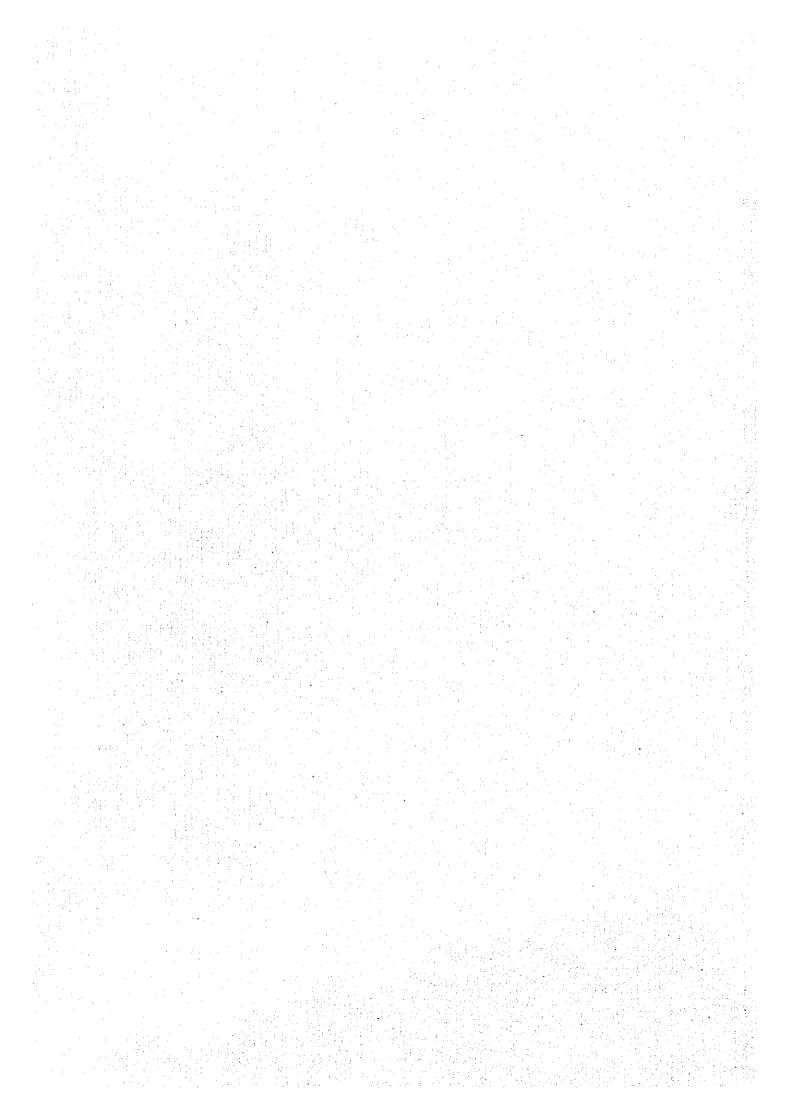
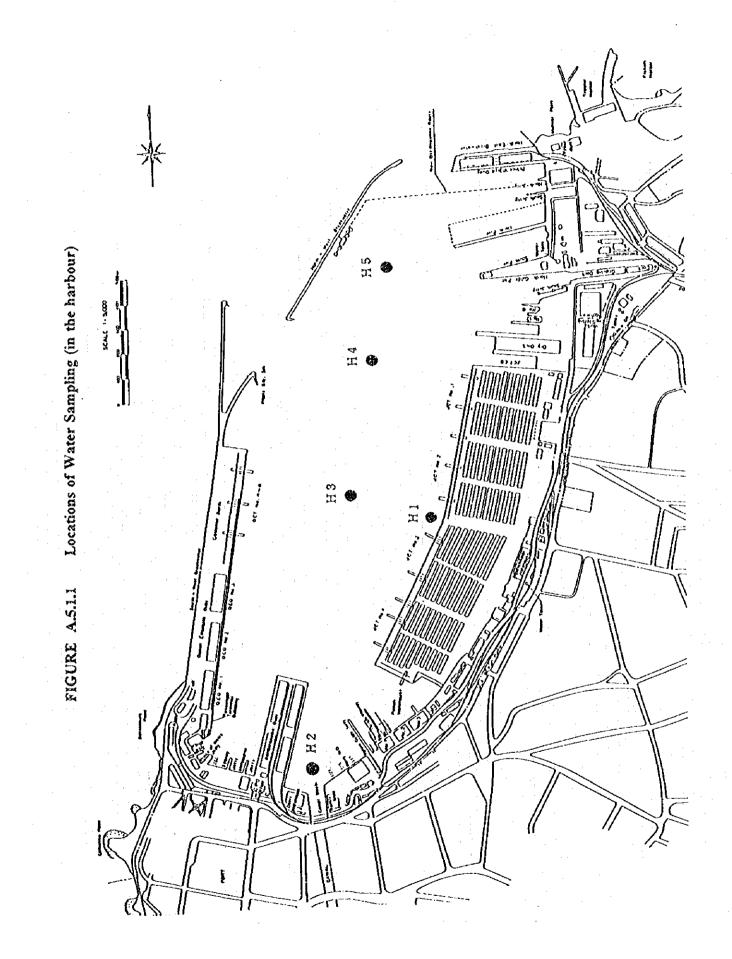
# PART 5

