162	0.2560	4.35	1.1136
4	11.4	3	3.20	0.64	0.239	1.92	0.428	2.56	0.390	0.3713	9.60	3.5640
5	14.4	3	3.82	0.76	0.294	2.29	0.236	3.06	0.323	0.2723	11.46	3.1200
6	17.4	3	4.00	0.80	0.157	2.40	0.414	3.20	0.113	0.2745	12.00	3.2940
7	20.4	3	4.50	0.90	0.230	2.70	0.173	3.60	0.205	0.1953	13.50	2.6359
8	23.4	3	4.70	0.94	0.110	2.82	0.198	3.76	0.124	0.1575	14.10	2.2208
9	26.4	3	4.80	0.96	0.199	2.88	0.285	3.84	0.327	0.2740	14.40	3.9456
10	29.4	3	6.10	1.22	0.470	3.66	0.558	4.88	0.452	0.8095	18.30	9.3239
11	32.4	3	6.00	1.20	0.228	3.80	0.161	4.80	0.753	0.3258	18.00	6.8635
12	35.4	3	5.80	1.16	0.137	3.48	0.600	4.64	0.739	0.5190	17.40	9.0306
13	38.4	3	5.60	1.12	0.732	3.36	0.698	4.48	0.399	0.6318	16.80	10.6134
14	41.4	3	5.00	1.00	0.588	3.00	0.672	4.00	0.773	0.6763	15.00	10.1438
15	44.4	3	4.30	0.86	1.117	2.58	1.078	3.44	1.125	1.0995	12.90	14.1836
16	47.4	3	4.00	0.80	0.447	2.40	1.073	3.20	0.669	0.8155	12.00	9.7860
17	50.4	3	3.70	0.74	0.843	2.22	0.964	2.96	0.648	0.8548	11.10	9.4877
18	53.4	3	3.60	0.72	0.428	2.16	0.36	2.88	0.369	0.3778	10.80	4.0797
19	56.4	3	3.20	0.64	0.322	1.92	0.211	2.56	0.164	0.2270	9.60	2.1792
20	59.4	3	2.50	0.50	0.514	1.50	0.446	2.00	0.511	0.4793	7.50	3.6944
21	62.4	3	2.30	0.46	0.151	1.38	0.069	1.84	0.133	0.1155	6.90	0.7970
22	65.4	3	1.02	0.20	0.104	0.61	0.083	0.82	0.142	0.1040	3.06	0.3182
23	68.4	3	0.58	0.11	0	0.33	0	0.44	0.083	0.0208	1.65	0.0342
24	71.4	3	WE(R/B)									
TOTAL											247.13	110.6679

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 16 March 2002 TIME STARTED: 9:20 AM TIME FINISHED: 10:07 AM		GAUGE HT.: 1.37 m GAUGE HT.: 1.37 m			
NAME OF STATION: SSG1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG			CHECKED: RLB			
HYDROGRAPHIC TEAM: D.V.G. ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 3 D	VEL (mps)	NR. 4 D	VEL (mps)			
0	0	0	WE(LB)									
1	3	3	0.50	0.10	0.078	0.30	0.125	0.40	0.203	0.1328	1.50	0.1991
2	6	3	2.15	0.43	0.488	1.29	0.495	1.72	0.136	0.4035	6.45	2.6026
3	9	3	2.40	0.48	0.350	1.44	0.515	1.92	0.095	0.3688	7.20	2.6550
4	12	3	3.50	0.70	0.221	2.10	0.24	2.60	0.335	0.2593	10.50	2.7221
5	15	3	4.00	0.80	0.200	2.40	0.301	3.20	0.443	0.3113	12.00	3.7350
6	18	3	4.10	0.82	0.700	2.46	0.167	3.28	0.247	0.1803	12.30	2.2171
7	21	3	4.30	0.85	0.175	2.58	0.214	3.44	0.103	0.1765	12.90	2.2767
8	24	3	4.60	0.92	0.139	2.76	0.15	3.68	0.153	0.1480	13.80	2.0423
9	27	3	5.10	1.02	0.201	3.06	0.173	4.08	0.187	0.1880	15.30	2.8458
10	30	3	5.60	1.12	0.300	3.36	0.155	4.48	0.344	0.2385	16.80	4.0068
11	33	3	5.80	1.16	0.389	3.48	0.202	4.64	0.331	0.2810	17.40	4.8894
12	36	3	5.50	1.10	0.693	3.30	0.503	4.40	0.480	0.5448	16.50	8.9884
13	39	3	5.10	1.02	0.944	3.06	0.826	4.08	0.378	0.7435	15.30	11.3756
14	42	3	4.70	0.94	1.350	2.82	1.066	3.78	1.117	1.1585	14.10	16.3349
15	45	3	4.30	0.86	1.269	2.58	1.105	3.44	0.987	1.1165	12.90	14.4029
16	48	3	4.10	0.82	1.005	2.46	1.179	3.28	0.757	1.0300	12.30	12.6890
17	51	3	3.90	0.78	0.625	2.34	0.863	3.12	0.85	0.7903	11.70	9.2459
18	54	3	3.50	0.70	0.427	2.10	0.5	2.80	0.238	0.4518	10.50	4.7434
19	57	3	3.20	0.64	0.378	1.92	0.388	2.56	0.182	0.3365	9.60	3.2307
20	60	3	2.80	0.58	0.129	1.68	0.533	2.24	0.151	0.3395	8.40	2.8518
21	63	3	1.90	0.38	0.188	1.14	0.110	1.52	0.122	0.1370	5.70	0.7803
22	66	3	1.35	0.27	0.08	0.81	0.074	1.08	0.114	0.0855	4.05	0.3463
23	69	3	0.50	0.10	0.088	0.30	0.055	0.40	0.158	0.0893	1.45	0.1294
24	71.8	2.8	WE(RB)									
TOTAL											248.65	115.2909

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 16 March 2002 TIME STARTED: 14:43 PM TIME FINISHED: 15:28 PM		GAUGE HT.: 1.23 m GAUGE HT.: 1.22 m			
NAME OF STATION: SSG1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG			CHECKED: RLB			
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 3 D	VEL (mps)	NR. 4 D	VEL (mps)			
0	0	0	WE(LB)									
1	2.2	2.2	0.60	0.12	0.000	0.36	0.000	0.48	0.051	0.0153	1.56	0.0238
2	5.2	3	1.30	0.26	0.355	0.78	0.408	1.04	0.222	0.3483	3.90	1.3582
3	8.2	3	2.40	0.48	0.440	1.44	0.338	1.92	0.288	0.3510	7.20	2.5272
4	11.2	3	3.50	0.70	0.319	2.10	0.315	2.80	0.311	0.3150	10.50	3.3075
5	14.2	3	3.80	0.76	0.196	2.28	0.227	3.04	0.291	0.3353	11.40	2.6819
6	17.2	3	4.00	0.80	0.128	2.40	0.281	3.20	0.158	0.2123	12.00	2.5470
7	20.2	3	4.00	0.80	0.165	2.40	0.063	3.20	0.236	0.1293	12.00	1.5510
8	23.2	3	4.50	0.90	0.138	2.70	0.159	3.60	0.127	0.1453	13.50	1.9609
9	26.2	3	5.00	1.00	0.283	3.00	0.274	4.00	0.476	0.3268	15.00	4.9013
10	29.2	3	5.50	1.10	0.214	3.30	0.417	4.40	0.277	0.3313	16.50	5.4856
11	32.2	3	5.80	1.16	0.500	3.48	0.413	4.64	0.454	0.4350	17.40	7.7430
12	35.2	3	5.60	1.12	0.385	3.36	0.262	4.48	0.460	0.3333	16.80	5.6994
13	38.2	3	4.80	0.96	0.915	2.88	0.562	3.84	0.790	0.7073	14.40	10.1847
14	41.2	3	4.60	0.92	1.085	2.76	0.871	3.68	0.428	0.8133	13.80	11.2229
15	44.2	3	4.20	0.84	0.804	2.52	0.908	3.36	0.758	0.8440	12.90	10.6344
16	47.2	3	4.30	0.86	0.986	2.58	1.118	3.44	0.68	0.9745	12.90	12.5840
17	50.2	3	3.60	0.72	0.748	2.16	0.945	2.88	0.454	0.7225	10.80	7.8030
18	53.2	3	3.50	0.70	0.551	2.10	0.590	2.80	0.559	0.5725	10.50	6.0113
19	56.2	3	3.20	0.64	0.208	1.92	0.210	2.56	0.285	0.2278	9.60	2.1864
20	58.2	3	2.60	0.52	0.119	1.56	0.124	2.08	0.198	0.1415	7.80	1.1037
21	62.2	3	1.90	0.38	0.083	1.14	0.105	1.52	0.149	0.1060	5.70	0.8042
22	65.2	3	1.15	0.23	0.106	0.68	0.124	0.92	0.112	0.1185	3.45	0.4088
23	68.2	3	0.62	0.12	0.052	0.37	0.083	0.50	0.135	0.0908	1.77	0.1804
24	70.9	2.7	WE(RB)									
TOTAL											241.08	102.6700