# APPENDIX



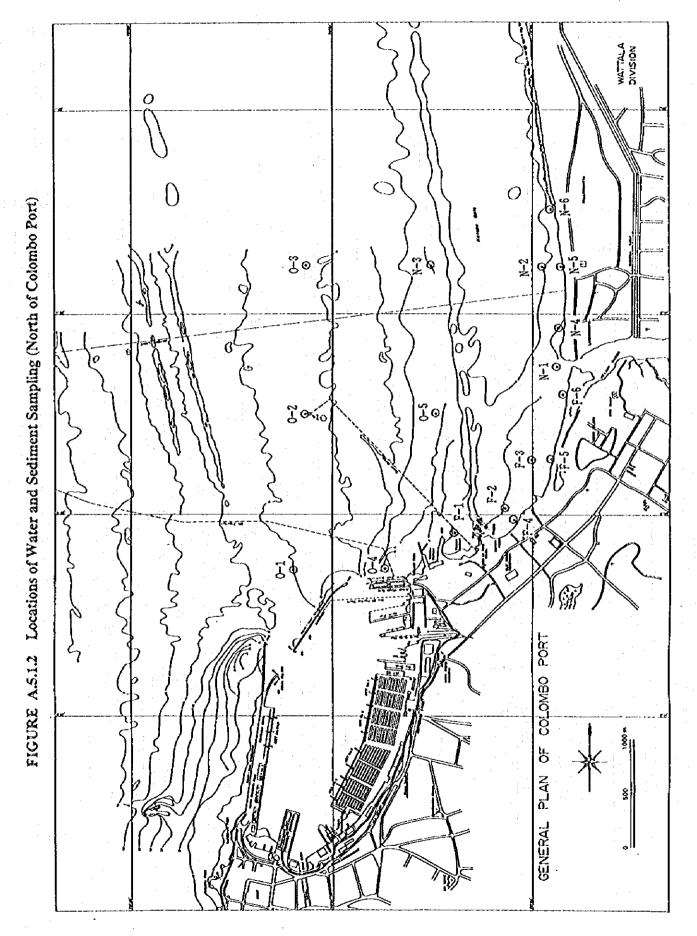


Агеа	Point	Layer	Salinity %	Temp. °C	pH	DO mg/ <b>l</b>	COD mg/t	SS mg/ <b>(</b>	Т-Р mg/ <b>(</b>	T-N mg/(
		Surface	2.35	28.8	8.20	6.5	11.69	6.00	0.18	0.12
	H1	Middle	2.35	28.6	8.28	5.0	9,41	5.50	0.31	0.02
		Bottom	2.40	28.5	8.31	5.5	10.27	13.00	0.15	0.02
	<b>B-B-</b>	Surface	1.36	28.7	7.99	5.6	7.70	6,50	0.24	0.0
	- H2	Middle	1.58	28.6	8.14	5.5	5.70	6.00	0.15	0.1
Inner	• •	Bottom	1.44	28.7	8.18	5.4	7.13	9.0	0.19	0.00
Harbour		Surface	2.15	28.7	8.26	5.3	2.71	4.50	0.10	0.0
	H3 -	Middle	2.05	28.6	8.28	5.8	5.13	18.00	0.12	0.0
		Bottom	2:10	28.5	8.31	5.7	10.27	30.00	0.16	0.0
	-	Surface	2.15	28.6	8.27	2.3	4.28	5.00	0.08	0.1
	H4	Middle	2.15	28.5	8.28	3.6	4.99	4.00	0.16	0.0.
		Bottom	2.15	28.6	8.19	3.4	6.56	103.00	0.41	0.0
		Surface	2.20	28.5	8.29	4.3	5.70	3.00	0.07	0.24
	H5	Middle	2.25	28.5	8.28	5.2	4.28	13.00	0.12	0.0
		Bottom	2.25	28.6	8.29	5.2	4.28	8.00	0.12	0.0
		Surface	0.82	28.4	8.26	6.4	6.18	2.0	0.06	0.0
· · ·	0-1	Middle	0.94	28.8	8.30	6.5	3.20	1.5	0.06	0.0
· ·	<u>.</u>	Bottom	1.42	28.7	8.31	6.6	3.29	1.5	0.05	0.0
	•	Surface	1.60	29.0	8.20	6.7	3.66	3.0	0.08	0.0
	0.2	Middle	1.68	28.9	8.33	6.7	2.52	2.0	0.05	0.0
-	·	Bottom	1.70	28.8	8.30	6.4	5.26	2.0	0.05	0.0
Outer		Surface	1.66	27.3	8.28	6.1	5,95	10.0	0.09	0.0
Harbour	0-3	Middle	1.78	28.9	8.60	6.3	1.83	5.0	0.06	0.0
	<u> </u>	Bottom	2.05	28.8	8.30	5.7	5.26	13.0	0.10	0.0
		Surface	1.94	29,4	8.23	6.5	3.43	6.0	0.09	0.02
	O-4	Middle	2.20	28.9	8.32	5.4	4.35	10.0	0.10	0.0
		Bottom	2.20	28.9	8.36	5.4	3.89	12.5	0.08	0.0
		Surface	1.82	29.6	8.28	6.1	5.72	12.5	0.09	0.0
	0-5	Middle	2.10	28.9	8.25	6.0	5.26	6.0	0.08	0.0
	·	Bottom	2.15	28.8	8.39	6.2	8.92	6.5	0.09	0.0
		Surface	1.40	29.5	8.20	6.8	6.41	6.0	0.08	0.0.
	F-1	Middle	2.20	28.9	8.26	6.0	5.03	7.0	0.09	0.0
Fishery		Bottom	2.20	28.9	• • . • • •	5.9	9.61	89.5	0.32	0.0
Harbour		Surface	0.74	29.1	8.10	6.2	4.12	10.5	0.09	0.0
	F-2	Middle	2.20	28.8	8.15	4.3	11.90	102.0	0.37	0.0
		Bottom	2.20	28.8	8.38	4.3	5.95	76.5	0.34	0.02
		Surface	1.12	28.8	8.60	6.5	3.43	11.0	0.09	0.02
	F-3	Middle	2.20	28.7	8.10	4.5	10.75	128.0	0.45	0.02
		Bottom	2.25	28.7	8.19	2.1	19.44	266.0	0.85	0.01

TABLE A.5.1.1 Water Quality during SW Monsoon Season

ARLE	A.5.1.2	water Quanty during Sw Monsoon Season										
Area	Point	Layer	Səlinity %	Temp. °C	pH	DO mg/ℓ	COD mg/l	SS mg/ <b>(</b>	T-P mg/€	T-N mg/ℓ		
••• •		Surface	0,98	28.3		7.0	6.41	16.0	0.08	0.03		
	N-1	Middle	1.50	28.8	•,	5.2	10.29	48.5	0.21	0.04		
North of		Bottom	1.90	28.9	-	5.7	7.78	32.0	0.14	0.01		
Kelani		Surface	1.40	29.1	· _ ·	6.7	9.15	8.5	0.07	0.02		
River	N-2	Middle	i.92	29.1		5.9	8.92	14.0	0.10	0.01		
Mouth		Bottom	1.98	29.0	- ;	4.2	14.18	895.5	0.44	0.03		
2	:	Surface	1.56	29.5		6.6	5.49	10.0	0.07	0.02		
	N-3	Middle	1.92	29.1	-	5.7	6.41	5.0	0.05	0.09		
		Bottom	1.98	29.0	-	2.0	8.46	113.5	0.23	0.02		
	R-1	Surface	0.00	27.7	•	6.7	4.58	3.0	0.05	0.02		
	· .	Bottom	0.00	27.7	-	6.8	5.72	8.5	0.07	0.02		
	R-2	Surface			-	<u>+</u>	4.76	<b>4</b> .0	0.05	0.02		
		Bottom	-	· -	-		· –	- :				
	R-3	Surface	0.00	27.7	-	7.0	6.41	4,5	0,06	0.02		
		Bottom	0.00	27.7	-	7.0	8.69	26.5	0.14	0.01		
Kelani	R-4	Surface	0.00	27.6		7.2	7.09	6.0	0.07	0.01		
River	••••	Bottom	0.00	27.7		6.8	16.93	201.0	0.54	0.02		
	R-5	Surface	0.00	27.6	·	7.2	8.24	12.0	0.07	0.02		
		Bottom	0.00	27.6	-	3.5	7.78	12.0	0.09	0.01		
	C-1	Surface	0.00	27.6	-	7.2	6.18	8.0	0.06	0.01		
		Bottom	0.00	27.6	1 <b>-</b> 1	7,2	7.78	31.5	0.10	0.01		
	C-2	Surface	0.00	27.6	<u>_</u>	7.3	6.18	8.0	0.05	0.02		
		Boltom	0.00	27.6	<b>-</b>	7.3	5.72	8.0	0.05	0.04		
· · ·	C-3	Surface	0.00	27.5		7.3	5.26	5.0	0.06	0.04		
		Bottom	0.00	27.6	· -	7.3	8.01	71.5	0.08	0.02		
	W-1	Bottom	0.02	28.6	7.10	3.5	5.64	0.6	0.03	0.011		
	W-2	Surface	0.01	29.6	6.94	2.9	3.47	0.6	0.05	0.026		
		Bottom	0.01	29.3	6.96	2.6	3.69	0.4	0.04	0.118		
Well	W-3	Bottom	0.02	29.4	7.13	1.3	8.68	6.8	0.03	0.113		
. 1	W-4	Bottom	0.01	29.3	7.46	4.5	7.38	2.6	0.04	0.046		
	W-5	Bottom	0.02	28.9	7.21	4.6	3.47	0.8	0.08	0.002		
	W-6	Bottom	0.00	28.4	7.75	4.3	4.56	0.8	0.03	0.105		

TABLE A.5.1.2 Water Quality during SW Monsoon Season



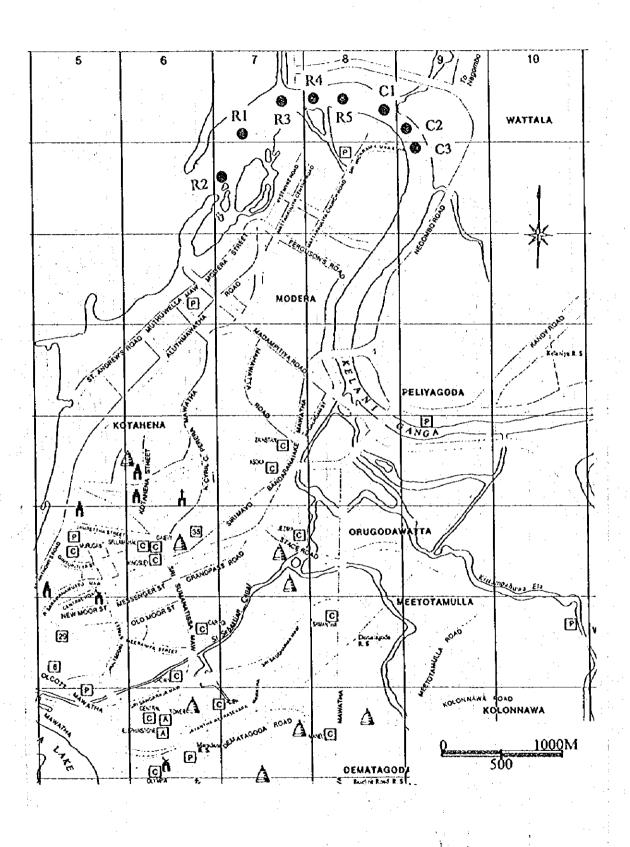
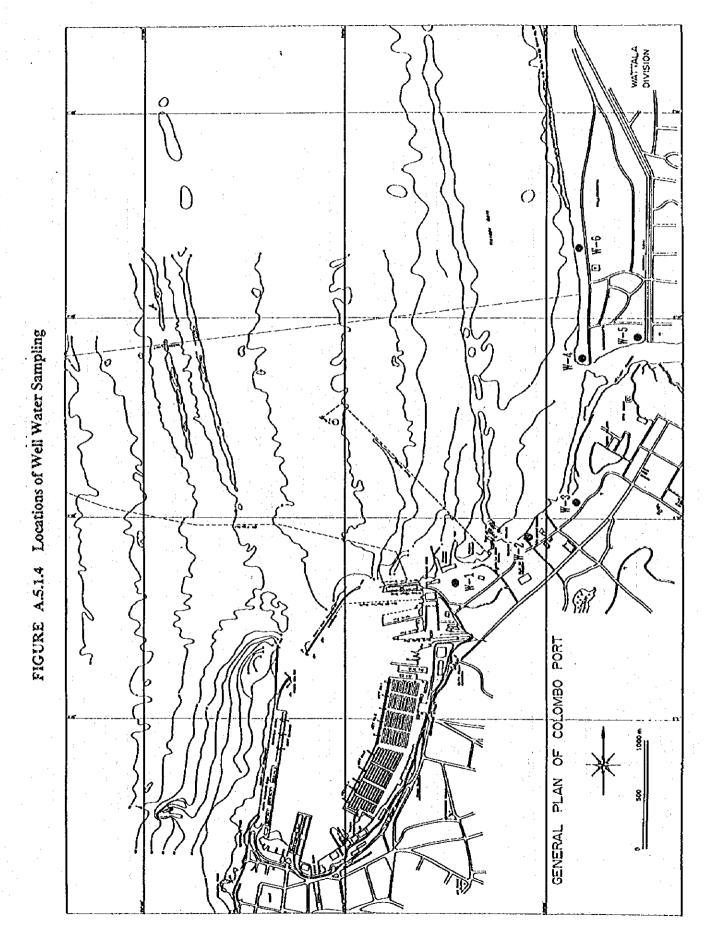


FIGURE A.5.1.3 Locations of Water and Sediment Sampling (Kelani River)



A\$-6

						<b>a</b>					<b>.</b> .	Transpa	arency
Area	Point	Layer	Salinity 95	Temp. °C	pH	DO mg/≹	COD mg/ł	SS mg∕€	T-P mg/l	T-N mg/l	Colour	Cylinder em	Secch m
· ·		Surface	1.84	28.6	7.99	4.4	12.26	7.50	0.03	0.33	Olive	>30	
	HI :	Middle	1.86	28.4	8.02	5.5	10.26	19.50	0.08	0.02	Yellow	>30	
		Bottom	1.88	28.3	8.09	11.2	6.27	19,50	0.10	0.03		>30	
		Surface	1.86	28.7	8.01	1.3	9.69	6.50	0.29	0.05	Deep	>30	· · ·
·	112	Middle	1.88	28.4	8.11	4.66	2.85	70.00	0.08	0.04	Yellow	17	
		Bottom	1.88	28.3	8.12	9.6	9.69	13.00	0.28	0.06	Green	>30	
nner	•	Surface	1.80	28.4	8.15	5.5	6.56	23.00	0.07	0.05	Strong	>30	
larbour	813	Middle	1.80	28.3	8.21	5.5	5,42	11.00	0.08	0.04	Yellow	>30	
		Bottom	1.82	28.3	8.23	11.3	6.27	9.50	0.07	0.03	Green	>30	
		Surface	1.72	28.5	8.35	5.8	4.28	11.00	0.07	0.09	Strong	>30	
	H4	Middle	1.74	28.3	8.30	6.5	6.27	19.00	0.10	0.05	Yellow	>30	· -
	114	Bottom	1.80	28.3	8.21	12.1	3.99	27,00	0.11	0.03	Green	29	
		Surface	1.58	. 28.4	8.21	5.9	7.41	12.50	0.10	0.05	Strong	>30	
	115	Middle	1.60	28.3	8.31	5.5	8.27	23.00	0.10	0.06	Yellow	>30	
÷		Bottom	1.62	28.3	8.36	11.3	4.56	29.50	0.11	0.05	Green	>30	
		Surface		 _	7.9	6.6	7.50	4.50	0.07	0.03	Vivid	· · · ·	2.0
	0-1	Middle	-	•	8.1	6.7	8.49	4.50	0.09	0.04	Green	÷	
	01	Bottom	÷ _		8.0	13.7	7.93	9.50	0.11	0.05		· .	
		Surface	 	<u></u> .	7.8	6.7	7.36	10.00	0.04	0.04	Vivid		5.6
	0-2	Middle	·	-	8.0	6.9	7.08	6.50	0.07	0.05	Blue		
	0.2	Bottom	· _ ·	•	8.3	13.7	7.36	9.00	0.10	0.04	Green	·	
Outer		Surface	· .		7.8	6.8	7.93	6.00	0.14	0.07	Vivid		4.2
Harbour	0-3	Middle	•	• ·	7.7	6.8	3.96	12.00	0.07	0.03	Bluish	· *	
		Bottom	•	-	8.5	13.5	7.08	5.50	0.04	0.09	Green		
		Surface	· •	-	8.0	7.1	6.23	6.00	0.08	0.04	Strong	· · ·	1.8
	0-1	Middle	_	· · _ ·	7.9	· 5.7	8.61	16.00	0.16	0.05	Yellow		
		Bottom	•	• •	7,8	13.1	9.97	52.00	0.21	0.05	Green		
	<u></u>	Surface			7.2	6.3	7.02	9.00	0.10	0.03	Strong		2.0
	Ó-5	Middle	· -		7.8	7.1	5.89	22.00	0.09	0.04	Yellow		
		Bottom	-	•	8.2	13.6	8.61	17.00	0.15	0.05	Green		
		Surface	•.		8.0	6.8	8.21	8.50	0.07	0.15	Strong		1.4
	F-1	Middle	-		7.9	6.6	9.91	11.50	0.09	0.11	Yellow		
		Bottom	-	•	7.6	13.4	12.46	29.50	0.19	0.15	Green	· .	
Fishery Harbour		Surface	•		7.7	6.7	7.08	18.50	0.11	0.12	Olive		1.2
Harbour	F-2	Middle	•	-	7.5	6.7	5.95	11.00	0.09	0.07	Yellow		
		Bottom	-	•	7.9	13.5	8.21	10.00	0.12	0.04			
		Surface	•		8.1	6.7	7.64	7.00	0.07	0.07	Strong		1.2
	F-3	Middle	-	-	7.9	6.7	10.19	8.00	0.10	0.10	Yellow		
		Bottom			7.6	13.3	10.19	10.00	0.13	0.06	Green		

TABLE A.5.1.3 Water Quality during NE Monsoon Season

	<b>N</b>		0.11.2	<b>T</b>		5.0	000				<b>.</b>	Transpa	rency
Arèa	Point	Layer	Salinity %i	Temp. °C	pH	DO mg/l	COD mg/l	88 mg/l	T-P mg/l	T-N mg∕₿	Colour	Cylinder cm	Seech m
		Surface	•	•	7.5	6.5	5.21	3.50	0.14	0.04	Strong		1.4
Mauth	N-1	Middle Bottom	•	•	8.0 7.8	7.0	4.98	7.00	0.11	0.05	Yellow		
North of				-	1.8	14.4	7.47	16.50	0.09	0.04	Green		
Kelani		Surface	•	•	7.2	7.1	8.83	3.50	0.07	0.03	Deen		1.8
River	N-2	Middle Bottom	•	-	7.5 7.9	7.9 15.3	7.25 7.47	5.50 5.00	0.10 0.10	0.04 0.03	Yellow Green		
Mouth				÷								<u> </u>	<u>.                                    </u>
	N-3	Surface Middle	-	•	6.9	7.2	9.06	3.50	0.07	0.03	Strong		18
	N-3	Bottom	-	-	7.5	7.2 14.3	9.97 7.70	10.50 7.00	0.14 0.10	0.04 0.03	Yellow Green		
	R-1	Surface Bottom			6.8 6.6	7.5 6.8	6.57 5.89	1.00 3.00	0.07 0.09	0.05 0.08	Strong Yellow		1.4
	K-1	Doutour	-	-	. 0.0	0.0	2.07	3.00	0.09	0.00	Green		
		Surface			20	4.2	9.63	1.00	0.27				
-	R-2	Bottom	-	-	7.0	4.2	9.03	- 1.00	0.27 -	0.22	Grayish Olive	·.	1.2
				: · ·							Green		
		Surface			7.0	7.4	5.44	i.00	0.06	0.05	Streng	: .	1.2
	R-3	Bottom	-	•	7.2	6.3	6.34	2.00	0.08	0.07	Yellow		1.6
Kelani							• .				Green		
River		Surface	-	•	6.8	7.4	5.44	2.00	0.07	0.06	Strong		1.3
	R-4	Bottom	-	•	6.5	6.5	7.02	1.50	0.07	0.06	Yellow		
								<b></b>			Green	<u> </u>	
	R-5	Surface	•	•	6.6	7.0	12.23	1.00	0.13	0.09	Deep		1.4
· · ·		Bottom	-	•	7.7	6.2	11.55	42.50	0.28		Yellow		
			<u> </u>						· · · · · · · · · · · · · · · · · · ·		Green		
	C-1	Surface	0.00	28.6	6.5	7.9	3.99	2.60	0.04	0.17	Deep	:	1.0
		Bottom	0.00	28.3	- 6.1	7.7	10.83	3.00	0.03	0.08	Yellow		
		·	· · · ·					·····			Green		
	C-2	Surface	0.00	28.6	6.5	8.0	6.56	2.60	0.03	0.04	Deep		1.0
		Bottom	0.00	28.4	6.6	7.7	8.27	4.40	0.03	0.10	Yellow		
	• <del>•••</del> •••••				i						Green		
	C-3	Surface	0.00	28.7	6.5	7.8	10.55	2.80	0.03	0.01	Deep		1.0
		Bottom	0.00	28.4	6.6	7.7	6.84	4.00	0.04	<0.05	Yellow		
•		<u> :</u>	<u>.</u>								Green		
	W-1	Bottom	0.02	26.8	6.56	2.6	2.96	1.2	0.04	0.079	Clean	>30	
	W-2	Surface	-	•	-	• 1.	-	.• .	• · · ·	-	Light	>30	
Well		Bottom	•	27.9	6.70	3.8	2.05	1.4	0.06	0.028	Blue		
	W-3	Bottom	0.01	27.7	6.53	2.0	11.17	8.8	0.03	0.058	Gold	>30	
•	W-4	Bottom	0.02	28.2	6.60	5.3	5.47	0.4	0.02	0.020	Clean	>30	
	W-5	Bottom	0.01	27.6	6.78	3.5	2.51	0.6	0.04	0.008	Clean	>30	
							,	· ·· ···			··-···		• .
	W-6	Bottom	0.01	27.2	7.08	4.6	4.79	0.13	0.013	0.013	Clean	>30	