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 17 March 2002 TIME STARTED: 11:13 AM TIME FINISHED: 11:30 AM		GAUGE HT.: 1.16 m GAUGE HT.: 1.16 m				
NAME OF STATION: 66S1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENO, JERRY					REMARKS:							
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 3 D	VEL (mps)	NR. 4 D	VEL (mps)			
0	0	0	WE(L/B)									
1	2.1	2.1	0.55	0.11	UR	0.33	UR	0.44	UR	0.0000	1.20	0.0000
2	5.1	3	1.45	0.29	0.342	0.87	0.296	1.16	0.296	0.3075	4.35	1.3375
3	8.1	3	1.95	0.39	0.412	1.17	0.315	1.56	0.268	0.3325	5.85	1.9451
4	11.1	3	3.30	0.66	0.242	1.98	0.358	2.64	0.227	0.2963	9.90	2.9329
5	14.1	3	3.90	0.78	0.213	2.28	0.285	3.04	0.335	0.2795	11.40	3.1863
6	17.1	3	3.90	0.78	0.137	2.34	0.315	3.12	0.228	0.2488	11.70	2.9104
7	20.1	3	4.50	0.90	0.146	2.70	0.165	3.60	0.217	0.1683	13.50	2.2714
8	23.1	3	5.10	1.02	0.159	3.06	0.122	4.08	0.091	0.1235	15.30	1.8896
9	26.1	3	5.30	1.08	0.167	3.18	0.138	4.24	0.088	0.1328	15.90	2.1107
10	29.1	3	5.40	1.05	0.511	3.24	0.276	4.32	0.235	0.3255	16.20	5.2731
11	32.1	3	5.50	1.10	0.218	3.30	0.421	4.40	0.509	0.3923	16.50	6.4721
12	35.1	3	5.50	1.10	0.426	3.30	0.585	4.40	0.352	0.4870	16.50	8.0355
13	38.1	3	4.70	0.94	0.449	2.82	0.954	3.76	0.725	0.7705	14.10	10.8641
14	41.1	3	4.40	0.88	0.883	2.84	0.890	3.52	0.348	0.7528	13.20	9.9383
15	44.1	3	4.20	0.84	0.82	2.52	0.754	3.36	0.898	0.8065	12.60	10.1619
16	47.1	3	4.00	0.80	0.591	2.40	0.625	3.20	0.804	0.8613	12.00	7.9350
17	50.1	3	3.50	0.70	0.612	2.10	0.633	2.80	0.565	0.8110	10.50	6.4155
18	53.1	3	3.20	0.64	0.247	1.92	0.689	2.56	0.378	0.5008	9.60	4.8072
19	56.1	3	2.80	0.56	0.481	1.68	0.342	2.24	0.581	0.4365	8.40	3.6668
20	59.1	3	2.50	0.50	0.071	1.50	0.142	2.00	0.221	0.2440	7.50	1.8300
21	62.1	3	1.50	0.30	0.301	0.90	0.126	1.20	0.085	0.1595	4.50	0.7178
22	65.1	3	0.80	0.16	0.095	0.48	0.112	0.64	0.075	0.0985	2.40	0.2364
23	68.1	3	0.18	0.04	UR	0.11	UR	0.15	UR	0.0000	0.36	0.0000
24	68.9	0.8	WE(R/B)									
TOTAL											233.66	94.9354

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 22 March 2002 TIME STARTED: 14:24 PM TIME FINISHED: 15:03 PM		GAUGE HT.: 0.90 m GAUGE HT.: 0.96 m				
NAME OF STATION: 66S1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENO, JERRY					REMARKS:							
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 3 D	VEL (mps)	NR. 4 D	VEL (mps)			
0	0	0	WE(L/B)									
1	2.5	2.5	0.75	0.15	0.080	0.45	0.078	0.60	0.124	0.0900	2.06	0.1856
2	5.5	3	1.45	0.29	0.152	0.87	0.220	1.16	0.054	0.1715	4.35	0.7460
3	8.5	3	3.00	0.60	0.114	1.80	0.316	2.40	0.137	0.2208	9.00	1.9888
4	11.5	3	3.30	0.66	0.213	1.98	0.116	2.64	0.149	0.1485	9.90	1.4702
5	14.5	3	3.70	0.74	0.147	2.22	0.100	2.96	0.172	0.1298	11.10	1.4302
6	17.5	3	4.00	0.80	0.102	2.40	0.128	3.20	0.132	0.1225	12.00	1.4760
7	20.5	3	4.70	0.94	0.127	2.82	0.252	3.76	0.151	0.1955	14.10	2.7566
8	23.5	3	4.50	0.90	0.149	2.70	0.118	3.60	0.148	0.1333	13.50	1.7989
9	26.5	3	5.20	1.04	0.114	3.12	0.072	4.16	0.072	0.0825	15.60	1.2870
10	29.5	3	5.60	1.12	0.215	3.36	0.096	4.48	0.101	0.1270	16.80	2.1338
11	32.5	3	5.60	1.12	0.076	3.25	0.221	4.48	0.316	0.2085	16.80	3.5028
12	35.5	3	5.40	1.08	0.140	3.24	0.241	4.32	0.288	0.2276	16.20	3.6774
13	38.5	3	4.70	0.94	0.341	2.82	0.235	3.76	0.171	0.2455	14.10	3.4616
14	41.5	3	4.00	0.80	0.521	2.40	0.207	3.20	0.337	0.3430	12.00	4.1160
15	44.5	3	3.80	0.76	0.586	2.28	0.690	3.04	0.593	0.6548	11.40	7.5782
16	47.5	3	3.70	0.74	0.903	2.22	0.892	2.96	0.537	0.8060	11.10	8.9468
17	50.5	3	3.50	0.70	0.951	2.10	0.403	2.80	0.501	0.5395	10.50	5.6628
18	53.5	3	2.80	0.56	0.862	1.68	0.818	2.24	0.52	0.7545	8.40	6.3378
19	56.5	3	2.80	0.52	0.375	1.56	0.696	2.08	0.464	0.5078	7.80	3.9605
20	59.5	3	1.70	0.34	0.366	1.02	0.602	1.36	0.463	0.5133	5.10	2.6176
21	62.5	3	0.99	0.20	0.249	0.59	0.214	0.79	0.071	0.1870	2.97	0.5554
22	65.5	3	0.40	0.08	0.111	0.24	0.120	0.32	0.087	0.1095	1.00	0.1095
23	67.5	2	WE(R/B)									
TOTAL											225.78	85.8028

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 23 March 2002 TIME STARTED: 10:11 PM TIME FINISHED: 10:35 PM		GAUGE HT.: 0.88 m GAUGE HT.: 0.91 m				
NAME OF STATION: SGB1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 3 D	VEL (mps)	NR. 5 D	VEL (mps)			
0	0	0	WE(L/B)									
1	2.6	2.6	0.45	0.09	0.070	0.27	0.095	0.36	0.148	0.1020	1.71	0.1744
2	7.6	5	3.00	0.60	0.122	1.80	0.148	2.40	0.088	0.1265	15.00	1.8975
3	12.6	5	3.50	0.70	0.156	2.10	0.065	2.80	0.138	0.1060	17.50	1.8550
4	17.6	5	3.90	0.76	0.118	2.34	0.084	3.12	0.100	0.0965	19.50	1.8818
5	22.6	5	4.70	0.94	0.147	2.82	0.176	3.76	0.073	0.1430	23.50	3.3605
6	27.6	5	5.40	1.08	0.071	3.24	0.054	4.32	0.114	0.0783	27.00	2.1128
7	32.6	5	5.30	1.06	0.144	3.18	0.134	4.24	0.052	0.1160	26.50	3.0740
8	37.6	5	4.60	0.92	0.297	2.76	0.329	3.68	0.186	0.2853	23.00	6.5808
9	42.6	5	4.10	0.82	0.553	2.46	0.310	3.28	0.233	0.6015	20.50	12.3308
10	47.6	5	3.60	0.72	0.765	2.16	0.115	2.88	0.586	0.3955	18.00	7.1181
11	52.6	5	3.00	0.60	0.883	1.80	0.883	2.40	0.142	0.6978	15.00	10.4663
12	57.6	5	2.40	0.48	0.524	1.44	0.391	1.92	0.373	0.4198	12.00	5.0370
13	62.6	5	1.05	0.21	0.265	0.83	0.199	0.84	0.361	0.2568	5.08	1.3075
14	67.3	4.7	WE(R/B)									
										TOTAL	224.30	57.1763

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 24 March 2002 TIME STARTED: 9:18 AM TIME FINISHED: 9:45 AM		GAUGE HT.: 1.44 m GAUGE HT.: 1.41 m				
NAME OF STATION: B061		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 3 D	VEL (mps)	NR. 5 D	VEL (mps)			
0	0	0	WE(L/B)									
1	3	3	0.60	0.12	0.222	0.36	0.091	0.48	0.088	0.1230	1.80	0.2214
2	6	3	2.20	0.44	0.815	1.32	0.572	1.76	0.126	0.4713	6.80	3.1103
3	9	3	3.30	0.66	0.383	1.98	0.366	2.64	0.098	0.3183	9.90	3.1507
4	12	3	3.60	0.72	0.113	2.16	0.293	2.88	0.355	0.2635	10.80	2.8458
5	15	3	4.10	0.82	0.163	2.46	0.233	3.28	0.254	0.2208	12.30	2.7152
6	18	3	4.00	0.80	0.213	2.40	0.168	3.20	0.183	0.1830	12.00	2.1960
7	21	3	4.30	0.86	0.207	2.58	0.186	3.44	0.145	0.1710	12.90	2.2059
8	24	3	4.80	0.96	0.316	2.88	0.134	3.84	0.136	0.1800	14.40	2.5920
9	27	3	5.20	1.04	0.298	3.12	0.116	4.16	0.494	0.2560	15.60	3.9936
10	30	3	5.80	1.16	0.297	3.48	0.483	4.64	0.322	0.3983	17.40	6.8948
11	33	3	6.10	1.22	0.435	3.68	0.601	4.88	0.449	0.5210	18.30	9.5343
12	36	3	6.00	1.20	0.694	3.60	0.897	4.80	1.033	0.8753	18.00	15.7545
13	39	3	5.70	1.14	0.437	3.42	0.944	4.56	0.984	0.8273	17.10	14.7480
14	42	3	5.50	1.10	1.292	3.30	0.730	4.40	0.645	0.8493	16.50	14.0126
15	45	3	5.30	1.06	1.403	3.18	1.130	4.24	0.834	1.1243	15.90	17.8756
16	48	3	5.30	1.06	1.306	3.18	0.336	4.24	0.813	0.6888	15.90	11.1011
17	51	3	4.30	0.86	0.466	2.58	0.797	3.44	0.738	0.5845	12.90	7.5401
18	54	3	3.50	0.70	0.483	2.10	0.194	2.80	0.26	0.2778	10.50	2.9164
19	57	3	3.40	0.68	0.255	2.04	0.246	2.72	0.118	0.2163	10.20	2.2058
20	60	3	2.80	0.56	0.214	1.68	0.069	2.24	0.092	0.1210	8.40	1.0164
21	63	3	1.80	0.36	0.166	1.08	0.082	1.44	0.066	0.0690	5.40	0.5346
22	66	3	1.10	0.22	0.108	0.66	0.253	0.88	0.109	0.1808	3.30	0.5965
23	69	3	0.60	0.12	0.113	0.36	0.181	0.48	0.218	0.1728	1.92	0.3317
24	72.4	3.4	WE(R/B)									
										TOTAL	268.02	127.5000

Submitted by: KEIYO CONSTRUCTION

NAME OF STATION: 6551		OBSERVATION POINT / LOCATION: Ages Phsr				COMPUTED BY: DVG				CHECKED: MLD	
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY											
REMARKS:											
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL				MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE	
				NR. 2 D	VEL (mps)	NR. 6 D	VEL (mps)				NR. 8 D
0	0	0	0	WE(L/B)							
1	2.5	3.1	0.80	0.12	0.042	0.46	0.074	0.49	0.021	0.054	
2	5.1	3	1.50	0.38	0.111	0.90	0.053	1.20	0.027	0.080	
3	7.6	3	2.50	0.55	0.171	1.74	0.042	2.32	0.077	0.201	
4	10.1	3	3.00	0.62	0.182	1.75	0.100	2.48	0.120	0.295	
5	12.6	3	2.60	0.72	0.177	2.16	0.084	2.88	0.137	0.340	
6	15.1	3	4.00	0.65	0.095	2.55	0.095	3.44	0.222	0.578	
7	17.6	3	4.70	0.84	0.084	3.82	0.040	4.78	0.080	0.212	
8	20.1	3	4.50	0.80	0.092	2.70	0.041	3.60	0.110	0.288	
9	22.6	3	5.00	1.00	0.027	3.06	0.080	4.00	0.045	0.125	
10	25.1	3	5.00	1.10	0.017	3.30	0.070	4.30	0.060	0.160	
11	27.6	3	6.00	0.98	0.021	3.80	0.061	4.80	0.122	0.300	
12	30.1	3	4.00	0.90	0.022	2.70	0.227	3.60	0.000	0.000	
13	32.6	3	4.00	0.22	0.117	2.46	0.090	3.20	0.100	0.250	
14	35.1	3	3.50	0.20	0.222	2.28	0.200	3.00	0.000	0.000	
15	37.6	3	3.50	0.40	0.222	2.70	0.470	2.90	0.230	0.570	
16	40.1	3	2.50	0.14	0.222	1.52	0.390	2.60	0.450	1.150	
17	42.6	3	2.50	0.35	0.630	1.33	0.630	2.30	0.450	1.050	
18	45.1	3	2.00	0.52	0.222	1.56	0.550	2.00	0.310	0.750	
19	47.6	3	3.10	0.41	0.222	1.35	0.480	1.80	0.320	0.840	
20	50.1	3	1.50	0.27	0.071	0.81	0.187	1.00	0.130	0.330	
21	52.6	3	0.80	0.12	0.000	0.36	0.036	0.40	0.040	0.144	
22	55.1	3	0.80	0.12	0.000	0.36	0.036	0.40	0.040	0.144	
23	57.6	3	1.00	0.20	0.220	0.60	0.149	0.80	0.050	0.160	
24	60.1	3	1.50	0.27	0.071	0.81	0.187	1.00	0.130	0.330	
25	62.6	3	2.00	0.40	0.220	1.20	0.228	1.60	0.350	0.960	
26	65.1	3	0.30	0.06	0.127	0.18	0.118	0.24	0.150	0.360	
27	67.6	2.2	WE(R/B)								
TOTAL									210.2	3511.0	

Submitted by: KEIYO CONSTRUCTION

NAME OF STATION: 6551		OBSERVATION POINT / LOCATION: Ages Phsr				COMPUTED BY: DVG				CHECKED: RLB	
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY											
REMARKS:											
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL				MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE	
				NR. 2 D	VEL (mps)	NR. 6 D	VEL (mps)				NR. 8 D
0	0	0	0	WE(L/B)							
1	2.5	2.5	0.80	0.16	0.146	0.48	0.097	0.64	0.1285	2.20	
2	5.1	3	1.50	0.36	0.205	0.90	0.202	1.20	0.1910	4.80	
3	7.6	3	2.20	0.44	0.220	1.32	0.141	1.76	0.1011	6.60	
4	10.1	3	3.03	0.61	0.139	1.82	0.226	2.42	0.145	9.09	
5	12.6	3	3.70	0.74	0.218	2.22	0.212	2.96	0.193	11.10	
6	15.1	3	4.00	0.80	0.159	2.40	0.160	3.20	0.282	12.00	
7	17.6	3	4.05	0.81	0.149	2.43	0.182	3.24	0.051	12.15	
8	20.1	3	4.10	0.82	0.231	2.46	0.096	3.28	0.000	12.30	
9	22.6	3	4.50	0.90	0.303	2.70	0.198	3.60	0.201	13.00	
10	25.1	3	5.50	1.10	0.032	3.30	0.356	4.40	0.176	15.50	
11	27.6	3	5.10	1.02	0.243	3.06	0.313	4.08	0.311	16.50	
12	30.1	3	4.90	0.98	0.641	2.94	0.732	3.92	0.231	15.30	
13	32.6	3	4.10	0.82	0.229	2.46	0.496	3.38	0.179	12.30	
14	35.1	3	3.90	0.78	0.769	2.34	0.559	3.12	0.340	11.70	
15	37.6	3	3.70	0.74	0.754	2.22	0.713	2.96	0.203	11.10	
16	40.1	3	3.20	0.64	0.755	1.92	0.706	2.56	0.544	9.60	
17	42.6	3	2.90	0.58	0.734	1.74	0.603	2.32	0.513	8.70	
18	45.1	3	2.90	0.58	0.666	1.74	0.661	2.32	0.479	8.70	
19	47.6	3	2.50	0.50	0.543	1.50	0.256	2.00	0.074	7.50	
20	50.1	3	2.00	0.40	0.427	1.20	0.428	1.60	0.352	6.00	
21	52.6	3	1.00	0.20	0.220	0.60	0.149	0.80	0.050	3.00	
22	55.1	3	0.30	0.06	0.127	0.18	0.118	0.24	0.150	0.360	
23	57.6	2.2	WE(R/B)								
TOTAL									209.32	70.4301	

Submitted by: KEIYO CONSTRUCTION

CROSS-SECTION MEASUREMENT		WATER RESOURCES INVESTIGATION REPORT				DATE: 06 May 2002				
NAME OF STATION: S654		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB		
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY		REMARKS:				TIME STARTED: 12:55 AM		GAUGE HT.: 0.65 m		
						TIME FINISHED: 12:40 PM				
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL				MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 5 D	VEL (mps)			
0	0	0	W/E(L/B)							
1	2.5	2.5	0.60	0.12	UR	0.36	UR	0.48	UR	0.0000
2	5.5	3	1.60	0.32	0.135	0.96	0.179	1.28	UR	0.1570
3	8.5	3	2.30	0.46	0.110	1.38	0.083	1.84	0.116	0.0960
4	11.5	3	3.00	0.60	0.195	1.80	0.172	2.40	0.104	0.1668
5	14.5	3	3.10	0.62	0.154	1.86	0.177	2.48	0.133	0.1578
6	17.5	3	3.90	0.78	0.113	2.34	0.163	3.12	0.170	0.1523
7	20.5	3	3.90	0.78	0.265	2.34	0.136	3.12	0.183	0.1858
8	23.5	3	4.80	0.96	0.071	2.88	0.042	3.84	0.116	0.0678
9	26.5	3	5.00	1.00	0.123	3.00	0.040	4.00	0.140	0.0658
10	29.5	3	5.00	1.00	0.113	3.00	0.110	4.00	0.259	0.1480
11	32.5	3	5.10	1.02	0.127	3.06	0.093	4.08	0.200	0.1283
12	35.5	3	4.60	0.92	0.191	2.76	0.076	3.68	0.113	0.1140
13	38.5	3	4.20	0.84	0.327	2.52	0.312	3.36	0.117	0.2670
14	41.5	3	3.90	0.78	0.403	2.34	0.317	3.12	0.114	0.2878
15	44.5	3	3.50	0.70	0.544	2.10	0.628	2.80	0.542	0.5840
16	47.5	3	3.10	0.52	0.681	1.86	0.633	2.48	0.572	0.6298
17	50.5	3	3.00	0.60	0.902	1.80	0.649	2.40	0.253	0.6133
18	53.5	3	2.70	0.54	0.765	1.62	0.827	2.16	0.591	0.7523
19	56.5	3	2.50	0.50	0.545	1.50	0.638	2.00	0.603	0.6060
20	59.5	3	1.80	0.36	0.255	1.08	0.147	1.44	0.181	0.1825
21	62.5	3	1.00	0.20	0.212	0.60	0.048	0.80	0.107	0.1038
22	65.5	3	0.2	0.04	UR	0.12	UR	0.16	0.049	0.0490
23	67.5	2	W/E(R/B)							
TOTAL									205.15	52.5158

Submitted by: KEIYO CONSTRUCTION

CROSS-SECTION MEASUREMENT		WATER RESOURCES INVESTIGATION REPORT				DATE: 06 May 2002				
NAME OF STATION: S651		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB		
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG		REMARKS:				TIME STARTED: 12:55 PM		GAUGE HT.: 0.76 m		
						TIME FINISHED: 12:32 PM				
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL				MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 5 D	VEL (mps)			
0	0	0	W/E(L/B)							
1	3.2	3.2	0.50	0.10	UR	0.30	UR	0.40	UR	0.0000
2	6.2	3	0.85	0.17	0.097	0.51	0.068	0.68	0.033	0.0560
3	9.2	3	2.90	0.58	0.029	1.34	0.103	3.32	0.060	0.0618
4	12.2	3	3.30	0.66	0.000	1.98	0.099	2.64	0.032	0.0758
5	15.2	3	3.30	0.66	0.052	1.98	0.083	2.64	0.070	0.0490
6	18.2	3	3.50	0.70	0.000	2.10	0.112	2.80	0.049	0.0683
7	21.2	3	3.90	0.78	0.000	2.34	0.000	3.12	0.047	0.0138
8	24.2	3	4.40	0.88	0.000	2.64	0.000	3.52	0.000	0.0000
9	27.2	3	4.40	0.88	0.042	2.64	0.000	3.52	0.055	0.0240
10	30.2	3	5.10	1.02	0.022	3.06	0.000	4.08	0.000	0.0000
11	33.2	3	4.90	0.98	0.000	2.94	0.054	3.92	0.185	0.0783
12	36.2	3	4.30	0.86	0.085	2.58	0.000	3.44	0.000	0.0000
13	39.2	3	3.80	0.76	0.358	2.28	0.183	3.04	0.046	0.0213
14	42.2	3	3.6	0.72	0.371	2.16	0.275	2.88	0.001	0.0053
15	45.2	3	3.2	0.64	0.318	1.92	0.000	2.56	0.245	0.4155
16	48.2	3	2.90	0.58	0.778	1.74	0.700	2.32	0.508	0.6715
17	51.2	3	2.5	0.50	0.928	1.50	0.549	2.00	0.582	0.8120
18	54.2	3	2	0.40	0.457	1.20	0.110	1.60	0.510	0.5168
19	57.2	3	1.50	0.30	0.428	0.90	0.287	1.20	0.113	0.2883
20	60.2	3	0.80	0.12	UR	0.36	UR	0.48	UR	0.0000
21	62.7	2.5	W/E(R/B)							
TOTAL									184.25	30.5429