## TABLE A.5.1.4 Water Quality during NE Monsoon Season

## TABLE A.5.1.5 (1) Water Quality Analysis Records (Other Items)

## OUT HARBOUR , SEWER OUTFALL, FISHBRY HARBOUR & NORTH OF THE RIVER MOUTH

Sampling	Depth	Total no. of	Total no. of	Chromium	Mercury	Oit & Grease
Point	(Layer)	Coliforms	8.Coli	(mg/l)	(mg/i)	(mg/l)
	Surface	1100	240	< 0.001	< 10 <sup>-4</sup>	4.2
0-1	Middle	210	150	< 0.001	< 10 <sup>-4</sup>	2.4
	Bottom	93	93	0.010	< 10 <sup>-4</sup>	1.2
	Surface	1100	460	< 0.001	< 10 <sup>-4</sup>	3.8
0.2	Middle	150	75	< 0.001	< 10 <sup>-4</sup>	2.4
	Bottom	93	93	0.002	< 10.4	0.9
	Surface	150	93	< 0.001	< 10 <sup>-4</sup>	3.6
0-3	Middle	150	1100	< 0.001	< 10 <sup>-4</sup>	2.4
	Bottom	460	460	< 0.001	< 10.4	0.9
	Surface	240	240	< 0.001	< 10 4	4.0
0.4	Middle	93	43		-	-
	Bottom	460	240	< 0.001	< 10 <sup>-4</sup>	0.8
	Surface	1100	460	0.024	< 10 <sup>-4</sup>	3.8
0-5	Middle	460	240	< 0.001	< 10 <sup>4</sup>	2.1
	Bottom	> 1100	> 1100	0.030	< 10 <sup>-4</sup>	0.9
0 - S	Surface	460	240	< 0.001	< 10 4	4.2
Sewer	Middle	1100	1100	< 0.001	< 10 4	2.6
Outfall	Boltom	460	240	0.023	< 10 1	1.8
	Surface	> 1100	1100	0.012	< 10 <sup>4</sup>	4.4
F 1	Middle	460	460	0.003	< 10.4	2.0
	Bottom	240	93	0.005	< 10 <sup>-4</sup>	0.8
	Surface	1100	460	0.003 ´	< 10 <sup>-4</sup>	4.2
F·2	Middle	460	460	0.009	< 10 <sup>-4</sup>	2.2
	Bottom	150	150	0.010	< 10 <sup>-4</sup>	1.8
	Surface	> 1100	1100	0.017	< 10 4	3.8
F-3	Middle		150	0.001	< 10 4	2.0
• -	Bottom	93	93	0.024	< 10 <sup>-4</sup>	2.0
alle folger i san an a	Surface	regensivity and an and a second state of the second state of the second state of the second state of the second		< 0.001	< 10 <sup>-4</sup>	3.6
- N-1	Middle	1100	460	< 0.001	< 10 <sup>-4</sup>	2.2
	Bottom	460	460	< 0.001	< 10 <sup>-4</sup>	0.8
	Surface	> 1100	1100	-	•*	-
N-2	Middle	1100	460	< 0.001	< 10 <sup>-4</sup>	1.8
• •	Bottom	460	240	< 0.001	< 10 4	1.0
	Surface	> 1100	1100	< 0.001	< 10 <sup>-4</sup>	3.2
N-3	Middle	1100	1100	< 0.001	< 10.4	2.0
17 J	Bottom	1100	460	< 0.001	< 10 1	0.6

Sampling Days :

08<sup>th</sup> February

- Out Harbour (O) & Fishery Harbour (F)

09<sup>th</sup> February - North of the Kelani River mouth (N)

Analysis done by :

National Water Supply & Dranage Board

## TABLE A.5.1.5 (2)

Water Quality Analysis Records (Other Items)

Sampling	Depth	BOD	Total no of	Total no of	Chromium	Mercury	Oil & Grease
Point	(Layer)	(mg/l)	Coliforms	E.Coli	(mg/l)	(mg/l)	(mg/i)
C - I	Surface	2.30	> 1100	150	< 0.001	< 10.4	
	Bottom	2.50	> 1100	93	0.024	< 10 <sup>-4</sup>	
C - 2	Surface	2.23	> 1100	1100	0.001	< 10 <sup>-4</sup>	
	Bottom	1.61	> 1100	460	< 0.001	< 10 <sup>-4</sup>	
C - 3	Surface	2.16	> 1100	> 1100	< 0.001	< 10.4	
	Bottom	2.30	> 1100	1100	0.011	< 10 <sup>-4</sup>	
R-1	Surface	2.20	> 1100	> 1100	0.008	< 10 <sup>-4</sup>	
1	Boltom	1.46	1100	240	< 0.001	< 10 <sup>-4</sup>	
R - 2	Surface	> 3.40	1100	240	< 0.001	< 10 4	
	Bottom	> 3.40	-	•	< 0.001	< 10*	
R - 3	Surface	1.90	> 1100	>1100	< 0.001	< 10 <sup>-4</sup>	
	Bottom	2.59	> 1100	> 1100	< 0.001	< 10 4	
R - 4	Surface	2.05	> 1100	240	< 0.001	< 10 <sup>-4</sup>	
÷.,	Bottom	1.22	> 1100	1100	< 0.001	< 10 <sup>-4</sup>	
R - 5	Surface	2.10	1100	460	< 0.001	< 10-4	
	Boltom	1.42	1100	460	< 0.001	< 10 4	
	Surface	-	· •	•	-		
W • 1	Middle		•	-	-	-	· · · · · · · · · · · · · · · · · · ·
	Bottom	0.64	> 1100	1100	0.010	< 10 *	
	Surface	0.78	> 1100	240 -	N/D	< 10 <sup>-4</sup>	
W - 2	Middle	0,64	> 1100	150	0.014	< 10.4	
	Bottom	-	-	•		· · · · ·	
	Surface	-	•			-	
W - 3	Middle	0.95	> 1100	460	0.007	<u>∶ &lt; 10 <sup>4</sup></u>	0.6
	Bottom	-	•	-	-		
	Surface	•	-	•		•	
W - 4	Middle	-	-	-		·	] <u></u>
	Bottom	0.50	> 1100	460	0.002	< 10 *	
	Surface	•	-	<u> </u>	-	· -	
W - 5	Middle	•		-			
. · · · ·	Boltom	0.25	> 1100	460	0.025	< 10 <sup>4</sup>	
:	Surface	•	•	•	•	•	
W-6	Middle		•			•	
	Bottom	1.32	> 1100	240	0.010	< 10 4	0.4

## KELANI RIVER & WELL WATER

Sampling Days :

25th January 96'Kelani River (C)26th January 96'Well Water (W)09th February 96'Kelani River (R)

Analysis done by :

National Water Supply & Dranage Board

Area	Point	Depth (m)	Colour	Odor (t.o.n.)	lgnition Loss (%)	Description
	0-1	15.0	Blackish green	4	23.7818	Silty clay material
	0-2	15.0	Blackish green	4	23.9313	Silty clay material
Outer	0-3	13.0	Brown	3	17.6608	Silty sand
Harbour	0-4	13.0	Brownish green	· 1	3.0983	Shelly sand
	0-5	11.0	Light brown	1	3.7643	Fine to coarse sand with coral fragment
	F-1	5.0	Blackish green	3	8.1012	Coral fragments with sandy clay
	F-2	5.0	Brown	1	no data	Coarse sand
Near	F-3	4.5	Brownish green	1	6.0021	Pebbly sand
Fishery Harbour	F-4	2.5	Blackish green	2	14.7983	Fine sand with clay
	F-5	3.0	Blackish light green	1	5,1165	Pebbly sand
	F-6	5.5	Blackish green	8	24.3542	Fine to coarse sand
	N-1	4.5	Blackish brown	2	1,8509	Fine sand with heavy mineral
	N-2	7.0	Brownish green	4	22.2040	Clay material
North	N-3	7.0	Blackish green	2	12.3428	Clay material
of Kelani River	N-4	5.0	Brownish green	2	7.8056	Silty clay with calcareous material
Mouth	N-5	7.0	Brownish green	2	9.2769	Silty clay with calcareous material
	N-6	8.0	Black	8	26.6051	Clay material with heavy minera
	R-1	5,5	Greenish brown	4	2.5637	Organic material
Kelani River	R-2	3.0	Brownish black	3	5,5007	Fine sand with organic materials and heavy mineral
RIVEI	R-3	3.5	Brown	1	1.2171	River coarse sand
· · ·	R-4	3.5	Brown	l	1.3794	River sand with organic material
:	R-5	3.0	Brown	1	1.3219	River coarse sand

TABLE A.5.2.1 Characteristics of Sediments (SW monsoon season)

T.O.N.: Threshold Odor Number

.

INVUD	11.5.5.6	Citta	intai Coi	riposition	s vi seu	inicinis (o	W monso	on seasony	
Area	Point	T·N	T-P	O-P	Cad- mium	Lead	Chro- mium	Copper	Zinc
	·····	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	0.1	69.388	31.392	13.461	ND	41.583	6.511	30.770	128.73
Outer	0-2	108.374	12.394	5.139	ND	36.985	2.144	13.307	190.59
Harbour	0-3	55.485	22.652	20.802	ND	28.267	2.107	8.406	174.16
	<u>0-4</u>	39.153	6.591	5.991	3.793	39.794	1.731	ND	98.00
	0-5	49.886	12.913	12.738	ND	ND	ND	ND	112.574
	F-1	77.751	18.981	18.843	ND	ND	ND	ND	166.57-
Near	F-2	41.182	15.093	14.069	ND	ND	ND	ND	169.02(
Fishery Harbour	F-3	89.654	27.793	27.612	0.297	3.895	8.132	4.505	155.89
	F-4	88.654	25.520	21.451	ND	7.607	ND	12.317	218.37
	F-5	120.249	17.581	9.232	ND	10.532	ND	ND	122.11
	F-6	654.249	23.634	22.874	ND	15.758	4.112	36.448	261.82
	N-1	106.856	19.850	8.229	0.609	ND	ND	MD	199.260
North	N-2	141.834	33.653	23.035	0.319	20.958	ND	22.299	258.42
of Kelani	N-3	45.071	26.215	2,500	ND	ND	ND	ND	167.365
River	N-1	165.234	22.541	1.737	ND	4.126	ND	12.405	226.93
Mouth	N-5	117.836	16.644	6.561	ND	ND	ND	11.250	241.329
	N-6	181,483	16.551	3.445	ND	12.377	4.306	36.262	299.899
	R-1	82.471	18.449	17.569	ND	ND	2.166	0.959	246.477
Kelani	R-2	70.067	37.284	20.808	ND	ND	2.166	10.538	268.246
River	R-3	39.939	10.383	6.44	ND	4.183	4.366	1.935	205.854
	R-4	56.306	19.075	11.005	ND	ND	2.119	ND	194.120
	R-5	25.886	11.346 *	10.191	ND	ND	2.014	ND	176.284

 TABLE A.5.2.2
 Chemical Compositions of Sediments (SW monsoon senson)

ND: Not Detected

TABLE						oun scasony		
Area	Point	Depth	Colour	Odor	Ignition Loss (%)	Description		
		(m)		(T.O.N)				
	0-1	8	Brown	5	10.1143	Fine sand with heavy mineral		
Outer Harbour	0-2	- 16	Blackish green	no sample	24.7571	Fine sand etay and organic material		
	0-3	12	Brown	4	12.6631	silty clay with calcareous material		
	0-4		Brackish brown	2	5.2656	Coarse sand with organic material		
•	0-5	12	Brownish green	1	24.8840	Silty clay		
	F-1	6	Brown	3	11.3563	Fine sand with cateareous material		
	F-2	. 4	Blackish brown	2	1.9527	Coarse sand with heavy mineral		
Near Fishery	F-3	4	Blackish brown	l	6.3040	Coarse silty sand with caleareous sand		
Harbour	F-4	3	Blackish brown	2	21.2902	Silty clay		
	F-5	3	Blackish brown	no sample	ND	Silty sand with clay		
	F-6	3	Brown	8	7.3919	River sand with heavy mineral		
	N-1	2.5	Blackish brown	2	0.4012	Coarse to silty sand		
North	N-2	6	Brownish black	5	28.9442	Silty clay with heavy mineral		
of	N-3	6.5	Brownish black	3	5.2540	Fine to clay with calcareous materia		
Kelani River	N-4	3.5	Brownish black	2	1.6223	Fine to silty sand		
Mouth	N-5	4	Brownish black	3	4.9328	Fine sand with heavy mineral		
· •	N-6	3	Blackish brown	7	3.8314	Silty sand with heavy mineral		
	R-1	5	Brownish black	4	2.0526	Silty clay with heavy mineral		
Kelani	R-2	3	Blackish brown	3	7.3440	Silty clay with organic material		
River	R-3	4	Brown	2	1.7934	Coarse to fine sand		
	R-4	4	Brown	1	2.6103	Coarse sand		
	R-5	3	Brown	1	1.4165	Coarse sand		

TABLE A.5.2.3 Characteristics of Sediments (NE monsoon season)

TADLE	23.2.4.4	A Chemical Compositions of Sediments (Art. monsoon season)										
Area	Point	T-N mg/kg	T-P mg/kg	O-P mg/kg	Cad- mium mg/kg	Lead mg/kg	Chro- mium mg/kg	Copper mg/kg	Zine mg/kg			
· · · · · · · · · · · · · · · · · · ·	0-1	517.98	7.77	7.48	1.00	30.00	10,00	10.00	65.00			
Outer	0-2	3667.48	27.25	22.90	2.50	25.00	35.00	20.00	140.00			
Harbour	0-3	102.55	24.52	24.20	1.50	26.00	20.00	10.00	140.00			
	0-1	1194.82	28.88	25.88	0.50	48.00	30.00	15.00	100.00			
	0-5	2559.85	24.54	18.68	1.50	1.00	35.00	20.00	110.00			
	F-1	1635.84	24.96	24.92	1.38	0.55	13.76	4.59	100.91			
Near	F-2	215.50	16.46	16.20	1.00	10.00	10.00	5.00	105.00			
Fishery Harbour	F-3	31 82	0.33	0.15	1.00	5.00	10.00	5,00	125.00			
	F-4	2815.59	31.79	22.26	1.50	9.50	30.00	15.00	140.00			
	F-5	22.42	16.65	14.40	ND	5.00	25.00	10.00	105.00			
<u> </u>	F-6	6.7	15.37	11.86	0.50	5.00	20.00	5.00	110.00			
	N-1	21.62	0.43	0.14	ND	10.00	10.00	ND	100.00			
North	N-2	14.11	23.10	22.87	0.50	12,50	60.00	40.00	95.00			
of Kefani	N-3	904.13	0.39	0.18	1.00	10.00	10.00	ND	90.00			
River	- N-4	36.28	0.35	0.11	ND	7.50	15.00	ND	90.00			
Mouth	N-5	1.89	1.30	1.01	ND	10.00	25.00	10.09	95.00			
	N-6	27.1	1.54	0.99	ND	ND	ND	10.00	100.00			
	R-1	519.73	15.02	14.49	0.49	14.85	14.85	4.95	163.36			
Kelani	R-2	2778.82	17.80	17.35	0.98	ND	24.51	9.80	98.03			
River	R-3	396.96	11.04	10.65	0.55	ND	33.33	5.56	105.56			
	<u>R-4</u>	10.50	13.23	12.78	0.50	10.50	45,00	5.00	120.00			
	R-5	396.12	10.67	10.23	0.45	6.82	13.64	4.55	104.55			

TABLE A.5.2.4 Chemical Compositions of Sediments (NE monsoon season)

ND: Not Detected

## TABLE A.5.2.5 (1) Sediment Quality Analysis Records (Other Items)

Parameters/Stations	0-1	0-2	0-3	0-4	O-5
Sulphides mg/kg	19.67	24.67	15.25	35.7	33.24
Arsenic mg/kg	2.63	0.55	2.63	2.58	0.57
Total Mercury mg/kg	2.72	1.10	1.53	0.95	0.79

Quality of Sediments during the south-west monsoon period - Out Harbour

Quality of Sediments during the north-east monsoon period - Out Harbour

Parameters\Stations	0-1	0-2	0-3	0-4	0-5	S-1
Sulphides mg/kg	12.94	56.75	4.95	34.22	54.26	197.11
Arsenic mg/kg	6.64	3.65	0.56	1.66	0.96	6.24
Total Mercury mg/kg	4.51	3.66	1.05	0.07	2.05	5.45

S-1' - The point where the Ocan Outfall is located

Quality of Sediments during the south-west monsoon period - Near Fishery Port

Parameters\Stations	F-1	F-2	F-3	F-4	F-5	F-6
Sulphides mg/kg	9.26	9.71	17.64	15.54	34.37	14.24
Arsenic mg/kg	3.71	2.68	1.69	1.96	1.39	0.59
Total Mercury mg/kg	1.04	0.85	0.96	0.75	0.71	0.75

## TABLE A.5.2.5 (2)

## Sediment Quality Analysis Records (Other Items)

Quality of Sediments during the north-east monsoon period - Near Fishery Port

Parameters\Stations	F-1	F-2	F-3	F-4	F-5	F-6
Sulphides mg/kg	79.00	16.88	20.13	94.55	11.6	20.04
Arsenic mg/kg	3.91	6.35	0.66	1.17	1.25	1.01
Total Mercury mg/kg	0.51	0.75	0.99	0.71	0.68	0.63

Quality of Sediments during the south-west monsoon period - North of Kelani River Mouth

Parameters\Stations	N-1	N-2	N-3	N-4	N-5	N-6
Sulphides mg/kg	18.05	28.61	33.85	10.36	43.26	18.03
Arsenic mg/kg	0.85	1.20	0.66	1.08	0.45	1.03
Total Mercury mg/kg	2.45	1.19	1.52	0.74	1.91	0.59

Quality of Sediments during the north-east monsoon period - North of Kelani River Mouth

Parameters\Stations	N-1	N-2	N-3	N-4	N-5	N-6
Sulphides mg/kg	10.58	260.61	17.55	17.05	17.07	10.50
Arsenic mg/kg	3.25	2.06	0.46	1.06	1.02	3.65
Total Mercury mg/kg	5.95	3,30	2.25	0.55	2.11	1.65