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines						DATE: 16 May 2002 TIME STARTED : 2:40 PM TIME FINISHED: 3:25 PM		GAUGE HT. : 0.59 m GAUGE HT. : 0.59 m	
NAME OF STATION:SGS1			OBSERVATION POINT / LOCATION: Ages River						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0		W/E(L/B)									
1	2	3	0.30	0.08	0.064	0.16	0.064	0.24	0.069	0.0653	0.75	0.0489
2	5	3	0.50	0.10	0.034	0.30	0.128	0.40	0.072	0.0905	1.50	0.1358
3	8	3	2.60	0.52	0.060	1.56	0.107	2.08	0.078	0.0850	7.80	0.6864
4	11	3	3.00	0.80	0.074	1.80	0.124	2.40	0.117	0.1098	9.00	0.9878
5	14	3	3.00	0.60	0.090	1.80	0.107	2.40	0.080	0.0960	9.00	0.8640
6	17	3	2.90	0.58	0.098	1.74	0.117	2.32	0.088	0.1050	8.70	0.9135
7	20	3	3.70	0.74	0.054	2.22	0.035	2.96	0.089	0.0533	11.10	0.5911
8	23	3	3.90	0.78	0.056	2.34	0.049	3.12	0.083	0.0593	11.70	0.6932
9	26	3	4.40	0.88	0.040	2.64	0.035	3.52	0.054	0.0410	13.20	0.5412
10	29	3	4.50	0.90	0.086	2.70	0.055	3.60	0.132	0.0820	13.50	1.1070
11	32	3	4.90	0.98	0.131	2.94	0.06	3.92	0.040	0.0728	14.70	1.0694
12	35	3	4.30	0.86	0.077	2.58	0.046	3.44	0.066	0.0589	12.90	0.7579
13	38	3	3.90	0.78	0.144	2.34	0.074	3.12	0.088	0.0900	11.70	1.0530
14	41	3	3.8	0.72	0.232	2.16	0.138	2.88	0.088	0.1480	10.80	1.5984
15	44	3	3.2	0.64	0.222	1.92	0.253	2.56	0.043	0.1828	9.60	1.8504
16	47	3	2.70	0.54	0.396	1.62	0.381	2.16	0.343	0.3753	8.10	3.0395
17	50	3	2.7	0.54	0.428	1.62	0.493	2.16	0.258	0.4180	8.10	3.3858
18	53	3	2.5	0.50	0.688	1.50	0.811	2.00	0.434	0.5860	7.50	4.3950
19	56	3	2.20	0.44	0.709	1.32	0.563	1.76	0.413	0.5620	6.60	3.7092
20	59	3	1.70	0.34	0.585	1.02	0.347	1.36	0.345	0.4060	5.10	2.0706
21	62	3	0.90	0.18	0.136	0.54	0.196	0.72	0.18	0.1775	2.70	0.4783
22	65	3	0.20	0.04	UR	0.12	UR	0.16	UR	0.0000	0.44	0.0000
23	66.4	1.4	W/E(R/B)									
										TOTAL	184.49	29.9773

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines						DATE: 20 May 2002 TIME STARTED : 9:00AM TIME FINISHED: 10:00 AM		GAUGE HT. : 0.78 m GAUGE HT. : 0.78 m	
NAME OF STATION:SGS1			OBSERVATION POINT / LOCATION: Ages River						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: DVG, ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0		W/E(L/B)									
1	5	3	0.50	0.10		0.30	0.130	0.40		0.1300	2.50	0.3250
2	10	3	0.69	0.14	0.545	0.41	0.716	0.55	0.750	0.6818	3.45	2.3520
3	15	5	2.00	0.40	0.849	1.20	0.830	1.60	0.690	0.7998	10.00	7.9975
4	20	5	4.00	0.80	0.890	2.40	0.890	3.20	0.698	0.8420	20.00	16.8400
5	25	5	5.05	1.01	0.160	3.03	0.129	4.04	0.149	0.1418	35.25	3.5792
6	30	5	5.10	1.02	0.117	3.06	0.043	4.08	0.116	0.0798	25.50	2.0336
7	35	5	4.70	0.94	0.100	2.82	0.050	3.76	0.054	0.0635	23.50	1.4923
8	40	5	4.00	0.80	0.054	2.40	0.010	3.20	0.018	0.0230	20.00	0.4600
9	45	5	2.00	0.40	0.010	1.20	0.010	1.60	0.010	0.0100	10.00	0.1000
10	50	5	2.00	0.40	0.000	1.20	0.000	1.60	0.000	0.0000	8.00	0.0000
11	53	3	1.40	0.28	0.000	0.84	0.000	1.12	0.000	0.0000	8.00	0.0000
12	55	2	W/E(R/B)								3.50	0.0000
										TOTAL	151.70	35.1786

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 29 May 2002 TIME STARTED: 2:21 PM TIME FINISHED: 3:02 PM		GAUGE HT.: 0.55 m GAUGE HT.: 0.58 m				
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0	0	W/E(L/B)									
1	3	3	0.20	0.04	UR	0.12	0.048	0.16	0.000	0.0460	0.80	0.0276
2	6	3	0.90	0.18	0.050	0.54	0.113	0.72	0.077	0.0883	2.70	0.2383
3	9	3	2.80	0.56	0.128	1.68	0.089	2.24	0.082	0.0965	8.40	0.8106
4	12	3	3.10	0.62	0.098	1.86	0.066	2.48	0.116	0.0865	9.30	0.8045
5	15	3	2.90	0.58	0.081	1.74	0.052	2.32	0.126	0.0778	8.70	0.6764
6	18	3	3.10	0.62	0.000	1.86	0.054	2.48	0.095	0.0745	9.30	0.6929
7	21	3	3.90	0.78	0.042	2.34	0.000	3.12	0.077	0.0595	11.70	0.6962
8	24	3	3.70	0.74	0.047	2.22	0.000	2.96	0.134	0.0905	11.10	1.0046
9	27	3	4.30	0.88	0.047	2.58	0.000	3.44	0.035	0.0410	12.90	0.5289
10	30	3	4.80	0.96	0.000	2.88	0.000	3.84	0.038	0.0380	14.40	0.5472
11	33	3	4.50	0.90	0.032	2.70	0.000	3.60	0.051	0.0415	13.50	0.5603
12	36	3	4.20	0.84	0.067	2.52	0.158	3.36	0.109	0.1230	12.60	1.5498
13	39	3	3.40	0.68	0.196	2.34	0.091	2.72	0.000	0.1435	10.20	1.4637
14	42	3	3.50	0.70	0.176	2.10	0.077	2.80	0.037	0.0918	10.50	0.9634
15	45	3	3.00	0.60	0.182	1.80	0.195	2.40	0.159	0.1828	9.00	1.6448
16	48	3	2.70	0.54	0.200	1.62	0.276	2.16	0.201	0.2363	8.10	1.9298
17	51	3	2.50	0.50	0.683	1.50	0.499	2.00	0.492	0.5363	7.50	4.0369
18	54	3	2.30	0.46	0.713	1.38	0.480	1.84	0.400	0.5183	6.90	3.5759
19	57	3	2.00	0.40	0.562	1.20	0.559	1.60	0.393	0.5183	6.00	3.1095
20	60	3	1.40	0.28	0.502	0.84	0.420	1.12	0.449	0.4478	4.20	1.8806
21	63	3	0.80	0.16	0.064	0.48	0.058	0.64	0.094	0.0685	2.60	0.1781
22	66.5	3.5	W/E(R/B)									
TOTAL											180.20	26.9197

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines				DATE: 31 May 2002 TIME STARTED: 10:01 AM TIME FINISHED: 10:34 PM		GAUGE HT.: 0.58 m GAUGE HT.: 0.63 m				
NAME OF STATION: SGS1		OBSERVATION POINT / LOCATION: Agos River				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0	0	W/E(L/B)									
1	2.7	2.7	1.20	0.34	0.659	0.72	0.084	1.06	0.000	0.0403	3.42	0.1377
2	5.7	3	2.50	0.70	0.139	1.50	0.069	2.00	0.053	0.0648	7.50	0.4756
3	8.7	3	3.20	0.84	0.059	1.92	0.066	2.56	0.161	0.0865	9.90	0.8194
4	11.7	3	3.30	0.66	0.079	1.98	0.077	2.64	0.143	0.0930	9.90	0.9207
5	14.7	3	2.60	0.52	0.159	1.56	0.051	2.08	0.148	0.1023	7.80	0.8376
6	17.7	3	3.50	0.72	0.051	2.10	0.080	2.80	0.089	0.0780	10.50	0.8190
7	20.7	3	3.60	0.78	0.051	2.28	0.049	2.64	0.197	0.0810	11.40	0.9034
8	23.7	3	4.30	0.84	0.042	2.52	0.071	3.26	0.128	0.0756	12.60	1.0046
9	26.7	3	4.20	0.82	0.051	2.52	0.085	3.36	0.150	0.1003	13.60	1.2632
10	29.7	3	4.30	0.84	0.000	1.64	0.363	1.52	0.083	0.3030	13.20	2.6736
11	32.7	3	4.00	0.80	0.171	2.40	0.056	3.20	0.076	0.0868	13.00	0.9756
12	35.7	3	4.00	0.80	0.129	2.40	0.112	3.20	0.098	0.1043	12.00	1.3510
13	38.7	3	3.40	0.68	0.187	2.04	0.083	2.72	0.040	0.0978	10.20	0.9971
14	41.7	3	3.20	0.64	0.229	1.92	0.057	2.56	0.090	0.0833	9.60	0.7932
15	44.7	3	2.60	0.56	0.153	1.68	0.245	2.24	0.203	0.2615	8.40	2.1968
16	47.7	3	2.40	0.48	0.190	1.44	0.443	1.92	0.327	0.4253	7.20	3.0618
17	50.7	3	2.40	0.48	0.617	1.44	0.682	1.62	0.540	0.5803	7.20	4.1778
18	53.7	3	2.20	0.44	0.695	1.32	0.520	1.76	0.289	0.5100	6.60	3.3660
19	56.7	3	1.60	0.32	0.147	0.96	0.333	1.26	0.400	0.3533	4.80	1.6956
20	59.7	3	0.80	0.16	0.139	0.54	0.150	0.72	0.139	0.1423	2.70	0.3841
21	62.7	3	0.20	0.04		0.12	UR	0.16		0.0000	0.41	0.0000
22	63.5	1.5	W/E(R/B)									
TOTAL											179.63	29.0181