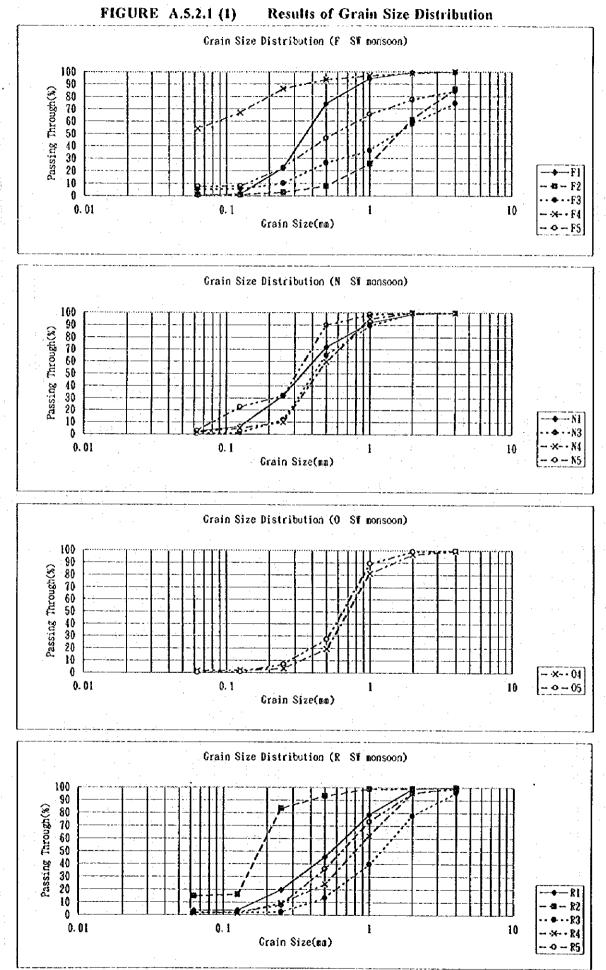
## TABLE A.5.2.5 (3) Sediment Quality Analysis Records (Other Items)

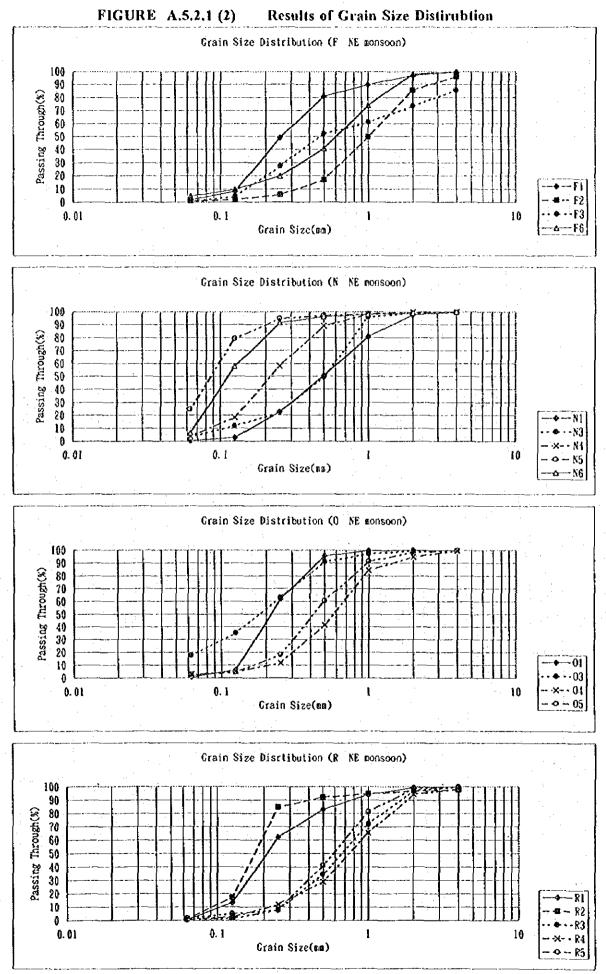
Parameters\Stations	R-1	R-2	R-3	R-4	R-5
Sulphides mg/kg	14.70	14.90	20.68	16.81	17.76
Arsenic mg/kg	0.89	0.96	0.26	0.29	0.66
Total Mercury mg/kg	1.45	1.85	0.89	0.87	0.55

Quality of Sediments during the south-west monsoon period - Kelani River

Quality of Sediments during the north-east monsoon period - Kelani River

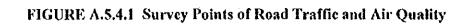
Parameters\Stations	R-1	R-2	R-3	R-4	R-5
Sulphides mg/kg	20.19	105.83	4.40	2.94	21.65
Arsenic mg/kg	0.43	0.65	0.86	0.35	0.23
Mercury mg/kg	0.51	1.10	1.53	0.95	0.79

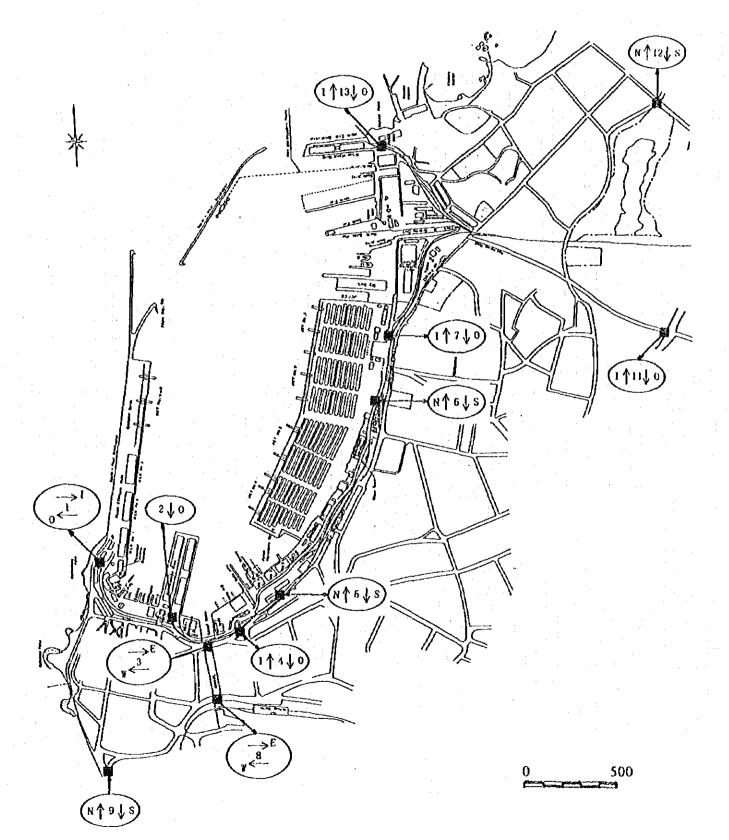




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0-17



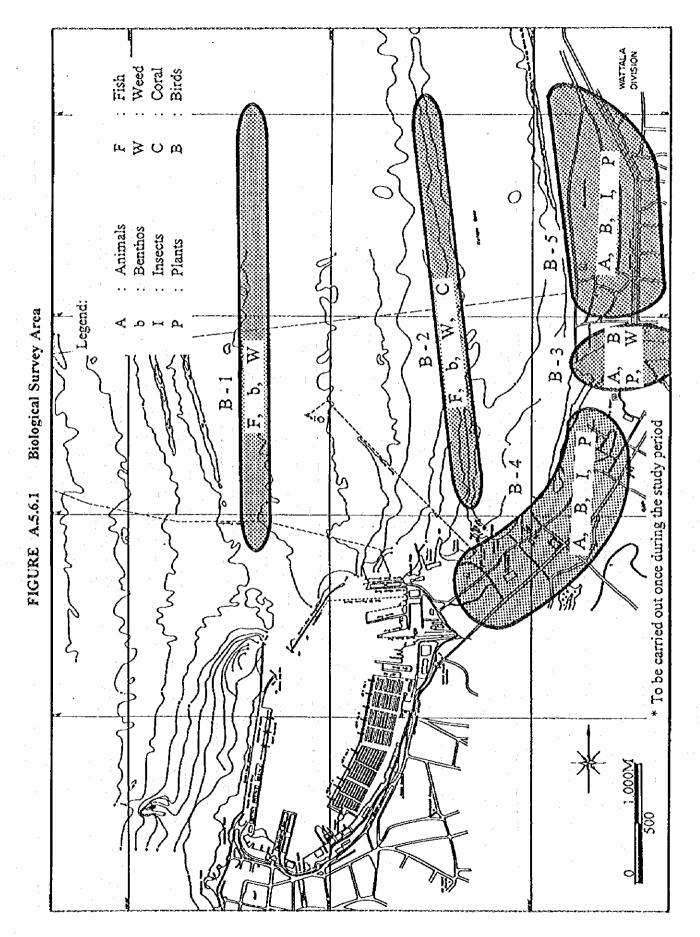


Location	Date Nov. 95	1. Trailers	2. Large Heavy Vehicles	3. Other Heavy Vehicles	4. Automobiles	Total	Peak No. Per Hour
R1	10 (Fri)	196	424	140	1684	2444	236
	11 (Sat)	40	300	60	728	1128	120
R2	10 (Fri)	0	232	36	308	576	56
	11 (Sat)	0	44	0	64	108	32
R3	17 (Fri)	332	1228	1108	2170	24428	2140
	18 (Sat)	496	824	784	14892	17246	1652
R4	10 (Fri)	0	280	128	1704	2144	188
	11 (Sat)	8	192	72	1052	1324	144
R5	17 (Fri)	348	1320	652	14216	16536	1640
	18 (Sat)	308	1064	484	10232	12088	1084
R6	17 (Frì)	840	1288	828	11552	13712	1292
	18 (Sat)	24	1184	428	8788	10424	896
R7	10 (Fri)	0	772	460	1076	2308	288
· · •	11 (Sat)	4	428	64	456	1152	196
R8	17 (Fri)	212	1304	1116	26420	29052	2344
	18 (Sat)	116	944	840	21444	23344	1932
RIÌ	10 (Fri)	1992	92	76	704	2864	236
· · ·	11 (Sat)	1072	4	4	306	1380	100
R12	17 (Fri)	68	972	580	3788	5408	448
	18 (Sat)	40	908	452	2912	4312	380
R13	10 (Fri)	4	884	188	532	1608	148
	11 (Sat)	0	920	120	376	1416	104

TABLE A.5.5.1 Result of Road Traffic Surveys

Note:

Two wheeled vehicles are excluded in the above summary.
 R1, R2, R7 were closed on 11 Nov. '95 due to security reasons.