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines						DATE: 05 June 2002 TIME STARTED : 4:48 PM TIME FINISHED: 5:50 PM		GAUGE HT. : 0:50 m GAUGE HT. : 0:50 m	
NAME OF STATION:SGS1			OBSERVATION POINT / LOCATION: Agos River						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0		0 W/E(L/B)									
1	2.7	2.7	0.40	0.08		0.24	0.045	0.32		0.0450	1.14	0.0513
2	5.7	3	2.40	0.48	0.070	1.44	0.063	1.92	0.140	0.0840	7.20	0.6048
3	8.7	3	2.70	0.54	0.053	1.62	0.111	2.16	0.106	0.0953	8.10	0.7715
4	11.7	3	2.80	0.56	0.032	1.68	0.055	2.24	0.146	0.0720	8.40	0.6048
5	14.7	3	2.30	0.46	0.088	1.38	0.058	1.84	0.131	0.0838	6.90	0.5779
6	17.7	3	2.50	0.50	0.058	1.50	0.083	2.00	0.132	0.0890	7.50	0.6675
7	20.7	3	2.70	0.54	0.122	1.62	0.047	2.16	0.073	0.0723	8.10	0.5852
8	23.7	3	3.30	0.66	0.177	1.98	0.081	2.64	0.042	0.0953	9.90	0.9430
9	26.7	3	3.50	0.70	0.084	2.10	0.032	2.80	0.077	0.0513	10.50	0.5381
10	29.7	3	3.90	0.78	0.048	2.34	0.062	3.12	0.072	0.0605	11.70	0.7079
11	32.7	3	3.90	0.78	0.204	2.34	0.177	3.12	0.040	0.1495	11.70	1.7492
12	35.7	3	3.60	0.72	0.132	2.16	0.180	2.88	0.095	0.1488	10.80	1.5840
13	38.7	3	3.10	0.62	0.173	1.86	0.072	2.48	0.066	0.0958	9.30	0.8905
14	41.7	3	3.00	0.60	0.091	1.80	0.203	2.40	0.046	0.1358	9.00	1.2218
15	44.7	3	2.70	0.54	0.171	1.62	0.215	2.16	0.203	0.2010	8.10	1.6281
16	47.7	3	2.40	0.48	0.157	1.44	0.331	1.92	0.266	0.2713	7.20	1.9530
17	50.7	3	2.20	0.44	0.634	1.32	0.502	1.78	0.502	0.5350	6.60	3.5310
18	53.7	3	2.15	0.43	0.594	1.29	0.431	1.72	0.436	0.4730	6.45	3.0509
19	56.7	3	1.90	0.38	0.471	1.14	0.258	1.52	0.308	0.3238	5.70	1.8454
20	59.7	3	1.00	0.20	0.305	0.80	0.319	0.80	0.114	0.2643	3.00	0.7928
21	62.7	3	0.30	0.06		0.18 UR		0.24		0.0000	0.62	0.0000
22	63.8	1.1	W/E(R/B)									
										TOTAL	157.91	24.2993

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS The Study on Water Resources Development for Metro Manila in the Republic of the Philippines						DATE: 08 June 2002 TIME STARTED : 3:25 PM TIME FINISHED: 4:10 PM		GAUGE HT. : 0:47 m GAUGE HT. : 0:47 m	
NAME OF STATION:SGS1			OBSERVATION POINT / LOCATION: Agos River						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	VERTICAL						MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				NR. 2 D	VEL (mps)	NR. 4 D	VEL (mps)	NR. 6 D	VEL (mps)			
0	0		0 W/E(L/B)									
1	3.2	3.2	1.10	0.22	0.098	0.66	0.078	0.88	0.033	0.0718	3.41	0.2447
2	6.2	3	2.50	0.50	0.112	1.50	0.097	2.00	0.157	0.1158	7.50	0.8681
3	9.2	3	2.90	0.58	0.073	1.74	0.115	2.32	0.053	0.0890	8.70	0.7743
4	12.2	3	2.60	0.52	0.068	1.56	0.000	2.08	0.034	0.0255	7.80	0.1989
5	15.2	3	2.50	0.50	0.054	1.50	0.059	2.00	0.092	0.0680	7.50	0.4950
6	18.2	3	2.90	0.58	0.000	1.74	0.000	2.32	0.000	0.0000	8.70	0.0000
7	21.2	3	3.10	0.62	0.133	1.98	0.048	2.48	0.095	0.0810	9.30	0.7533
8	24.2	3	3.80	0.76	0.058	2.28	0.057	3.04	0.076	0.0620	11.40	0.7068
9	27.2	3	4.10	0.82	0.084	2.46	0.109	3.28	0.073	0.0938	12.30	1.1531
10	30.2	3	4.00	0.80	0.138	2.40	0.088	3.20	0.136	0.1125	12.00	1.3500
11	33.2	3	4.10	0.82	0.040	2.46	0.040	3.28	0.069	0.0473	12.30	0.5812
12	36.2	3	3.50	0.70	0.115	2.10	0.065	2.80	0.058	0.0758	10.50	0.7954
13	39.2	3	3.30	0.66	0.052	1.98	0.054	2.84	0.049	0.0523	9.90	0.5173
14	42.2	3	3.00	0.60	0.138	1.80	0.158	2.40	0.053	0.1268	9.00	1.1408
15	45.2	3	2.60	0.52	0.212	1.56	0.189	2.08	0.210	0.2000	7.80	1.5000
16	48.2	3	2.40	0.48	0.437	1.44	0.457	1.92	0.245	0.3980	7.20	2.8728
17	51.2	3	2.20	0.44	0.605	1.32	0.457	1.76	0.370	0.4723	6.60	3.1189
18	54.2	3	2.00	0.40	0.521	1.20	0.495	1.60	0.515	0.5085	6.00	3.0390
19	57.2	3	1.50	0.30	0.484	0.90	0.314	1.20	0.183	0.3283	4.50	1.4681
20	60.2	3	0.90	0.18	0.047	0.54	0.075	0.72	0.057	0.0635	2.79	0.1772
21	63.4	3.2	W/E(R/B)									
										TOTAL	165.20	21.8127

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 23 February 2002 TIME STARTED: 14:20 PM TIME FINISHED: 15:35 PM		GAUGE HT.: 0.90 m GAUGE HT.: 0.90 m	
NAME OF STATION: SCS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG				CHECKED: RLB		
HYDROGRAPHIC TEAM: ROMA, REY, MUTO						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 3 D		NR. 4 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)				
0	0		W/E(R/S)									
1	3.5	3.5	1.52	0.30	0.325	0.91	0.452	1.22	0.313	0.3855	4.94	1.9044
2	6.5	3	1.88	0.38	0.401	1.13	0.212	1.50	0.107	0.2330	5.64	1.3141
3	9.5	3	4	0.80	0.603	2.40	0.245	3.20	0.870	0.4908	12.00	5.8860
4	12.5	3	4	0.80	0.517	2.40	0.955	3.20	1.210	0.6093	12.00	10.9110
5	15.5	3	5.2	1.04	0.773	3.12	0.931	4.16	0.866	0.8753	15.60	13.6538
6	18.5	3	4.7	0.94	0.623	2.82	0.923	3.76	0.949	0.8545	14.10	12.0465
7	21.5	3	3.9	0.78	0.591	2.34	0.775	3.12	0.852	0.7483	11.70	8.7545
8	24.5	3	3.4	0.68	0.297	2.04	0.451	2.72	0.854	0.5133	10.20	5.2352
9	27.5	3	2.7	0.54	0.319	1.62	0.808	2.16	0.597	0.6330	8.10	5.1273
10	30.5	3	2.3	0.46	0.620	1.38	0.863	1.84	0.597	0.7358	6.90	5.0767
11	33.5	3	1.74	0.35	0.489	1.04	0.619	1.39	0.558	0.5715	5.22	2.9832
12	36.5	3	1.42	0.28	0.305	0.85	0.351	1.14	0.295	0.3255	4.26	1.3886
13	39.5	3	0.92	0.16	0.000	0.55	0.000	0.74	0.000	0.0000	2.76	0.0000
14	42.5	3	0.56	0.11	0.000	0.34	0	0.45	0.000	0.0000	2.52	0.0000
15	48.5	6	0	0.00	0.000	0.00	0	0.00	0	0.0000	0.00	0.0000
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
TOTAL											115.94	74.2844

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 24 February 2002 TIME STARTED: 14:00 PM TIME FINISHED: 16:45 PM		GAUGE HT.: 0.61 m GAUGE HT.: 0.61 m	
NAME OF STATION: SCS # 2		OBSERVATION POINT / LOCATION: KANAN RIVER				COMPUTED BY: DVG				CHECKED: RLB		
HYDROGRAPHIC TEAM: ROMA, DVG, MUTO						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 3 D		NR. 4 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)				
0	0		W/E(R/S)									
1	1.2	1.2	0.8	0.12	UR	0.36	UR	0.48	UR	0.0000	1.28	0.0000
2	4.2	3	1.17	0.23	0.457	0.70	0.301	0.84	0.371	0.3875	3.51	1.2548
3	7.2	3	2.4	0.48	0.449	1.44	0.184	1.92	0.173	0.2475	7.20	1.7820
4	10.2	3	3.6	0.72	0.839	2.16	0.764	2.88	0.049	0.6040	10.80	6.5232
5	13.2	3	4.4	0.88	0.984	2.64	0.757	3.52	0.686	0.7910	13.20	10.4412
6	16.2	3	4.7	0.94	0.939	2.82	0.751	3.76	0.773	0.8035	14.10	11.3294
7	19.2	3	4.4	0.88	0.719	2.64	0.881	3.52	0.728	0.8018	13.20	10.5831
8	22.2	3	3.5	0.70	0.700	2.10	0.731	2.80	0.574	0.6840	10.50	7.1820
9	25.2	3	3.1	0.82	0.768	1.86	0.898	2.48	0.332	0.6240	9.30	5.8032
10	28.2	3	2.5	0.50	0.595	1.50	0.644	2.00	0.567	0.6125	7.50	4.5938
11	31.2	3	1.98	0.40	0.425	1.19	0.557	1.58	0.443	0.4968	5.94	2.9507
12	34.2	3	1.45	0.29	0.127	0.87	0.290	1.16	0.330	0.2638	4.35	1.1473
13	37.2	3	1	0.20	UR	0.60	UR	0.80	UR	0.0000	3.00	0.0000
14	40.2	3	0.83	0.13	UR	0.39	UR	0.50	UR	0.0000	1.69	0.0000
15	43.2	3	0.27	0.05	UR	0.16	UR	0.22	UR	0.0000	0.70	0.0000
16	45.4	2.2	W/E(L/S)									
17												
TOTAL											106.45	63.5906