#### TABLE A.5.6.1 Birds (B3, \*migrant species)

Little cormorant *Whiskered tern	
White breasted Kingfisher	
Median egret	
Common mynah	
Alexandrine parakect	
House crow	
Brahmin Kite	
*Barn swallow	
Domestic pigeon	
White browed prinia	-
Indian shag	
Koel	
1	1

Greater coucal White browed bulbul Pond heron Eastern purple heron Grey heron Large egret Little egret Lotern's sunbird Red vented bulbul Common babbter Purple sunbird Small flowerpecker Magpie robin Redrumped swallow Tailor bird Purple rumped sunbird Brown headed barbet \*Blue tailed bee eater Little tern Gull billed tern \*Common tern \*Common sandpiper Alpine swift House sparrow \*Large sand plover \*Brown shrike

## TABLE A.5.6.2 Birds (B4)

\*Barn swallow Tailor bird House sparrow House crow White breasted Kingfisher Little green heron Loten's sunbirds Purple sunbirds Purple rumped sunbird Small flowerpecker Mapie robin Little swift Brahmini Kite Red vented bulbul White breasted waterhen" \*Blue tailed bee eater Alexandrine parakeet White vented dranga

Cattle egret Common bobbler Common mynah White browed bulbul Stork billed Kingfisher White brawed Prinia \*Marsh harrier Shikta Yellow bittern Layard's parakeet Little cormorant Whiskered tern Domestic pigeon Indian shag Koel \*Greater coucal Pond heron **Purple** heron Large egret \*Gull billed tern

Red wattled lapwing Little tern Red rumped swallow Palm swift Indian pitta Edible nest swift \*Common tern Brown headed barbet \*Common sand piper Red backed woodpecker \*Ruddy Turnstone Alpine swift White backed munia \*Wood sandpiper Ashy swallow shrike Large created tern Serpent eagle \*Lesser crested tern Night heron

### TABLE A.5.6.3 Fish

#### Reef Fish

Family: Acanthuridae A conthurus xonthopterus A conthurus nigrofuscus A conthurus triostegus Ctenochaetus stristus

Family: Apogonidae Apogon spp. Chenochaetus striatus

Family: Balistidae Balistoides veridescens

Family: Genidae Gerres spp.

Family: Blennidae Ecsenius spp. A spidontus taeniatus Unidentified spp.

Family: Caeseionidae Caesio cuning Pterocaesio chrysozana

Family: Carangidae Caranx sexfasciatus Trachinotus balloni Trachinotus blochii Scomberoides commersonianus Scomberoides lysan Caranx sp.

Family: Chaetodontidae Chaetodon decussatus Chaetodon citrinellus Chaetodon kleinti Chaetodon collare Heniochus acuminatus Heniochus monoderos Family: Tetraodontidae Canthigaster solandri Arothron hispidus Arothron nigropunctatus

Family: Cirthitidae Cirrhitichthys oxycephalus Cyprinocirrhites polyactis

Family: Fistularidae Fistularia sp.

Family: Gobiidae Amblygobius sp. Cryptocentrus sp.

Family: Grammistidae Diplopyion bifasciatum

Family: Sphyraenidae Sphyraena barracuda Sphyraena obtusata

Family: Haemulidae Plectorhinchusgibbosus Plectorhinchus schotaf

Family: Holocentridae Myripristis sp. Neoniphon sammara

Family: Kyphosidae Kyphosus sp.

Family: Labridae Bodianus diana Bodianus neilli Thallasoma lunare Thallasoma hardwicke Thallasoma janseni Labroides dimidiatus Unidentified spp. Family: Lethrinidae Lethrinus ornatus Lethrinus harak

Family: Lutjanidae Lutjanus quinquilineatus Lutjanus rivulatus Lutjanus fulvus Lutjanus argentimaculatus Lutjanus lunulatus Lutjanus russelli Lutjanus lutjanus

Family: Mullidae Mugil spp.

Family: Multidae Parupeneus indicus Parupeneus macronema Parupeneus flavolineatus

Family: Muraenidae Gymnothorax favagineus Gymnothorax flavimarginatus

Family: Nemipteridae Scolopsis bimaculatus Scolopsis vosmeri Scolopsis bilineatus

Family: Pinguipedidae Parapercis sp.

Family: Pempheridae Pempheris oualensis

Family: Pomacanthidae Pomacanthus semicirculatus Pomacanthus annularis A polomichthys xanthurus Centropyge multispinis Family: Semanidae Cephalopholis argus Cephalopholis formosa Epinephelus merra Epinephelus malabaricus

Family: Pomacentridae Pomacentrus coelestis Pomacentrus chrysunis Pomacentrus proteus Neoglyphidodon bonang A budefduf vaigiensis A budefduf sordidus Abudefduf septemfasciatus Chivsiptera leucopoma Chrysiptera unimaculara Neopomacentinis azysron Neopomacentrus taeniurus

Family: Siganidae Siganus canaliculatus Siganus lineatus

Family: Pseudochtomidae Pseudochromis melas

Family: Scorpaenidae Pterois antennata

Family: Zanclidae Zanchus comutus

# TABLE A.5.6.4Fish and Crustacean Species Commonly caughtin the study area are as under.

**Common Name** 

## Scientific Name

Family Name

Clupeidae

### <u>Fish</u>

Salaya Sudaya Lagga Moralla Karalla Mondali Pannawa Halmessa Thoitawa Keeli Kossa Karattaya Nagariya Kumbalawa Wenganawa Kalanda Jeelawa Kalawa Orawa Anguluwa Kalava Meevetiya Pulunna

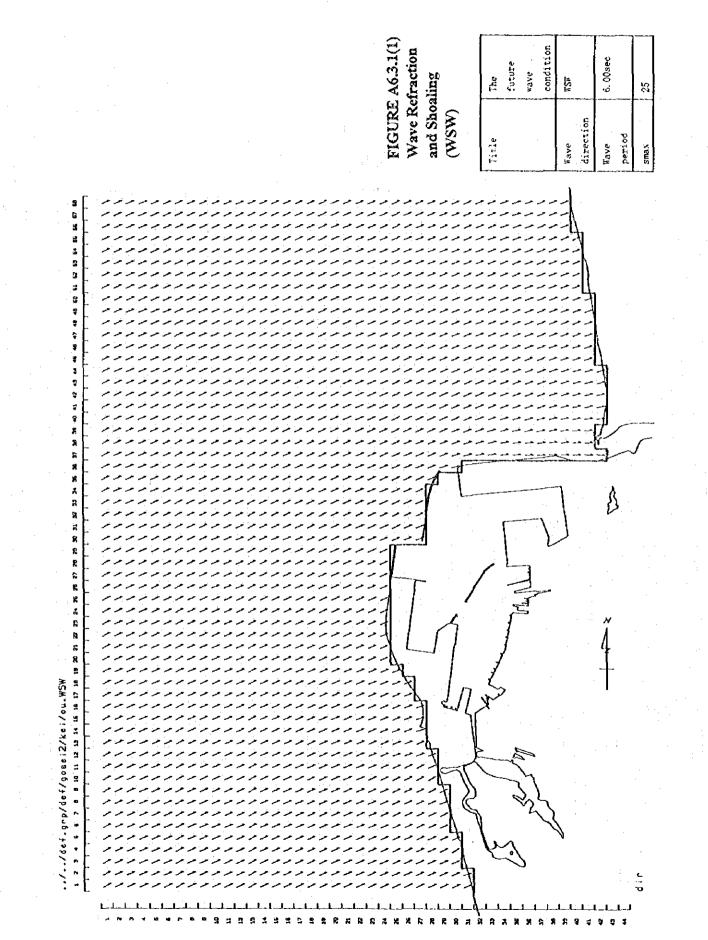
Sardinella sp
Sarcinella albells
Thryssa sp.
Hemiramphus sp
Leiognathus sp
Johonius sp
Otolithes sp.
Stolephorus sp.
Opisthopterus tardoore
Terapon sp
Epenephelus sp
Hilsla kelee
Upeneus sp
Rastrelliger kanagurta
Pellona sp
Sillago sihama
Sphraena sp
Eleutheronema sp
Siganidaie sp
Arius sp
Ppolynemus sp
Lutjanus sp