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT				HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 25 February 2002 TIME STARTED: 15:10 PM TIME FINISHED: 16:00 PM		GAUGE HT.: 0.76 m GAUGE HT.: 0.78 m	
NAME OF STATION: SGS #2		OBSERVATION POINT / LOCATION: KANAN RIVER				COMPUTED BY: DVG				CHECKED: RLB			
HYDROGRAPHIC TEAM: ENTENG, DVG, JERRY						REMARKS:							
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 4 D		NR. 6 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE	
				NR.	VEL (mps)	NR.	VEL (mps)	NR.	VEL (mps)				
0	0	0	W/E(R/B)										
1	1.2	1.2	0.42	0.08	UR	0.25	UR	0.34	UR	0.0000	0.88	0.0000	
2	4.2	3	1.9	0.38	0.312	1.14	0.341	1.52	0.185	0.2948	5.70	1.6801	
3	7.2	3	2.5	0.50	0.817	1.60	0.252	2.00	0.504	0.3813	7.50	2.6594	
4	10.2	3	3.6	0.72	0.947	2.16	0.946	2.88	0.524	0.8408	10.80	9.0801	
5	13.2	3	4.1	0.82	0.664	2.46	0.971	3.28	0.213	0.7048	12.30	8.6684	
6	16.2	3	4.6	0.92	0.677	2.76	0.808	3.68	0.557	0.7110	13.80	9.8118	
7	19.2	3	4.2	0.84	0.874	2.52	0.583	3.36	0.717	0.6893	12.60	8.6846	
8	22.2	3	3.5	0.70	0.583	2.10	0.887	2.80	0.856	0.7033	10.50	7.3841	
9	25.2	3	2.8	0.56	0.647	1.68	0.607	2.24	0.444	0.5763	8.40	4.8405	
10	28.2	3	2.33	0.47	0.604	1.41	0.436	1.88	0.426	0.5055	7.05	3.5638	
11	31.2	3	1.8	0.36	0.243	1.08	0.503	1.44	0.460	0.4123	5.40	2.2262	
12	34.2	3	1.3	0.26	0.221	0.78	0.178	1.04	0.237	0.2035	3.90	0.7937	
13	37.2	3	0.9	0.18	UR	0.54	UR	0.72	UR	0.0000	4.50	0.0000	
14	44.2	7	W/E(L/B)										
15													
16													
										TOTAL	103.33	59.5925	

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT				HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 28 February 2002 TIME STARTED: 13:18 PM TIME FINISHED: 14:06 PM		GAUGE HT.: 0.86 m GAUGE HT.: 0.86 m	
NAME OF STATION: SGS #2		OBSERVATION POINT / LOCATION: Kanan River				COMPUTED BY: DVG				CHECKED: RLB			
HYDROGRAPHIC TEAM: ENTENG, DVG, JERRY						REMARKS:							
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 4 D		NR. 6 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE	
				NR.	VEL (mps)	NR.	VEL (mps)	NR.	VEL (mps)				
0	0	0	W/E(R/B)										
1	1.1	1.1	0.65	0.13	UR	0.39	0.072	0.52	UR	0.0720	1.33	0.0959	
2	4.1	3	1.5	0.30	0.659	0.90	0.351	1.20	0.201	0.3805	4.50	1.7573	
3	7.1	3	2.5	0.50	0.501	1.50	0.531	2.00	0.129	0.4230	7.50	3.1725	
4	10.1	3	3.7	0.74	1.137	2.22	0.577	2.96	0.200	0.5928	11.10	6.5795	
5	13.1	3	4.5	0.90	0.881	2.70	0.887	3.60	0.835	0.8625	13.50	11.6438	
6	16.1	3	4.9	0.98	1.003	2.94	0.815	3.92	0.674	0.8268	14.70	12.1532	
7	19.1	3	4.4	0.88	0.881	2.64	0.901	3.52	0.513	0.7990	13.20	10.5465	
8	22.1	3	3.6	0.72	0.711	2.16	0.951	2.88	0.472	0.7713	10.60	8.3295	
9	25.1	3	3.1	0.62	0.370	1.86	0.672	2.48	0.273	0.6218	9.30	5.7823	
10	28.1	3	2.5	0.50	0.624	1.50	0.703	2.00	0.728	0.6898	7.50	5.1731	
11	31.1	3	2	0.40	0.579	1.20	0.578	1.60	0.326	0.5143	6.00	3.0855	
12	34.1	3	1.52	0.30	0.219	0.91	0.388	1.22	0.519	0.3685	4.56	1.6804	
13	37.1	3	1.02	0.20	0.214	0.61	0.160	0.82	0.058	0.1490	3.08	0.4529	
14	40.1	3	0.75	0.15	UR	0.45	0.092	0.60	UR	0.0960	2.25	0.2160	
15	43.1	3	0.50	0.08	UR	0.18	UR	0.24	UR	0.0000	0.83	0.0000	
16	45.6	2.5	W/E(L/B)										
17													
										TOTAL	110.13	70.6886	

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 02 March 2002 TIME STARTED : 13:10 PM TIME FINISHED: 12:35 PM		GAUGE HT. : 0.61 m GAUGE HT. : 0.61 m	
NAME OF STATION:SGS2			OBSERVATION POINT / LOCATION: INFANTA						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0		0 W/E(L/B)									
1	3	3	1.05	0.21	UR	0.63	0.155	0.84	0.234	0.1945	3.15	0.6127
2	6	3	1.05	0.21	0.125	0.63	0.185	0.84	0.237	0.1880	3.15	0.5922
3	9	3	3.50	0.70	0.485	2.10	0.417	2.80	0.077	0.3498	10.50	3.6724
4	12	3	3.70	0.74	0.740	2.22	0.842	2.96	0.155	0.6448	11.70	7.1587
5	15	3	4.90	0.98	0.602	2.94	0.442	3.92	0.619	0.5283	14.70	7.7359
6	18	3	4.70	0.94	0.766	2.82	0.789	3.76	0.237	0.8353	14.70	8.9570
7	21	3	3.70	0.74	0.737	2.22	0.612	2.96	0.479	0.8100	11.70	6.7710
8	24	3	3.30	0.66	0.351	1.98	0.352	2.64	0.595	0.4125	9.90	4.0838
9	27	3	2.50	0.50	0.596	1.50	0.462	2.00	0.372	0.4730	7.50	3.5475
10	30	3	2.05	0.41	0.258	1.23	0.274	1.84	0.287	0.2728	6.15	1.8774
11	33	3	1.55	0.31	0.208	0.93	0.344	1.24	0.274	0.2925	4.65	1.3601
12	36	3	1.10	0.22	0.102	0.66	0.122	0.88	0.066	0.1030	3.30	0.3399
13	39	3	0.65	0.13	0.080	0.39	0.057	0.52	UR	0.0695	1.95	0.1336
14	42	3	0.30	0.06	UR	0.18	UR	0.24	UR	0.0000	0.75	0.0000
15	44	2	W/E(R/B)									
TOTAL											102.00	46.6401

Submitted by: KEYIO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 06 March 2002 TIME STARTED : 14:25 PM TIME FINISHED: 15:25 PM		GAUGE HT. : 0.68 m GAUGE HT. : 0.68 m	
NAME OF STATION:SGS2			OBSERVATION POINT / LOCATION: INFANTA						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, MUTO						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0		0 W/E(R/B)									
1	3	3	1.30	0.26	0.384	0.78	0.236	1.04	0.272	0.2820	3.90	1.0998
2	6	3	1.95	0.39	0.708	1.17	0.612	1.56	0.294	0.5558	5.85	3.2511
3	9	3	3.70	0.74	0.929	2.22	0.842	2.96	0.410	3.7558	11.70	8.3888
4	12	3	4.20	0.84	0.833	2.52	0.813	3.36	0.722	0.7953	12.60	10.0202
5	15	3	4.50	0.90	0.820	2.70	0.650	3.60	0.437	0.6393	13.50	8.6299
6	18	3	3.90	0.78	0.695	2.34	0.487	3.12	0.394	0.5158	11.70	6.0343
7	21	3	3.30	0.66	0.640	1.98	0.658	2.64	0.289	0.5048	9.90	4.9970
8	24	3	2.80	0.56	0.473	1.68	0.587	2.24	0.432	0.5198	8.40	4.3659
9	27	3	2.20	0.44	0.477	1.32	0.452	1.76	0.346	0.4318	6.60	2.8496
10	30	3	1.55	0.31	0.192	0.93	0.187	1.24	0.069	0.1588	4.65	0.7362
11	33	3	0.75	0.15	UR	0.48	UR	0.60	UR	0.0000	3.00	0.0000
12	38	5	W/E(L/B)									
TOTAL											91.20	50.3747

Submitted by: KEYIO CONSTRUCTION

DISCHARGE MEASUREMENT				HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 07 March 2002 TIME STARTED: 11:30 AM TIME FINISHED: 12:00 NN		GAUGE HT.: 1.15 m GAUGE HT.: 1.15 m		
NAME OF STATION: SGS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG				CHECKED: RLB		
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)					MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE		
				NR. 2 D	VEL (mps)	NR. 8 D	VEL (mps)				NR. 8 D	VEL (mps)
0	0	0	W/E(R/B)									
1	1	1	1.00	0.20	0.187	0.80	0.198	0.80	0.078	0.1603	2.00	0.3205
2	4	3	2.00	0.40	0.934	1.20	0.741	1.80	0.384	0.7000	6.00	4.2000
3	7	3	3.10	0.62	0.602	1.86	0.637	2.48	0.450	0.6815	9.30	5.4080
4	10	3	3.60	0.72	1.218	2.16	0.917	2.88	0.725	0.9443	10.80	10.1979
5	13	3	4.20	0.84	1.484	2.52	1.242	3.36	1.044	1.2830	12.60	15.7878
6	16	3	5.50	1.10	1.181	3.30	0.541	4.40	0.319	0.6455	16.80	10.6808
7	19	3	4.80	0.96	1.079	2.88	0.583	3.84	0.523	0.6920	14.40	9.9648
8	22	3	4.20	0.84	1.189	2.52	1.130	3.36	0.765	1.0638	12.60	13.2741
9	25	3	3.80	0.76	1.030	2.28	0.879	3.04	0.663	0.8628	11.40	9.8354
10	28	3	3.50	0.70	0.903	2.10	0.846	2.80	0.595	0.7875	10.80	8.3738
11	31	3	3.18	0.62	0.850	1.86	0.697	2.48	0.674	0.7045	9.30	6.5519
12	34	3	1.90	0.38	0.738	1.14	0.630	1.82	0.606	0.6810	6.70	3.7107
13	37	3	1.40	0.28	0.439	0.84	0.481	1.12	0.475	0.4290	4.20	1.8018
14	40	3	1.10	0.22	0.112	0.66	0.153	0.88	0.193	0.1828	3.30	0.5041
15	43	3	0.56	0.11	0.097	0.34	0.113	0.48	UR	0.1050	1.68	0.1764
16	46	3	0.25	0.08	UR	0.16	UR	0.28	UR	0.0000	0.75	0.0000
17	49	3	W/E(L/B)									
TOTAL										131.03		100.7577

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT				HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 11 March 2002 TIME STARTED: 10:51 AM TIME FINISHED: 11:25 AM		GAUGE HT.: 0.74 m GAUGE HT.: 0.73 m		
NAME OF STATION: SGS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG				CHECKED: RLB		
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)					MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE		
				NR. 2 D	VEL (mps)	NR. 8 D	VEL (mps)				NR. 8 D	VEL (mps)
0	0	0	W/E(R/B)									
1	2.1	2.1	0.95	0.19	0.229	0.57	0.245	0.76	0.060	0.2023	1.95	0.3933
2	4.1	2	1.10	0.22	0.390	0.68	0.466	0.88	0.227	0.3873	2.20	0.8520
3	6.1	2	1.80	0.36	0.427	1.08	0.311	1.44	0.253	0.3255	3.80	1.1718
4	8.1	2	4.00	0.80	0.537	2.40	0.286	3.20	0.145	0.3135	8.00	2.5080
5	10.1	2	4.10	0.82	0.739	2.46	0.666	3.28	0.349	0.6050	8.20	4.8610
6	12.1	2	2.50	0.50	1.060	1.50	0.781	2.00	0.741	0.8408	5.00	4.2038
7	14.1	2	3.50	0.70	0.825	2.10	0.819	2.80	0.778	0.8105	7.00	5.8735
8	16.1	2	5.50	1.10	0.882	3.30	0.644	4.40	0.598	0.6920	11.00	7.6120
9	18.1	2	4.70	0.94	0.683	2.82	0.774	3.76	0.633	0.7180	9.40	6.7304
10	20.1	2	4.20	0.84	0.657	2.52	0.643	3.36	0.586	0.6323	8.40	5.3109
11	22.1	2	3.50	0.70	0.745	2.10	0.627	2.80	0.418	0.6043	7.00	4.2298
12	24.1	2	3.30	0.66	0.725	1.98	0.691	2.64	0.489	0.5490	6.60	4.2834
13	26.1	2	2.70	0.54	0.580	1.62	0.583	2.16	0.677	0.6058	5.40	3.2711
14	28.1	2	2.35	0.47	0.520	1.41	0.531	1.88	0.400	0.4955	4.70	2.3289
15	30.1	2	2.00	0.40	0.562	1.20	0.428	1.60	0.436	0.4640	4.00	1.8560
16	32.1	2	1.70	0.34	0.400	1.02	0.439	1.36	0.378	0.4140	3.40	1.4076
17	34.1	2	1.35	0.27	0.275	0.81	0.227	1.08	0.2	0.2323	2.70	0.6271
18	36.1	2	1.05	0.21	0.080	0.63	0.061	0.84	0.151	0.0908	2.10	0.1906
19	38.1	2	0.80	0.16	0.116	0.48	0.092	0.64	UR	0.1040	1.60	0.1564
20	40.1	2	0.60	0.12	0.114	0.36	0.048	0.48	0.088	0.0745	1.20	0.0884
21	42.1	2	0.28	0.05	UR	0.18	UR	0.21	UR	0.0000	0.52	0.0000
22	44.1	2	W/E(L/B)									
TOTAL										103.97		57.8873

Submitted by: KEIYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 22 March 2002 TIME STARTED : 11:47 AM TIME FINISHED: 12:15 NN		GAUGE HT. : 0.44 m GAUGE HT. : 0.43 m	
NAME OF STATION: SGS2			OBSERVATION POINT / LOCATION: INFANTA						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0	0	W/E(R/B)									
1	2	2	0.75	0.15	0.100	0.45	0.078	0.60	0.065	0.0803	1.50	0.1204
2	4	2	1.06	0.21	0.215	0.84	0.108	0.85	0.068	0.1248	2.12	0.2645
3	6	2	1.85	0.33	0.186	0.96	0.143	1.32	0.080	0.1360	3.30	0.4554
4	8	2	3.70	0.74	0.270	2.22	0.217	2.96	0.086	0.1973	7.40	1.4597
5	10	2	3.20	0.64	0.414	1.92	0.661	2.56	0.099	0.4588	6.40	2.9360
6	12	2	2.00	0.40	0.655	1.20	0.574	1.60	0.753	0.6390	4.00	2.5560
7	14	2	2.80	0.56	0.612	1.68	0.763	2.24	0.487	0.6513	5.60	3.6470
8	16	2	4.00	0.90	0.599	2.70	0.570	3.60	0.445	0.5460	9.00	4.9140
9	18	2	4.20	0.84	0.495	2.52	0.464	3.36	0.452	0.4688	8.40	3.9375
10	20	2	3.70	0.74	0.394	2.22	0.381	2.96	0.381	0.3843	7.40	2.8435
11	22	2	3.30	0.66	0.449	1.98	0.444	2.64	0.350	0.4218	6.60	2.7836
12	24	2	2.90	0.58	0.412	1.74	0.471	2.32	0.392	0.4365	5.80	2.5317
13	26	2	2.35	0.47	0.412	1.41	0.311	1.88	0.416	0.3625	4.70	1.7038
14	28	2	2.05	0.41	0.288	1.23	0.336	1.64	0.218	0.2845	4.10	1.2075
15	30	2	1.70	0.34	0.282	1.02	0.166	1.36	0.300	0.2285	3.40	0.7769
16	32	2	1.42	0.28	0.171	0.85	0.086	1.14	0.169	0.1280	2.84	0.3635
17	34	2	1.02	0.20	0.083	0.61	0.056	0.82	0.059	0.0585	2.04	0.1193
18	36	2	0.76	0.15	UR	0.46	UR	0.61	UR	0.0000	1.52	0.0000
19	38	2	0.50	0.10	UR	0.30	UR	0.40	UR	0.0000	1.38	0.0000
20	41.5	3.5	W/E(L/B)									
TOTAL											87.50	32.6201

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 23 March 2002 TIME STARTED : 12:02 NN TIME FINISHED: 12:24 NN		GAUGE HT. : 0.41 m GAUGE HT. : 0.41 m	
NAME OF STATION: SGS2			OBSERVATION POINT / LOCATION: INFANTA						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0	0	W/E(R/B)									
1	2.2	2.2	0.55	0.11	0.101	0.33	0.063	0.44	0.082	0.0873	1.43	0.1248
2	5.2	3	1.35	0.27	0.146	0.81	0.077	1.08	0.104	0.1010	4.05	0.4091
3	8.2	3	3.70	0.74	0.325	2.22	0.111	2.96	0.148	0.1738	11.10	1.9286
4	11.2	3	2.10	0.42	0.555	1.26	0.301	1.68	0.430	0.3966	8.30	2.4995
5	14.2	3	4.80	0.92	0.240	2.76	0.263	3.68	0.227	0.2483	13.80	3.4259
6	17.2	3	4.50	0.90	0.802	2.70	0.619	3.60	0.250	0.5225	13.50	7.0538
7	20.2	3	3.60	0.72	0.490	2.16	0.49	2.88	0.275	0.4363	10.80	4.7115
8	23.2	3	3.00	0.60	0.290	1.80	0.435	2.40	0.274	0.3585	9.00	3.2265
9	26.2	3	2.24	0.45	0.273	1.34	0.424	1.79	0.309	0.3575	6.72	2.4024
10	29.2	3	1.80	0.36	0.104	1.08	0.475	1.44	0.269	0.3308	5.40	1.7861
11	32.2	3	1.33	0.27	0.143	0.80	0.205	1.06	0.124	0.1693	3.96	0.8753
12	35.2	3	0.86	0.18	0.100	0.53	0.086	0.70	0.085	0.0893	2.64	0.2356
13	38.2	3	0.45	0.09	0.138	0.27	0.136	0.36	0.066	0.1186	1.37	0.1630
14	41.3	3.1	W/E(L/B)									
TOTAL											90.10	28.6419

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 24 March 2002 TIME STARTED: 12:12 NN TIME FINISHED: 12:45 NN		GAUGE HT.: 0.87 m GAUGE HT.: 0.86 m				
NAME OF STATION: SGS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)					MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE		
				NR. 2 D	VEL (mps)	NR. 8 D	VEL (mps)				NR. 8 D	VEL (mps)
0	0		0 W/E(R/B)									
1	2.2	2.2	1.05	0.21	0.290	0.63	0.078	0.84	0.158	0.1500	2.73	0.4095
2	5.2	3	1.80	0.36	0.524	1.08	0.314	1.44	0.143	0.3238	5.40	1.7483
3	8.2	3	4.20	0.84	0.444	2.52	0.596	3.36	0.080	0.4290	12.60	5.4054
4	11.2	3	4.10	0.82	0.877	2.46	0.851	3.28	0.205	0.6480	12.30	7.9458
5	14.2	3	4.60	0.82	1.504	2.76	1.000	3.68	0.624	1.0320	13.80	14.2416
6	17.2	3	5.20	1.04	0.910	3.12	0.794	4.16	0.491	0.7473	15.60	11.6571
7	20.2	3	4.40	0.88	0.671	2.64	0.593	3.52	0.437	0.5735	13.20	7.5702
8	23.2	3	3.80	0.76	0.671	2.28	0.545	3.04	0.121	0.4705	11.40	5.3637
9	26.2	3	3.50	0.70	0.832	2.10	0.559	2.80	0.426	0.5440	10.50	5.7120
10	29.2	3	2.40	0.48	0.539	1.44	0.57	1.92	0.213	0.4730	7.20	3.4056
11	32.2	3	1.75	0.35	0.264	1.05	0.321	1.40	0.212	0.2795	5.25	1.4674
12	35.2	3	1.30	0.28	0.174	0.78	0.289	1.04	0.143	0.2233	3.90	0.8707
13	38.2	3	0.90	0.18	0.160	0.54	0.143	0.72	0.061	0.1268	2.70	0.3422
14	41.2	3	0.40	0.08	0.113	0.24	0.075	0.32	0.070	0.0833	1.42	0.1182
	45.3	4.1	W/E(L/B)									
TOTAL										118.00	66.2578	