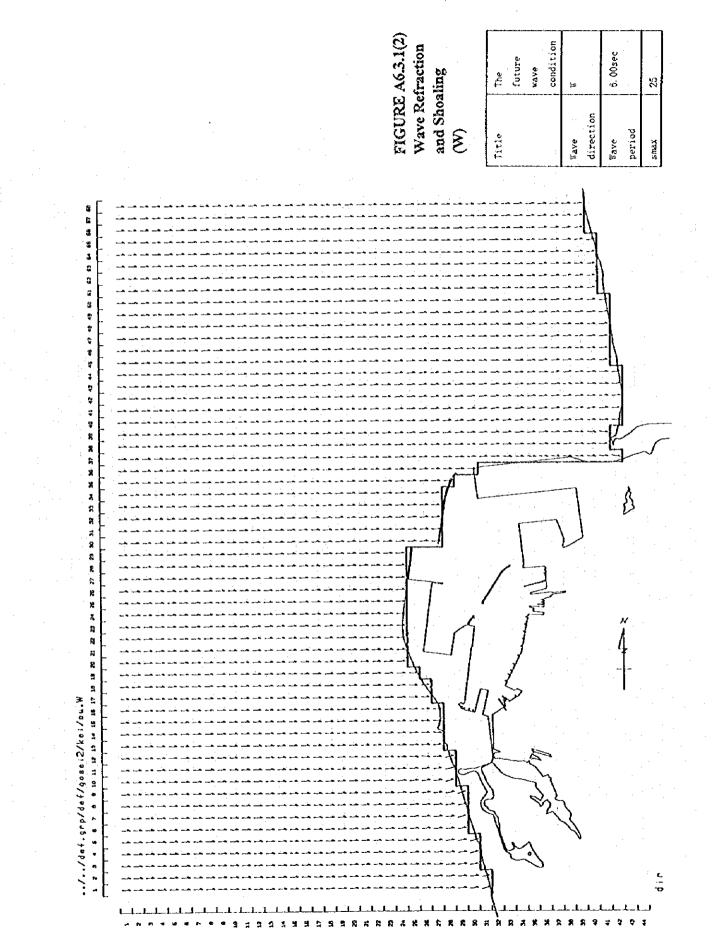
Clupeidae Engraulidae Hemiranphidae Leiognathidae Scienidae Scienidae Engraulidae Cluoeidae Teraponidae Serranidae Clupeidae Mullidae Scombridae Clupeidae Sillaginidae Sphyraenidae Polynemidae Siganus Arridae Polynemidae Lutjanidae

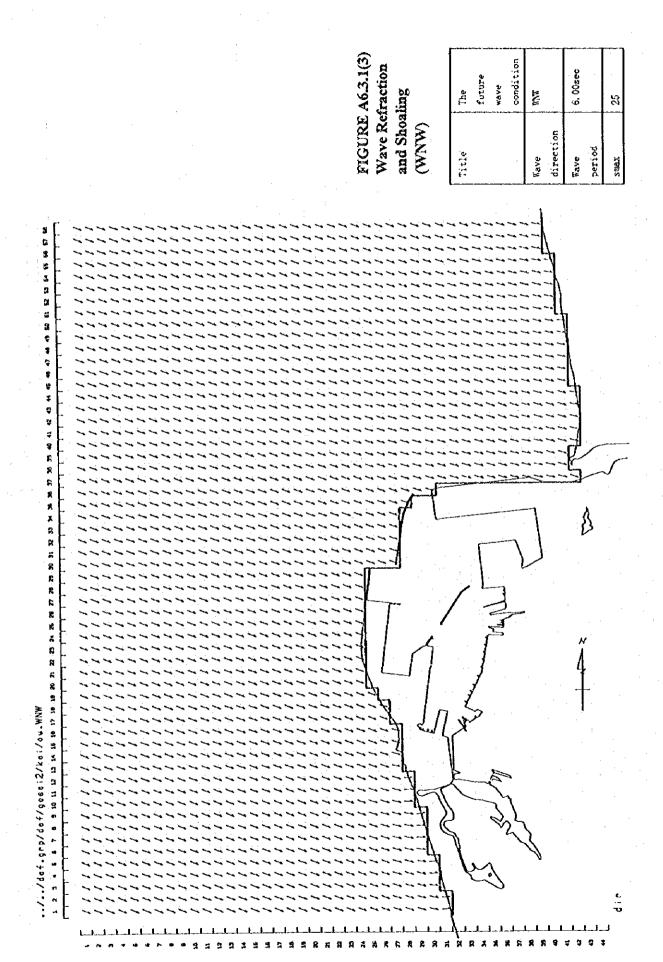
## **Crustaceans**

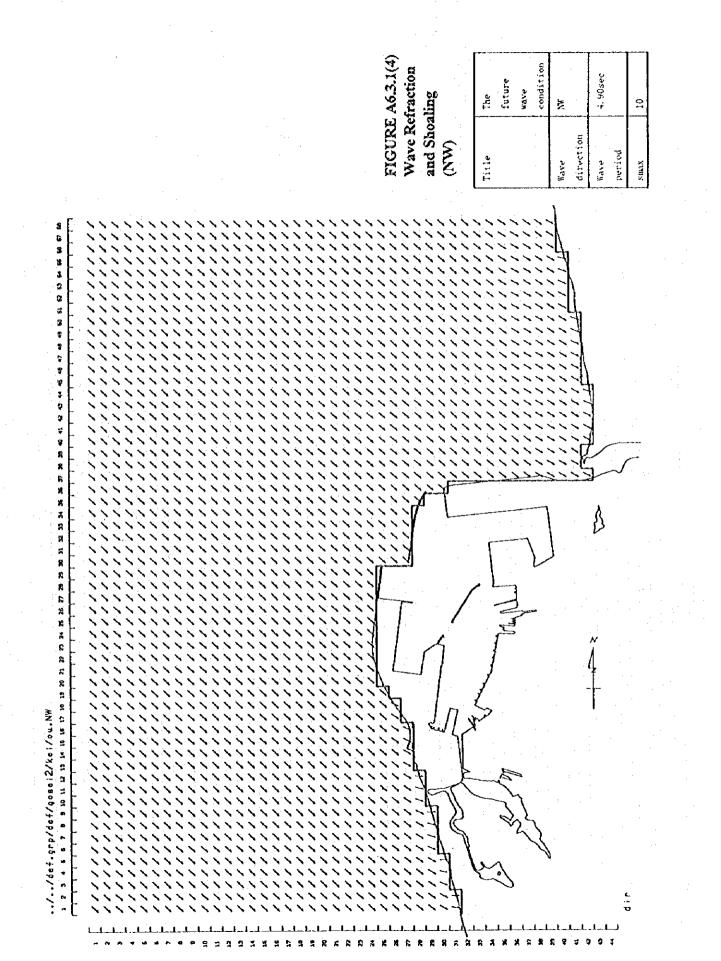
Kiri issa Kiri issa Kurutu issa Kal issa Ein issa (Mat issa) Gal issa Serrated crab Bllue swimming crab Three spotted Swimming crab Painted swimming crab Penaeus indicus Penaeus merguiensis Penaeus semisulcatus Penaeus monodon Metapenaeus dobsoni Metapenaeus monoderos Scylla serrata Portunus pelagics

Portunus sanguinotentus Grapsus sp. Penaeidae Penaeidae Penaeidae Penaeidae Penaeidae Portunidae Portunidae Portunidae Portunidae





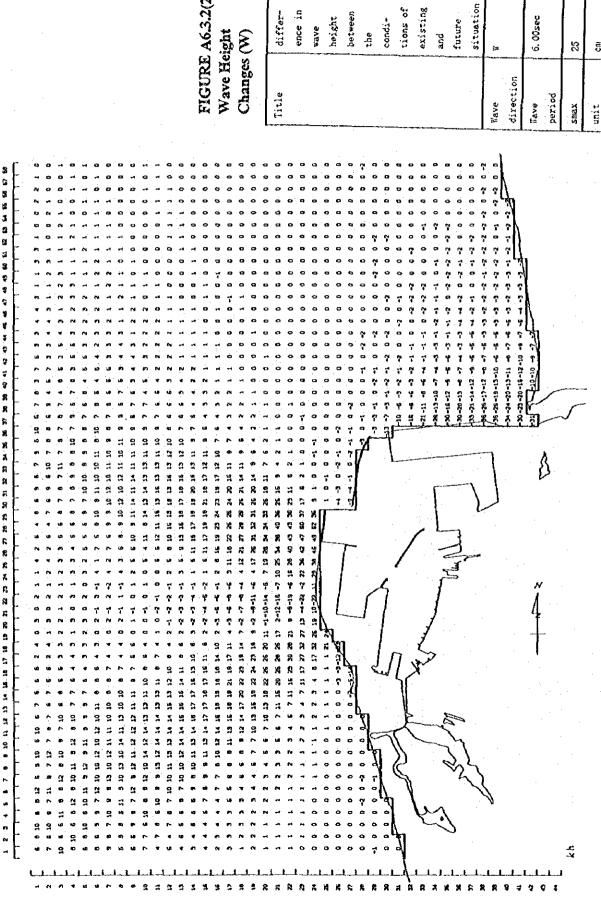




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												FIGURE A0.5.2(1)	Wave Height		Cuanges (wow)	Title							· •••••							4	#ave	direction	llave	period	XEMS	unit
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**FIGURE A6.3.2(2)** 