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 10 April 2002 TIME STARTED: 11:13 AM TIME FINISHED: 11:50 AM		GAUGE HT.: 0.12 m GAUGE HT.: 0.12 m				
NAME OF STATION: SGS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)					MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE		
				NR. 2 D	VEL (mps)	NR. 8 D	VEL (mps)				NR. 8 D	VEL (mps)
0	0		0 W/E(R/B)									
1	2.3	2.3	0.60	0.12	UR	0.38	UR	0.48	UR	0.0000	1.59	0.0000
2	5.3	3	1.13	0.23	0.077	0.68	UR	0.90	0.054	0.0655	3.39	0.2220
3	8.3	3	3.20	0.64	0.170	1.92	0.135	2.56	0.056	0.1240	9.60	1.1904
4	11.3	3	1.55	0.31	0.417	0.93	0.324	1.24	0.452	0.3793	4.65	1.7635
5	14.3	3	2.20	0.44	0.460	1.32	0.390	1.78	0.408	0.4120	6.60	2.7192
6	17.3	3	4.20	0.84	0.289	2.52	0.358	3.36	0.284	0.3248	12.60	4.0919
7	20.3	3	3.30	0.66	0.288	1.98	0.239	2.64	0.168	0.2335	9.90	2.3117
8	23.3	3	2.60	0.52	0.232	1.56	0.448	2.08	0.132	0.3150	7.80	2.4570
9	26.3	3	1.96	0.39	0.285	1.18	0.270	1.57	0.183	0.2523	5.88	1.4832
10	29.3	3	1.60	0.32	0.285	0.98	0.288	1.28	0.196	0.2633	4.80	1.2636
11	32.3	3	1.10	0.22	0.081	0.66	0.125	0.88	0.094	0.1063	3.30	0.3506
12	35.3	3	0.64	0.13	0.083	0.38	UR	0.51	UR	0.0830	1.92	0.1594
13	38.3	3	0.24	0.05	UR	0.14	UR	0.19	UR	0.0000	0.60	0.0000
14	40.3	2	W/E(L/B)									
TOTAL										72.63	18.0125	

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 30 April 2002 TIME STARTED : 10:45 AM TIME FINISHED: 11:30 AM		GAUGE HT. : 0.54 m GAUGE HT. : 0.56 m	
NAME OF STATION: SGS2			OBSERVATION POINT / LOCATION: INFANTA						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0	0	W/E(R/B)									
1	3.4	3.4	1.00	0.20	0.117	0.60	0.095	0.80	0.035	0.0855	3.20	0.2736
2	6.4	3	1.60	0.32	0.136	0.98	0.039	1.28	0.140	0.0885	4.80	0.4248
3	9.4	3	3.10	0.62	0.508	1.86	0.126	2.48	0.155	0.2288	9.30	2.1274
4	12.4	3	1.80	0.36	0.898	1.08	0.722	1.44	0.702	0.7110	5.40	3.6394
5	15.4	3	4.00	0.80	0.692	2.40	0.667	3.20	0.170	0.5490	12.00	6.5680
6	18.4	3	4.00	0.80	0.608	2.40	0.584	3.20	0.487	0.5658	12.00	6.7890
7	21.4	3	3.20	0.64	0.549	1.92	0.414	2.56	0.469	0.4675	9.60	4.4304
8	24.4	3	2.80	0.56	0.547	1.60	0.567	2.24	0.464	0.5350	8.40	4.4940
9	27.4	3	3.10	0.42	0.450	1.26	0.496	1.68	0.391	0.4583	6.30	2.8870
10	30.4	3	1.80	0.36	0.270	1.08	0.353	1.44	0.281	0.3143	5.40	1.6970
11	33.4	3	1.20	0.24	0.115	0.72	0.224	0.96	0.232	0.1988	3.60	0.7155
12	36.4	3	0.80	0.16	0.031	0.48	UR	0.64	0.036	0.0335	2.40	0.0804
13	39.4	3	0.40	0.08	UR	0.24	0.035	0.32	0.033	0.0340	1.20	0.0408
14	42.4	3	0.10	0.02	UR	0.06	UR	0.08	UR	0.0000	0.19	0.0000
15	43.2	0.8	W/E(L/B)									
TOTAL											83.79	34.3872

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT			HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>						DATE: 03 May 2002 TIME STARTED : 10:45 AM TIME FINISHED: 11:08 AM		GAUGE HT. : 0.43 m GAUGE HT. : 0.43 m	
NAME OF STATION: SGS2			OBSERVATION POINT / LOCATION: INFANTA						COMPUTED BY: DVG		CHECKED: RLB	
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)			
0	0	0	W/E(R/B)									
1	3.2	3.2	1.00	0.20	0.132	0.60	0.071	0.80	0.032	0.0766	3.10	0.2372
2	6.2	3	1.50	0.30	0.167	0.90	0.081	1.20	0.032	0.0928	4.50	0.4174
3	9.2	3	2.10	0.42	0.260	1.26	0.173	1.66	0.168	0.1983	6.30	1.2506
4	12.2	3	1.70	0.34	0.662	1.02	0.639	1.36	0.643	0.6458	5.10	3.2933
5	15.2	3	4.10	0.82	0.628	2.46	0.570	3.26	0.090	0.4638	12.30	6.7041
6	18.2	3	3.90	0.78	0.549	2.34	0.582	3.12	0.457	0.5275	11.70	6.1718
7	21.2	3	3.10	0.62	0.477	1.86	0.424	2.48	0.326	0.4128	9.30	3.8386
8	24.2	3	2.60	0.52	0.436	1.56	0.463	2.08	0.439	0.4800	7.80	3.5100
9	27.2	3	2.10	0.42	0.313	1.26	0.403	1.68	0.446	0.3910	6.30	2.4633
10	30.2	3	1.60	0.32	0.235	0.96	0.287	1.28	0.216	0.2660	4.80	1.2288
11	33.2	3	1.20	0.24	0.206	0.72	0.119	0.96	0.136	0.1453	3.60	0.5229
12	36.2	3	0.75	0.16	0.093	0.48	UR	0.60	UR	0.0930	2.26	0.2093
13	39.2	3	0.35	0.07	UR	0.21	0.054	0.28	0.063	0.0635	1.06	0.0562
14	42.2	3	W/E(L/B)									
TOTAL											78.10	28.9033

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 09 May 2002 TIME STARTED: 1:08 PM TIME FINISHED: 1:31 PM		GAUGE HT.: 0.23 m GAUGE HT.: 0.23 m				
NAME OF STATION: SGS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)				
0	0	0	W/E(R/B)									
1	3.2	3.2	0.70	0.14	UR	0.42	UR	0.56	UR	0.0000	2.17	0.0000
2	6.2	3	1.50	0.30	0.080	0.80	UR	1.20	UR	0.0800	4.50	0.3600
3	9.2	3	2.80	0.55	0.235	1.88	0.268	2.24	0.042	0.2138	8.40	1.7955
4	12.2	3	1.65	0.33	0.543	0.98	0.538	1.32	0.544	0.5408	4.95	2.6767
5	15.2	3	3.10	0.62	0.481	1.86	0.378	2.48	0.135	0.3433	9.30	3.1922
6	18.2	3	3.60	0.72	0.382	2.18	0.373	2.88	0.284	0.3530	10.80	3.8124
7	21.2	3	2.90	0.58	0.370	1.74	0.376	2.32	0.241	0.3408	8.70	2.9645
8	24.2	3	2.30	0.46	0.329	1.38	0.365	1.84	0.289	0.3370	6.90	2.3253
9	27.2	3	1.80	0.36	0.216	1.09	0.268	1.44	0.247	0.2498	5.40	1.3487
10	30.2	3	1.30	0.28	0.035	0.78	0.138	1.04	0.116	0.1088	3.90	0.4163
11	33.2	3	0.85	0.17	UR	0.51	UR	0.68	UR	0.0000	2.55	0.0000
12	36.2	3	0.40	0.08	UR	0.24	0.061	0.32	UR	0.0610	1.20	0.0732
13	39.2	3	0.12	0.02	UR	0.07	UR	0.10	UR	0.0000	0.25	0.0000
14	40.4	1.2	W/E(L/B)									
TOTAL											69.02	18.9648

Submitted by: KEYO CONSTRUCTION

DISCHARGE MEASUREMENT		HYDROLOGICAL INVESTIGATION WORKS <i>The Study on Water Resources Development for Metro Manila in the Republic of the Philippines</i>				DATE: 16 May 2002 TIME STARTED: 12:15 NN TIME FINISHED: 12:37 NN		GAUGE HT.: 0.12 m GAUGE HT.: 0.11 m				
NAME OF STATION: SGS2		OBSERVATION POINT / LOCATION: INFANTA				COMPUTED BY: DVG		CHECKED: RLB				
HYDROGRAPHIC TEAM: ENTENG, JERRY, DVG						REMARKS:						
PT	DISTANCE FROM INITIAL PT.	WIDTH (m.)	DEPTH (m.)	NR. 2 D		NR. 5 D		NR. 8 D		MEAN VELOCITY (mps)	AREA (sq.m)	DISCHARGE
				VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)	VEL (mps)				
0	0	0	W/E(R/B)									
1	3.2	3.2	0.65	0.13	UR	0.39	UR	0.52	UR	0.0000	2.02	0.0000
2	6.2	3	1.50	0.30	0.052	0.90	0.034	1.20	UR	0.0430	4.50	0.1935
3	9.2	3	1.35	0.27	0.223	0.81	0.307	1.08	0.282	0.2798	4.05	1.1330
4	12.2	3	2.00	0.40	0.391	1.20	0.402	1.60	0.335	0.3825	6.00	2.2950
5	15.2	3	4.00	0.80	0.395	2.40	0.303	3.20	0.349	0.3375	12.00	4.0500
6	18.2	3	3.20	0.84	0.310	1.92	0.326	2.56	0.284	0.3115	9.60	2.9904
7	21.2	3	2.50	0.50	0.284	1.50	0.358	2.00	0.202	0.3005	7.50	2.2538
8	24.2	3	2.00	0.40	0.213	1.20	0.257	1.60	0.246	0.2433	6.00	1.4595
9	27.2	3	1.60	0.32	0.186	0.96	0.190	1.28	0.253	0.2048	4.80	0.9828
10	30.2	3	1.10	0.22	0.137	0.86	0.076	0.88	0.098	0.0983	3.30	0.3176
11	33.2	3	0.65	0.13	UR	0.39	UR	0.52	0.050	0.0500	1.85	0.0975
12	36.2	3	0.20	0.04	UR	0.12	UR	0.16	UR	0.0000	0.56	0.0000
13	39	2.8	W/E(R/B)									
TOTAL											62.30	15.7731

Submitted by: KEYO CONSTRUCTION